

# **94<sup>th</sup> Annual Report**

**2016-2017**

**Part-I**



**University of Delhi**

**Delhi**

**[www.du.ac.in](http://www.du.ac.in)**

University of Delhi  
94<sup>th</sup> Annual Report  
PREFACE

The University of Delhi is a premier university of the country. Since its establishment in 1922, it has maintained the highest standards and has propagated best practices in higher education. In alignment with its motto, *Nishtha Dhriti Satyam*, it fosters a long-term commitment to nation building and an unflinching adherence to universal human values. It is a privilege to present the 94<sup>th</sup> Annual Report, covering the period from April 1, 2016 to March 31, 2017.

The University has maintained its position at the top in the country as per the Centre for World University Ranking (CWUR) ranking and is 8<sup>th</sup> in the National Institutional Ranking Framework. It is also among the top 10 Indian public educational institutions/universities and the first among Indian public universities under QS BRICS University Rankings. The h-index of the University touched 157, one of the highest among Indian universities. The University received more than Rs 300 crores of grants in 2016-17 from extramural sources with over 300 research projects underway during this period. The University facilitates its department faculty and college teachers with grants, leading to a number of prestigious research publications, books and patents. The University has set up various entrepreneurship support programmes such as the Electropreneur Park and Technology Business Incubator.

The University offers more than 500 programmes, which include undergraduate programmes, an array of postgraduate programmes (Masters, MPhil and PhD), Certificate and Diploma programmes. It has implemented the Choice Based Credit System (CBCS) at the undergraduate level, offering a vibrant spectrum of skill-based programmes. It plans to establish new centres of learning such as the Delhi School of Journalism, the Delhi School of Transnational Affairs and the Institute of Cyber Security and Law.

The University has always achieved international distinction through excellence in research and innovation and its novel endeavour of drafting a Research Ethics Policy, Guidelines for Patents and Technology Transfer and a Quality Framework is aimed at enhancing and invigorating its research culture further. It stresses on qualitative initiatives such as Students' Experience Survey and conducts Benchmarking exercises to renew itself.

The University has been proactive in enhancing social sensitivity towards the needs of weaker sections of society through the launch of a programme where free classes were given to the underprivileged students, helping them prepare for the entrance examinations to various postgraduate programmes. The University has also initiated a crash course for UGC-CSIR/NET examination preparation.

The University is moving forward with digitization and has covered various processes related to administration, library system, pedagogical practices and research initiatives. The University is also expanding collaborations with international institutions and has launched a special drive to expand the induction of foreign students, thereby reaching out to the community extensively, foregrounding its cultural ideal of *Vasudhaiva Kutumbakam*. It has received funds for some endowments to award fellowships/medals to meritorious students. Support from alumni has been overwhelming and ties are being further strengthened.

As an emerging leader in global education and research, it is the prerogative of the University of Delhi to contribute significantly to the intellectual growth of the country by serving around seven lakh students and faculty from across India and abroad.

Yogesh K. Tyagi  
Vice Chancellor  
University of Delhi

## EDITORIAL COMMITTEE

The 94<sup>th</sup> Annual Report of the University of Delhi for the year ending 31<sup>st</sup> March, 2017 is presented here. The Report consists of two parts:

Part-I contains information about University of Delhi's academic progress including Faculties, Departments, Centres and Colleges; Infrastructural Developments; and Finance.

Part-II carries Information and Data.

The Editorial Board, which prepared this Report, comprised of the following members:

- |     |                          |  |
|-----|--------------------------|--|
| 1.  | Prof. Pami Dua           | Dean Academic Activities & Projects, Chairperson |
| 2.  | Prof. Tarun Kumar Das    | Registrar, University of Delhi                   |
| 3.  | Prof. Yogendra Singh     | Dean Research, Life Sciences                     |
| 4.  | Prof. T. R. Seshadri     | Dean Research (Phy. Sc. & Math Sc.)              |
| 5.  | Prof. Vijay Chaudhary    | Department of Biochemistry                       |
| 6.  | Prof. Kavita Sharma      | Dean, Faculty of Commerce                        |
| 7.  | Prof. Mohan              | Dean, Faculty of Arts                            |
| 8.  | Prof. Anita Sharma       | Head, Department of East Asian Studies           |
| 9.  | Dr. Anupam Chattopadhyay | Department of Geology                            |
| 10. | Prof. Neera Agnimitra    | Head, Department of Social Work                  |
| 11. | Prof. Arun Jagannath     | Department of Botany                             |
| 12. | Prof. Sanjay Kapoor      | Department of Plant Molecular Biology            |
| 13. | Dr. Deepika Bhaskar      | Deputy Dean, Research                            |
| 14. | Dr. Ashish Ranjan        | Department of Education                          |
| 15. | Dr. Mukesh Mehlawat      | Department of Operational Research               |
| 16. | Dr. Meenal Dhall         | Department of Anthropology                       |
| 17. | Dr. Urmi Bajpai          | Deputy Dean Research                             |
| 18. | Dr. Uma Chaudhry         | Bhaskaracharya College of Applied Sciences       |
| 19. | Dr. Vikas Gupta          | Joint Registrar (Council)                        |

Co-opted members:

- |     |                    |   |
|-----|--------------------|---|
| i)  | Dr. K. Ratnabali   | Deputy Dean Legal   |
| ii) | Prof. Kumud Sharma | Officiating Director,<br>Directorate of Hindi Medium Implementation |

The Report presents the highlights of activities and achievements of the University of Delhi during the year 2016-2017 (April 1, 2016 to March 31, 2017).

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## OFFICERS OF THE UNIVERSITY

### Chancellor

Hon'ble Mohd. Hamid Ansari, Vice President of India

### Pro-Chancellor

Justice Tirath Singh Thakur

### Vice-Chancellor

Prof. Yogesh Kumar Tyagi

### Pro-Vice-Chancellor

Prof. J. P. Khurana (Officiating) w.e.f. 01.06.2016

### Dean of Colleges

Prof. Devesh Kumar Sinha w.e.f. 06.09.2016

### Director, South Delhi Campus

Prof. J. P. Khurana w.e.f. 27.05.2016

### Director, Campus of Open Learning

Prof. C. S. Dubey (Officiating)

### Treasurer

Mr. T. S. Kripanidhi

### Proctor

Prof. Satwanti Kapoor up to 02.11.2016

Prof. Neeta Sehgal (Officiating) w.e.f. 18.01.2017

### Dean Students Welfare

Prof. J. M. Khurana up to 31.12.2016

### Registrar

Prof. Tarun Kumar Das

### DEANS OF FACULTY

#### Arts

Prof. Minni Sawhney up to 05.07.2016

Prof. Hari Mohan Sharma up to 12.09.2016

Prof. Mohan w.e.f. 13.09.2016

**Science**

Prof. Devesh K. Sinha up to 08.06.2016  
Prof. M.K. Pandit w.e.f. 09.06.2016

**Social Sciences**

Prof. J.P. Dubey

**Law**

Prof. Subhash Chander Raina up to 01.09.2016  
Prof. (Ms.) Ved Kumari w.e.f. 02.09.2016

**Management Studies**

Prof. M.L. Singla

**Mathematical Sciences**

Prof. Jagdish Saran up to 03.08.2016  
Prof. Prakash Chandra Jha w.e.f. 04.08.2016

**Medical Sciences**

Prof. Sudha Prasad up to 19.10.2016  
Prof. Arunabha Ray w.e.f. 20.10.2016

**Music & Fine Arts**

Prof. Suneera Kasliwal

**Technology**

Prof. B.K. Dass up to 29.09.2016  
Prof. Avinash Khare w.e.f. 21.11.2016

**Ayurvedic and Unani**

Dr. Mohd. Idris Khan

**Education**

Prof. Sadhna Saxena up to 20.09.2016  
Prof. (Ms.) N. Ranganathan w.e.f. 21.09.2016

**Inter-Disciplinary and Applied Sciences**

Prof. Pradeep Kumar Burma

**Applied Social Sciences and Humanities**

Prof. Suresh Chand Aggarwal up to 26.01.2017  
Prof. V. K. Kaul w.e.f. 27.01.2017

**Commerce & Business**

Prof. Muneesh Kumar

**Homeopathic Medicine**

The Dean, Faculty of Medical Sciences

## **STUDENT ENROLLMENT**

As per 2016-17 data, the University has 1,97,510 undergraduate; 25,745 post graduate students, including M.Phil./Ph.D. students; and 6,147 in Certificate/Diploma/PG Diploma on rolls. The total number of students enrolled in conventional mode is 2,29,402. Additionally, as many as 4,13,339 students are enrolled in the distance mode and 23,435 non-collegiate women students also form part of this mammoth University. The total enrollment across conventional and distance mode in all programmes was 6,66,176 during 2016-17. At present, more than half of the students come from states other than Delhi.

## **ACHIEVEMENTS OF THE YEAR**

The University of Delhi has the privilege of a venerable legacy as an institution dating back to 1922. Established by an Act of Parliament, it is guided by the statutes, ordinances, rules and regulations that are stipulated.

With 16 Faculties, 82 Departments, 20 Centres, 85 constituent Colleges, and one Community College, the University of Delhi is one of the largest universities in India. With more than six lakh students in the formal and non-formal/distance education mode, the University of Delhi, in keeping with its traditions and development, has moved from strength to strength.

This is reflected in the achievements and signposts established by the University during the past one year of reporting. Brief overviews of noteworthy achievements of the year 2016-2017 (April 1, 2016 – March 31, 2017) are presented here.

## **FOUNDATION DAY**

The University of Delhi celebrated its 94th Foundation Day on May 1, 2016. The distinguished guests included Hon'ble Mr. Justice Madan B. Lokur, Hon'ble Mr. Justice Arjan Kumar Sikri and Hon'ble Mr. Justice Rohinton Fali Nariman, all alumni of the University of Delhi. This was a historic occasion with the National Flag being hoisted at the Vice Chancellor's office, Viceregal Lodge for the first time in the University. The University's distinctive purple flag was also raised and tree saplings were planted.

The dignitaries and their families paid tribute to Shaheed Bhagat Singh at the chamber, where he was held captive, in the basement of the Viceregal Lodge. Awards were conferred for exemplary service to the University under the category of 'Distinguished Service Awards' to retired teachers and non-teaching staff and 'Excellence Awards' for teachers in service in University Departments and Colleges. They also visited a display of selected Innovation Projects from various colleges under the Undergraduate Research Initiative of the University.

## **CONVOCATION**

The University organized its 93<sup>rd</sup> Annual Convocation on November 19, 2016. Professor Ved P. Nanda, an eminent jurist, Evans University Professor, Thompson G Marsh Professor of Law and Director of the Nanda Centre for International & Comparative Law, University of Denver, Colorado, USA was the Chief Guest and delivered the Convocation Address.

The University opened the Shaheed Bhagat Singh memorial archives at the Viceregal Lodge, University of Delhi for visit by public on this occasion. Degrees were conferred upon 693 Ph.D. candidates and 37 D.M./M.Ch. candidates. 179 medals and prizes were awarded to the meritorious students. Convocation work was largely undertaken on e-platform as a green initiative by the University. A live webcast of the Convocation was available on the University website. A Research Display of 83 Innovation Projects from the Undergraduate Research Initiative of the University of Delhi was organized on the occasion. A display of art work was also organized that added vibrancy to the event.

## RANKINGS OF THE UNIVERSITY

- Department of **Economics** was ranked the highest amongst university economics departments in India by *Repec*, a global electronic archive of working papers and publications in Economics for the past years. (<http://ideas.repec.org/top/top.india.html>)
- Department of **Social Work** maintains the 2<sup>nd</sup> Rank in the best Social Work Institutes in India as per the Outlook survey 2017.
- University of Delhi has been ranked No. 1 by CWUR 2017 at the national level.

### National Ranking

Overall Ranking	2017/18
National Institutional Ranking Framework (NIRF)	8
Centre for World University Rankings (CWUR)	1

### International Ranking

Overall Ranking	2017/18
Times Higher Education (THE) World University Ranking	601-800
THE Asia University Ranking	131-140
THE BRICS & Emerging Economics University Ranking	109
Centre for World University Ranking	397
QS World University Ranking	481-490
QS Asia University Ranking	72
QS BRICS University Ranking	41
	<ul style="list-style-type: none"> <li>• Top 1 % of universities in BRICS Region since there are approximately 9,000 universities regionally</li> <li>• Among top 10 Indian public educational institutions/universities</li> <li>• First among Indian public universities</li> </ul>

QS World Subject-Wise, 2017	
Anthropology	51-100
Geography and Area Studies	101-150
Sociology	151-200
Economics and Econometrics	251-300
Physics and Astronomy	251-300
Chemistry	301-350
Biological Sciences	401-450

World University Ranking, QS Graduate Employability Ranking	
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Alumni Outcomes	21
Employer Reputation	209
Employer-Student Connections	201+
Graduate Employment Rate	201+
Partnership with Employers	201+

## RESEARCH HIGHLIGHTS

### **h-index**

As per Scopus database, the h-index of the University of Delhi is 157, one of the highest among Indian Universities.

### **Research Publications**

As per records of the University, the total number of publications from 2012-17 are 10,120 (Around 9,500 research papers and around 620 books)

### **Extramural Research Grants**

Ongoing Projects in the year 2016-17 – 333

Major Projects – 226

Minor Projects – 107

Total Cost/Value of Projects – Rs. 308.81 Crores

Projects sanctioned in 2016-17 – 71

Total Amount – Rs. 32.32 Crores

University of Delhi is the recipient of the highest DST-PURSE grant for Phase-II (2014-2019) – Rs. 40.80 Crores. The University has extramural research projects from almost every national funding agency and many international funding agencies like DBT, DST, IFICAR, UGC, MOEF, IAEA, ICAR, DRDO, CSIR, MOES, ICMR, MNRE, World Bank, TERI, Indo-USSTF, GAIL, IUAC, ICSSR, USA, MCIT, NUST, Univ. of Norway, Univ. of Turkey, ISRO, SDTT, Vigyan Prasar, SERB-DST, Japan Foundation, SEWA-THDC, MOSJ&E, DAE, MWCD, INSA, TISS-DU, Leverhulme Trust UK, ICHR etc.

### **Departments with Fund for Improvement of S&T (DST-FIST): Ten**

- Anthropology
- Biochemistry
- Botany
- Chemistry
- Genetics
- Geology
- Mathematics



- Physics & Astrophysics
- Plant Molecular Biology
- Zoology

### **Departments with Financial Assistance under UGC SAP:**

#### **Departmental Research Support (DRS)**

- Anthropology
- Biochemistry
- Dr. B.R. Ambedkar Centre for Bio-Medical Research
- Germanic and Romance Studies
- Geography
- Genetics
- Hindi
- Modern Indian Languages and Literary Studies
- Persian
- Plant Molecular Biology
- Psychology
- Microbiology

#### **Department of Special Assistance (DSA)**

- English
- Music
- Mathematics

#### **Centre for Advanced Study (CAS)**

- Buddhist Studies
- Chemistry
- Economics
- History
- Linguistics
- Political Science
- Social Work
- Sociology

#### **Area Studies Programme (ASP)**

- African Studies
- Centre for Canadian Studies
- Developing Countries Research Centre
- East Asian Studies

### **Faculty Members with Grants above Rupees One Crore:**

During the period under report, some faculty members of the University have been sanctioned Research Projects of the value of more than Rupees One Crore each.

1. Dr. Vipin Gupta, Department of **Anthropology**, Rs. 3.81 Crores from DBT-Wellcome Trust
2. Prof. V. K. Chaudhary, Department of **Biochemistry**, Rs. 1.14 Crores from DBT
3. Prof. Anil K. Tyagi, Department of **Biochemistry**, Rs. 4.85 Crores from DBT
4. Prof. C. R. Babu, **CEMDE**, Rs. 5.79 Crores from DDA
5. Prof. B. Biswal, **Cluster Innovation Centre**, Rs. 1.70 Crores from MHRD
6. Prof. A. K. Pradhan, Department of **Genetics**, Rs. 4.87 Crores and Rs. 11.88 Crores, DBT and DBT-UDSC

7. Prof. B. K. Thelma, Department of **Genetics**, Rs. 15.7 Crores and Rs. 5.72 Crores from SERB and DBT
8. Prof. M. V. Rajam, Department of **Genetics**, Rs. 1.56 Crores from DBT
9. Prof. D. Pental, Department of **Genetics**, Rs. 1.89 Crores from DBT-BBSRC
10. Prof. Arun K. Sharma, Department of **Plant Molecular Biology**, Rs. 1.31 Crores from DBT
11. Prof. Sanjay Kapoor, Department of **Plant Molecular Biology**, Rs. 1.31 Crores and Rs. 1.67 Crores, DBT
12. Prof. J. P. Khurana, Department of **Plant Molecular Biology**, Rs. 1.39 Crores from DBT
13. Prof. Akhilesh K. Tyagi, Department of **Plant Molecular Biology**, Rs. 1.96 Crores from DBT NIPGR
14. Prof. Swati Saha, Department of **Microbiology**, Rs 1.82 Crores from DBT

### **Faculty Members with Grants above Rupees Ten Lakhs:**

<b>Name</b>	<b>Department</b>
1. Dr. Madhu Chopra	ACBR
2. Dr. Yatendra Kumar Satija	ACBR
3. Prof. Daman Saluja	ACBR
4. Prof. A. K. Kapoor	Anthropology
5. Prof. S. M. Patnaik	Anthropology
6. Prof. V. K. Chaudhary	Biochemistry
7. Dr. Garima Khare	Biochemistry
8. Prof. Suman Kundu	Biochemistry
9. Prof. D. P. Sarkar	Biochemistry
10. Dr. Amita Gupta	Biochemistry
11. Dr. Manisha Goel	Biophysics
12. Prof. Arun Jagannath	Botany
13. Prof. Manu Agarwal	Botany
14. Prof. Suman Lakhanpal	Botany
15. Dr. Ratul Baishya	Botany
16. Prof. Renu Deswal	Botany
17. Prof. Satish C. Bhatla	Botany
18. Dr. Yashwanti Mudgil	Botany
19. Dr. Deepika Bhaskar	Centre for Science Education and Communication
20. Prof. Rajamani Nagarajan	Chemistry
21. Prof. Rajiv Gupta	Chemistry
22. Prof. R. K. Sharma	Chemistry
23. Prof. Ramesh Chandra	Chemistry
24. Dr. Sasanka Deka	Chemistry
25. Dr. Jyoti Sharma	Cluster Innovation Centre
26. Prof. B. Biswal	Cluster Innovation Centre
27. Prof. Mridula Gupta	Electronic Science
28. Dr. Christel Devadawson	English
29. Dr. Chirashree Ghosh	Environment Science
30. Prof. Sanjay Sehgal	Financial Studies
31. Dr. Naorem Aruna Devi	Genetics
32. Dr. Jagreet Kaur	Genetics
33. Prof. A. K. Pradhan	Genetics
34. Prof. M. V. Rajam	Genetics
35. Prof. D. Pental	Genetics
36. Dr. Kaustuv Datta	Genetics

37. Dr. Surajit Sarkar	Genetics
38. Dr. Tapasaya Srivastava	Genetics
39. Prof. B. K. Thelma	Genetics
40. Prof. Pankaj Srivastava	Geology
41. Prof. J. P. Srivastava	Geology
42. Dr. Sanjeev Singh	IIC
43. Dr. Sachi Srivastava	Mathematics
44. Prof. Rani Gupta	Microbiology
45. Prof. R. C. Kuhad	Microbiology
46. Prof. Swati Saha	Microbiology
47. Dr. Rajeev Kaul	Microbiology
48. Prof. T. Satyanarayana	Microbiology
49. Prof. Sanjay Jain	Physics & Astrophysics
50. Prof. Vinay Gupta	Physics & Astrophysics
51. Prof. Binay Kumar	Physics & Astrophysics
52. Dr. Md. Naimuddin	Physics & Astrophysics
53. Prof. S. Annapoorni	Physics & Astrophysics
54. Prof. S. A. Hashmi	Physics & Astrophysics
55. Dr. Amarjeet Kaur	Physics & Astrophysics
56. Prof. J. P. Khurana	Plant Molecular Biology
57. Prof. G. K. Pandey	Plant Molecular Biology
58. Prof. Anil Grover	Plant Molecular Biology
59. Prof. Paramjit Khurana	Plant Molecular Biology
60. Dr. Saurabh Raghuvanshi	Plant Molecular Biology
61. Prof. Akhilesh K. Tyagi	Plant Molecular Biology
62. Prof. Arun K. Sharma	Plant Molecular Biology
63. Prof. I. Dasgupta	Plant Molecular Biology
64. Dr. Surekha K. Agarwal	Plant Molecular Biology
65. Prof. Sanjeev K. HM	Political Science
66. Prof. Rup Lal	Zoology
67. Prof. Rina Chakrabarti	Zoology
68. Prof. Alok C. Bharti	Zoology
69. Prof. Yogendra Singh	Zoology
70. Prof. Vinod Kumar	Zoology
71. Prof. Rita Singh	Zoology

### Foreign Grants

Name	Department	Amount (Rs.)
1. Dr. Shyama Rath	Physics & Astrophysics	Euro (€)-2485
2. Dr. R. K. Seth	Zoology	Euro (€)-5984
3. Prof. Rekha Saxena	Political Science	0.91 Lakh
4. Prof. Ashok K. Prasad	Chemistry	6.57 Lakh
5. Prof. Rekha Saxena	Political Science	1.89 Lakh; 2.86 Lakh; 2.55 Lakh

**Research & Development Grant** – The Research and Development (R&D) Grant is instituted by the University to promote research among faculty members of the departments and enrich the research base of the University. Teachers from the science departments are provided a grant of up to Rupees Three Lakhs each and teachers from

other departments get up to Rupees Two Lakhs each, for a period of one year. The University has sanctioned grants worth Rs. 29 Crores to more than 1,400 faculty members from Departments/Centres in the last five years.

**Innovation Projects** – This is the first scheme of its kind in the country, which is aimed to promote undergraduate and interdisciplinary research through University funding. The aim of the scheme is to develop a research culture in colleges and to encourage the involvement of undergraduate students in research initiatives in association with the faculty. The scheme was also introduced to encourage an interdisciplinary research environment, where faculty and students move beyond subject boundaries to solve real challenges faced by the society and the world.

Making a sizeable impact, the Scheme has facilitated the University to fund 679 projects worth Rupees 36.39 Crores in the past four years. The outcome also includes an impressive array of more than 288 peer-reviewed research publications, 24 books, six patents and 375 presentations in conferences. Over 2,000 teachers and around 8,000 students have been involved in these projects.

## DIGITAL INITIATIVES OF THE UNIVERSITY

The University has undertaken several digital initiatives in the past years which include the following:

### Campus Connectivity

- Wi-Fi enabled campus and colleges
- NKN connectivity
- Robust ICT network spanning over campus and colleges

### Digital Administrative Processes

- Online Admission
- Online Fee Collection
- Online Advanced Degrees/Duplicate Degree/Attestation of Degree/Special Certificate
- Online Student Grievance Redressal System
- E- Procurement
- Online System for House Allotment
- Online System for Hostel Accommodation
- Online System for Medical Bill Reimbursement
- Online Proforma for Faculty Appointments & Screening
- Online Confirmation of Services of Faculty
- Online Proforma for Teacher's Representation on College GBs
- Online Examination Hall Tickets
- Online Admission Tickets
- Online Examination Date Sheets
- Online Submission of Internal Assessment Mark

### Digital Research Initiatives

- DU e-Journals
- University Research Grants
- Research Profiles of Faculty Members
- Ph.D. Evaluation and *Viva Voce*

### Digital Teaching Initiatives

- Use of virtual classroom software, web-casting and video-conferencing
- Online teaching and learning resources through MOOCs
- Subscription to e-journals and resources

### Digital Initiatives of the DU Library System

- e-ShodhSindhu
- J-Gate@e-Shodh Sindhu
- Accessible resources for Visually Impaired
- Internet Access Facility
- Digital Collection of Ph.D. theses
- Electronic Databases

## RESEARCH JOURNALS OF THE UNIVERSITY

### E-journals

The University of Delhi publishes three e-journals:

- *The Delhi University Journal of Undergraduate Research and Innovation* (ISSN 2395-2334), an online bi-annual peer reviewed research journal (first of its kind in India).
- *The Delhi University Journal of the Humanities and the Social Sciences* (ISSN 2348-4357), peer reviewed research journal.
- *DU-Vidha: The Delhi University Journal of Creative Writing* (ISSN 2347-9094), published twice a year.

In addition, there are several other journals which are published by individual departments and colleges that include *Indian Economic Review*, *Journal of Commerce and Business Studies*, *Vageshwari*, *Indian Law Journal*, *Indian Journal of African Studies* etc.

## FACULTY AWARDS/HONOURS

- Prof. Suman Kundu of Department of **Biochemistry** won the Prof. Suresh C. Tyagi Oration Award for Young Faculty on 11 February, 2017 by International Academy of Cardiovascular Sciences (India Section) at its 9<sup>th</sup> Annual Conference in Vallabhshahi Patel Chest Institute, Delhi.
- Dr. Manish Kumar & Ms. Abhishikha Srivastava, Department of **Biophysics**, won the Discovery Award from Royal Society of London (November, 2016) for the development of rapid diagnostics of antimicrobial resistant genes in POC format.
- Prof. A.K. Pandey of Department of **Botany**, Elected President, Indian Botanical Society; Vice President, East Himalayan Society of Spermatophyte Taxonomy; and Secretary (Outstation), Indian Association for Angiosperm Taxonomy.
- Prof. S. Mazumdar of Department of **Botany**, Distinguished Alumna Award 2017 from Miranda House Alumni Association, Delhi University.
- Prof. Veena Agrawal of Department of **Botany**, 'Scientist of Eminence Award, 2016' by Society of Plant Research during an International Conference on Technological Advancement and Sustainable Agriculture in Rural Development held at NAAS Auditorium, New Delhi, 22-24 February, 2017.

- Prof. K. S. Rao of Department of **Botany**, Elected Fellow of Andhra Pradesh Akademi of Sciences, Amaravati on 7 November, 2016 and also elected as Fellow of The Linnean Society of London, UK on 20 October, 2016.
- Prof. Sahilendra Goel of Department of **Botany**, Elected Fellow of The Linnean Society of London, UK on 20 October, 2016.
- Prof. A. K. Dubey, **Biological Sciences and Engineering, NSIT**, Erasmus+ Teaching Mobility Award (2016-2017)
- Dr. Sanjeev Kumar, **Biological Sciences and Engineering, NSIT**, Bioenergy Award for Cutting Edge Research (B\_ACER, 2017) from DBT & IUSSTF; and Early Career Research (Young Scientist) Award 2016 from SERB, DST.
- Dr. Yatender Kumar, **Biological Sciences and Engineering, NSIT**, Carrier Research Award in Life Sciences Research Board (SERB), Department of Science & Technology (DST) Govt. of India.
- Prof. S.C. Raina, **Campus Law Centre** (on leave), appointed Vice Chancellor, Himachal Pradesh National Law University.
- Prof. J.L. Kaul, **Campus Law Centre** (on leave), appointed Vice Chancellor, H.N.B. Garhwal (Central University), Uttarakhand.
- Prof. Kamala Sankaran **Campus Law Centre** (on leave), appointed Vice Chancellor, Tamil Nadu National Law School.
- Dr. Deepika Bhaskar, **Centre for Science Education and Communication**, Teacher's Excellence Award 2016 for her outstanding contribution in Education by Indian Education Network.
- Prof. D. S. Rawat of Department of **Chemistry**, Professor SP Hiremath Memorial Award, Indian Council of Chemists, 2016.
- Prof. D. S. Rawat of Department of **Chemistry**, Fellow Royal Society of Chemistry (FRSC, 2016) and CChem, Royal Society of Chemistry (London, 2016).
- Dr. P. Venkatesu, Department of **Chemistry**, Professor S. S. Katiyar Endowment Lecture Award 2016-2017 from the Indian Science Congress Association; awarded Bronze Medal-2017, Chemical Research Society of India (CRSI), Bangalore.
- Prof. Anita Sharma, Department of **East Asian Studies**, Journalist Bimalendu Barua Peace Award 2016 by Nirvana Peace Foundation, Chittagong Bangladesh, July 16, 2016.
- Prof. Anita Sharma, Department of **East Asian Studies**, for achievements in the field of Peace by International Women's Club, Sydney, Australia, March 30, 2017.
- Prof. Pami Dua, Department of **Economics**, appointed as Member of Monetary Policy Committee, Reserve Bank of India.
- Prof. Ram Singh, Department of **Economics**, appointed as Member of the Pay Review Committee set up by the UGC and Ministry of Human Resource Development, Government of India for colleges and universities in India
- Prof. Maharaj K. Pandit, Department of **Environmental Studies**, selected for Radcliffe Institute Fellowship Program at Harvard University.
- Prof. Maharaj K. Pandit, Department of **Environmental Studies**, elected Fellow of Indian National Science Academy (INSA), New Delhi, India; appointed as Independent Director (Board of Directors) in Tehri Hydro Development Corporation (India) Limited by the Govt. of India.
- Prof. Inderjit Singh, Department of **Environmental Studies**, Distinguished Ecologist Award by Ecological Society of America.
- Dr. Bipin Kumar Tiwary, **Equal Opportunity Cell**, National Award for the Empowerment of Persons with Disabilities (Role Model) from the Hon'ble President of India on 3 December, 2016 at Vigyan Bhawan.
- Prof. Pradeep Kumar Burma, Department of **Genetics**, INSA Teachers award for the year 2016.
- Dr. Tapasya Srivastava, Department of **Genetics**, elected member of National Academy of Medical Sciences.

- Prof. R. B. Singh, Department of **Geography**, re-elected as Vice President of International Geographical Union (2016-20).
- Prof. G. V. R. Prasad, Department of **Geology**, J.C. Bose National Fellowship for second 5 years term.
- Prof. J. P. Shrivastava, Department of **Geology**, Prof. William Dixon West Memorial Award in the 104<sup>th</sup> Session of the ISCA held at S.V. University, Tirupati.
- Prof. Sheoraj Singh, Department of **Hindi**, Subramanyam Bharti Samman on 19 April, 2016; and Katha Chakra Samman on 24 September, 2016.
- Dr. Vinod Tiwari, Department of **Hindi**, Vanmali Katha-Alochna Samman on 5 April, 2016 for contribution in the field of Katha-Alochna.
- Dr. Alpna Mishra, Department of **Hindi**, Valmiki Katha Samman, 2017.
- Prof. Purna Gaur, Department of **Instrumentation and Control Engineering**, Outstanding Branch Counselor Award by IEEE Section, New Delhi in 2016.
- Dr. K. P. Singh, Department of **Library and Information Science**, Distinguished Library Science Teacher-2016, awarded by Delhi Library Association, Delhi.
- Dr. Vageshwari, **Law Centre-II**, appointed as the Treasurer in the All India Law Teachers Congress Association.
- Prof. C. S. Lalitha, Department of **Mathematics**, Indian National Science Academy (INSA) Teacher Award, December, 2016.
- Prof. J. S. Virdi, Department of **Microbiology**, the Invitrogen Science Hero 2016 Award, in the category Best Lab Mentor (University Level)
- Prof. P. C. Pattanaik, Department of **Modern Indian Languages and Literary Studies**, has been conferred with the title, REN (Scholar of Lepcha language and Culture) by the Mayel Lyang Lepcha Development Board, Government of West Bengal.
- Dr. K. Premanathan, Department of **Modern Indian Languages and Literary Studies**, Best Translation Award, by Thisaiyettum Magazine-Nalli Foundation, Chennai; and Best Translation Award, Nampikkai Virudukal by Anantha Vikatan Magazine, Chennai, 2016.
- Prof. Suneera Kasliwal, **Faculty of Music**, the Marwad Ratan Samaan-2015, Padamshree Komalji Kothari Samman by Mehrangarh Museum Trust, Marwad, Jodhpur in the year 2016.
- Prof. Anupam Mahajan, Department of **Music**, STRING and Steps Global Award of Excellence by STRING and Steps Organization, Delhi in March, 2017.
- Prof. Deepti Omchery Bhalla, Department of **Music**, *Nritya Kala Shikhamani* from Delhi Karnataka Sangeeta Sabha and Tirupati Tirumala Devasthanam, Tirupati on 25 March, 2017.
- Prof. Ojesh Pratap Singh, Department of **Music**, *Gaan Ratna Samman* by Sangeet Sabha, Pathankot for the year 2015-16 and *Sur Srijan Shikhar Samman* by Pandit Tilak Raj Sharma Trust, Delhi for the year 2016-17.
- Capt. Parminder Sehgal, NCC/NSS, Recognition Award for services in Matdata Mahotsav 2016.
- Prof. Chandra K. Jaggi, Department of **Operational Research**, IEOM Outstanding Service Award - In Recognition and Appreciation of Outstanding Support, Service, Contributions, and Global Community Engagement in Industrial Engineering and Operations Management Profession, awarded by Industrial Engineering and Operations Management Society, Detroit, USA., 23-25 September, 2016.
- Dr. Pragati Sahni, Department of **Philosophy**, ICCR Visiting Professor at Carleton University, Ottawa, Canada, for one semester, from 5 January, 2016 to 30 April, 2016.
- Dr. Rakesh Gupta, Department of **Physical Education & Sports Sciences**, appointed as Director, Selection Committee by the Ministry of Youth Affairs & Sports, Government of India to select Indian Para Athletics Team to represent India in the Rio Paralympics Games held at Rio (Brazil) during September, 2016.
- Dr. Pardeep Kumar, Department of **Physical Education & Sports Sciences** won two Gold medals (Triple Jump & 100m hurdle) in Delhi State Master Athletics Championship, 2016.

- Prof. Avinash Khare, Department of **Physics and Astrophysics**, INSA Biren Roy Memorial Award Lecture 2016.
- Prof. A. K. Tyagi, Department of **Plant Molecular Biology**, JC Bose National Fellowship Award, DST, Government of India, 2007-2017; and appointed as President, Indian Society for Plant Physiology, New Delhi (2017-2018).
- Prof. Paramjit Khurana, Department of **Plant Molecular Biology**, appointed as Fellow, The World Academy of Sciences, Trieste, Italy, 2016; and Birbal Sahni Medal Award of the Indian Botanical Society for 2017.
- Prof. J. P. Khurana, Department of **Plant Molecular Biology**, Professor S.K. Sinha Memorial Lecture Award of the Indian Society of Plant Physiology for the year 2017.
- Prof. Indranil Dasgupta, Department of **Plant Molecular Biology**, J.C. Bose Fellowship by the Department of Science and Technology, Government of India on 26 December, 2016 for a period of five years.
- Prof. Girdhar K. Pandey, Department of **Plant Molecular Biology**, Elected Fellow of National Academy of Sciences, India, Allahabad in 2016.
- Dr. Ranjan Kr. Tripathi, Department of **Sanskrit**, Yuva-Pratibha Vidvat Alankaran Award by Akhil Bhartiya Vidvat Parishad, Varanasi, 2016; and Vikram-Kalidas Award, (M.P. Govt.) by Vikram University, Ujjain, 2016.
- Prof. Sanjai Bhatt, Department of **Social Work**, Professor V.K.R.V. Rao Memorial Life Time Achievement Award 2017 on 10 February, 2017 by the Indian Social Science Association.
- Prof. Rita Brara, Department of **Sociology**, Carson Fellow at the Rachel Center for the Study of Environment and Society at Munich, Germany for three months.
- Prof. Nandini Sundar, Department of **Sociology**, the Ester Boserup Prize of 2016.
- Prof. S. A. Karim, Department of **Urdu**, appointed as Director, National Council for Promotion of Urdu Language.
- Prof. Rup Lal, Department of **Zoology**, the Moselio Schaechter Distinguished Service Award - 2016 from American Society for Microbiology (ASM) for exemplary leadership and commitment towards the substantial furthering of the profession of Microbiology in Research, Education or Technology in the developing world.
- Prof. Rup Lal, Department of **Zoology**, Prof. B.N. Johri Award on Microbial Diversity (Biannual) by the Association of Microbiologists of India (AMI) for the year 2016; and Kuldeep Dhatwalia Excellence Award - 2017 from Chaman Seva Sansthan, Himachal Pradesh for exemplary work, achievements, commitment and contributions in the development of nation.
- Prof. M.M. Chaturvedi, Department of **Zoology**, Elected President of Indian Association of Teachers in Biological Sciences for the year 2016 onwards.
- Prof. Vinod Kumar, Department of **Zoology**, President Elect, Indian Society for Chronobiology; and Secretary, Indian Society for Chronobiology.

#### **AWARDS/FELLOWSHIPS IN MEDICAL SCIENCES**

- Dr. A. K. Saxena, Department of **Anaesthesiology (UCMS)**, awarded Membership of International Association for Study of Pain (IASP), Washington, USA by the President of IASP in September, 2016.
- Dr. A. K. Saxena, Department of **Anaesthesiology (UCMS)**, Certificate of Appreciation by ISA National for creating extensive public awareness about anaesthesia and pain management on World Anaesthesia Day, 16 October, 2016.
- Dr. Mahesh Verma, Director/Principal of **Maulana Azad Institute of Dental Sciences**, Aryabhata International Award 2015 during 3<sup>rd</sup> Healthcare Summit & Awards on 18 May, 2016 at Bengaluru.
- Dr. Vishwajeet Rohil, Department of **Biochemistry (UCMS)**, Scientist Of The Year Award - 2016 for his outstanding contribution and recognition in the field of Medical Biochemistry on the occasion of BIOMEDCON 2016.



- Dr. M. M. Singh, Department of **Community Medicine (MAMC)**, Best Public Health Expert in National Health Awards organized by Double Helical at Hotel Ashoka, New Delhi on 19 March, 2016.
- Dr. Suneela Garg Department of **Community Medicine (MAMC)**, Best Doctor, Achievement in Community Medicine in National Health Awards organized by Double Helical at Hotel Ashoka, New Delhi on 19 March, 2016.
- Dr. A.M. Khan, Department of **Community Medicine (UCMS)**, the Fellowship of Foundation for Advanced International Medical Education and Research at CMC, Ludhiana, FAIMER Regional Institute in February 2017.
- Dr. Mandira Varma Basil, Department of **Microbiology (VPCI)**, appointed Secretary: Indian Association of Mycoplasmologists.
- Dr. Anuradha Chowdhary, Department of **Microbiology (VPCI)**, Fellow (Elected) European Confederation of Medical Mycology, 2017.
- Dr. A. K. Jain, Department of **Orthopaedics (UCMS)**, Late Col. Sangham Singh Memorial Oration, National Academy of Medical Sciences for Outstanding contributions in Orthopaedics-2017, 25 March, 2017.
- Dr. A. K. Jain, Department of **Orthopaedics (UCMS)**, Late TP Shrivastava Varanasi Oration, UPORTHOCON 2017 Gorakhpur.
- Dr. Rehan Ul Haq, Department of **Orthopaedics (UCMS)**, Commonwealth Academic Fellowship tenable in United Kingdom, November, 2016 to May, 2017.
- Dr. V. P. Gupta, Department of **Ophthalmology (UCMS)**, Dr. P. K. Jain Memorial Oration 2017 awarded by Delhi Ophthalmological Society.
- Dr. H. C. Taneja, Department of **Otorhinolaryngology (UCMS)**, Elected as Secretary to Neuroequilibriometric Society of India.
- Dr. Satendra Singh, Department of **Physiology (UCMS)**, State Award by the Government of Delhi for exceptional achievement by a person with disability in the field of Social Work in 2016 on the eve of World Disability Day, 2 December, 2016; and Swachh Ability Award by Union Defence Secretary for rising above personal challenges and contributing to the society on the culmination of Swachh Ability Run organized by India's first Blade Runner, 4 December, 2016.
- Dr. Satendra Singh, Department of **Physiology (UCMS)**, Karamveer Chakra and REX Global Fellowship 2016, instituted in association by the United Nations and Confederation of the country's NGOs (iCongo) for working on social justice and action, 27 November, 2016.
- Dr. S. Srivastava, Department of **Psychiatry (UCMS)**, Fellow, Indian Psychiatric Society (IPS) North Zone, 2016.
- Dr. D. Mishra, Department of **Paediatrics (MAMC)** was conferred the Fellowship of Indian Academy of Paediatrics at the 54<sup>th</sup> Pedicon at Bangalore, January, 2017.
- Dr. P. Gupta, Department of **Paediatrics (UCMS)**, Pedicon Theme Oration, Indian Academy of Paediatrics, Raj Pedicon, Mount Abu, Rajasthan, 19 November, 2016.
- Dr. Rama Anand, Department of **Radiodiagnosis (LHMC)**, the Distinguished Service award from the Delhi branch of IRIA (Indian Radiological and Imaging Association)
- Dr. Rama Anand, Department of **Radiodiagnosis**, appointed as expert in the Assessment Board for Scientists, Govt. of India, Ministry of Defence in May, 2016 and Reviewer for JCDR and *Indian Journal of Radiology and Imaging (IJRI)*.
- Dr. A. K. Srivastava, Department of **Radiology (UCMS)**, President Appreciation Award of Delhi IRIA 2016-2017, 4 March, 2017.
- Dr. Harmeet Singh Rehan, Department of **Pharmacology**, Commonwealth fellowship tenable at the University of Durham, United Kingdom for a period of 6 months until July, 2016.
- Dr. P. N. Agarwal, Department of **Surgery (MAMC)**, honoured by Delhi Govt. for Meritorious Services in January 2016.

- Dr. Pawanindra Lal, Department of **Surgery (MAMC)**, Dr. S.K. Sen Memorial Oration 2016 – ASI (Delhi Chapter) – 12 November, 2016- Postgraduate training in surgery – challenges and solutions; and BMJ South Asia Award 2016 for Excellence in Medical Education- Runner up.
- Dr. Anubhav Vindal, **Department of Surgery (MAMC)**, Fellowship of the American College of Surgeons (FACS)

### SEMINARS/CONFERENCES/WORKSHOPS

(Selected list is provided below. Complete list is given under Departments/Centres)

- Department of **Adult, Continuing Education and Extension** organized two-day National Seminar on ‘Education Policy Strategies and Adult Education: A Comparative Analysis of Europe and India’ on 21 & 22 October, 2016.
- Department of **Anatomy (LHMC)** organized Workshop ‘Cadaveric Joint Preservation’ under aegis ISKSAA & Delhi Orthopedic Association on 20 November, 2016.
- Department of **Anthropology** organized Workshop on ‘Yoga and Nation Building: An Anthropological Perspective’ on 21 June, 2017.
- Department of **Anesthesiology (LHMC)** organized a Seminar on ‘N-M System LA Drugs, Nerve Blocks’ on August 2017.
- Department of **Arabic** organized a seven-day Workshop in collaboration with the King Abdullah bin Abdul Aziz International Centre Riyadh, K.S.A. on ‘Teaching Methods for Arabic Teachers’ from 1-7 April, 2017.
- Department of **Biochemistry** organized Symposium, UGC through SAP programme, ‘Advances in Disease Biology and Disease Management’ on 18 March, 2017.
- Department of **Biochemistry (UCMS)** organized ‘ICAAICON-2016’ – Golden Jubilee Conference at Vallabh Patel Chest Institute, University of Delhi, from 22-25 October, 2016.
- Department of **Biological Sciences and Engineering (NSIT)** organized one day seminar on ‘Reverse Innovation in Healthcare from Developing Nation to the Developed World’ Resource Person: Prof. Michael Friebe on 17 February, 2017.
- Department of **Botany** organized National Seminar on ‘Identifying and Avoiding Publishing in Predatory Journals: A Lesson for Researchers’ on 18 March, 2017.
- Department of **Business Economics** organized 43<sup>rd</sup> Annual Convention on ‘Building Golden India – Revamping and Unleashing The Potential’ at the S.P. Jain Centre, University of Delhi South Campus, on 1 October, 2016.
- **Centre for Science Education and Communication** organized National Skill Enhancement Programme for Women Entrepreneurs from 11-16 October 2016.
- Department of **Chemistry** organized an International Conference on ‘New Frontiers in Carbohydrate Chemistry and Biology’ from 14-16 November, 2016 (funding support by ONGC, ICMR, DRDO)
- Department of **Computer Science** organized a Faculty Development Programme in Algorithms 2016 on 13 July, 2016.
- Department of **Community Medicine (LHMC)** organized World Health Day Celebration of 2016.
- Department of **Community Medicine (MAMC)** organized a Workshop on ‘Field Testing of the WHO Ear and Hearing Survey Protocol in India’ on 10 & 11 November, 2016.
- Department of **Commerce** organized the 5<sup>th</sup> Annual International Commerce Conference on ‘Startup to Sustainability: Initiatives and Challenges’ on 4 & 5 November, 2016.
- **D.S. Kothari Centre for Science, Ethics and Education** organized a two day Conference on Values, Ethics and Education in collaboration with India International Centre, New Delhi on 19 & 20 January, 2017.

- Department of **East Asian Studies** organized International Conference on ‘A Poetic Dialogue: Lu Xun And Tagore’ in collaboration with J.N.U, Institute of Chinese Studies, Beijing Lu Xun Culture Foundation, Beijing and International Society for Lu Xun Studies, Seoul on 12 & 13 November, 2016.
- Department of **Economics** organized its 11<sup>th</sup> Annual Conference ‘Winter School 2016’ from 13-15 December, 2016.
- Department of **Education** organized National Conference on ‘Teacher Education: Current Scenarios & Future Possibilities’ on 10 & 11 October, 2017.
- Department of **English** organized a two-day International Conference in collaboration with Swami Shradhanand College on ‘History, Culture and Literature: Reading the Margins’ on 24 & 25 February, 2017.
- Department of **Geology** organized a National Conference on Geoscience Education: A ‘Uniformitarianism’ Perspective on 27 January, 2017.
- Department of **Germanic and Romance Studies** organized Annual International Conference on ‘New Experiments in Contemporary Literature’ from 2-4 March, 2017.
- Department of **Hindi** organized two-day National Conference on ‘Sanskritik Rashtrawad Aur Hindi’; Directorate of Central Hindi, MHRD, Government of India on 4 February, 2017.
- Department of **Financial Studies** conducted its XXIX Annual Convention on the theme: Thrusts and Challenges in the Indian Financial Sector – The Way Forward on October 15, 2016.
- Department of **Germanic & Romance Studies** organized an Annual International Seminar ‘New Experiments in Contemporary Literature’ from 2-4 March, 2017.
- **Law Centre-I** organized two-day Seminar on ‘Women Related Laws’ funded by NCW on 16 & 17 September, 2016.
- **Law Centre-II** organized Seminar on 125<sup>th</sup> Birth Anniversary of Dr. B.R. Ambedkar on 14 April, 2016.
- Faculty of **Law** organized a three-day International Conference on ‘Socio-Economic Justice after Seventy Years of India Independence: Domestic and Global Challenges’ from 18-20 November, 2017.
- Department of **Linguistic** organized two day International Seminar on ‘Linguistics and Teaching of Hindi and other Indian Languages as Foreign Language’ from 27-28 February, 2017.
- **Maulana Azad Institute of Dental Sciences (MAMC)** organized an International Conference on ‘Tobacco Cessation – An Australian Experience’ from 13 September, 2016.
- Department of **Mathematics** organized a National Conference on ‘Algebra, Analysis, Coding and Cryptography’ in honour of Prof. Bal Kishan Dass on the occasion of his retirement, at the Department of Mathematics, University of Delhi on 14-15 October, 2016.
- Department of **Microbiology (LHMC)** organized AMR Awareness Programme and Symposium held during World Antibiotic Awareness Week on 14-20 November, 2016 under the aegis of WHO, NCDC & LHMC.
- Department of **Microbiology (UCMS)** organized International Seminar ‘Antibiotic Resistance, Renewed fears’ jointly organized by UCMS & AIIMS, New Delhi on 10 September, 2016.
- Department of **Modern Indian Languages and Literary Studies** organized a National Seminar ‘Literary Relations: India and the World’ on 9-10 March, 2017.
- Department of **Music** organized two-day concert Malhar Utsav on 30-31 August, 2016. Dr. Vidushi Kapila Vatsyayan, the chief guest for the occasion gifted two rare musical instruments that were played upon by her mother during the yesteryears.
- Department of **Obstetrics & Gynaecology (MAMC)** organized ‘Infertility and Assisted Reproduction’ Conference on 5 February, 2017.
- Department of **Obstetrics & Gynaecology** organized ‘Advanced Gynaecology’ Video Workshop at Hotel Ashok, Delhi under aegis of AOGD on 11 November, 2016.
- Department of **Operational Research** organized Workshop ‘Data Science and Big Data Analysis’ on 24 February, 2017.

- Department of **Orthopaedics (MAMC)** organized ‘XVII Post Graduate Instructional Course in Orthopaedics’ from 1-4 February, 2017.
- Department of **Ophthalmology (LHMC)** organized one day Orientation Training Programme on ‘Eye Donation’ held at LHMC with help of MOHFW on 2 September, 2016.
- Department of **Pathology (LHMC)** organized Workshop on ‘Gynecologic Cytology’ under the aegis of Delhi Chapter of Indian Academy of Cytopathologists on 4 February, 2017.
- Department of **Pathology (MAMC)** organized a quarterly meeting of Delhi Chapter of Indian Academy of Pathology and Microbiology in August, 2016.
- Department of **Pharmacology (MAMC)** organized Pharmacovigilance for patient safety for doctors and nurses working in Maulana Azad Medical College & Associated Hospitals on 18 February, 2016.
- Department of **Philosophy** organized ‘Re-learning to be Human: Justice and Responsibility during Global Times’ on 9-10 January 2017 in collaboration with Centre for Research in Values and Philosophy and Washington DC, Ramanujan College, New Delhi with the sponsorship of ICPR, New Delhi.
- Department of **Physical Education & Sports Science** organized Seminar on ‘Effective Uses of Goal Setting for Motivating Performance’ by Prof. Verlin B. Hinsz, Department of Psychology, North Dakota State University, Fargo, North Dakota, USA.
- Department of **Physical Medicine and Rehabilitation (LHMC)** organized ‘Autism Awareness Parent Orientation Workshop’ in collaboration with Department of Paediatrics on 2 April, 2016.
- Department of **Physics and Astrophysics** organized International Conference on ‘Technologically Advanced Materials’ & Asian Meeting on Ferroelectricity (ICTAM-AMF10), University of Delhi, Delhi from 7-11 November, 2016
- Department of **Plant Molecular Biology** organized the National Academy of Sciences, India (NASI), NASI Award Lectures on 25 November, 2016 at Biotech Building, UDSC, New Delhi.
- Department of **Political Science** organized a National Workshop on ‘Continuity and Change in Indian Federalism’ as part of Leverhume Project on 5 & 6 December, 2016.
- Department of **Psychology** organized two-day National Seminar on ‘Emerging Forms of Vulnerabilities; Dialogues, Discourses and Debates’ on 9 & 10 March, 2017
- Department of **Punjabi** in collaboration with Sahitya Akademi, Delhi organized a two-day National Seminar on ‘Muti-culturism, Identity Crises and Punjabi Literature’ on 22 & 23 September, 2016.
- Department of **Sanskrit** organized National Seminar on ‘The learning of Sanskrit Sastras in the Present University System’ on 11 & 12 March, 2016 in the South Delhi Campus.
- Department of **Slavonic and Finno-Ugrian Studies** organized two-day International Conference ‘Translation: Art, Craft and Cross- Cultural Praxis’ on 25 & 26 October 2016. The Conference brought together academicians, translators and research scholars from the Slavonic countries, Hungary, India and Bangladesh.
- Department of **Social Work** organized Gender Sensitization Training Workshops in police stations and colleges in collaboration with Special Police Unit for Women and Children (SPUWC) and AHAD Society for Welfare and Development.
- Department of **Sociology** organized a Workshop on ‘Event and Every day: Empiricisms and Epistemologies’ on 23 & 24 March, 2017.
- Department of **Statistics** organized Seminar on ‘Role of Statistics in IT Sector’ by Mr. Omkar Rai, Director General, STPI on 10 February, 2017.
- Department of **Surgery (MAMC)** organized Surgery Update from 26 September - 1 October, 2016.
- Department of **Zoology** organized Indo-US Workshop and International Symposium on ‘Biological Timing and Health Issues in the 21<sup>st</sup> Century’ from 21-24 February, 2017.

## UNIVERSITY LECTURE SERIES

### **Ambassadorial Lecture Series**

With the objective of strengthening ties with the rest of the world and enhancing transnational exchange of ideas and intellectual resources in a mutually beneficial way, the University of Delhi in association with the Ministry of External Affairs (Policy Planning & Research Division), has launched an *Ambassadorial Lecture Series*. The Series is a step towards creating an innovative learning environment at the University of Delhi.

In furtherance to the 'Neighborhood Policy' of Govt. of India, the first Ambassadorial Session was held on March 31, 2017 on India-Nepal Relationship. The eminent speakers at the session were H.E. Mr. Deep Kumar Upadhyay, Ambassador, Nepal and Mr. Shiv Shankar Mukherjee (Ambassador of India to Nepal, 2004-2008). A galaxy of Ambassadors and External Affairs experts participated in the discussions including Mr. Jayant Prasad, Director General-IDS; Professor S. D. Muni, Professor Emeritus JNU and Mr. D. P. Tripathi, M.P. (Rajya Sabha). The growing India-Nepal relationship was evident by a cultural extravaganza organized by students of Nepal at the University and a Nepali Food Festival on the occasion.

### **Percipience - Eminent Alumni Lecture Series**

The University of Delhi launched *Percipience* – Eminent Alumni Lecture Series so as to strengthen the continuing bond between the parent University of Delhi and its huge universal diaspora alumni. This lecture series is expected to enlarge and enrich the University's meaningful relationship with the alumni.

The first in this series was an interactive session on March 1, 2017 with Padma Vibhushan Dr. Kapila Vatsyayan, who graduated from Hindu College in 1946 and completed Masters from English Department in 1948. Dr. Vatsyayan is a leading scholar of classical Indian Dance, Indian Art and culture and an art historian. She has authored nearly 20 books and 200 research papers. She has been the recipient of several awards and recognitions internationally and nationally including Padma Shri and Padma Vibhushan.

### **Martyrs' Day**

The University of Delhi organized a programme to pay homage to Shaheed Bhagat Singh, Sukhdev Thapar and Shivaram Rajguru on Martyrs' Day in the Council Hall of the Viceregal Lodge on March 23, 2017. The University showcased historical heritage associated with the University of Delhi campus. About 250 school students were introduced to the lives of great martyrs exemplified by the role of Shaheed Bhagat Singh and his associates through singing of patriotic and devotional songs, screening of a documentary on the life of Shaheed Bhagat Singh and reading from his Jail Diary.

## INCUBATION CENTRES AT THE UNIVERSITY

### **A. Electropreneur Park**

Electropreneur Park has been setup under the aegis of the Ministry of Electronics and Information Technology, Software Technology Park of India (STPI) and India Electronics and Semiconductor Association (IESA) to support start-ups in electronic system design and manufacturing (ESDM). The main objectives of the Park include creation of holistic eco-system for encouraging R&D, innovation, entrepreneurship in the ESDM sector in India, enabling creation of Intellectual Property, provide assistance during prototyping, development and commercialization for the products produced through the scheme for India and other growth markets, creation of employment at various levels, creation of long-term partnership with strategic sectors. Achievements by the startups at the Electropreneur Park include:

- 9 IP Patents Filed
- 7 Product Launches
- 4 Funded startups
- 6 Crore Revenue Generated

Startups under incubation & pre-incubation at Electropreneur Park are:

- Starbru Techsystems Pvt. Ltd. – Designed Tactical android wireless data card (TAWDC) for Indian Army radio sets for sending images.
- Stemrobo Technologies Pvt. Ltd. – Laid out multiple electronic development and learning kits to be used in schools and institutes for skill development in ESDM sector.
- Fitnano Technologies Pvt. Ltd. – Developed a range of safety IOT wearable & icard cum solution models for children, elderly, women and pets.
- Univlabs Technologies Pvt. Ltd.– Has built a range of medical equipment and accessories for Endoscopy and Laproscopy.
- Doorastha Analytics Pvt. Ltd. – Has put together a unique solution to monitor energy usage in a distributed grid and control the power delivery to the end user
- EVI Technologies Pvt. Ltd. – Indigenously developed DC based fast charging solutions and charging stations for electric vehicles.
- AJ Simply Purify Technologies Pvt. Ltd. – Providing affordable and innovative solutions for air pollution control and monitoring at home & commercial establishments.
- IOTomation Ecotech Pvt Ltd. – Developing IOT based distributed asset automation solutions for smart living
- Ceantra Technologies Pvt. Ltd. – Connected Vehicle Platform that enables Monitoring of Vehicle Health, Better Road Safety and Data driven Online Driver Marketplace.
- Resonant Electronics Pvt. Ltd. – IOT based, Wireless, Retro-fit, Energy Audit & Control System. Offering Customizable Central Load Control and Advanced Analytic Dashboards for Energy Optimization.
- GlenElek – Developing cost effective, light-weight Bamboo based exoskeletons for differently-abled.
- VT Labs – Developing high efficiency power converters for higher wattages for Industrial and commercial applications.

## **B. Technology Business Incubator**

The Ministry of Micro, Small Medium Enterprise (MSME) supported Technology Business Incubator at Cluster Innovation Centre, University of Delhi (DUCIC TBI) under the scheme ‘Support for Entrepreneurial and Managerial Development of SMEs through Incubators’ has been set up with the main objective of promoting emerging technological and knowledge based innovative ventures that seek the nurturing of ideas from professionals beyond the traditional activities of enterprises. The following are the details of ideas approved by MSME:

- Mathematical Games – Novel and unique board games that make mathematics learning interactive and much more interesting, registered Company. Product in the market. Negotiating investment. URL: [maginitiative.in](http://maginitiative.in)
- Ed Rob – Manufacture Robotics modules for schools and colleges that incorporate learning linked to the curriculum, registered Company. Product in the market. URL: [Imfundo.io](http://Imfundo.io)
- Sign My Tour – Designing an interactive application of historical monuments for hearing impaired people through Indian Sign Language, Product developed and tested by the name “signmytour”. URL: Available on Play Store.
- Pix Vera – Content based image retrieval based trademarks (logo) search, Product developed and tested.

- IdeasMarkt – Commercial exploitation of student innovations that is lost in the system, Portal launched. Registered company. URL: ideasmarkt.com
- Survaider – SaaS platform for business recommendations and analytics from survey, successful venture with many clients. Obtained an accelerator funding of Rs.25lakhs from Axilor ventures. In advanced negotiation stage for pre-series investment. URL; survaider.com
- Apparel Media – Virtually coded information printed on apparels as QR codes, holographic printing, virtual augmented media with a purpose of communication, creative marketing, shopping, business, research etc., Products developed
- Tnine Infotech – Web technology. Apps, Registered partnership firm that has launched many mobile apps. Crumbly is the top apps in the world in lifehacks category. URL: tnine.io
- Lithics – e-commerce, registered Company that provides market to NGOs operating in arts and crafts. URL: lithics.in

### **C. Centre for Entrepreneurship and Career Oriented Programs (CECOP)**

The Centre has been set up to address Career oriented programmes to impart skill training to both teachers and students from various institutions of the University of Delhi.

### **D. Innovation & Entrepreneurship Development Centre (IEDC)**

In order to promote and encourage young entrepreneurs Acharya Narendra Dev College has an Innovation & Entrepreneurship Development Centre (IEDC) that is sponsored by Department of Science & Technology, Govt. of India to develop an entrepreneurial culture among the academic institutions.

### **E. Incubator in collaboration with Ministry of MSME**

With a vision to ignite a spirit of entrepreneurship and a passion for leadership and progressive business ideas among students, Atma Ram Sanatan Dharma College (ARSD), University of Delhi also established a Centre for Innovation and Entrepreneurial Leadership (CIEL), Technology Business Incubator (TBI), supported by the Ministry of Micro, Small and Medium Enterprise (MSME), Government of India.

## **ACADEMIA-INDUSTRY LINKAGES**

The University's statutory provisions promote engagement of eminent persons from various fields such as industry, trade, business, journalism, music, literature, visual and performance art with the University. To promote academic industry linkages, the University is actively engaged in the following ways:

- The Faculties of Management Studies, Social Sciences, Inter-Disciplinary & Applied Sciences, Commerce, Applied Social Sciences and Humanities, Medical Sciences, Technology, Cluster Innovation Centre, Institute of Informatics and Communication have established an active interface with industry partners.
- Several faculty members of the University offer Consultancy Services to industry, ministries and Governmental organizations based on expertise in their fields like UNESCO/SNA/CD; SCHLUMBERGER OIL; Ministry of Water Resources; Hindustan Zinc Ltd (HZL); TPDDL; M/s SPAN Diagnostics Limited Surat (M/s Arkray Health Care Pvt Ltd. Surat); M/s Yashraj Biotechnology Ltd., Mumbai (YBL); DRDO; NHPC Limited; NADP (Department of Business Management and Industrial Administration); GAIL (India) Limited; IRCTC; Britannia Limited; ICSSR; SEWA-THDC; CBM; Department of Women and Child Development; Indo Global Social Service Society (IGSSS); Oxfam India; Dugar Hydro Power Limited; AVA; RS Environlink Pvt. Ltd.

## **MEMORANDA OF UNDERSTANDING WITH FOREIGN UNIVERSITIES**

To enrich its academic inputs and experiences, the University of Delhi has maintained its tradition of entering into academic collaboration with premier institutions. In its endeavour, the University has signed up for academic and research collaborations with many institutions globally. In the reporting period, MoUs and Agreements include:

- University of Tokyo, Japan
- University of Potsdam, Germany
- University of Leiden, Netherlands
- Great Zimbabwe University

## **EQUAL OPPORTUNITY CELL**

During the period under report, the Equal Opportunity Cell of the University continuously endeavoured to provide multiple support systems to Persons with Disabilities. This includes providing volunteer support services, access to a high-tech computer lab, reading material in accessible format, limited transport facility etc.

The EOC has also taken steps to implement the provisions of the Rights of Persons with Disabilities Act, 2016, particularly in admissions. Running of Short Term Courses and conversion of materials in e-text format have been some of its other activities.

In addition, the EOC organized an International visit to the National Autonomous University of Mexico (UNAM) in January, 2017 under the collaborative Programme with King's College, London, called 'The Dialogue on Disability' Programme. It was a significant learning experience for students with disabilities of this University. In addition, the EOC, by collaborating with the National Institute for the Visually Handicapped, Ministry of Social Justice and Empowerment, Government of India, distributed Smart Phones and Smart Canes to nearly 150 visually impaired students of the University.

## **PLACEMENT ACTIVITIES**

The University has a Central Placement Cell to arrange employment opportunities for the students pursuing under-graduate, post-graduate and Ph.D. studies in all the constituent colleges and departments at university levels. The total number of students registered exceeded 16,000 including internship registration. This year a total of 35 companies were short listed to carry out On-Campus Selection Drives at North and South Campus. More than 1,500 students were shortlisted with job offers from different companies and 1,100 students got employment in various public and private sectors with handsome salary packages. Along with the regular CPC activities, this year under Capacity Enhancement Programme, an interaction with experts from different fields was arranged to provide specialized career guidance to the 1<sup>st</sup> and 2<sup>nd</sup> year students.

The Central Placement Cell acts on the advice of the Placement Cell Advisory Committee under Dean Student's Welfare, comprising of Deputy Deans Student's Welfare, consultant and placement coordinators from all the colleges and departments. The advisory committee monitors and guides the functioning of the Placement Cell. Different Capacity Enhancement Programmes were organized for students to develop their leadership skills.

Several departments have their own placement cells for career guidance and recruitment of students. Some of the departments have a high placement rate, which includes the Department of Biochemistry, Business Economics, Commerce, East Asian Studies, Economics, Social Work, Statistics and Faculty of Management Studies.

## **SKILL ENHANCEMENT INITIATIVES**

The University has implemented the Choice Based Credit System (CBCS) for the undergraduate programmes from the session 2015-16. Skill Enhancement Courses in B.Sc.(Hons.)/B.A./ B.Sc. Programme were



included where these value-based and/or skill-based courses are aimed to provide hands-on-training, competencies, skills, etc. The University is actively involved in creating skilled manpower for industry requirements at various levels under the scheme Deen Dayal Upadhyay Centres for ‘Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood (KAUSHAL).’ The University signed an MoU with the National Skill Development Corporation (NSDC) for the introduction of skill-based courses for its students. The University also offers Bachelors programme in vocational courses in four of its colleges (College of Vocational Studies, Jesus and Mary College, Ramanujan College and Kalindi College) to promote higher-order skill development and augment employability in areas such as Tourism Management, Office Management and Secretarial Practice Management, Marketing of Insurance, Human Resource Management and more.

## **SOCIAL OUTREACH**

The University is dedicated to serving individuals, society and the nation through its outreach and community engagement activities as an attempt to contribute to national development. Departments organize cultural events/plays etc. which focus on social issues such as women empowerment. In order to build strong linkages with the community, the University has also adopted the Community College Scheme of the UGC. Under this scheme, neighborhood colleges are designated as Community Colleges with the aim to offer low cost and high quality education locally, that encompasses both skills development as well as traditional coursework, thereby providing opportunities to the learners to move directly to the employment sector or move into higher education.

The University has set up a Community Development Cell. Under this Cell, five villages – Jagatpur, Jharoda Majara, Mukundpur, Badarpur Khadar and Bakiabad have been adopted. Specific accomplishments in these villages include community based initiatives for an augmentation in the basic infrastructure related to transport, water, sanitation and work towards addressing the problems relating to sanitation and waste management; creation of sustainable health services through the establishment of Mohalla Clinics and mobile van as also organization of regular health camps that showed excellent participation in cleaning of streets and drains, and spraying and fogging in collaboration with the MCD and dissemination of information with regard to prevention of dengue through the conduction of rallies, interactive sessions and distribution of pamphlets. Installation of dustbins, segregation of degradable and non-degradable waste, regular sweeping and cleaning of the drains in the villages has been undertaken. Community residents have been encouraged to access the governmental schemes available for diverse sections of society. A students’ team also worked towards helping the farmers of a village to improve their agricultural productivity by facilitating soil testing and issuing of soil health cards.

Unnat Bharat Abhiyan is another initiative that is working towards comprehensive rural community development through creation/strengthening of community based groups like women’s groups, self-help groups, youth groups, cooperatives etc. and promoting awareness generation on relevant themes/subjects like hygiene and sanitation, health, nutrition, women's safety, gender equality, women’s empowerment, micro credit and RTI among others.

## **QUALITY INITIATIVES**

The University has initiated several quality initiatives for improving the quality of teaching and learning at the University. As a part of Internal Quality Assurance Cell of University of Delhi, Quality Improvement events have been organised on a regular basis by each Department/Centre for Quality Enhancement in the following areas:

1. Teaching and Learning
2. Ethics
3. Research
4. E-resources/Online Databases
5. Social Outreach

## **Students' Experience Survey**

The University has started taking classified feedback from the post graduate students through an innovative Students' Experience Survey. This captures the complete academic experience of the students and provides suggestive inputs to the departments to continually strive for higher performance in all domains. In a recent survey, the average rating for all responses (across all Departments/Centres) for 'Overall Academic Experience' is much above average, i.e. between Good and Very Good. In a recent survey, across all respondents, 90% of the students acknowledged that they would recommend the University to others.

## **Benchmarking Exercise**

The Benchmarking Exercise of the University is also a unique attempt of the University to create a viable means of self-assessment by the departments on all criteria that are contemporarily relevant for an institution of higher learning against global benchmarks and standards. The exercise has an inbuilt mechanism for self-correction. The Benchmarking Exercise has helped in devising Quality Benchmarks as Assessment Criteria of quality initiatives by each Department in the following ways:

- To identify the gaps between the current parameters of the departments compared against the best performers.
- To identify standards and performances and providing a road map for continuous quality improvement.
- To improve processes that are critical to the growth of the University.
- To establish goals and identify additional avenues for improvement. The exercise will also create a better understanding of global practices.
- To promote quantum leaps in performance, fostering excellence and breakthrough thinking and innovation.
- To identify more effective ways of improving performance.

## **IPR CELL AND PATENT FUND**

The Intellectual Property Rights Cell of the University operates from the Research Council. It was created to increase awareness and facilitate patent filing, maintenance and technology transfer. The guidelines for patent filing and collaborative research have been framed and a patent fund has been set up for the University faculty. The University also has an IPR Chair instituted by MHRD that is functioning at the University for the past three years and has held various training programmes and conferences to promote the concept of IPR. The University is in the process of framing guidelines for Technology Transfer by the University faculty. A total of 204 patents have been filed so far.

## **SPECIAL ASSISTANCE FOR STUDENTS FROM WEAKER SECTIONS OF SOCIETY**

The University has launched a programme of 'free classes' for the entrance examinations to various postgraduate programmes for the underprivileged students. A Pre-Entrance Summer School – 2016 was held in May and June, 2016, wherein free classes were held for PG entrance examinations in the disciplines of Commerce, Law and Biomedical Science. The University has also initiated a crash course for UGC-CSIR JRF/NET examination held in December, 2016 (for Life Science and Chemical Sciences) and in January, 2017 (for Law, Commerce) for the economically weaker sections of society. The courses are being taught by qualified and experienced faculty of the University.

## SPORTS DISTINCTIONS

### Sports Distinctions

Three students of University of Delhi, Ms. Apurvi Chandela (Shooting), Ms. Manika Batra (Table Tennis) and Mr. Lalit Mathur (Athletics) represented the Country at Rio Olympics 2016.

Ten sportspersons from the University of Delhi were part of the contingent of Indian Universities Team for the 6th World University Shooting Sport Championship 2016 at Bydgoszcz (Poland) in September, 2016:

Mr. Ishan Goel  
Ms. Dilreen Gill  
Ms. Aditi Singh  
Mr. Rahul Khatri  
Ms. Sanjana Sehwari  
Mr. Yuvraj Kumar Mahajan  
Mr. Arjun Mann  
Ms. Mahima Kumar Mahajan  
Ms. Sajneet Kaur Rehal  
Ms. Sarveshwari Kumari

The five medalists are:

Ms. Dilreen Gill won Gold Medal in 10 Mtrs. Air Rifle Team (Women)  
Ms. Sajneet Kaur Rehal and Ms. Mahima Kumar Mahajan won Silver Medal in Trap Team (Women)  
Ms. Sarveshwari Kumari won Bronze Medal in Skeet Team (Women)  
Mr. Yuvraj Kumar Mahajan won Bronze Medal in Trap Team (Men)

Seventy Five players brought laurels to University of Delhi in Zone and All India Inter-University Tournament (M&W) as Gold Medal/s in Badminton (W), Chess (M), Chess (W), Cricket (M), Diving (W), Judo (W), Shooting (M & W), Squash Racket (M), Swimming (W) Table Tennis (M&W), Taekwondo (M), Tennis (W).

One Hundred Twenty Six players won Silver Medal/s in North Zone and All India Inter-University Tournament in Archery (W), Athletic (M), Badminton (W), Baseball (M), Boxing (W), Cricket (M), Diving (W), Football (W), Gatka (M), Gymnastics (M), Judo (W), Shooting (M & W), Table Tennis (W), Wt. Lifting (W), Power Lifting (W), Wrestling (M), Yoga (W).

One Hundred Fifteen players won Bronze Medal/s in North Zone and All India Inter-University Tournament in Athletic (W), Baseball (W), Basketball (M), Boxing (M), Cricket (W), Chess (W), Korfbal (Mixed), Gatka (W), Gymnastics (W), Shooting (M & W), Squash Racket (M), Swimming (M&W), Tennis (M), Wrestling (M). (Annexure-II)

Team Championship in All India Inter University Tournament 2016-17:

University of Delhi Shooting (M&W) Team won Silver Medal in Overall Championship Shooting (Men & Women) in All India Inter University Shooting (M&W) Championship 2016-17.

University of Delhi Gymnastic (W) Team won Bronze Medal in Gymnastic Rhythmic and Gymnastic (M) Team won Bronze Medal in Gymnastic Artistic in All India Inter University Gymnastic (W) Championship 2016-17.

University of Delhi Archery (M) Team won Gold Medal in Archery Compound and Archery (W) Team won Silver Medal in Archery Recurve in All India Inter University Archery (M & W) Championship 2016-17.

University of Delhi Gatka (W) Team won Gold Medal in Single Stick Event and Gatka (M) Team won Bronze Medal in Single Stick Event in All India Inter University Gatka (M & W) Championship 2016-17.

## INFRASTRUCTURE

### North Campus

Completed Construction work:

- Construction of vertical extension of Zoology Department.

### North Campus

Work in progress:

- Construction of Arts & Social Science building (Umang Bhawan).
- Construction of New building for Chemistry Department.
- Renovation of Multistorey Block, Physics and Chemistry Departments.

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## GENERAL FACILITIES AND PROGRAMMES

### STUDENT WELFARE OFFICE

#### Major Activities

The Student's Welfare Office has engaged in the following activities during the academic year 2016-17:

#### Counseling

**Open Days:** Ten Open days were conducted in North Campus (Conference Centre). Open days are organized to guide students in the process of admission. Altogether, more than 30,000 admission aspirants and their parents attended. The aspiring candidates and their parents showed a high degree of enthusiasm on these open days.

**Help Desk:** Student Help Desk for undergraduate admissions was set up at the Dean Students Welfare Office, Conference Centre. This step was initiated to eliminate undesirable elements from disseminating wrong/inadequate information to the aspiring candidates. These Help Desks were in operation for more than a month at the Conference Centre.

#### Admission Activities

**Undergraduate Admission Co-ordination:** The Dean Student Welfare office, along with OSD Admissions office, was involved in the preparation of the University Information Bulletin for Admission to all categories (Gen/OBC/SC/ST/PwD) and data analysis. Students of all categories Gen/SC/ST/OBC were allowed to register online. The PwD Candidates were provided separate additional facilities related to their admissions. The information bulletin was available online and could be downloaded free of charge from the University website for all categories of candidates.

In order to address the grievances of the candidates belonging to SC/ST/OBC and PwD category, relating to admissions, a committee was set up with Dean Students' Welfare as chairperson and Dr. Gurpreet Singh Tuteja, Deputy Dean, Student's Welfare as Convenor. Dr. Amrita Bajaj, Deputy Dean, Student's Welfare, was Convenor of the Hostels Committee and handled the issues related to hostels. She also handled the ECA admissions as a Core Committee member and Coordinator for dance activities. Dr. Tuteja was also a member of the Payment Gateway Committee of Admissions which developed the modalities for smooth payments and their refunds during admissions.

#### Central Placement Cell Activities

The University has a Central Placement Cell to arrange employment opportunities for the students pursuing Undergraduate, post-graduate and Ph.D studies in all the constituent colleges and departments at university levels. The academic year 2016-17 was the ninth year after the inception in the year 2008. The total number of students registered exceeded 16,000 including internship registration. This year a total of 35 companies were short listed to carry out On-Campus Selection Drives at North & South Campus. More than 1,500 students were shortlisted with job offers from different companies and 1,100 students were finally employed in various public and private sectors with handsome salary packages. This year showed a significant change as some corporates also showed interest in offering jobs to Post-Graduate & Ph.D candidates. Along with the regular CPC activities, this year under Capacity Enhancement Programme, experts from different fields were invited to interact with the 1<sup>st</sup> and 2<sup>nd</sup> year students for providing them specialized career guidance. These workshops helped our students to interact with professionals to enhance their basic skills, viz CV writing, facing interviews, self-assessment and self-employment.

**Internship Programmes:** Students from 1<sup>st</sup> and 2<sup>nd</sup> year from different colleges were sent to various companies as interns to gain hands-on experience with companies. Different companies were invited to register with CPC for offering internships. This year an internship fair was organized and around 600 students attended the fair. Around 200 students were shortlisted. HT Studymate, Classroom teachers, Net Connect global, Billionables, IDBI Federal Life Insurance were the prominent companies that offered internships.

**Placements:** This year, a sizable number of students got job offers from companies like Vigour Mobile India Pvt. Ltd, Amazon, Hitachi, Genpact, Navig8, Forex etc. Annual packages up to 6.00 Lakhs were offered to CPC registered students this year. Leading organizations of international and national repute have partnered with University of Delhi for recruitment through Central Placement Cell. Central Placement Cell builds liaison with business leaders and senior managers in reputed companies.

The Central Placement Cell acts on the advice of the Placement Cell Advisory Committee under Dean Student's Welfare, comprising of Deputy Deans Student's Welfare, consultant and placement coordinators from all the colleges and departments. The Advisory Committee monitors and guides the functioning of the Placement Cell. Different Capacity Enhancement Programmes were also organized for students to develop their leadership skills.

**Companies Registered with CPC for Placement/Internship Drive during the year 2016-17:**

Daiwa Kasei India Pvt. Ltd.  
Sambodhi Research & Communications Pvt. Ltd.  
M/s FRR Forex Pvt. Ltd.  
Vivo Mobile India Private Ltd.  
Fitkids Education & Training Pvt. Ltd.  
Teacher Sity  
M/s Navig8 India Pvt. Ltd.  
M/s Inter Globe Aviation Limited  
Net Connect Pvt. Ltd.  
Vani Prakashan  
Step By Step School  
M/s Amazon Development Centre (India) Pvt. Ltd.  
Azim Premji Foundation  
Future Domain Services Pvt. Ltd.  
M/s British Telecom Services (P) Ltd.  
Pride Plaza Groups of Hotel  
TechGinee  
Federation of Indian Women Entrepreneurs  
Experts Global  
P.P.International School  
Endeavor Careers Pvt. Ltd.  
M/s MBD Group  
Hitachi Systems Micro Clinic Private Limited

**Cultural Council**

The Cultural Council organised following programmes to encourage and promote young talent:

Songs of India – Inter College Choir Competition held on 7 Oct., 2016 at Bhaskaracharya College of Applied Sciences.

Inter College Essay Writing Competition was held on 28 Oct., 2016 at Hansraj College.

Supported Vasant Utsav programme of Faculty of Music and Fine Arts, 1 Feb., 2017.

Distinguished Hindustani classical singer, Ashwini Bhide performed Hindustani Light Classical Music, on 3 Feb., 2017 at Shankar Lal Hall.

Inter College Turncoat Debate held on 1st and 2nd March, 2017 at Bharati College.

Deputy Dean has been facilitating the ECA meetings for admission process of under-graduate Courses, session 2017-18.

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## DELHI UNIVERSITY COMMUNITY RADIO

### A Brief about Recent Important Activities

Successful development of permanent audio link between Indraprastha College for women and DUCR for Live Broadcast.

Likewise Audio Link has also been established between DUCR and Miranda House, Hansraj College, Ramanujan College. Few more colleges are also interested in establishing the link.

Volunteers of DUCR recorded a programme, Jashn-e-Azadi on the occasion of Independence Day for a duration of 2 hrs.

Students of DCAC College recorded and broadcast a special programme paying tribute to teachers on Teachers Day. Election Commission requested DUCR to broadcast awareness jingle regarding Voters List. The jingle was played twice daily for about a fortnight.

Maulana Azad Medical College requested for broadcast message of ill-effects of Tobacco. Two messages were recorded by our volunteers and broadcast twice daily during the period of 'No Tobacco Day' Campaign.

Students of CIC started a series of radio discussions on GST. First episode was successfully recorded and broadcast from DUCR.

Students and Volunteers of Dept. of Urdu are continuing to make the programme for Bazm-e-Urdu. Nearly 16 episodes have been recorded and broadcast.

DUCR produced eight episodes for Ministry of Skill Development to create awareness amongst local community through Community Radio and has promoted the training programmes of furniture development & mechanical skills.

Broadcast Engineering Society India invited DUCR to participate in BES EXPO 2017 by deputing volunteers.

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## DELHI UNIVERSITY LIBRARY SYSTEM

### Major Activities, Events and Initiatives

Delhi University Library System has taken several measures to revamp the library and information services provided through its 34 constituent libraries, in keeping with the newly revised Ordinance XVI. A brief listing is given below.

**Print Resources:** The Library System added 21,262 volumes of books to its collection by purchasing out of maintenance grant as well as XIIth Plan Grant. The total collection as on March 31, 2017 is 16,53,277 volumes including bond volumes of periodicals. The current Periodicals Subscribed by DULS are 1,217.

**Electronic Resources:** The DULS continued to strengthen the accessibility of electronic resources to the users. There are 48 electronic databases in different subjects and disciplines that are available to the user community of the University. These are:

- ABI/INFORM Complete
- Academic Search Premier
- American Geophysical Union Journal
- American Phytopathological Society
- American Society for Micro-biologist
- Anthrosource
- Britanica Online
- Business Source Premier
- Capitalism, Nature, Socialism
- Capitalline Plus
- CLA Plus
- Credo (Formerly Xreferplus)

- Economic Literature
- e-Jurix
- Emerald Management Extra
- Encyclopedia of Cyber Crime
- Encyclopedia of Law Enforcement
- Eikon
- Economic and Political Weekly: India Time Series
- Georef with Geo Science World
- House of Commons British Parliamentary Papers
- Humanities International Complete
- India stats
- Indianjournals.com
- ISI Emerging Market – CEIC Asia
- Legal Pundits
- Lexis Nexis
- LISA
- LNCS
- Making of Modern Law
- Manupatra
- Nature Publishing
- New Palgrave Dictionary of Economics
- New York Review of Books
- Omnifile Full Text
- Oxford Dictionary of National Biography online & Grove Art Online
- PROWESS
- Sage Online
- Science Direct
- Scopus
- Soc Index with Full text
- Statesmen’s Yearbook
- Proquest Dissertation and Theses Full Text Database
- Westlaw India
- World Bank e- Library
- WTO e-library
- SSC Online
- Science Online

### **Audio Book Resources and Braille Library**

The Braille Library is actively engaged in supporting teaching, learning and research for the visually impaired students and faculty members. It has 3 audio book production studios, 2 high capacity Braille embossers, network of 22 latest computers with softwares like Daisy System, Sparsha, OBI, PUTTY, Sigtuna, Jaw, Duxbury, Leap Office etc. There are 1,755 audio books, 1,885 Braille books, 1,694 e-text, etc. The entire collection of audio books and e-text has been made available online an DUCC IP range in last academic year and is accessible via ID and password at <http://bl.du.ac.in>. The library is regularly used by visually impaired students enrolled in the University. Presently 240 members are enrolled in the library. The website of Braille Library has large number of hits for downloading accessible materials, it has circulated 1,314 books on CDs. The Braille library conducted a workshop in August, 2016 for physically disabled students about DAISY form.

### **User Services**

**DULS – Website:** DULS-Website which includes the catalogue of selected libraries(OPAC);a provision of e-referencing, A-Z list of E-journals, Online Information Literacy Tutorial, Subject Portal, Ask your Librarian, access



to electronic resources including open access resources and several other user friendly features, is in operation. Till date the website has been viewed by 6,40,424 users.

**Digital Library:** The Library has digitized 14,386 books out of copyright zone available in DULS and have been placed on the web for global internet accessibility using the Open Source Content Management System, namely, 'Dspace'. The URL is <http://library.du.ac.in/dspace>. The same is also available on the Digital Library of India's portal.

**Information Literacy Programme:** DULS has initiated and regularly conducts Information Literacy Programme since 2006 and has organized a total of 149 Information Literacy programmes in various departments and colleges of University of Delhi including 118 E-Resource Orientation programs, 15 hands-on Training Sessions, 15 One Day Workshops for Research Scholars in Social Sciences. In the current year DULS has conducted 11 Information Library Programmes in Departments/Colleges and in the Conference Centre. 742 students including P.G., Research Scholars & Members have attended the programme.

**Knimbus:** Presently there are 1,877 registered users from DU. In the last one year there have been 2,229 logins, 5,501 searches and 3,641. Articles are downloaded through Knimbus.

**Similarity Detection:** The Central Library has been assigned the work of similarity detection for the research assignment submitted by students. Central Library has started Similarity Detection since December 2015 and a total of 1952 Ph.D Theses, M.Phil Dissertations, and other research assignments have been verified.

**Document Delivery Service:** The J-Gate @UGC Infonet provides article-level access for all the databases subscribed by the UGC-INFONET Digital Library consortium, about 5,200 open access electronic journals, and print journals subscribed by 30 University libraries designed as Inter-Library Loan (ILL) Centers of the INFLIBNET Centre. The interface provides hyper link to articles that are available electronically and accessible in a given University so that a user can access and download articles. For articles from journals that are not available electronically or are not accessible in a given University, the interface facilitates semi-automatic generation of ILL request directly from user(s) to the INFLIBNET Centre or to one of the ILL Centre as the case may be. DULS is one of the 30 designated ILL Centres for the services.

We receive following advantages of J-Gate@UGC Infonet:

- Provides single window searching of all the electronic databases available through UGC-INFONET Digital Library Consortium.

- Provides seamless access to millions of journal articles available online offered by 13,290 Publishers.

- Provides access to massive database of journal literature, indexed from 45,339 e-journals with links to full text at publisher sites.

- Provides access to about 23,410 open access e-journals in full text, having over 9,425,618 open access articles.

- Article level searching for 917 print journals of DULS.

- Availability of photocopies of print journal articles not available in DULS through Document delivery service.

- Utilize the Document delivery service by requesting other designated Universities to provide copy of the print journal articles.

As a designated ILL Centre of J-Gate@UGC Infonet, DULS is also shouldering many responsibilities. In lieu of electronic databases available through UGC INFONET Digital Library Consortium, worth about Rs. 1,00,000, DULS shoulders the responsibility of supplying photocopies of the articles requested through J-Gate@UGC Infonet to the scholars throughout India. DULS being a large organization, having large collection of print and electronic information content mostly serves the information requirements of its users. Hence, there are very less requests for photocopies of the articles from DULS users to other Universities. However, as an ILL Centre, DULS is regularly supplying the photocopies of articles. Compared to only 708 requests from our scholars DULS has received 7,210 requests from scholars of other institutions.

**Human Resources:** The facility created in the Central Library for imparting training on 'Use of Computers in Libraries' has been conducting the training programme for the benefit of Library Staff of the University and College Libraries with the help of the Resource Persons from the DU Computer Centre.

**Summer Internship:** DULS continued to engage students of Master's Programme in the Library & Information Science as summer interns @ Rs. 7,500/- per month. 13 students have been given training in various Libraries during the period.

### **Seminars / Conferences / Workshops/ Exhibition**

Dharmveer Singh (University Librarian): Attended International Conference on Integrated Development of Digital Publishing and Digital Libraries (CDPDL 2016) at Hangzhou, Zhejiang (China). 10 - 15 July, 2016.

Narender Kumar (Deputy Librarian DULS), Bibliographic Citation: MLA citation style. Orientation Programme at University of Delhi. 6 Dec., 2016.

Narender Kumar, Information Literacy Competence. Orientation Programme at University of Delhi. 6 Dec., 2016.

Narender Kumar, Plagiarism. Refresher Course at Guru Jambheshwar September University of Science and Technology, Hisar. 13 Sept., 2016.

Narender Kumar, How to search e-resources Refresher Course at Gugu Jambheshwar University of Science and Technology, Hisar. 13 Sept., 2016.

Narender Kumar, Networking. Refresher Course at National Institute of Virology, Pune for Library professionals working in ICMR labs. 11 Aug., 2016

Narender Kumar, Library Automation. Refresher Course at National Institute of Virology, Pune for Library Professionals working in ICMR labs. 12 Aug., 2016.

Narender Kumar, Challenges before the Library Profession. Refresher Course at Centre for Cultural Resources and Training. Ministry of Culture, Government of India. 26 June, 2016.

Tariq Ashraf (Deputy Librarian SDCL), Delivered an Invited Talk, Sustaining Excellence Transforming Libraries through Technology, Innovation and Value Added Services at 61 ILA International Conference held at Saurashtra University during March 12-15, 2016

Tariq Ashraf, International Conference on Digital Governance Innovation, Information and Libraries. Organized Jointly by Asian Library Association and Indian Institute of Management Indore April 14-16, 2016.

Tariq Ashraf, Workshop on Use of e-Resources on April 22, 2016 at Delhi College of Arts & Commerce, University of Delhi, Delhi.

Tariq Ashraf, Workshop on Use of e-Resources & Managing Research in Electronic Environment on May 4-5, 2016 at Institute of Home Economic, University of Delhi, Delhi.

Tariq Ashraf, Delivered a Talk of Managing and Maximizing Research Impact at ICDL on Dec., 16, 2016.

Tariq Ashraf, National Seminar on 'From Print to Digital: Managing Libraries In Neo-Information Environment.' Organised jointly by Asian Library Association & Footwear Design & Development Institute on Saturday, March 25, 2017 at Footwear Design & Development Institute Campus, Noida.

### **Publications**

Kumar, N., & Kumar, L. (2016). Ever increasing cost of knowledge: Challenges for libraries for electronic resources a case study. *DESIDOC Journal of Library & Information Technology*, 36(6).

Kumar, N. (2016). *Barriers in accessing electronic resources in libraries*. Proceedings of National Conference on Building Digital India: Enhancing capacities through libraries and information, 47-52. ISBN 9789382059523

Kumar, N. (2016). *Sustainability of electronic resources subscription: Future tense*. In Proceedings of International Conference on Digital Governance: Innovation, Information and Libraries held at Indian Institute of Management Indore, 397-402. ISBN:978-93-5258-425-3

Ashraf, T., Co-Editor, *Digital Governance: Innovation information and Libraries*. New Delhi: Asian Library Association, 2016.

Ashraf, T., Co-Editor, *Digital governance: Innovation Information and Libraries*. New Delhi: Synergy Books Pvt. Ltd., 2016.

Ashraf, T., Co-Editor, *Building Digital India: Enhancing Capacities Through Libraries and Information*. New Delhi: Synergy Books Pvt. Ltd., 2016.

Ashraf, T., Editor, *Interdisciplinary Digital Preservation Tools and Technologies*. New York: Information Science Reference© 2017. (Pages 281)

Ashraf, T., Co-Editor, 62nd ILA Conference Proceedings *Gearing up for the Future Library Initiatives for Digital India*. New Delhi, ILA, 2017. (Pages 1047)

Ashraf, T., Co-Editor, *From Print to Electronic Managing Libraries in Neo Information Environment*. New Delhi: Synergy Books Pvt. Ltd, 2017. (Pages 225)

### **Activities in Other Major Libraries**

**Central Library (Including the Arts Library):** The Central Library (including the Arts Library) has been able to add a collection of 3,744 volumes in the last financial year with a membership of 4,174 users and the circulation of 41,492 books. The library has been providing Plagiarism Checking Services to its students and teachers. A dedicated desk has been established with trained staff to check research work and generate similarity reports. To search an item available in the Library, four computer has to log on to OPAC installed on ground floor of the Library and search an item by entering a term in any one or all the fields. The Internet access facility provided for exclusive use to research scholars at Research Floor in the Central Library is being utilized regularly by an average number of 25-30 scholars per day.

**Central Science Library:** The Central Science Library has been able to add a collection of 1,484 volumes in the last financial year with a membership of 3,430 users and the circulation of 2,55,000 books. The library has excellent setup of IT infrastructure for various IT related services. The Library continued to conduct the Information Literacy Programme and facilitated the internet access facility, subscriptions to electronic resources, downloading of articles etc, Live online demonstration to the users, Sending attachments to e-articles etc, Article alert and retrieval of information on the basis of search techniques, E-mail alert to faculty members etc. on new information are also provided. The Library has been able to provide the services to users of all faculties from science, social sciences and humanities. The library received and sent a number of documents / articles to and from different libraries in the country through JCCC. A number of computers and electronic equipments have been added to augment the computerized services by including the laser printers, LCD Printer, Scanners etc. It also has Books on CD's and DVD's.

**Ratan Tata Library:** The Library has been able to add a collection of 1,259 volumes in the last financial year with a membership of about 1,944. The RTL has augmented its computing facility and unique e-library with 105 terminals to access various resources and one High End server. The Library has also updated its website with more value additions. The orientation programme for various departments with special reference to e-resources has been taken up.

**South Delhi Campus:** The South Delhi Campus Library has been able to add a collection of 2,657 volumes in the last financial year with a membership of 1,428 users and the circulation of about 24,590 books. The total collection of Library approx. 2lakhs consisting of books, bound journals and CD-ROMs. The CDs which are received along with books can also be accessed through the CD server. Subscription to nearly 150 print journals, 25,000 back volumes of periodicals and is fully computerized. All library services are fully automated and are leveraged through extensive ICT based applications. Library activities like circulation-Issue-return, reminder, membership, Acquisition-ordering and billing, Serial Control, OPAC takes place in a fully automated environment using Troodon Library Management system. The entire library is covered by CCTVs both for security and monitoring purposes. The Library has also upgraded its website, has set up an e-resource centre, placed extensive signages across the library, completed the bar coding of books and organized the orientation programme. The Library has CD-ROM, Supplementary Reading materials and previous years question papers in its digital collection. A dedicated reference desk for providing service to users is operational.

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## DELHI UNIVERSITY SOCIAL CENTRE CO-ED SCHOOL

Delhi University Social Centre Co-ed Secondary School is becoming one of the known schools in the neighbourhood. It is situated amidst the residential area of Block-C, Maurice Nagar, Delhi-07. A small group of voluntary womens' organization had started the school in the year 1945. They had a humble beginning at the behest of Sir Maurice Gwyer in pre independent India. Since 1964, the school was getting 95 % aid from the government of Delhi. and 5% from Delhi University. Delhi University provided a modern building for the school during the period of Vice Chancellor Prof. Moonis Raza from its own funds which is maintained by the Engineering Department of DU. The DU every year also grants in additional aid of 12-15 Lakhs for contractual staffs and infrastructure facilities. DU has also allotted Professor's Quarter C-4, that is adjacent to the school. Few primary classes have been shifted to that building. The school was upgraded from 8th to 10th standard in 2003.

The 12 member Managing Committee of the School has five Professors nominated by the Delhi University, one Executive Council Member, two nominated by Delhi Govt., three from the School and one from the Parent Teachers Association. The Present Managing Committee members are:

Prof. Vasant Sharma (Department of English, DCAC (Chairperson)  
Prof. Najma Siddiqi (Former Head & Dean, CIE, University of Delhi)  
Mr. Anurag Shokeen (Secretary/EC Member)  
Prof. Namita Ranganathan (Assistant Manager)  
Prof. Shobha Bagai (Member)  
Prof. Anita Sharma (Member)  
Dr. Garima Bharti (HOS)  
Mr. J.P.S Tomar (Principal, GBSSS No-2, Roop Nagar) DE Nominee  
Mrs. Seema Kumari (Vice-Principal, GGSS Burari) Member of advisory board of MC  
Mrs. Neelam Mendiratta (Staff Representative)  
Mrs. Vibha Sharma Staff (Representative)  
Mr. Manoj Kumar (PTA Secretary)

The School Staff team comprises of Dr. Garima Bharti (HOS) along with 6 TGT, 6 Asst. Teachers, 1 Yoga Teacher, 1 PET teacher, 1 peon, 2 Chowkidar and on Contract: 1 Office asstt., 1 Library teacher, 2 Nursery Teacher, 1 I.T. assistant, 1 Computer teacher and 2 Safai Karamcharies (Contract or daily wages basis).

### Academic and Co-curricular Activities

The school has 600 students. The class 10 CBSE result was 100 % proving that the school is moving on the path of success with full vigor. All students scored more than Grade D. Enrolment of students is continuously increasing since the last 5 years. We are not able to accomodate more students due to shortage of space. A request has been made to the University for additional building which is in progress.

During the session 2016-17, Earth Science Week in month of April; Independence Day; Annual Day; Vanmahotasav; Gandhi Jayanti; Children's Day; Red Cross Day; Sanvidhan Diwas from 26 Nov., 2016-25 Jan.,2017; Christmas; Republic Day; Saraswati Pooja; and Bhagat Singh Martyr's Day on March 23, 2016. The school has also received a Grant of Rs. 12 Lakhs from Delhi University as Honorarium for Contractual Staff and Infrastructure facilities.

### Workshops & Seminars

Teacher Learning Seminar and Workshop on Computer Learning was held.

Parents were given counseling sessions for motivating them to send their ward to school regularly and enhancing their role in the education of their children.

Guidance and counseling Workshop was arranged for girl students in the age group of 10-15 years with the help of Department of Social Work, Delhi University.

The school conducted a mock drill to create an awareness of natural disaster like earthquake among students.

A Seminar on Legal Literacy on Legal Literacy Day was organised.

Students participated in the Martyr's day commemoration at Gandhi Bhavan.

The school participated in the Annual Flower Show of Delhi University and received prizes.

The school also participated in various activities of the Directorate of Education and other education organization like Sports, Yoga, Drawing and Debate competition etc. and won National Prizes in Taekwondo. Students actively participated in the Zonal Competition. Students were taken for excursion.

The school is awaiting a provision of playground as it is one of the basic requirements of a school as per conditions laid by CBSE in order to grant affiliation to the school. There is an urgent need of additional accommodation facility for the increasing number of students. The school is keenly waiting for the decision of Delhi Govt. to release Grant in Aid for the secondary section of the school. Meanwhile, Delhi University is giving enough support for the expenses of the secondary section of school.

### **Achievements of the School**

HOS is honoured with Human Rights Award on 10 Dec., 2016 by Indian Institute of Human Rights.

Academic Achievements:

Results: Class X (C.B.S.E Affiliated) – 100 % during 2011-12, 2012-13, 2013-14, 2014-15, 2015-16 (Result of last 5 years has already been submitted).

Co-curricular Activities (Inter & Intra House Competition achievements in various fields):

Zonal Level Competitions:

Hindi Essay Writing: Aman Awasthi, Sanjana (Class 10)

English Recitation: Arun from Junior Boys – 3rd position, Aman Awasthi from Senior Boys – 1st position.

Folk Dance Bhangra (Boys): Winners (19 students)

Science Exhibition: 4 students qualified for the next level.

Science Quiz: 3 Students

National Science Seminar: Arun (Class 8)-Qualified to next level.

Science Slogan- 3 Students; Science Model- 2 Students; Science Poster: Vishal-(10), Shivam-(5); Sciencetoon: Md. Zaid (9)

Wild Wisdom Quiz: 2 Students

SUPW (Zonal Level): Qualified to Next Level. (Aditya and Prerna (7), Namra Sujata (8))

English Slogan Writing: Shivani-(10), Khushi-(8)

Hindi Declamation: Anmol-(8)

English Essay Writing: 3 Students

Hindi Slogan Writing: 4 Students

Hindi Recitation: Mukta (6)-1st (Position), Himadri (9)

On the Spot Poster/Painting competition: 4 Students

Badminton: Junior Girls – 3 Girls

Athletics (Under 14): Boys – 4

### **Outreach Programmes for Community Welfare**

Social activities undertaken by the school for creating public awareness on importance of education as per RTE Act, 2009 are: *Nai Disha Sahi Disha*; Migrant Welfare; Martyr's Day Celebration on 23rd March at Viceregal Lodge in North Campus; Martyr's Day Celebration on 30th January in Gandhi Bhawan. Joining hands with various NGO's to spread the awareness of values among our students:

FRNV Joined hands with *Nai Disha Sahi Disha*

Bhartiya Sathi Sangthan awarded our teachers with shields; and students with sweaters and study material (Geometry Box, register, Pouch, dictionary, etc.); and participants with the cash prize of 1500/- Inner Wheel supported with refreshments and adopted the nursery wing as UDAAN.

Students participated in the *Sur Sadana* programme of Ramayana.

Parent Teacher Meetings are held on a regular basis. Teachers make door to door visits ensuring students do not drop out of school. Emphasis is laid on the Girl Child and Mothers' awareness on health & hygiene. Legal literacy programme is conducted monthly.

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## DELHI UNIVERSITY SPORTS COUNCIL

### Major Activities

Under the Chairmanship of Prof. C.S. Dubey, Delhi University Sports Council Inter College Tournaments were conducted in 53 Games / Sports for Men & Women disciplines followed by Coaching Camps and Selection of University of Delhi Teams for North Zone and All India Inter-University Tournaments for Men & Women Category. University of Delhi participated in 64 disciplines in North Zone and All India Inter-University (M&W) Tournament organized by Association of Indian Universities (Annexure-I). A total of 682 players (M&W) represented University of Delhi in North Zone and All India Inter-University Tournaments.

### Honours / Distinctions

Three students of University of Delhi, Ms. Apurvi Chandela (Shooting), Ms. Manika Batra (Table Tennis) and Mr. Lalit Mathur (Athletics) represented the Country at Rio Olympics, 2016.

Ten sports persons of the University of Delhi were part of the contingent of Indian Universities Team for the 6<sup>th</sup> World University Shooting Sport Championship, 2016 at Bydgoszcz (Poland) in Sept., 2016:

1. Mr. Ishan Goel
2. Ms. Dilreen Gill
3. Ms. Aditi Singh
4. Mr. Rahul Khatri
5. Ms. Sanjana Sehwari
6. Mr. Yuvraj Kumar Mahajan
7. Mr. Arjun Mann
8. Ms. Mahima Kumar Mahajan
9. Ms. Sajneet Kaur Rehal
10. Ms. Sarveshwari Kumari

Their Achievements in the 6<sup>th</sup> World University Shooting Sport Championship 2016 are:

1. Ms. Dilreen Gill won Gold Medal in 10 Mtrs. Air Rifle Team (Women)
2. Ms. Sajneet Kaur Rehal won Silver Medal in Trap Team (Women)
3. Ms. Mahima Kumar Mahajan won Silver Medal in Trap Team (Women)
4. Ms. Sarveshwari Kumari won Bronze Medal in Skeet Team (Women)
5. Mr. Yuvraj Kumar Mahajan won Bronze Medal in Trap Team (Men)

Seventy Five players brought laurels to the University of Delhi in Zone and All India Inter-University Tournament (M&W). Gold Medal/s in Badminton(W), Chess(M), Chess(W), Cricket(M), Diving(W), Judo(W), Shooting (M & W), Squash Racket (M), Swimming (W) Table Tennis (M&W), Taekwondo (M), Tennis (W).

One Hundred and Six players won Silver Medal/s in North Zone and All India Inter-University Tournament in Archery (W), Athletic (M), Badminton (W), Baseball (M), Boxing (W), Cricket (M), Diving (W), Football (W), Gatka (M), Gymnastics (M), Judo (W), Shooting (M & W), Table Tennis (W), Wt. Lifting (W), Power Lifting (W), Wrestling (M), Yoga (W).

One Hundred Fifteen players won Bronze Medal/s in North Zone and All India Inter-University Tournament in Athletic (W), Baseball (W), Basketball (M), Boxing (M), Cricket (W), Chess (W), Korfball (Mixed), Gatka (W), Gymnastics (W), Shooting (M & W), Squash Racket (M), Swimming(M&W), Tennis (M), Wrestling (M). (Annexure-II)

Team Championship in All India Inter University Tournament 2016-17 are:

University of Delhi Shooting (M&W) Team got Silver Medal in Overall Championship Shooting (Men & Women) in All India Inter University Shooting (M&W) Championship 2016-17.

University of Delhi Gymnastic (W) Team got Bronze Medal in Gymnastic Rhythmic and Gymnastic (M) Team got Bronze Medal in Gymnastic Artistic in All India Inter University Gymnastic (W) Championship 2016-17.

University of Delhi Archery (M) Team got Gold Medal in Archery Compound and Archery (W) Team got Silver Medal in Archery Recurve in All India Inter University Archery (M & W) Championship 2016-17.

University of Delhi Gatka (W) Team got Gold Medal in Single Stick Event and Gatka (M) Team got Bronze Medal in in Single Stick Event in All India Inter University Gatka (M & W) Championship 2016-17.

### **Tournaments 2016-17**

Both Men's and Women's Teams participated in Inter-College; Zonal; and All India Inter-University Tournaments in the following Sports/Games:

Archery; Athletics; Badminton; Ball Badminton; Baseball; Basketball; Boxing; Chess; Cricket; Cross Country; Football; Handball; Hockey; Judo; Kabaddi; Korfball (Mixed); Netball; Power / Weight Lifting/ Best Physique; Shooting; Softball; Squash Racket; Table Tennis; Taekwondo; Tennis; Volleyball; Wrestling; and Yoga; Fencing, Kho Kho, Gatka, Aquatics, Gymnastics

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## **DELHI UNIVERSITY WOMEN'S ASSOCIATION**

Delhi University Women's Association (DUWA) is a social welfare organization and was registered under the Societies Registration Act XXI of 1860 as extended to the Union Territory of Delhi, on 31st October, 1964, to promote and to carry on social, cultural, recreational, welfare educational and economic activities for the benefits of the women-members, on the staff, women's students and family members of those on the staff of the Delhi University and its affiliated and constituent colleges and recognized institutions and also for the benefit of those who are residents in campus of the university and of the surrounding areas. DUWA was started by Dr. Durgabai Deshmukh, a social activist, a great visionary and wife of the then Vice-chancellor Prof. C. D. Deshmukh with the vision of empowering deprived and under privileged women.

### **Programmes**

**The Mind Body Centre:** Promoting the wellness of the women students at Delhi University is the prime objective of this Centre which was inaugurated by Prof. Dinesh Singh, Vice-Chancellor, Delhi University, in February 2014. As problems of the mind and body are interconnected they need to be dealt in a holistic manner by the expertise of the physicians, naturopath and counselor at the Centre. In addition to free consultation, the practice of yoga and acupressure techniques is also used at the Centre. Specialised Doctors have been appointed for homeopathy and naturopathy treatment of the Girls students and University Women Employees.

**Play Schools:** DUWA runs pre-school, Usha Ganguly Sishu Vihar and Durga Bai Deshmukh Balwadi, established in 1967 and 1966 respectively, to promote intellectual, emotional, social, esthetic and physical development of a child. The Balwadi is meant for the children from economically weaker sections where they are given free nutrition. There are about 200 children enrolled in both the schools.

**Sahyog:** Sahyog programme helps school students of standard I-XII from the neighborhood underprivileged children with the objective of improving their academic performances. In this tuition support programme, the

children are served nutritious snacks and health drinks. Classes are held six days a week from 3-5 pm., and there are about 30 children enrolled in this programme.

**Vaatsalya:** This childcare programme is meant to support the working mothers from Delhi University with the objective of reducing their stress related to the wellbeing of their children. This day-care facility is for the age group of 6 months to 6 year old children. There are 50 children admitted to this facility.

**Women's Hostels:** DUWA established the working women hostel Sri Sadan to commemorate the International Women's year in 1975, for the benefit of the single women teachers of Delhi University and affiliated colleges. The other two hostels, Old DUWA Hostel and New DUWA Hostel provide accommodation to the M.Phil and Ph.D students of Delhi University. There are about 37 residents in the hostels with a full-time warden.

**Drishti:** DUWA members have made significant contributions through Drishti Programme by addressing the needs of the visually challenged students of Delhi University. Members read out and record lessons, arranging study materials and provide emotional support to the visually challenged persons.

**Jagruti:** Recognizing the growing incidents of cancer among women this programme strives to spread awareness through organizing lectures, discussions, screening camps, street plays competitions and other activities among the students of Delhi University.

**Souvenir Shop:** The souvenir shop was launched in November 2014 to commemorate DUWA's Golden Jubilee Celebration which was inaugurated by Pro. Dinesh Singh, Vice-chancellor of Delhi University. The primary purpose of this activity is to promote the DU brand and to simultaneously inculcate a sense of pride and belonging amongst the students and other members of the DU community. The design and sale of the souvenir items is being managed by DUWA members. There has been a great demand for the some souvenir items like folders, sweat shirts, bags, pens, key chains, mugs, etc.

**Computer Literacy Programme:** In this a four-month computer course which is conducted to impart the basic knowledge that includes MS-Word, Excel, PowerPoint, Access and Internet. The aim of this programme is to help girls to acquire basic computer skills.

**Language familiarization Programme:** DUWA is taking the initiative of conducting free short term language familiarization courses for DUWA members, DU staff, faculty and students. The programme started with a four-five months course of Chinese Language & German Language.

**Library:** DUWA also provide library facility for hostel residents and for all DUWA Members and recently we have computerized and updated library facility with easily accessible to all the members.

**Garden & Environment Committee:** DUWA also conducted several awareness programmes and workshops to raise awareness amongst the students towards sustainable development, recycling of waste, green management etc.

**Sports:** DUWA also arranged sports events for the children of School, Sahyog and for all the members to make them active and healthy.

**Community Services:** Members of DUWA also conduct workshop about skill development in nearby areas.

### **Major Activities during the year 2016-2017**

DUWA organized the Orientation Programme for new parents of UGSV & DDB Schools on 9 April, 2016.

Maggi Creative Kitchen Activity on 23 April, 2016 saw some special attractions like tasting Maggi Noodles, Recipe demonstration, Tambola and Gift distribution by Nestle. A Cooking Competition (Different kinds of monsoon snacks) was held on 16 July, 2016.

Annual Sports day was held on 23 April, 2016 by DUWA members.

Summer camp for children were organized by Sahyog and Vaatsalaya Sub-Committee from 23rd May, 2016 to 5th June, 2016 in DUWA . Main attractions were Yoga Classes, Fun Activities, Creative Activities Jewellery Making, Art & Craft, Dance & Painting and Nature Walk

German Language Level-II classes were held between July-Oct., 2016.

Talk on Surgery to Control Obesity by Dr. Deep Goyal, B.L.Kapoor Hospital, was held at DUWA Hall on 30 July, 2016.



Celebrations of National Days and festivals include Independence Day; Janamashtmi; Ram Katha by UGSV and DDB School teachers; Durga Dussehra Mahotsav by Sahyog Sub Committee; Diwali Mela by Cultural Sub-Committee; Diwali Celebration by UGSV & DDB School; New Year; Lohri; Republic Day celebration of UGSV & DDB schools; and Holi Milan among others.

Workshop on 'paper-Recycling' was organized by Dr. Neelima Asthana and Ms. Nupur Sinha on 3 Nov., 2016 with two experts and a student team from Lady Irwin College.

Spot painting competition for Sahyog children was organized by Ms. Kamini Minocha and Ms. Shakti Sharma on 9th Nov., 2016 .

Chacha Nehru & Anjali Memorial Painting competition was organized by the children of UGSV & DDB on 11 Nov., 2016.

Anniversary celebrations of Vaatsalya were held on 29 Nov., 2016. Main attraction was the cultural programme performed by Vaatsalya children.

A Workshop for school children and parents on 'Early Childhood Training' by Ms. Shubha Goswami (Educator & Counsellor , RCI), was conducted on 10 Dec., 2016

Cooking Demonstration by Ms. Nisha Kanodia was held on 17 Dec., 2016.

Annual Prize Distribution Ceremony in Dec., 2016; and Annual Day Function on 28 Jan., 2017; and Annual Sports Day on 10 Feb., 2017; Fun Day (puppet Show); Graduation Day on 25 March, 2017 of the DDB & UGSV Schools were held.

Sports Day was organized on 31 Jan., 2017; and Picnic (Suraj Kund Mela) was organized on 10 Feb., 2017 for DUWA Members.

Sports Day for Sahyog Children was organized on 9 Feb., 2017

Mind Body Centre Anniversary was celebrated on 13 Feb., 2017.

Several stalls like the Food Plaza Stall, Souvenir Shop Stall, Mind Body Centre Stall, Herbal & Medicinal Plants Stall were installed by the DUWA members at the University Annual Flower Show on 23 Feb., 2017.

Talk on Women's Health, Beauty & Homecare, by Dr. Neeta Bhasin was organized on International Women's Day.

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## **DIRECTORATE OF HINDI MEDIUM IMPLEMENTATION**

The Directorate of the Hindi Medium Implementation publishes high standard text books in Hindi, primarily on Social Sciences and Humanities for the benefit of under-graduate and post-graduate students with Hindi Medium. We have published approximately 210 books so far. During 2016-17, we published a translated book namely *Lok Prashasan* written by Professor Rumki Basu. We published about 25,000 copies of reprinted books namely *Prachin Bharat ka Itihas* (Jha and Srimali) and *Madhyakalin Bharat Bhag-1& 2*.

The Directorate participated in the New Delhi World Book Fair at Pragati Maidan, New Delhi from January 7, 2017 to January 15, 2017.

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## **FOREIGN STUDENTS REGISTRY**

The international student community continued to show its interest in seeking admission to various programmes offered by the University of Delhi for the academic year 2016-2017. The office of foreign students received 3,819 applications including 1358 applications of ICCR scholarship holders. In total 560 students, 260 females and 300 males were admitted to various programmes of the University of Delhi during the academic session 2016-2017. The University had on its roll 1,497 foreign nationals pursuing courses ranging from certificates courses to Ph.D. Programme.

The office of Foreign Students Registry maintained close links with enrolled students, residential hostels, Embassies, Colleges, Departments and Institutions to ensure that international students did not face any problems pertaining to their academics.

Many cultural activities were also organised for students. Orientation was organized in Sept., 2016 for the students admitted during academic session 2016-2017. The Foreign Students' Association of Kirori Mal College also organized various cultural & academic functions. The foreign students participated in the Indo-Nepal Relationship Ambassadorial Lectures series organized by the University of Delhi.

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## **GANDHI BHAWAN**

### **Major Activities and Achievements**

Gandhi Bhawan, University of Delhi is a centre dedicated to the study of words and works of Mohandas K. Gandhi. The main objective of the Gandhi Bhawan is to transmit the message of Mahatma Gandhi to the students of the University and arouse interest in his teachings. In the process of the realization of main and peripheral objectives, the University fraternity comprising of teachers, students and karamcharis, function through Gandhi Bhawan and Gandhi Study Circles in colleges as the spokesperson of Gandhian Thought and Philosophy. To realize these objectives, Gandhi Bhawan organizes various programs like Lecture Series/Special Talks/Seminars/Interactive sessions/Workshops, Book Reading, Awareness Programs, Film screening, Swachhta related events, Bhajan Sandhya, Debates, Nukkad Natak, Sports activities, Yoga-cum-Spirituality programs, and Visits to places of importance.

Gandhi Bhawan has regular programmes as Khadi classes, Charkha Spinning classes, Free Legal Aid Clinic, Computer Classes for students to enhance their Hindi typing skills, and Discourse on Gita. Gandhi Bhawan also conducts Certificate Course in Charkha Spinning and Certificate Course in Khadi Prashikshan. Gandhi Bhawan celebrates Gandhi Jayanti and Observes Martyr's Day in addition to celebration and observance of various important days like Environment Day, Sushashan Divas, and International Yoga Day.

### **Honours / Distinctions**

Prof. Anita Sharma, Director:

Journalist Bimalendu Barua Peace Award 2016 by Nirvana Peace Foundation, Chittagong, Bangladesh, July, 2016.

Award for Achievements in the Field of Peace by International Women Club, Sydney, Australia, March, 2017.

### **Special Talks/ Lectures/ Interactive Sessions/ Workshops Organised**

Mahatma Gandhi, Indian National Movement and The Moment of Dandi March, by Dr. Santosh Kumar Rai, Department of History, University of Delhi.

Interaction of Values: the Gandhi way, by Dr. Seema Bose, Department of Philosophy, Dyal Singh College, University of Delhi.

Applying Gandhian Satyagraha Today: An Analysis of Gandhi's Dandi March, by Dr. Suman Khanna Aggarwal, Former Associate Professor of Philosophy, University of Delhi.

Gandhi as India's Soft Power, by Prof. K. R. Sharma, Former Member, Managing Committee, Gandhi Bhawan.

Gandhi's Role in Freedom Struggle, by Dr. Shalini Saxena, Former Reader and Head, Smt. C.H.M. College, Affiliated to Mumbai University.

Gandhian Philosophy and Jainism, by Dr. Shalin Jain, Associate Professor, Department of History, University of Delhi.

*Gandhi aur Ahimsa ke vicharon ki aaj ke yug mein prasangikta*, was delivered by Dr. Chanda, Department of Hindi, Miranda House, University of Delhi.

Disaster Preparedness: Knowledge for Survivability, by Dr. Jagbir Singh, Department of Geography, Swami Shraddhananda College, University of Delhi.

Wonders of Nature, by Er. Sudhir Sharma, L&T, Mumbai.

Gandhi, Hind Swaraj and Constructive Programme, by Dr. Ravi P. Bhatia, former member, Managing Committee, Gandhi Bhawan.

Gandhi – Mahatma Kyon?, by Prof. Kailash Narayan Tiwari, Department of Hindi, University of Delhi.

Ayurveda Lifestyle, by Ayurveda Consultant, Dr. Ankurita Gupta.

Chinese Perceptions on Mahatma Gandhi: A Historical Review, by Prof. Huang Yinghong, School of International Relations, Sun Yat-sen, University, Guangzhou, PRC.

Life profile of Mahatma Gandhi, by Dr. Siyaram Mishra Haldhar, Department of Buddhist Studies, University of Delhi.

Workshop on Yoga, Yogacharya Gopal Krishan, founder, Anand Yoga Amrit, New Delhi and Shri Vinay Bharti, faculty, Morarji Desai National Institute of Yoga (MDNIY), New Delhi were the resource persons.

An interactive session on Travelling was organized in which Anil Kumar, Deepak Kumar and Rishwa Mathur presented radio and video clippings on travelling based on their visit to China in Dec., 2016.

An interactive session on Gandhi in His Times and Ours, was organized where students shared their views on political, social and personal life of Mahatma Gandhi.

The Sushasan Diwas was celebrated with an interactive session on *Sushasan mein dhyaan aur yoga ka mahatva*.

Dr. Ritu Saxena of Lok Nayak Hospital, New Delhi gave a presentation for Dengue Awareness.

A Debate on 'Mobile phone *vardaan nahin abhishaap* and a Charkha Katai Pratiyogita was organized.

Dr. S. V. Esvaran, Mr. Ishwar Sharma and Mr. Harsh Dev Tomar sang Gandhi ji's *priye bhajan* during *Bhajan Sandhya*.

Visits to Harijan Sevak Sangh, Kingsway Camp, Delhi; Rail Museum; Triveni Vridhashram, Kanjhawala, New Delhi were organised.

#### **Documentary / Film Screening:**

Mahatma: A Great Soul of 20th Century

Mahatma – The Life of Gandhi

Azaadi ki Yadon Mein

Quit India Movement

India Against Corruption

Life of Maulana Abul Kalam Azad

Mahatma Gandhi: The 20th Century Prophet

#### **Book Reading Sessions:**

Excerpts from Education from the autobiography of Mahatma Gandhi 'My Experiments with Truth' and Shiksha from 'Hind Swaraj' were read and discussed.

Activity and Games For Children / Students:

A One-month Computer Course for children was initiated.

Pompom making Workshop was organized.

A Workshop on 'Making of Paper Bags' was organized.

*Khelkud Pratiyogita* was organized.

Saplings were planted with the students and staff of Gandhi Bhawan.

Christmas was celebrated.

## Special Series of Programmes

Gandhi Bhawan organized various activities under the auspices of Yoga Fest during April and May, 2016:

A Yoga and Meditation Training Programme was initiated for the kids/youth and University fraternity at large, which continued till 20 June, 2016 and all learners participated in the World Yoga Day on 21 June, 2016. A day-long event was organized on 18 May, 2016 comprising of Yoga asanas, Khadi prakshalan, Charkha prakshalan and Bhajan session. Prof. Yogesh Kumar Tyagi, Hon'ble Vice Chancellor, University of Delhi, chief guest on this occasion, planted a tree in the premises and addressed the audience.

The World Environment Day was celebrated with a presentation by Dr. V. Thareja of Botany Department, Miranda House, University of Delhi, which was followed by plantation of saplings at the premises. A Road Safety presentation was also given by Hero MotoCorp.

A series of events were organized to celebrate the birth anniversary of Mahatma Gandhi and Lal Bahadur Shastri under 'Bapu-Lal Bahadur Shastri Bhaavsumananjali' from Sept. 26, 2016 – Oct. 2, 2016:

Presentation on 'Youth Socialization through Community Participation,' by Prof. D. D. Aggarwal (Retd.), Department of Adult Education and Continuing Education,

Exhibition of Khadi products and sale counter was set up by Khadi Ashram, Kamla Nagar, Delhi, with special discount on khadi products.

Workshop on 'Road Safety and First Aid' was organized.

Charkha Katai Pratiyogita was organized.

Debate on 'Mobile phone vardaana nahin abhishaap' was organized.

Interactive session on 'Marriage and You' by Mrs. Pratima Sharma, Former ACP, Delhi Police was organized.

Special Yoga Session for Delhi University Staff and family members was organized. On the same day a special event '*Khel-khel mein Swachhata*' was organized. Four more of such Yoga sessions for the Delhi University family was organised through the month of Oct., 2016.

Events culminated with the birth anniversary celebrations of Bapu and Lal Bahadur Shastri on Oct. 2, 2016. Prof. Yogesh Kumar Tyagi, Hon'ble Vice Chancellor, University of Delhi gave the Message of Peace.

Gandhi Bhawan observed the Vigilance Awareness Week till Nov. 5, 2016 starting from Oct. 31, 2016 with great zeal and enthusiasm. At the onset of the Programme, Prof. Anita Sharma, Director (Hony.), Gandhi Bhawan along with other staff members took a pledge. On 2 Nov., a short film on 'India against Corruption' was screened. On 3 Nov., pamphlets were distributed by Gandhi Bhawan volunteers to the general public to spread awareness on the need to curb corruption from society. A Special Talk on 'Good Practices to promote Integrity and eradicate Corruption' by Mr. Omvir Singh Bishnoi (IPS), Deputy Commissioner of Police, Anti-Corruption Branch, GNCT Delhi was organized on 4 Nov., 2016.

Sarva Dharma Prarthana Sabha was organised to commemorate The Martyrs' Day. On this occasion, students of Delhi University Social Centre School, CIE Basic Experimental School and Harijan Sevak Sangh, Kingsway Camp, Delhi presented prayer and bhajans to pay homage to the Mahatma. A musical tribute was also organised. Prof. Madan Mohan Chaturvedi, Chairperson, Gandhi Bhawan, along with the Members, Managing Committee, Gandhi Bhawan planted saplings in the premises of Gandhi Bhawan.

Donation Camp of usable clothes and books was set up at Gandhi Bhawan on 5 and 6 Jan., 2017. Later on, the collected stuff from various sources was sent to the Missionaries of Charity, Majnu ka Tila, Delhi, for further distribution to the people in need.

A Round Table discussion was organized by the participants who visited Wardha, Maharashtra on Jan. 23, 2017. Through their presentation, they discussed various issues related to their visit among students.

An Introductory Yoga Session was organized by Mr. Satyavir Singh Naulakha, Senior faculty, Art of Living on Aug. 9, 2016.

As part of the Independence Day celebrations, a series of programmes *Azaadi 70 – Yaad karo Kurbaani*, was organized from 9 Aug., 2016.

A Swachchata Pakhwada was organized from Sept.1, 2016 – Sept.15, 2016 in which students and staff members voluntarily cleaned the Peace Dome, Toilet blocks and Library.

In collaboration with Non-collegiate Women’s Education Board (NCWEB), University of Delhi, Gandhi Bhawan organized a street play– *Andher Nagri and Chaupat Raja* on Feb. 22, 2017. Six Centres (colleges) of NCWEB participated in the programme.

### **Extension and Outreach Activities**

Various action-oriented events on Gandhian values were organised by the Gandhi Study Circle of various colleges with a part-financial aid amounting to Rs. 10,000/- each by Gandhi Bhawan. Participating colleges are Aditi Mahavidyalaya, Aryabhata College, Ram Lal Anand College, Zakir Husain Delhi College (Eve.).

### **Other Significant Information**

H.E. Luo Zhaohui, Ambassador Extraordinary and Plenipotentiary of the People’s Republic of China to India visited Gandhi Bhawan on Dec. 23, 2016.

Dr. Ratna Ghosh, C.M., O.Q., Ph.D., F.R.S.C., Jamer Mc. Gill Professor and W.C. Mc. Donalds, Professor of Education, Mc. Gill University, Faculty of Education, Montreal, Canada visited Gandhi Bhawan on Dec. 28, 2016.

Students from U.S. Universities; Netherland University; St. Stephens’ College; Institute of Gandhian Studies, Wardha, Maharashtra visited Gandhi Bhawan to enhance their knowledge about Mahatma Gandhi, his values, the Charkha and Khadi in 2017.

#### **Regular Programmes/Courses and Activities:**

Yoga Classes are held from Monday – Friday from 7:00 a.m. - 9:00 a.m. and from 1:00 p.m. – 5:30 p.m.  
Saturday: from 7:00 a.m. - 9:00 a.m.

Meditation Class: Monday – Friday 4:30 p.m. – 5:30 p.m.

Gita Discourse is held every Sunday from 10:00 a.m. – 11:00 a.m.

Charkha Spinning Certificate Course classes are being held every Wednesday from 3 p.m. – 5:00 p.m.

Khadi Certificate Course classes are being held every Wednesday from 9:00 a.m. – 5:00 p.m.

Every Thursday, ‘Meeting with the Vice Chancellor’ is held to take care of grievances from students, teachers and non-teaching employees of Delhi University.

Free Legal Aid Clinic in collaboration with DSLSA, Patiala House Courts, New Delhi is being run every Friday from 3:00 p.m. – 5:00 p.m.

Training of Short-hand and Typing in Hindi is being held in Gandhi Bhawan by Hindi Academy of Government of Delhi.

Computer classes for students are being held daily from 11:00 a.m. – 1:00 p.m. and 3 p.m. – 5 p.m. Basic know-how of computers and Hindi typing training are being provided.

Special Yoga activity is being conducted daily for Gandhi Bhawan family at 3:00 p.m.

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## **GARDEN COMMITTEE**

### **Major Activities**

The development / renovation of Lawns and Gardens were done during this period. The areas include: the Vice Chancellor’s Residence; part of University Guest House; Central Library (2 parts); Faculty of Arts; Equal Opportunity Cell Building; New Administrative Block; Department of Chemistry; Department of Zoology; and DUWA Centre.

### **Awards and Trophies**

The Garden Committee participated in the Annual Flower Show organized by the Indraprastha Horticulture Society, Delhi, and won the following trophies.

Vice-Chancellor's Terrace Garden – Anish Foundation Rolling Trophy

Mughal Garden – Sri Manoranjan Kumar Rolling Trophy

Vice-Chancellor's Residence Garden – IHS Rolling Trophy

Round part, University Stadium – Bhatnagar Rolling Trophy

Sir Shankar Lal Hall – Raghubir Laxmi Devi Memorial Rolling Trophy

Finance Officer's Residence – Smt. Sunita Kumar Challenge Shield

An On the Spot Photography Competition was organized on 23 February, 2017 for all visitors at the Flower Show Venue. Over 50 persons participated in the Photography Competition.

### **59<sup>th</sup> Annual Flower Show - 2017**

59<sup>th</sup> Annual Flower Show was organized on 23 February, 2015 at Mughal Garden (in front of Vice-Chancellor's office), University of Delhi. It was inaugurated by Dr. Harsh Vardhan, Minister of Science & Technology, Govt. of India, the Chief Guest for the Flower Show. Various activities such as Biological Quiz Programme, Display of Stalls of Garden Tools and plants were organized during this event. More than 25,000 visitors enjoyed the show. About 100 running cups/trophies were awarded and several cash prizes were distributed to the *Malis*/exhibitors. Delhi University Women's Association displayed various items at the Flowers Show which was appreciated by the dignitaries and the visitors.

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## **UNIVERSITY GUEST HOUSE**

University Guest House is located near Gate No. 1 of the University of Delhi. It offers a very beautiful view of its lawn on both sides. Surroundings of the Guest House are clean and peaceful. In addition to 33 rooms, it has six Bamboo Cottages. All the rooms and Bamboo Cottages have facilities for a comfortable stay. Guest House staff provides warm hospitality and good food to the guests.

### **Cleanliness Drive**

Maintenance work of the Guest House during this period includes painting in some guest rooms, corridors, Reception area, outside area of Dining Hall/Committee Room/Lounge/ Office, front and back area of guest rooms. Pest Control is done every 2-3 months. Garden cleaning drive from time to time.

### **Additional Services in the Rooms**

Adding to the existing services, Electric kettles were provided in all the rooms; new LED TVs have been installed in some rooms; and old Bed Sheets, Towels, Pillow covers have been replaced.

### **Catering Arrangement**

The University Guest House provides all meals to the Room Guests & special catering arrangements (Lunch/Dinner/High Tea) were provided to approx. 20,080 persons during the said period during events such as Conferences/ Seminars/ Meetings/ Retirement parties/Get-togethers etc.

### **Room Accommodation**

During this period, approx. 3,000 Guests were provided accommodation in the Guest House.

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## INTERNATIONAL GUEST HOUSE

The following improvements/infrastructure developments/new additions have been done at IGH during the year 2016-17:

### **Catering Arrangements**

Special catering arrangements were provided to 315 requests for Lunch/Dinner/Hi-Tea/Conferences/ Meetings/ Seminars during the year 2016-17.

### **Room Accommodations**

During the period 1,262 rooms were provided for accommodation and messing for varying periods. Most of the guests staying at IGH are foreigners and all the guests are satisfied by the services/food/behavior of the staff of IGH.

### **New Facilities and Amenities**

Purchase of one Water Purifier.

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## NATIONAL CADET CORPS

NCC was considered as an ECA activity for the Under Graduate Admissions and trials were conducted centrally by the University NCC unit for the first time by the University of Delhi in the session 2016-17. Enrolments of NCC Cadets in Senior Wing and Senior Division in the 45 colleges of the University of Delhi were conducted and approximately 4,500 cadets were enrolled.

NCC cadets actively participated in various University level activities like Foundation day, University Convocation, Ambassador Lecture Series, Alumni Lecture Series, Thai delegation, Road Safety Programme, Election Commission of India - SVEEP College Campus Ambassadors etc.

NCC cadets also actively participated in Swachh Bharat Abhiyaan, Ekta Diwas, Basic Leadership Camp, Army Attachment Camp, Combined Annual Training Camp, Vayu Sainik Camp, Thal Sainik Camp, Nav Ssainik Camp, Special National Integration Camp, Pre-Republic Day Camps, Republic Day Camp, CM Rally, PM Rally, Amar Jawan Jyoti, National Integration Camp, Youth Exchange Programme etc organised by NCC Directorate.

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## NATIONAL SERVICE SCHEME

In order to promote the spirit of selfless community service in the volunteers, a variety of programmes were organized under the aegis of the NSS Centre by 62 College Units in the session 2016-2017. The concept of Volunteers Work Diary was introduced and made mandatory in the colleges of University of Delhi. Proper monitoring of NSS activities in the colleges would be ensured through this mechanism.

**International Day of Yoga** (21 June, 2016): International Day of Yoga was observed by the NSS Centre and its sub units in colleges of the University of Delhi. Services of Yoga Instructor were rendered to volunteers. Mass Yoga session was organised by following common Yoga Protocol. Importance of Yoga was briefed to the volunteers. Best yoga demonstration was Judged and acknowledged by the NSS Centre.

**Swachhta Pakhwara** (16 Aug., 2016 to 1 Sept., 2016): Swachhta Pakhwara was observed by organising a series of activities like Seminars, cleanliness in adopted area, awareness and visit to welfare agencies.

**Tiranga March** (22 Aug., 2016): Tiranga March was conducted during celebrations of Independence Day fortnight. To mark this celebration, volunteers of different colleges came together carrying the National Flag to spread the message of solidarity.

**Celebration of NSS Day** (24 Sept., 2016): NSS Day was celebrated with the theme 'Ill-effects of Drug Addiction' (substance abuse). Street plays, awareness rally and slogan writing competition was organised in NSS sub units.

**Training for Enrolment of Youth Electoral** (29 Sept., 2016): In collaboration with the Chief Election Commission, Delhi training programme for NSS volunteers on 'Enrolment of Youth Electoral' was organised by NSS Centre. Graffiti was organised in the colleges during this campaign.

**Rashtriya Ekta Saptah** (31 Oct., 2016 to 6 Nov., 2016): To honour the memory of Sardar Vallabhai Patel, 'Rashtriya Ekta Saptah' was celebrated from 31 Oct., to 6 Nov., 2016. Various programmes like taking Pledge of Unity, Unity run, street play, slogan writing contest and essay writing on Relevance & Importance of Sardar Patel in Today's India were organised.

**Pre-Republic Day Parade Camp** (24 Oct., 2016 to 4 Nov., 2016): Pre- Republic Day selection was conducted by the Ministry of Youth Affairs & Sports, Government of India in which twelve NSS volunteers were selected from Acharya Narendra Dev College, Zakir Husain Delhi College, Lakshmibai College, Daulat Ram College, Atma Ram Sanatan Dharma, Shyama Prasad Mukherjee College, Shaheed Rajguru College of Applied Sciences, Mata Sundari College and Gargi College. Pre RD Camp was held in Chandigarh from 24 Oct., to 4 Nov., 2016.

**Constitution Day** (26 Nov., 2016): Constitution Day was observed on the theme Fundamental Duties so that they may be observed in true spirit. A Pledge was taken by volunteers and Faculty members for showing their commitment towards our Fundamental Duties.

**Vitaya Saksharta Abhiyaan** (12 Dec., 2016 to 12 Jan., 2017): NSS Volunteers were part of MHRD Financial Literacy campaign that was launched for promoting digital economy. A number of NSS volunteers were awarded digital notebooks from Minister of Human Resource and Development for their outstanding contribution in this campaign.

**Republic Day Parade** (26 Jan., 2017): After attending RD Parade Camp from 1 - 31 Jan., 2017, two NSS volunteers Mr. Ankit Kumar from Zakir Husain Delhi College and Ms. Sweta from Shaheed Rajguru College of Applied Sciences were part of NSS Contingent at Republic Day Parade 2017.

**National Youth Day** (12 Jan., 2017): This year, National Youth Day was celebrated on the theme 'Digital Economy.' NSS volunteers mobilized masses for various modes of Digital payments.

**National Youth Festival** (12 - 16 Jan., 2017): Ministry of Youth Affairs & Sports, Government of India organised National Youth Festival at Rohtak, Haryana. Ten NSS Volunteers from various colleges of University of Delhi participated and also took part in Youth Convention and Suvichar during Youth Festival.

**National Voters Day** (25 Jan., 2017): In order to strengthen the Democratic norms in the volunteers National Voters Day was celebrated. A pledge was taken by the volunteers to uphold the spirit of democratic tradition of our country.

**National Youth Forum on Drug Use Prevention** (18 Feb., 2017): NSS Volunteers from various colleges participated in National Youth Forum on Drug Use Prevention organised by Society for Promotion of Youth & Masses (SPYM) at Vishwa Yuvak Kendra.

**World Water Day** (22 March, 2017): In order to promote awareness on water crisis and for sustainable management of freshwater resources Water Day was celebrated. A pledge was taken by the volunteers in their respective colleges to conserve water.

#### **SVEEP College Campus Ambassador**

Appointment of SVEEP (Systematic Voters Education and Electoral Participation) College Campus Ambassadors. Two volunteers from each college were nominated as SCCA to coordinate programmes/activities related to the Election Commission of India during 2016-2017 in coordination with the Chief Election Office, Delhi and the NSS Centre, DU.

#### **Workshop on Disaster Preparedness**

Workshop on Disaster Preparedness was conducted during 2016-17 at JMC, Bharati College, Bhim Rao Ambedkar College, Kalindi College, Lakshmibai College, Lady Shri Ram College for Women, Maitreyi College, Mata Sundari



College, Ramanujan College, Swami Shradhanand College and Zakir Husain Delhi College (Evening). The main focus of workshop was to empower Volunteers for Disaster Management.

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## NON-COLLEGIATE WOMEN'S EDUCATION BOARD

NCWEB was established in September 1944 under DU Act 1943. The board facilitates the students to take part in some examinations without attending the regular classes. NCWEB emerged as an important academic option for the female students. With the academic session 2016-17, the board introduced 12 more new teaching centres for UG courses with due permissions of the Competent Authority of the Delhi University. Board had started with three students and at present catering the need of approx. 25,000 students. They are studying UG courses in 25 DU teaching centres. These centres are within Delhi area, fulfilling the academic needs of the students. Apart from UG centres one PG centre is situated in Tutorial Building, Arts Faculty. There are 13265 students in B.A.(Part I, II and III), 8424 in B.Com (Part I, II & III) and approx. 800 in PG course Part II & IV). 700 guest lecturers were appointed for this purpose. Details are as under:

For PG students 48 Associate Professors/Assistant Professors had been appointed as per the recommendation of their Head of the Departments.

The students were given opportunities to participate in debate, creative writing competition in their respective teaching centres within the fifty days of short teaching span of NCWEB teaching. Cultural activities had also been provided to enable them to experience college life. several inter-centre and cultural activities were conducted. The glimpse of all these activities had been seen in the annual functions of the board and teaching centres. NCWEB e-magazine updated every year comprises of various articles and creative writings of 25 teaching centres.

Pass percentage of UG courses are as under:

Course	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
B.A.(Prog.)	86.25%	83.50%	85.33%
B.Com	84.18%	80.00%	82.47%

The board facilitated the UG students of 25 teaching centres who secured first 3 positions. Also facilitated 20 students and 270 students in the year 2016-17 who secured 100% & 90% marks in BA (Prog.)/B.Com in a subject respectively and 42 students from M.A. secured 75% marks with a certificate.

The committee provided financial aid to 1,062 needy students out of 1,085 students who had applied for it at the rate of Rs. 3000/- per students. Around 549 books (free of cost) was provided to the students during this year. In the direction to achieve a new horizon to the women's education, the Board is taking every step to reach its goal.

### Teaching Centres of NCWEB

1. Aditi Mahavidyalaya
2. Aryabhatta College
3. Bhagini Nivedita College
4. Bharati College
5. College Of Vocational Studies
6. Dr. Bhimrao Ambedkar College
7. Hansraj College
8. Janaki Devi Memorial College
9. Jesus & Mary College
10. Kalindi College

11. Keshav Mahavidyalaya
12. Lakshmbai College
13. Maharaja Agrasen College
14. Maitreyi College
15. Mata Sundri College
16. Miranda House
17. Moti Lal Nehru College
18. PGDAV College
19. Rajdhani College
20. Ramanujan College
21. Satyawati College (E)
22. SGGSC Of Commerce
23. Sri Aurobindo College
24. SPM College
25. Vivekananda College
26. PG Teaching Centre

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## ALUMNI AFFAIRS

### Achievements and Innovations

Historic highest-ever alumnus donation, Global QS Alumni Rank 21 in 500 worldwide, trendsetting landmark events, pioneering programmes and enlarged Alumni-in-Need services across four continents under the continued guidance of Adviser, Prof. Sydney R. Rebeiro has made the University Alumni organisation a meaningful, fulfilling DU – Alumni Dynamic.

The year witnessed the highest-ever single donation to the University of Delhi since inception in 1922 by US – based alumnus, Dr. Madan Gopal Seth, who provided a record Rs. 3 Crore Endowment towards indepth, intensive research. This surpassed the USD 85000 (+ USD 15000) Endowments provided by alumnus Dr. Ashit and Ms. Jean Ganguly, US-based techno-scientists in 1999 .

In yet another memorable First, DU Alumni entered the global Top 25 of the QS World University Rankings 2018 Edition, London engaging over 70,000 academics, 40,000 employers responses and 4,300 HE institutions globally. DU Alumni scored a remarkable 96. 6% and is placed at Global Rank 21 among 500 ultra-elite institutions worldwide.

An innovative idea by Vice Chancellor Prof, Yogesh Kumar Tyagi lent Annual Convocation on 19 Nov., 2016, a distinctive quality. It witnessed the first time participation of 16 eminent alumni in the Academic Procession and Alumnus, renowned Civil Laws Scholar, Professor Ved P. Nanda was Chief Guest, while a host of distinguished alumni also sent their greetings and blessings to the young graduates, which included Their Lordships, Justices Madan B. Lokur and Dr. Arjan K Sikri, Supreme Court of India; UPSC 2015 Topper, Ms. Ira Singhal, IAS; District and Sessions Judge DC Anand; VC Professor Jawahar Lal Kaul; Topnotch medicos Dr. Saumitra Rawat *Padma Shri*; Dr. Mahesh Verma *Padma Shri*; and Dr. Rajeev Sood, President Urological Society of India; SAU President Dr Kavita A Sharma; Corporate Leader Surya Kant Jaipuria, Chairman The Jaipuria Group; Ajaypal Singh Banga, President and Global CEO *Master Card*; VC Professor Rajan Saxena NMIMS; world-renowned Corporate Giant Rahul Bajaj; CAG 2009-2013 Vinod Rai, IAS *Retd*; Dr. Alwyn Didar Singh, IAS *Retd*, Sec General FICCI 2012 – 2016 and former Parliamentarian and top bureaucrat N. K. Singh, besides India’s CEC 2008-2010 Navin B Chawla, IAS *Retd*; 6 time Olympian and double gold medallist, Commonwealth / Asian Games, Randhir Singh; and Founder President IATO, Dr Subhash Goyal.

On yet another pioneering initiative ideated by Professor Yogesh K Tyagi, DU Foundation Day 1 May, 2017 was defined by the felicitation of select High Achiever alumni: His Lordship The Hon'ble Justice Sanjay Kishan Kaul, Judge The Supreme Court of India; legendary Union Minister – Parliamentarian and scholar-statesman, Dr Karan Singh; MP *Padma Vibhushan*, writer - Parliamentarian, Dr Swapan Dasgupta; MP, *Padma Bhushan*, mediaperson, Rajat Sharma; *Padma Bhushan*, Ambassador Shiv Shanker Mukherjee; and senior bureaucrat Dr Jayant Prasad.

A milestone in DU – Alumni Dialogics was established with the institution of *Percipience – The DU Eminent Alumni Lecture Series* as conceived by VC, Prof. Yogesh K Tyagi and steered by a Committee – Dr Vanita Tripathi, Dy Dean VCO; Dr Shalini Baxi, Dy Dean Culture; Capt. Dr. Parminder Sehgal, Dy Proctor; JR Mr. R.P. Singh; in creative partnership with Prof. Pami Dua, Dean Academics / Research; with Professor Sydney R. Rebeiro Adviser / Dean Alumni Affairs as Chairman.

The launch of *Percipience 1* was defined by the elevating presence of global cultural icon and alumna Dr. Kapila Vatsyayan, *Padma Vibhushan*, whose inspirational 'Looking Back' 1940s - - - 2017, proved a memorable journey for three generations of teachers, students and alumni who attended.

*Percipience 2* underscored the quintessential Democracy elements of Fundamental Rights qua Fundamental Duties as enshrined in The Constitution of The Republic of India. His Lordship The Hon'ble Dr. Justice Arjan K. Sikri delivered the Lecture, presided over by former Dean and noted scholar Prof. M. P. Singh, Chancellor Central University of Haryana, while VC Prof. Yogesh K Tyagi delivered a lucid, challenging Address, urging scholars and professionals to research a possible *jural correlative* between Fundamental Rights and Fundamental Duties since the two were umbilically linked.

While the DU History project has been initiated by VC, Professor Tyagi, a very special Centenary Dossier of *Centenaries and Jubilees* of DU institutions has been designed and developed.

### **Enriched Alumni Services**

Over 1,800 *alumni - in - need* located in as many as 21 nations have been provided crucial support and guidance and the documents required to help fulfil their citizen-professional advancement.

The DU *Alumni Global Database* has been consolidated at 45,000 *plus* and includes four generations of alumni from across multiple disciplines and vocations.

The DU *Alumni Authors Library* continues to grow and is distinguished by the autographs of alumni-authors and by a capsule summary of the alumna/alumnus' student days with the parent University.

The proposal for an Alumni Advisory Council, AAC has been restructured and submitted for due process.

The rationale, design and programme format to establish The Distinguished Alumni Awards DAAw envisaged as an intercontinental event nerve centred in The Viceregal Lodge / Vice Chancellor Secretariat on Campus has been drafted for appropriate follow through.

**CapitAL** The DU Alumni Newsmagazine has been updated and edition 2/2017 is ready-to-print with innovative designs capturing the history, institutional and celebrity recall and event-landscape of alumni achievements, services and memorabilia.

**eZine "L' affaire Alumni"** किस्सा अलम्नाई का edition 5/2017 in renewed format was uploaded and garnered enthusiastic response from across the globe.

Micro and macro – Connectivity has been increased to cover over 100 Departments, Colleges, SOL and NCWEB through the network of *Core Coordinations* (faculty) and Alumni Representatives *Al Reps*.

Efforts are underway to revive the system of *Alumni Chapters* in various alumni – intensive cities in USA, UK, Canada, the Middle East, Australia, Africa and Europe.

The **Job Portal** geared to alumni employer-and-employee requirements is being advanced at eZine "L' affaire Alumni" edition Five / 2017 and alumni job-givers and job-seekers are encouraged to send in due requisitions, where placement services are provided *gratis*. Fresh membership and renewals of the statutory DU

Alumni Association **DUAA** were carried out within the norms and our 10 elected Alumni Representatives on The DU Court continue to serve: Dr. Anil Sardana, Adv. Michael Dias, Dr. Gauri Kapoor, Adv. Gautam Banerjee, Sidharth Mishra, Hari Shankar Gupta, Surinder Kumar, Sanjeet Kumar Singh, Prof. J. L. Gupta and Prof. Virendra Kumar Agrawal.

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## **UNIVERSITY PRESS**

The University Press has taken various printing jobs, such as printing of degrees, mark sheets, answer books, prospectus, yearly review, annual reports of the University as well as the Academic Council/Executive Council Minutes, printing of examination forms and several other items of the University and its colleges. Besides, binding of various records and registers etc. of the University was also completed.

The Press Advisory Committee (PAC) finalized the empanelment of printers. Accordingly six printers were empanelled with the University Press for different kind of printing jobs.

The number of jobs executed during the financial year 2016-2017 were 522 valued at Rs. 1,90,30,047 and 466 dockets were opened.

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## ACADEMIC CENTRES

### AGRICULTURAL ECONOMICS RESEARCH CENTRE

#### Major Activities and Achievements

The Centre conducted the two research studies – Farmer suicides in Haryana; and An economic analysis of cost and return of off-season vegetables with focus on polyhouse effect in Uttarakhand and submitted its report to the Ministry of Agriculture and Farmers Welfare on 31 March, 2017.

#### Publications

Chandra, S. (2016). Economic evaluation of Badrigad watershed, Uttarakhand. *Indian Journal of Economics and Development*, 12(2), 293-300.

Chandra, S. (2016). A study on sugarcane production and marketing in Meerut district of western Uttar Pradesh. *Agriculture Situation in India*, LXXIII(6), 11-22.

Meena, V.S. & Dagar, V. (2016). Economic impact of integrated watershed development programme in Rajasthan. *Arts Social Science Journal (ASSJ)*, 7(4), 2-6.

#### Research Projects

Ministry of Agriculture & Farmers' Welfare, 2015, *Farmer suicides in Haryana*.

Ministry of Agriculture & Farmers' Welfare, 2015, *An economic analysis of cost and return of off season vegetables with focus on polyhouse effect in Uttarakhand*.

#### Seminar / Conference Presentations

Papiya Ghosh, presented a paper in XXVIth Annual Conference on Contemporary Issues in Development Economics organized by Department of Economics, Jadavpur University, 22-23 Dec., 2016.

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### CENTRE FOR DETECTOR AND RELATED SOFTWARE TECHNOLOGY

#### Major Activities and Achievements

Centre was earlier involved in the major discovery of Higgs Boson in 2012 in the CMS Experiment at CERN, Geneva, Switzerland and in 2015-16 it continued its association with the CMS experiment. Multi-strip Si sensors, which are designed, developed and fabricated in collaboration with BEL, Bengaluru were characterized at KIT, Germany. These are state-of-the-art detectors and are developed almost for the first time in India.

#### Publications

Dalal, R., Jain, G., Bhardwaj, A., & Ranjan, K. (2016). TCAD simulation of low gain avalanche detectors. *Nuclear Instruments and Methods in Physics Research Section A*, 836, 113-121.

Khachatryan, et al. (2017). Search for electroweak production of charginos in final states with two  $\tau$  leptons in pp collisions at  $\sqrt{s}=8$  TeV. *Journal of High Energy Physics*, 1704, 018.

Khachatryan, et al. (2017). Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at  $\sqrt{s}=8$  TeV. *Journal of High Energy Physics*, 1702, 079.

Khachatryan, et al. (2017). Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at  $\sqrt{S}=8$  TeV. *Physics Review D* 95, 052002.

Khachatryan, et al. (2017). Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV. *Physics Review D* 95(9), 092001.

Khachatryan, et al. (2017). Search for anomalous Wtb couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at  $\sqrt{S} = 7$  and 8 TeV. *Journal of High Energy Physics* 1702, 028.

Khachatryan, et al. (2017). Search for high-mass  $Z\gamma$  resonance  $e+e-\gamma$  and  $\mu+\mu-\gamma$  final states in proton-proton collisions at  $\sqrt{S} = 8$  and 13 TeV. *Journal of High Energy Physics*, 1701, 076.

Khachatryan, et al. (2017). Suppression and azimuthal anisotropy of prompt and nonprompt  $J/\Psi$  production in PbPb collisions at  $\sqrt{S_{NN}}=2.76$  TeV. *The European Physical Journal, C* 77 (4), 252.

Khachatryan, et al. (2017). Observation of charge-dependent azimuthal correlations in p-Pb collisions and its implication for the search for the chiral magnetic effect. *Physical Review Letters*, 118 (12), 122301.

Khachatryan, et al. (2017). Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at  $\sqrt{S}= 13$  TeV. *Physics Review D* 95(1), 012011.

Khachatryan, et al. (2017). Search for long-lived charged particles in proton-proton collisions at  $\sqrt{S}= 13$  TeV. *Physics Review D* 94(11), 112004.

Khachatryan, et al. (2017). Inclusive search for supersymmetry using razor variables in pp collisions at  $\sqrt{S}= 13$  TeV. *Physics Review D* 95(1), 012003.

Khachatryan, et al. (2017). Measurement of the WZ production cross section in pp collisions at  $\sqrt{S} = 7$  and 8 TeV and search for anomalous triple gauge couplings at  $\sqrt{S} = 8$  TeV. *The European Physical Journal C* 77 (4), 236.

Khachatryan, et al. (2017). Search for narrow resonances in dilepton mass spectra in proton-proton collisions at  $\sqrt{S} = 13$  TeV and combination with 8 TeV data. *Physics Letters B* 768, 57-80.

Khachatryan, et al. (2017). Measurement of inclusive jet cross sections in pp and PbPb collisions at  $\sqrt{S_{NN}} = 2.76$  TeV. *Physics Review C* 96 (1), 015202.

Khachatryan, et al. (2017). Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at  $\sqrt{S} = 8$  TeV and cross section ratios to 2.76 and 7 TeV. *Journal of High Energy Physics*, 1703, 156.

Khachatryan, et al. (2017). Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV. *Physics Review D* 94(11), 112005.

Khachatryan, et al. (2017). Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. *Physics Letters B* 767, 147-170.

Khachatryan, et al. (2017). Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at  $\sqrt{S_{NN}}=2.76$  TeV. *Journal of High Energy Physics* 1611, 055.

Khachatryan, et al. (2017). The CMS trigger system. *Journal of instrumentation* 12 (1), P01020.

Khachatryan, et al. (2017). Measurement of the total and differential inclusive B+ hadron cross sections in pp collisions at  $\sqrt{S} = 13$  TeV. *Physics Letters, B* 771, 435-456.

Khachatryan, et al. (2017). Measurement of the production cross section of a W boson in association with two b jets in pp collisions at  $\sqrt{S} = 8$  TeV. *The European Physical Journal, C* 77(2), 92.

Khachatryan, et al. (2017). Measurement of the mass of the top quark in decays with a  $J/\Psi$  meson in pp collisions at 8 TeV. *Journal of High Energy Physics*, 1612, 123.

Khachatryan, et al. (2017). Search for new phenomena in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at  $\sqrt{S}=8$  TeV. *Physics Letters, B* 770, 257-267.

Khachatryan, et al. (2017). Measurement of the ZZ production cross section and  $Z \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$  branching fraction in pp collisions at  $\sqrt{S} = 13$  TeV. *Physics Letters, B* 763, 280-303.

Khachatryan, et al. (2017). Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at  $\sqrt{S}=8$  TeV. *Journal of High Energy Physics*, 1611, 147.

Khachatryan, et al. (2017). Measurement of the WZ production cross section in pp collisions at  $\sqrt{S} = 13$  TeV. *Physics Letters, B* 766, 268-290.

Khachatryan, et al. (2017). Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. *Journal of High Energy Physics*, 1612, 083.

Khachatryan, et al. (2017). Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. *Journal of Instrumentation*, 12 (2), P02014.

Khachatryan, et al. (2017). Search for lepton flavor violating decays of the Higgs boson to  $e\tau$  and  $e\mu$  in proton-proton collisions at  $\sqrt{S}=8$  TeV. *Physics Letters, B* 763, 472-500.

Khachatryan, et al. (2017). Observation of the decay  $B^+ \rightarrow \psi(2S)\phi(1020)K^+$  in pp collisions at  $\sqrt{S}=8$  TeV. *Physics Letters, B* 764, 66-86.

Khachatryan, et al. (2017). Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at  $\sqrt{s} = 13$  TeV. *Journal of High Energy Physics*, 1612, 013.

Khachatryan, et al. (2017). Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at  $\sqrt{S}=7$  and 8 TeV. *Physics Review, D* 94(5), 052006.

Khachatryan, et al. (2017). Searches for R-parity-violating supersymmetry in pp collisions at  $\sqrt{S} = 8$  TeV in final states with 0-4 leptons. *Physics Review D* 94(11), 112009.

Khachatryan, et al. (2017). Evidence for collectivity in pp collisions at the LHC. *Physics Letters, B* 765, 193-220.

Khachatryan, et al. (2017). Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at  $\sqrt{S}=8$  TeV. *Journal of High Energy Physics*, 1702, 096.

Khachatryan, et al. (2017). Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at  $\sqrt{S}=8$  and 13 TeV. *Physical Review Letters*, 117(5), 051802.

Khachatryan, et al. (2017). Phenomenological MSSM interpretation of CMS searches in pp collisions at  $\sqrt{S} = 7$  and 8 TeV. *Journal of High Energy Physics*, 1610, 129.

Khachatryan, et al. (2017). Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at  $\sqrt{S}=7$  and 8 TeV. *Journal of High Energy Physics*, 1608, 045.

Khachatryan, et al. (2017). Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at  $\sqrt{S}=8$  TeV using H to WW decays. *Journal of High Energy Physics*, 1703, 032.

Khachatryan, et al. (2017). Search for Dark Matter and supersymmetry with a compressed mass spectrum in the vector boson fusion topology in proton-proton collisions at  $\sqrt{S} = 8$  TeV. *Physical Review Letters*, 118(2), 021802.

Khachatryan, et al. (2017). Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton+ jets final states produced in pp collisions at  $\sqrt{S}=8$  TeV. *Physics Letters B*, 762, 512-534.

Khachatryan, et al. (2017). Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at  $\sqrt{S}=8$  TeV using the  $\alpha_T$  variable. *Physics Letters B*, 767, 403-430.

Khachatryan, et al. (2017). Coherent  $J/\Phi$  photoproduction in ultra-peripheral PbPb collisions at  $\sqrt{S_{NN}} = 2.76$  TeV with the CMS experiment. *Physics Letters B*, 772, 489-511.

Khachatryan, et al. (2017). Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC. *Physics Letters B*, 768, 103-129.

Khachatryan, et al. (2017). Search for supersymmetry in pp collisions at  $\sqrt{S}=13$  TeV in the single-lepton final state using the sum of masses of large-radius jets. *Journal of High Energy Physics*, 1608, 122.

Khachatryan, et al. (2017). Measurement of the double-differential inclusive jet cross section in proton-proton collisions at  $\sqrt{S}=13$  TeV. *The European Physical Journal C*, 76(8), 451.

Khachatryan, et al. (2017). Search for new physics in same-sign dilepton events in proton–proton collisions at  $\sqrt{S} = 13$  TeV. *The European Physical Journal C*, 76(8), 439.

Khachatryan, et al. (2017). Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width. *Journal of High Energy Physics* 1609, 051.

Khachatryan, et al. (2017). Measurement of the integrated and differential  $t\bar{t}$  production cross sections for high- $p_T$  top quarks in pp collisions at  $\sqrt{S} = 8$  TeV. *Physical Review D*, 94(7), 072002.

Khachatryan, et al. (2017). Search for narrow resonances in dijet final states at  $\sqrt{S} = 8$  TeV with the novel CMS technique of data scouting. *Physical Review Letters*, 117(3), 031802.

Khachatryan, et al. (2017). Search for lepton flavour violating decays of heavy resonances and quantum black holes to an  $e\mu$  pair in proton-proton collisions at  $\sqrt{S} = 8$  TeV. *The European Physical Journal C*, 76(6), 317.

Khachatryan, et al. (2017). Evidence for exclusive gamma gamma to  $W^+W^-$  production and constraints on anomalous quartic gauge couplings in pp collisions at  $\sqrt{S}=7$  and 8 TeV. *Journal of High Energy Physics*, 1608, 119.

Khachatryan, et al. (2017). Beam test evaluation of electromagnetic calorimeter modules made from proton-damaged  $PbWO_4$  crystals. *Journal of Instrumentation*, 11(04), P04012.

### Research Projects

DST Major Research Project, 2014-2019, *Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization*, Dr. Kirti Ranjan, Rs. 9.99 Crore.

DST Major Research Project, 2014-2019, *Updating and Operation of Regional WLCG Grid System*, Dr. Kirti Ranjan, Rs. 25.30 Lakhs.

DST Major Research Project, 2015-2018,, Dr. Ashok Kumar, Rs. 23.48 Lakhs.

DST Major Research Project, 2013-2018, *R&D efforts by University groups for INO Project*, Dr. Md. Naimuddin, Rs. 178.41 Lakhs.

### Seminar / Conference Presentation

Ashok Kumar, Talk delivered on Dark Matter Searches at CMS, Blois2016: 28th Rencontres de Blois - Particle Physics and Cosmology, 29 May - 3 June, 2016, Blois (France).

### Inter-Institutional Collaboration

All Research Projects are inter-institutional projects.

### Ph.D. / M.Phil. Awarded

Ph.D – 2

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## CENTRE FOR ENTREPRENEURSHIP AND CAREER ORIENTED PROGRAMME

### Major Achievements and Activities

The Centre has focused on establishing Entrepreneurship Development Cells in different colleges of the University of Delhi this year. Accordingly, a meeting of representatives from various colleges of Delhi University was organized under CECOP at Shaheed Rajguru College of Applied Sciences for Women on 25 May, 2016. The meeting was attended by 31 representatives from 23 colleges expressing their interest in the entrepreneurship programmes.



### **Seminars/ Conferences Organised**

A panel discussion was organized by the E-Cell of Shaheed Rajguru College of Applied Sciences for Women on 9 Jan., 2017 on Job vs. entrepreneurship vs. higher studies.

### **Seminar / Conference Presentation**

Lakshmi Devi (Hon. Director):

Talk on Entrepreneurs and Gender in the technical session.

Talk on Entrepreneurship to students of Bhaskaracharya College of Applied Sciences University of Delhi on 24th March' 2017.

Talk on Entrepreneurship in PGDAV College University of Delhi on 10th Feb' 2017.

Talk on 'From Kitchen to Health' to women in the slums of Delhi under the auspices of an NGO SEWA Bharati in Jan. and Feb. 2017.

Lecture on What is success? to students of Shaheed Rajguru College of Applied Sciences for Women on 7th Feb., 2017.

Talk on Genes top Transgenes to students of by the Botany department of All Saints College, University of Kerala, Trivandrum in July, 2016.

Lecture on Time Management for students of Guru Teg Bahadur Third Centenary Public School Mansarover Garden, Delhi on 5 May, 2016.

### **Other Significant Information**

Invited for The Millennium Alliance programme by FICCI & USAID on 28 Feb., 2017 at FICCI, 1, Federation House, Tansen Marg, New Delhi.

CECOP initiated the Entrepreneurship Development Cell in PGDAV Evening College on the 10 Feb., 2017 and the coordinator was Dr. Sonia.

CECOP initiated an EDP cell under the Placement Cell of Kirori Mal College on 20 Feb., 17. Besides lectures by Entrepreneurs a competition was held on Business plans. Thirteen teams participated and the best three were awarded prizes.

CECOP initiated the EDP cell in Bhaskaracharya College of Applied Sciences on the 24 March, 2017. Two lectures were delivered by Dr. Lakshmi and Professor Palhan motivating them to start the EDP cell. The co-ordinator was Dr. Uma Choudhary.

I-Hub, The Entrepreneurship Development Cell of Shaheed Rajguru College of Applied Sciences for Women, University of Delhi invited the Director CECOP to be a part of Conquest 2017 on 30 March, 2017. It had a number of informative technical session with eminent personalities grace the dais and enlighten the young minds and in the afternoon, a plethora of events circulating around the agenda of entrepreneurship.

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## **CENTRE FOR GENETIC MANIPULATION OF CROP PLANTS**

### **Major Activities and Achievements**

The major activity of the Centre is to undertake research on genetic improvement of oilseed Brassicas through conventional and biotechnological approaches. Major financial supports have come from the DBT in the form of two major projects. The Centre is primarily working on molecular mapping of genomes and genes and molecular breeding in *B. juncea*. In addition, the programme is concentrating on development of hybrids through conventional and transgenic approaches. Some of achievements from the Centre have been two CMS-based hybrids (DMH- and DMH-4) which are under cultivation in the farmers' field. One transgenic hybrid (DMH-11) has been

cleared by the GEAC and awaiting the Govt. of approval for release to the environment. In the programme, several DH mapping populations are being used for mapping different systems. Presently genome sequencing of several important *B. juncea* lines are being done for developing SNP based breeding platform.

### **Publications**

Kajla, S., Mukhopadhyay, A., & Pradhan, A. K. (2017). Development of transgenic *Brassica juncea* lines for reduced 1 seed sinapine content by perturbing phenylpropanoid pathway genes. *PLoS One*, 12(8), e0182747.

Rajarammohan, S., Kumar, A., Gupta, V., Pental, D., Pradhan, A. K., & Kaur, J. (2017). Genetic architecture of resistance to *Alternaria brassicae* in *Arabidopsis thaliana*: QTL Mapping Reveals Two Major Resistance-Confering Loci. *Frontiers in Plant Science*, 8, 260.

Dhaka, N., Mukhopadhyay, A., Paritosh, K., Gupta, V., Pental, D., Pradhan, A. K. (2017). Identification of genic SSRs and construction of a SSR-based linkage map in *Brassica juncea*. *Euphytica*, 213, 15.

He, Z., Wang, L., Harper, A. L., Havlickova, L., Pradhan, A. K., Parkin, I. A., & Bancroft, I. (2017). Extensive homoeologous genome exchanges in allopolyploid crops revealed by mRNAseq-based visualization. *Plant Biotechnology Journal*, 15(5), 594-604.

Dhaka, N., Rout, K., Yadava, S. K., Sodhi, Y. S., Gupta, V., Pental, D., & Pradhan, A. K. (2017). Genetic dissection of seed weight by QTL analysis and detection of allelic variation in Indian and east European gene pool lines of *Brassica juncea*. *Theoretical and Applied Genetics*, 130(2), 293-307.

Sharma, M., Mukhopadhyay, A., Gupta, V., Pental, D., & Pradhan, A. K. (2016). BjuB. CYP79F1 regulates synthesis of propyl fraction of aliphatic glucosinolates in oilseed mustard *Brassica juncea*: functional validation through genetic and transgenic approaches. *PLoS One*, 11(2), e0150060.

### **Research Projects**

DBT, 2016-2021, *DBT-UDSC Partnership Programme on Genetic Manipulation of Brassicas*, Rs. 1187.66 Lakhs

**Faculty Strength** – 06 (Project based)

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## **CENTRE FOR INNOVATION IN INFECTIOUS DISEASE RESEARCH, EDUCATION AND TRAINING**

### **Major Activities and Achievements**

The Centre, CIIDRET, was established under the ordinance XV-A of the University of Delhi in Oct. 2015 with due approvals of the Academic Council and the Executive Council. As per its mandate, it has initiated several activities, which include interaction with college students of science stream to inspire them to take up Research and Innovation as their career. CIIDRET has planned to promote Industry-Academia Interaction through Entrepreneurship Guest Public Lecture Series, which include lectures by Entrepreneurs and the facilitators of Innovation. CIIDRET has been providing state-of-the-art Proteomic and Genomic analytical facilities along with expert advice to scientists from both academia and Industry, and offers consultancy to the Biotech Industry. CIIDRET will soon start hands-on training courses covering different aspects of Genomics and Proteomics in collaboration with Industry Experts under the scheme Continuing Education and Skill Enhancement for Innovation in Biotechnology (CIIDRET-CESEIB).

CIIDRET has also developed reagents for immunochemical detection of Chikungunya Virus (CHIKV) infection; and for developing rapid immunoassays for the detection and confirmation of *M. tuberculosis* and NTMs in growing culture. The process for selecting Industrial partner(s) for co-development has been initiated.

Prof. Vijay K. Chaudhary, Director, CIIDRET is providing support as advisor/consultant to M/s. Yashraj Biotechnology Ltd., Navi Mumbai, from April 1, 2016, for which the CIIDRET received Rs. 5.00 Lakhs.

### **Honours / Distinctions**

Prof. Vijay K. Chaudhary, Director:

Member, Scientific Advisory Committee of Surat Raktadan Kendra and Research Centre, Surat.

Member, Scientific Advisory Committee of M/s Yashraj Biotechnology Ltd., Navi Mumbai.

Member, Expert Committee on TB diagnostics of the Indian Council of Medical Research, New Delhi.

Member, Working Group on TB Diagnostics of India TB Research Consortium (ITRC), of the Indian Council of Medical Research, New Delhi.

Member, Joint Scientific Advisory Committee NJIL&OMD, Agra and NIRT, Chennai.

### **Research Projects**

DBT, Govt. of India has approved *DBT-supported Genomic Facility at University of Delhi South Campus* till 2020 with a total outlay of approx. Rs. 200 Lakhs. This facility includes Sanger's DNA Sequencing using 96- and 16-capillary Applied Biosystems machines, Microarray on Agilent platform and Next Generation Sequencing on MiSeq platform. (PI, Prof. Vijay K. Chaudhary; Co-PI, Dr. Amita Gupta).

DBT, Govt. of India has approved a project *Identification of mycobacterial proteins and novel antigenic epitopes having immunodiagnostic potential and development of reagents for point of care test for tuberculosis* till 2020 with total outlay of approx. Rs. 99 Lakhs with NITRD, New Delhi as the Clinical Collaborator. (PI, Dr. Amita Gupta; Co-PI, Prof. Vijay K. Chaudhary, NITRD Co-PI, Dr. Rohit Sarin).

### **Conference / Workshop Organized**

Organized 2nd National Workshop on Genome Informatics, on March 6-8, 2017 at University of Delhi South Campus, New Delhi. In this, hands-on training was provided in collaboration with M/s Bionivid Technology Private Limited, Bangalore.

### **Seminar / Conferences Presentation**

Vijay K. Chaudhary, Lecture, The Magic of Antibodies under Faculty Development Programme on Recent Advances in Diagnostics and Therapeutics at Department of Biotechnology, Jaypee Institute of Information Technology, NOIDA on July 18, 2016.

Vijay K. Chaudhary, Plenary lecture, The Magic of Antibodies on the occasion of National Science Day at Central University of Haryana, Mahendragarh on Feb. 28, 2017.

### **Other Significant Information**

On 24th Sept. 2016, a group of 25 students of B.Sc. (Analytical Chemistry) along with two teachers from Kirori Mal College visited the CIIDRET. and were apprised of the functioning and applications of various instruments such as 96- and 16-capillary Applied Biosystems DNA sequencing machines, Agilent platform for Microarray, MiSeq platform (Illumina) for Next Generation Sequencing, AKTA Protein purification system, BIACore 3000 for studying Protein interactions, etc. Prof. Vijay K. Chaudhary also delivered a lecture, Why choose Science and Technology as a career? to inspire the young students to take up Research and Innovation as their career.

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## **CENTRE FOR INTER-DISCIPLINARY STUDIES FOR MOUNTAIN AND HILL ENVIRONMENT**

### **Major Activities and Achievements**

Realizing the significant contributions of the Centre in the field of environment impact assessment of power projects and environmental sensitivity studies of river basins, Ministry of Power, Government of India recognized it as the Centre of Excellence in 2001-2002. It was established as an R&D Centre for conducting studies related to issues of environment impact and environment management in the power sector. The Centre has conducted numerous studies related to environment impact assessment and biodiversity conservation across India. The Centre also provides expert advice and consultancy services to various institutions of Government of India, its PSUs and Private sector in the field of environment impact assessment and sustainable development. The Centre has a state-of-the-art infrastructure and vast expertise available in the area of Ecology, Biodiversity Conservation Management, Aquatic Ecology, Remote Sensing and Geographic Information System (GIS). The Centre has played key role in assisting Public and Private sector organizations in pursuing the goal of sustainable development.

The faculty members and Scientists at the Centre are also engaged in full-time teaching programmes of the Department of Environmental Studies and guide research at Ph.D. level at the Centre.

### **Honours / Distinctions**

Prof. Maharaj K. Pandit, Director, Elected Fellow, Indian National Science Academy.

### **Publications**

Bhatt, J. P., Tiwari, S. & Pandit, M. K. (2017). Environmental impact assessment of river valley projects in upper Teeta basin of Eastern Himalaya with special reference to fish conservation: A review. *Impact Assessment and Project Appraisal*. <http://doi.org/10.1080/14615517.20171354642>

Manish, K., Pandit, M.K., Telwala, Y., Nautiyal, D. C., Koh, L. P. & Tiwari, S. (2017). Elevational plant species richness patterns and their drivers across non-endemics, endemics and growth forms in the eastern Himalaya. *Journal of Plant Research*. doi: 10. 1007/s.-10265-017- 0946-0

Nautiyal, D. C. & Gaur, R. D. (2017). Poa L. species in Uttarakhand, India and Keys for their identification. *Taiwania*, 62(1), 75-92.

Pandit, M. K. (2017). *Life in the Himalaya: An Ecosystem at Risk*. (pp. 364.) Harvard University Press.

### **Research Projects**

MOEF & CC, Major Project, 2015-2016, *Cumulative Impact Assessment and Carrying Capacity Study in Upper Reaches of River Ganga in Uttarakhand*, Prof. M.K. Pandit, Rs. 66.00 Lakhs (Rs. 49.50 Lakhs received this financial year)

### **Seminar / Conference Presentation**

Maharaj K. Pandit delivered a Talk on Let a Thousand Gentians Bloom held at Radcliffe Institute for Advanced Study, Harvard University, Harvard, USA on April 8, 2016.

J.P. Bhatt delivered a Talk on Environmental Impact Assessment with special reference to Fish & Fisheries held at National Hydroelectric Power Corporation Ltd, 10-11 Nov., 2016.

Kumar Manish, Talk on How to strengthen and complement the loss and damage mechanism provided under the Paris Agreement: A case study of Madagascar. 2017 South and Southeast Asian Youth Seminar on Climate Change, July 4-5, Ministry of Foreign Affairs, Taipei, Taiwan.

Kumar Manish, Talk on Differential responses of non-native and endemic species to climate change in the Himalaya. 4<sup>th</sup> Indian Biodiversity Congress, March 10-12, 2017. Pondicherry University, Puducherry, India.

Kumar Manish, Talk on Identifying species extinction prone regions due to climate change in the Himalaya. International Conference on Biodiversity: Current Scenario and Future Strategies, Oct. 6-8, 2016. St. Bede's College, Shimla, India.

Kumar Manish, Talk on Impacts of future climate change on the habitat distribution of Rhododendrons in Sikkim Himalaya. 1<sup>st</sup> International Conference on Mountains in the Changing World, Oct. 1-2, 2016. Kathmandu Institute of Applied Sciences, Kathmandu, Nepal.

Kumar Manish, Talk on Inferring diversification and ancestral area reconstruction of floral endemics in the Himalaya. Radcliffe Exploratory Seminar on Earth System Processes and Divergence of the Himalayan Flora, Aug. 24-25, Radcliffe Institute for Advanced Study, Harvard University, USA.

Kumar Manish, Poster presentation, Testing for phylogenetic control in plant species response to climate change in the Himalaya. XIX Commonwealth Forestry Conference, April 3-7, 2016. Forest Research Institute, Dehradun, India (Selected for Best Poster Award)

### **Inter-Institutional Collaboration**

Prof. Maharaj K. Pandit :

Ecological Surveys & River Basin Studies

MOEF & CC,

WAPCOS Limited, Gurgaon

NHPC Limited, Faridabad

THDC Limited, Uttarakhand

### **Faculty Strength**

Permanent – 1

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## **CENTRE FOR PROFESSIONAL DEVELOPMENT IN HIGHER EDUCATION**

### **Major Activities and Achievements**

The Centre (UGC-Human Resource Development Centre) has been tirelessly organizing courses aimed at adding new dimensions to the existing capabilities of universities/college teaching faculty. The present era of technological revolution when classroom teaching has been continuously challenged by availability of innovative electronic gadgets, teachers need to reinvent themselves continuously like never before. This year we conducted four Orientation Programmes (192 participants), five Refresher Courses (183 participants) and six Short Term Courses/Workshops (178 participants) that were attended by university/college teaching faculty from all over the country. Teachers who attended different courses belonged to different gender, spectrum of castes, local and outstation participants besides teachers belonging to VH/PH category. In addition to the above, CPDHE also published three books, this year, with ISBN number in which hundreds of University/college teaching faculty contributed with their articles from different parts of the country.

### **Publications**

Singh, G. (2016). *Evolution of Education System in Bharat*. CPDHE, New Delhi: New Delhi Publishers. ISBN No. 978-93-85503-46-7

Singh, G. (2016). *Education System in Bharat: Challenges and Possibilities*. CPDHE, New Delhi: New Delhi Publishers. ISBN No. 978-93-85503-47-4

Singh, G. (2017). *Indian and Western Aspects of Identity*. CPDHE, New Delhi: Shree Kala Prakashan. ISBN No. 978-93-85329-22-7

Singh, G. (2016). *Indian and Western Knowledge Traditions*. CPDHE, New Delhi: Shivalik Prakashan. ISBN No. 978-93-85144-82-0

Singh, G. (2016). *Dimensions of Higher Education*. CPDHE, New Delhi Publishers, New Delhi. ISBN No. 978-93-85503-19-1

Singh, G. (2016). *Mei tere Vishvas mei hu*. Daimond Books, New Delhi. ISBN No. 978-93-85975-67-7

Singh, G. & Dr. Sharma N. (2016). *Quest for Excellence in Higher Education*. Renu Publishers, New Delhi. ISBN No. 978-93-85502-15-6

Singh, G. & Bharadwaj, P. (2016). *Sufiyana Dil*. Daimond Books, New Delhi. ISBN No. 978-93-85975-66-0

### **Seminars / Conferences Organized**

Organized two-day International Symposium on Peace, People, Possibilities in Kashmir, at JNU, New Delhi from July 29, 2016 to July 30, 2016; Prof. Geeta Singh.

Orientation Programme:

(OR-84) 20/05/2016 – 17/06/2016

(OR-85) 20/05/2016 – 17/06/2016

(OR-86) 25/11/2016 – 23/12/2016

(OR-87) 25/11/2016 – 23/12/2016

Refresher Course:

Contemporary Studies (Natural Sciences, Education, Biological Science, Environmental, Demography & Sociology) (IDC) 07/06/2016 – 27/06/2016

Economics (SRC) 13/10/2016 – 03/11/2016

Global Studies (Social Sciences & Humanities) (IDC) 09/06/2016 – 29/06/2016

Mathematical Science (SRC) 30/08/2016 – 20/09/2016

Physics (SRC) 13/10/2016 – 03/11/2016

Short Term Course:

Academic and Creative Writing – 20/09/2016 – 26/09/2016

Ethics in Higher Education in Teaching & Research – 01/03/2017 – 07/03/2017

Innovative Teaching Methodologies and Use of ICT in Teaching – 20/10/2016-26/10/2016

Languages, Literature & Linguistics – 20/09/2016 – 26/09/2016

Workshop:

Academic Administration 02/03/2017 – 03/02/2017

Spiritual Values and Ethics 01/03/2017 – 03/03/2017

### **Seminar / Conference Presentation**

Geeta Singh, Director:

Paper Presented, Human Rights Education in an ICSSR Sponsored National Seminar on the theme Human Rights Education: Trends and Issues in Contemporary World' held on May 1, 2016 organized by Mohini Devi Goenka Girls' B.Ed College, Ghassu, Lachhmangarh, Sikar, Rajasthan.

Paper Presented, Rural Development Programmes and Human Resource Development in India in a two day International Conference on Rural Development-Prospects and Challenges, Organized by Gaeddu College of Business Studies, Royal University of Bhutan in collaboration with Department of Commerce, Aligarh Muslim University, Aligarh, India at GCBS Campus, Gedu, Bhutan from 3-4 June, 2016.

Inaugural Address as Chief Guest of the IInd National Rashtriya Sammelan on the theme "Nainital-Uttarakhand mei Prithvi: Maulik Mulya evam Vaishvik Sankat" organized by Panchamritam Dham (24.05.2017-25.05.2017).

Two Lectures as resource person in 126th Orientation Course on the theme 'Personality Development and Leadership' at UGC-Human Resource Development Centre, Himachal Pradesh University, Shimla on 12.05.2017.

Two lectures as resource person in 215th Refresher Course in Social Environmental Studies Science on the theme 'Let us move to green cities' at UGC-Human Resource Development Centre, Saurashtra University, Gujarat on 27.1.2017.

Two lectures as resource person in 3 weeks Winter School titled 'Excellence in Higher Education' on the theme 'Ethics and Values in Higher Education' at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on 17.01.2017.

Conducted Open House Discussion as resource person in 215th Refresher Course in Social Environmental Studies Science on the theme 'Environment and Sustainable Development' at UGC-Human Resource Development Centre, Saurashtra University, Gujarat on 28.1.2017.

Two lectures as resource person in 3 weeks Winter School titled 'Excellence in Higher Education' on the theme 'Leadership in Higher Education (Case Study)' at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on 16.01.2017.

Two lectures as resource person in 113th Orientation Course on the theme 'Leadership and Personality Development' at UGC-Human Resource Development Centre, Saurashtra University, Gujarat on 03.10.2016.

Two lectures as resource person in 213th Refresher Course in Social Science on 'Micro-teaching' at UGC-Human Resource Development Centre, Saurashtra University, Gujarat on 03.10.2016.

Two lectures as resource person in 213th Refresher Course on 'Micro-teaching' at UGC-Human Resource Development Centre, Saurashtra University, Gujarat, on 04.10.2016

Chaired an Academic Session in a 2 days National Women Historian's Seminar on "*Ithihas Drishti, Ithihas Lekhan Evam Ithihas ke Strot*" organized by Department of History, BHU, Varanasi, and Akhil Bhartiya Ithihas Sanklan Yojna, New Delhi, held in BHU, Varanasi from 20-21 Aug. 2016.

Two on Indian Education through Ages –Session II in a Faculty Development Programme organized by Delhi College of Vocational Studies & Research, Delhi. 18<sup>th</sup> Aug. 2010.

Two lectures as resource person in 117th Orientation Course on the theme 'Managing Stress' and 'Personality Development' at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on 24.06.2016.

Two lectures as resource person in 117th Orientation Course on the theme 'Indian Higher Education' and 'Role of Teachers in Contemporary times' at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on 23.06.2016.

Two lectures as resource person in UGC-Human Resource Development Centre, AMU, Aligarh on 06.6.2016. as part of Centre for Academic Leadership and Education Management Project of "Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching Development, Higher Education Unit, Govt. of India, New Delhi.

Chaired as a Speaker in a Technical Session on 'Poverty Reduction' in a two day International Conference on 'Rural Development-Prospects and Challenges', Organized by Gaeddu College of Business Studies, Royal University of Bhutan in collaboration with Department of Commerce, Aligarh Muslim University, Aligarh, India at GCBS Campus, Gedu Bhutan from 03.06.2016-04.06.2016.

Two lectures as resource person in an Orientation Course on the theme 'Towards becoming an effective Leader' at UGC-Human Resource Development Centre, Devi Ahilya Vishwavidyalaya, Indore on 09.05.2016.

Two lectures as resource person in 71st Orientation Course on the theme 'Need of Orientation in Higher Education' at UGC-Human Resource Development Centre, University of Kashmir, Srinagar on 02.5.2016.

### **Other Significant Information**

Geeta Singh, Participated in the National Consultation on Revised Accreditation Framework organized by NAAC, at India Habitat Centre, Lodhi Road, New Delhi on April 25, 2017; and invited as Chief Guest for the Annual Function of Hansraj College (NCWEB), University of Delhi on 18 March, 2017.

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## CENTRE FOR SCIENCE EDUCATION AND COMMUNICATION

### Major Activities and Achievements

The Centre promotes a wider interest in science and scientific issues through all means of communication. In order to further the changing relationship between society and academia, the objectives of the Centre were broadened to empower the youth by inculcating a culture of innovation and entrepreneurship into University education through skill initiatives, provide solutions to challenges of society through interdisciplinary research efforts of the University and forge linkages between academia and industry. All initiatives are undertaken under the Inspired Teachers Network and Innovation Club of the University. The Centre is in the process of collaborating with NISCAIR, Vigyan Prasar, Genotypic Technologies, Bangalore and EDII, Ahmedabad. A Skill Training Programme in Computational Biology at CSEC is being funded by DBT and A Science Media Research Lab will be established shortly at the Centre.

### Honours / Distinctions

Dr. Deepika Bhaskar, Coordinator:

Teacher Excellence Award, presented on 10 Sept., 2016 for outstanding contribution in the field of Education.

Nominated to Rashtrapati Bhawan for Meet of National Innovation Clubs, 08 March, 2017.

Nominated by DST to Indian Science Congress, Science Communication Delhi Chapter

Nominated by Vigyan Prasar as Jury member for India International Science Film Festival, 2017

### Publications

Bhaskar, D., Divyadarshan, C., Ameya A., Kirti, K., Dorje, D. (2017). *VEINS: An Impact Analysis of DU Innovation Projects*. Delhi: University of Delhi.

Bhaskar, D. (2016). *Translational approaches and challenges for personalized cancer*. In Proceedings of International Conference on Innovative Research in Biomedical Engineering, Cancer Biology, Stem Cells, Bioinformatics and Applied Biotechnology, 19 Nov., 2016, JNU, New Delhi.

Bhaskar, D. (2016). Academic entrepreneurship – linking skills to higher education. *Delhi University Journal of Undergraduate Research and Innovation*, 2(2), 9-16.

### Faculty Members serving as Editor(s)/Members of Editorial Board

Managing Editor, *The Delhi University Journal of Undergraduate Research and Innovation*, Volume I Issue I, II, III; Volume 2, Issue I, II.

### Research Projects

DBT, 2017, *Post Graduate Diploma/Certificate Programme for Skill Development in Computational Biology*, Rs. 35 Lakhs equipment grant sanctioned.

R & D Grant, 2016, *Genome Technologies for Personalized Cancer Medicine*, Rs. 3 Lakhs.

### Seminars/Workshops Organized

Summer Training in Innovation and Entrepreneurship for students, 21 June - 11 July, 2016. (36 students were trained).

Summer Training in Laboratory Research, 16 June - 15 July, 2016. (83 students received research exposure and training in 65 laboratories).

Faculty Training Programme in Research Project Management, 19 July 2016, 80 college teachers attended the Programme conducted by experts from DST, ICMR, NSTEDB etc.



Training the Trainers-IPR Workshop conducted with IPR Chair at Ramjas College, 21-22 Aug., 2016.

Hands-on Training in Next Generation Sequencing with Genotypic Technologies, Bangalore, 30 Sept.- 01 Oct., 2016, 36 participants who were faculty members, post-doctoral, doctoral and post graduate students benefitted from the training.

Skill Enhancement Programme for prospective Women Entrepreneurs, 11-16 Oct. 2016, 21 participants benefitted from the Programme.

Interaction Day with Budding Entrepreneurs, 4 Nov., 2016, Cluster Innovation Centre, University of Delhi, Delhi.

Research Display at the Convocation of University of Delhi, 19 Nov., 2016, 82 Innovation projects have been selected for Poster Presentation at the Research Display.

Training Programme in Science Communication, 20-22 Dec., 2016, 38 faculty members, doctoral, masters and undergraduate students developed skills to communicate Science more effectively in educational arena and society.

Quest 2017- S..cience Quiz Competition for College Science students, Various rounds from 15 Feb. - 29 March, 2017

Training Programme in IT Consultancy 18 March - 29 April, 2017 27 faculty and students from IT background trained.

### **Seminar / Conference Presentation**

Ethical Dilemmas in Scientific Research, IPR Workshop at Ramjas College on 10 and 11 Aug., 2016.

Academic Integrity in Intellectual Exchange and Ethical Dilemmas in Scientific Research, Orientation Programme (OR-86) from 25 Nov. - 23 Dec., 2016, CPDHE, University of Delhi, 19 Dec., 2016.

Manuscript Writing and Research Publication, Training Programme in Science Communication, CSEC, University of Delhi, 20-22 Dec., 2016.

Science Communication and Public Engagement, Training Programme in Science Communication, CSEC, University of Delhi, 20-22 Dec., 2016.

Presenting your Professional Self for Career Enhancement, Workshop on Scientific Writing and Communication, ARSD College, 20-21 Feb., 2017.

Communicating and Disseminating Science- A Guide to Scientific Writing, Workshop on Scientific Writing and Communication, ARSD College, 20-21 Feb., 2017.

Professional Ethics and Academic Integrity in Intellectual Exchange, National Seminar on Academic Writing, Plagiarism and Citation, Department of Education, University of Delhi 25 Feb., 2017.

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## **CLUSTER INNOVATION CENTRE**

### **Major Activities and Achievements**

M.Sc. (Mathematics Education):

Academic year 2016-17 for M.Sc (Mathematics Education) students was spent in varied academic activities. The spread of activities included invited talks, seminar presentations, panel discussion, school internship, research work and two day long academic events under Matrix, Mathematics Education Society @ CIC. Students learned basics of camera handling & film production and developed two short films on issues related to Mathematics Education. Students did internship in schools and learned art of teaching mathematics in realistic classroom situations. Students attended national and international conferences and presented their work. Participation in the conferences gave them exposure about the latest research development in the field of mathematics education.

B.Tech. (IT & MI):

eYantra's Nodal Centre at CIC hosted the regional finals of eYantra Idea Competition (eYIC) on 28th March, 2017. CIC team participated and was selected for the finals. The judging of the event was managed by faculty from IIT-Bombay. The Robotic's Society – Autonomi of CIC organized a Workshop for students to teach

them the basics of programming and robotic in Feb. 2017. The students won first prize in various events organized by SNU, Noida, LNMIIT, Jaipur, IIT Kanpur, DTU and IIT Bombay. The Computer Society – HashInclude of CIC has adopted the methodology of group-based self-learning instead of regular workshops and sessions. To apply this, groups of students interested in the same fields have been formed. Regular meetings of these groups are held in which students come together to learn, discuss ideas and work on projects. These sessions are facilitated by seniors. Nitin Agarwal, a B.Tech (IT and MI) student received the Commonwealth Scholarship to pursue his higher studies at the University of Oxford. Archit Garg, IV year B.Tech (IT and MI) student scored 100 percentile in CAT 2016.

### **Honours / Distinctions**

Dr. Asani Bhaduri:

‘EMBO Travel Grant’ to attend EMBO Practical Course on Non-coding RNA in Infection at Würzburg, Germany (18-24 Sept., 2016)

Certificate of Appreciation, Selected Innovation Projects, University of Delhi, Foundation Day, 1 May, 2016

Dr. Jogeswar S. Purohit selected as Academic Committee member of Vidyarthi Vigyan Manthan, DST, Vigyan Prasar Initiative for 2016-17; and Member of the Junior Science Olympiad National Training Camp team, 2016.

### **Publications**

Bagai, S. & Nishad, C. (2016). Buoyancy induced flow past a non-isothermal axisymmetric body immersed in a porous medium of varying permeability saturated by non-newtonian nanofluids. *Vijnana Bharathi*, 1(2), 141-158.

Bagai, S., Khajuria, T. & Madaan, P. (2016). A mathematical model for the effect of earthquake on high rise buildings of different shapes. *DU Journal of Undergraduate Research and Innovation*, 2(1), 180-188.

Bhetariya, P., Prajapati, M., Bhaduri, A. et al. (2016). Structural analysis of keto synthase domain in Aspergilli and its utility for detection. *Evolutionary Bioinformatics*, 12, 109-119.

Mir, S., & Mishra, N. (2017). Manav vikas ke path par Bharat. *Yojana*, 61(5), 43-46.

Purohit, J.S., Singh, N., Hussain, S.S., & Chaturvedi, M.M. (2017). Attaining epigenetic rejuvenation: Challenges ahead. *Models, Molecules and Mechanisms in Biogerontology*. (Accepted)

Ray, A., Bhaduri, A., Srivastava, N., & Mazumder, S. (2016). Identification of novel signature genes attesting arsenic-induced immune alterations in adult zebrafish (*Danio rerio*). *Journal of Hazardous Materials*, 321, 121-131.

Singh, N., Purohit, J.S., Shanti, S., Singh, A., Panigrahi, A.K., & Chaturvedi, M.M. (2017). Characterization of the N-terminally clipped histone H3 ( $\Delta$  H3) from old chicken and rat liver. *International Journal of Clinical and Experimental Pathology*, 10(5), 5334-5342.

Tyagi, P., Sharma, J., Ranjan, K., Tomar, V., & Tripathi, V. (2016). Trig-Disc: An innovative device for determination of values of trigonometric functions with single measurement. *International Journal of Innovation and Scientific Research*, 27(1), 216-224.

Varshney, D., & Mir, S. (2016). Regional inequalities in the status of women in Jammu and Kashmir: A geographical analysis. *Indian Journal of Regional Science*, XLVIII(2), 111-124.

Vashishth, H., Sharma, J., & Tyagi, P. (2016). Designing of a basic mathematical kit to assist mathematical skill development among children with autism. *International Journal of Advanced Research in Education & Technology*, 3(3), 153-158.

Yadav, N., & Srivastava, T. (2016). A modified convolution back projection algorithm for tomographic image reconstruction with contourlet transform. *International Journal of Computing Science and Mathematics*, 7(2), 156-165.

### **Research Projects**

Start-Up Research Grant (Young Scientists) by SERB, DST, 2016-18, *Identification of virulence factors involved in the infection process of emerging and neglected food-borne pathogen Campylobacter jejuni*, awarded to Dr. Asani Bhaduri.

University of Delhi R&D Grant:

University of Delhi Innovation Projects Scheme, Oct. 2015-Oct. 2016, *Water Scarcity in Delhi: Demand Supply Analysis*, Dr. Saleem Mir, Grant Rs.1.5 Lakh.

University of Delhi Innovation Projects Scheme, 2015-16, *Innovating for Village Transformation: An Exploration of the Hiware Bazar Model of Rural Development*, Dr. Saleem Mir, Co-PI, Dr. Nirmal Yadav, Co-PI, Grant Rs.3.5 Lakh.

The Netherland Initiative for Capacity Development in Higher Education (NICHE), *Development of Early Non-Invasive Diagnostic Intervention for ASD*. Dr. Nirmal Yadav, PI.

DST-SERB-EMR, 2016-17, *Characterization of the H3 specific protease (H3ase) activity of the chicken liver glutamate dehydrogenase (GDH)*, Dr. J.S. Purohit, Grant 62.74 Lakhs.

### **Seminars Organized**

Workshops/Talks by expert/events organized:

Talk by Dr. Kiran Bedi on “Government schemes in Rural India” on 26 April, 2016.

Interaction with Mr. Puneet Gupta, co-founder of SimpliLend on 26 Aug., 2016.

Workshop on Virtual Reality by Dr. Sushil Chandra, Scientist ‘F’, INMAS, DRDO and Devendra Singh, Lead Cloud Architect, Public Sector (Amazon Internet Services Pvt Ltd) on 5 Oct., 2016.

Talk by Ms. Garima Mitra (Co-founder, Treelife Consultancy) on ‘Startup financing, Company Incorporation and Legalities’ on 21 Oct., 2016.

Workshop on ‘Entrepreneurship Basics and Ideation’ conducted by Mr. Puneet Raman, Founder and Director of Prowisdom Growth Pvt. Ltd. on 22 Feb., 2017.

Talk on ‘Building Inclusiveness in PBL: Challenges and Outcomes’ by Prof. Kavi Arya, IIT Bombay on 28th March, 2017

Successful inception, co-ordination and completion of the first ‘Summer-Internship’ of Cluster Innovation Centre held in June-July 2016, where 40 students from different institutes interned.

A Talk by Prof. Patrick Das Gupta on “India in Space” on the occasion of Dr. Vikram Sarabhai's birthday on 11th Aug., 2016

M.Sc. (Mathematics Education):

Three sessions of 2 hour each were conducted by Ms. Simrat Gulati, (an expert in Media and Advertisement) on ‘Using the skills of communication in the world of Education’ on 31 Aug., 12 Sept. and 25 Sept. 2016.

Dr. M. Rajendran (Assistant Professor, Department of Education, University of Delhi) gave a talk on Sampling in Educational Research on 30 Aug. 2016.

Prof. Ramanujan (Prof. in Mathematics, IIMSc Chennai) conducted three hour long interactive session on Nature of Mathematics on 30 Sept. 2016.

A Panel Discussion was organized on Road from vision to practice: A closer look into Math classroom at Cluster Innovation Centre, University of Delhi on 30 Sept.

Two day long workshop on 'Design Thinking and Product Prototyping, for MME students was organized on 29 Sept. and 1 Oct., 2016.

A Talk by Prof. Usha Sharma (Professor in Education, NCERT) was organized on Language, Mathematics and Technology on 17 April, 2017.

Three sessions of workshop on Creating learning resources using open source software, were conducted by Ms. Rashmi Kathuria (Mathematics Senior Teacher at Kulachi Hansraj Model School, Ashok Vihar and National Best e-teacher award winner) was held from 1-6 March, 2017.

Two hour duration lecture by Dr. Veena Kapur (Associate Professor, Department of Education, Shyama Prasad Mukherji College, University of Delhi) on Understanding language of Mathematics with reference to common language, on 24 March, 2017.

Two sessions of 3 hour workshop were conducted by Mr. Gaurav Ramanan (CEO, Rcrop) on learning ICT skills for Mathematics Teaching on 24-25 April, 2017.

Industry Linkage Meet in Education Innovation (Technology & Resources) was organized at Cluster Innovation Centre on 28 March, 2017 where representatives from the companies/organizations working in the field of education/ mathematics interacted with students.

Inter college Mathematics Education Academic Event, Matrix 1.1 was organized on 29-20 March, 2017 where more than 200 students from different various colleges participated in various competitions.

### **Seminar / Conference Presentation**

Ayush Shukla, Dhiraj Kumar, & Asani Bhaduri, Poster presented at India International Science Festival (IISF) on Science Communications: Bridging the Gap between Science and Society, Dec. 7-11, 2016.

J. S. Purohit, Experiments in Science education for school teachers, Akal University, Bathinda, Punjab Feb., 2017

Kaushik, M., Sonia, Tyagi, P., & Kukreti, S. (2016). Multiple dimensions of functional relevance of Genosensors. International Conference on Technologically Advanced Materials (ICTAM), I-120, 77-78, Nov. 7-11, 2016, University of Delhi, Delhi.

Poster Presentation “Urban Infrastructure - Water Supply Management” at National Conference on Making Cities Resilient: Post Habitat III, held on Feb. 03 & 04, 2017 at the University of Delhi, India. (Awarded Best Poster Certificate & Prize)

Poster Presentation Innovating for Village Transformation: An Exploration of the Hiware Bazar Model of Rural Development at Research Display at the Convocation Ceremony, held on 19th Nov., 2016, University of Delhi. (Awarded Best Poster Certificate)

Presented Spirituality as a Panacea to Ecological Crisis in Kashmir Valley, India at the 3rd ISA Forum of Sociology on The Futures We Want: Global Sociology and the Struggles for a Better World, held from July 10-14, 2016 at Universitat Wien, Vienna, Austria.

Oral presentation selected for ‘Young Scientist’ category of 57th Association of Microbiologists of India International Conference Microbes and Biosphere: What’s New What’s Next, Guwahati, Nov 24-27, 2016.

Oral and poster presentation at EMBO Practical Course ‘Non-coding RNA in infection’ Würzburg, Germany, Sept. 18–24, 2016

B.A. Honours (Humanities & Social Sciences):

Two lectures delivered at IITTM Noida for Bachelor of Business Administration (BBA-Tourism), on 21<sup>st</sup> Feb. 2017. (Topic: Atmospheric Processes and Climate)

Two lectures delivered (through videoconferencing) at Don Bosco College, Golaghat, Assam for Bachelor of Arts (Sociology), on 7<sup>th</sup> Feb. 2017. (Topics: Lecture 1: Geo-physical Characteristics of India; Lecture 2: Demographic Structure of Indian Society)

Four lectures delivered at IITTM Noida for Regional Level Guide Training Programme (2016), sponsored by Ministry of Tourism, Govt. of India, Nov. 16, 2016. (Topic: Tourism Products of Jammu and Kashmir)

Four lectures delivered at IITTM Noida for Regional Level Guide Training Programme (2016), sponsored by Ministry of Tourism, Govt. of India, Oct. 05, 2016. (Topic: Geography & Tourism)

### **Other Inter-Institutional Collaborations**

B.Tech. (IT & MI):

IIT Bombay: North Zone nodal centre of e-Yantra at CIC with colleges of Delhi as members to promote Robotics education and research.

Three students from IUST, Jammu & Kashmir, completed their internship under Prof Shobha Bagai in Sept., 2016.

### **Placement Details**

M.Sc. (Mathematics Education): Placement - 60%; Higher Education/Courses - 20%; Others - 20%.

B.Tech. (IT &MI): Placement - 19 (50%); Higher Education/Courses - 10 (26.3%); Others - 9 (23.6%).

### **Faculty Strength**

Permanent – 21

### **Other Significant Information**

Dr. Asani Bhaduri was invited to be part of Google Plus Create India where one of his photographic collections *Birds of India* has over 65,000 followers.

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## **COMPUTER CENTRE**

### **Major Activities and Achievements**

During the last one year, Delhi University Computer Centre (DUCC) continued to strengthen ICT infrastructure and services at University of Delhi. As an epicentre of all the IT related resources, DUCC served the Internet, Datacentre, software and other requirements of the University. Network was planned and maintained to ensure maximum availability of network and services running on it. All the associated colleges continue to use Authentication Services to facilitate faculty members and students to use Internet Services in compliance with Department of Telecommunications guidelines. Wi-Fi system installed at colleges enables internet access to all students across a variety of devices like laptop, smart phones, tablets etc. The Wi-Fi facility at colleges has enabled the students to access internet provided by the University and share the knowledge among them.

Apart from day-to-day activities related to Network, website, training etc., various new initiatives were taken by Delhi University Computer Centre to meet the current requirement of the University ICT. Some major projects currently running and maintained by DUCC and new initiatives are as follows:

Undergraduate Admissions (Merit Based) 2017-18:

DUCC was entrusted with the responsibility of developing the online Registration Portal for UG Admissions (2017-18) including the college portal for admissions. DUCC successfully implemented the same within a limited period. The salient features of the UG Admission portal are:

- More than 3 Lakh applicants registered successfully on Admission Portal.
- More than 2.2 Lakh applicants successfully paid the Registration Fee.
- More than 1 Lakh transaction handled of applicants who paid the admission fee.
- Whole setup was designed as per best practices, in such a way that all resources were fully utilized and hardly any downtime was observed.
- The portal was fully operational even on peak loads.
- The portal was accessible even from outside DU Network.
- Sports category evaluation was fully automated.
- Bank Details were taken from Applicants for refund purposes.
- Female Applicants from Delhi were automatically registered for NCWEB if they selected B.A. (Programme) or B.Com in regular stream.
- No charges were taken from applicant if registration fee is paid through Net banking or Debit Card.
- Minimum size of the photograph, signature and documents was prescribed to ensure clarity of uploaded documents.
- Admission fee of the applicant was adjusted if he/she withdrawn from one college and took admission in other college.
- All the payments made by the Applicant were shown on the Dashboard of Applicant.
- Executive Summary was provided to each college for finalizing the cut off.
- Admission summary (Course Wise, Category Wise, cut off wise) was provided to college on its dashboard for ready reference.

- Appropriate alerts were generated if the applicant was approved in some college and other college tries to admit him/her.
- Cut offs were taken online from colleges.
- Cut offs were approved by Registrar's office online.
- All NCWEB admissions were carried out online under the admission policy framework of NCWEB.
- API was developed for Minority Colleges to verify if the fee was paid by applicant on the admission portal.

#### Bandwidth of 10 Gbps:

The bandwidth utilization at both North & South Campus and associated colleges was utilized to its full capacity. The National Knowledge Network (NKN) continued to provide 10 Gbps bandwidth at was requested to accommodate the additional bandwidth requirements. The same resulted in increase of bandwidth from 2 Gbps to 10 Gbps at North Campus. University of Delhi is among the highest utilizer of NKN resources across the country. The increase in bandwidth at South Campus will also be taken up with NKN in near future.

#### Campus wide Wi-Fi at both North and South Campuses with AAA:

Campus-wide Wi-Fi was successfully launched and running across both North and South Campus. The service is available to faculty, student and staff of the University with individual login and password. The Wi-Fi setup has been built to have Authentication, Authorization, and Accounting (AAA) at individual internet user level. More than 6,000 users already availed the Campus Wi-Fi facility and the count is increasing day by day. Logging of Internet traffic:

As per the guidelines of Department of Telecommunications, any organization needs to maintain the internet traffic logs for the previous 6 months. DUCC continues to use the logging mechanism wherein all the network traffic including the Wi-Fi traffic is being logged for individual users.

#### Wi-Fi Network Monitoring:

In order to proactively monitor the Wi-Fi network, the monitoring hardware is put in place which can help in proactive troubleshooting and help in maintaining maximum uptime for Wi-Fi Network.

#### College Network:

The bandwidth of 100 Mbps continued for all the off campus colleges. In view of the requirement to maintain the maximum uptime of internet services, DUCC has taken strong steps to ensure that the college VPN connectivity should be in ring architecture. In case of disruption of VPN connectivity from one side the network remains available from other side of ring.

#### Co-location server hosting for critical applications:

- Examination
- Online UG Admission
- Online PG admission
- Online Recruitment
- BMS admission
- Virtual Class Room
- Cluster Innovation Centre
- DU Community Radio
- Library Software (St. Stephens College)
- Delhi University Library System
- Braille Library

School of Open learning  
Virtual Learning Environment (VLE)  
Enrollment Data Management System (EDMS)

DUCC carried out live Webcasting and hosted Videos:

Annual Convocation  
President of India Address, Parliament and Policy Making  
Archives of various past events

E-Journals, Websites and Department websites launched:

The Delhi University Journal of Creative Writing – DU Vidha, Volume 2  
<http://journals.du.ac.in/creative/index.html>  
The Delhi University Journal of Undergraduate Research and Innovation  
Volume 1 Issue 1 & Volume 1 Issue 2 <http://journals.du.ac.in/ugresearch/>  
Kabul Project <http://kabulproject.du.ac.in/>  
Department of Botany – <http://botany.du.ac.in>  
NAAC Report – <http://naac.du.ac.in>  
Alumni Edition 2 – <http://alumni.du.ac.in>

SBI Payment Gateway Integrated:

Central Placement Cell – Student Registration Payment  
Postgraduate Fees Collection  
Misc Fee Collection  
Hostel Fee etc.

Campus Wide Software:

DUCC continue to provide the following Network License Software for the use of DU faculty, staff, research scholars, PG & UG Students:

SPSS V 22 + AMOS (Windows 32 bit & 64 bit, Unix and Mac platform)  
Matlab R2014b (Windows 32 bit & 64 bit, Unix and Mac platform)  
SigmaPlot 12 (for Windows Only)  
Jaws Server (for Windows Only)

Training Conducted at DUCC:

DUCC has organized various training programmes for throughout the year for the faculty, staff, Research Scholars, PG students, college system administrator/ technical staff covering all the verticals starting from the basic to advance courses in Excel, Access, SPSS, Mathematica, Matlab, Web Designing which are useful for teaching, research tools, and project taken by the students.

Regular Activities:

Apart from new initiatives, Delhi University Computer Centre (DUCC) designs and administers India's biggest educational IT network feeding more than 15000 devices through wired network and more than 1.5 Lakh users over Wi-Fi for Internet needs as on date through National Knowledge Network (NKN).

DUCC is managing the Delhi University's core IT infrastructure comprising of:

Data Centre with more than 100 active devices including Servers, Core switches, Zonal switches, Routers, UTM devices, Storage etc.

Wired equipment comprising of more than 400 network switches (and increasing)

Wi-Fi equipment comprising of 100+ switches and 500 wireless access points

fiber optic cable network of 43 kilometers laid across both campuses

Servers hosting different applications like College and Department website along with the University main website, DNS, Proxy, Email, Payment Gateway, License and Webcast server.

Colocation servers for Examination, Administration, Finance, School of Open Learning, Library catalogue and Braille software etc.

DUCC is also actively managing and providing Content for the DU website, Technical Support & Regular updates on DU Facebook Page, Web Hosting services for Colleges / Departments / Centres, Faculty Members Web Hosting Services. Apart from Network and Website designing and maintenance, DUCC has successfully provided technical support and hosted videos for events such as Public Lecture series, Studio lectures, Gyanodya, Annual Convocation, Antardhvani etc.

DUCC has more than 1,500 members comprising of PG students, Research Scholars, Faculty members and staff who avail internet and printing services free of cost. The future plans of DUCC include virtually combining the Campus and College Wi-Fi so that users remain connected to internet irrespective of the location. This will ensure seamless connectivity for end users.

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## **D. S. KOTHARI CENTRE FOR SCIENCE, ETHICS AND EDUCATION**

### **Major Activities and Achievement**

D. S. Kothari Centre for Science, Ethics and Education publishes Working Papers every year. This year three were published. The Centre also organizes conferences, seminars and workshops. The D. S. Kothari Memorial Lecture is organized annually. 17 new books were added to the excellent collection of books for students and teachers.

### **Publications**

Sharma, A. (2016). School worlds: an ethnographic study. *Series on the Sociology and Social Anthropology of Education in South Asia*. New Delhi: SAGE Publications.

Thapan, M. (Ed.), *Educating India: J. Krishnamurti and the practice of education*. Accepted for publication with Oxford University Press, New Delhi.

Kakar, S. (2016-17). *Essential Ethics*, III, 9.

Sharma, R. (2016-17). *An Ethnographic Study of Culture/Metaculture in an Alternative School*, I, 24.

Suri, B. (2016-17). *Being Valley: An Ethnographic Study of Processes of an Alternative School*, II, 28.

### **Seminar / Conference Organised**

DS Kothari Memorial Lecture by Professor Krishna Kumar, Dept. of Education (CIE), University of Delhi on *Education and Technology* on Tuesday Aug. 9, 2016 at Delhi School of Economics, University of Delhi. The lecture was chaired and moderated by Professor Nandini Sundar, Dept. of Sociology, Delhi School of Economics, and University of Delhi.

Organised a two day Conference on 19-20 Jan., 2017 on *Values, Ethics and Education* in collaboration with India International Centre, New Delhi.

### **Seminar / Conference Presentation**

Meenakshi Thapan (Co-ordinator):



Invited talk on Doing Ethnography to Research Students at Dept. of Sociology, University of Hyderabad, on July 21, 2017.

Invited talk on Contemporary Relevance of J. Krishnamurti's World-view and Educational Thought at the Centre for Comparative and Global Education, OP Jindal Global University, Sonapat on May 11, 2017.

Invited Talk on Online Teacher Education Programme for Elementary School Teachers to the Expert Group implementing Secular Ethics in Education, chaired by the Dalai Lama, in New Delhi, on 28 April, 2017.

Lecture on Understanding Ethnography and Schooling to Research Students at Dept. of Education (CIE), University of Delhi, on March 29, 2017.

Invited talk on Finding Faith: Western imaginings of spiritual India held under the auspices of FINDAS (Integrated Area Studies on South Asia) at Tokyo University of Foreign Studies, Tokyo, 7 Feb., 2017.

Paper presentation on Spiritual striving among single western women at an international conference on 'Towards the co-existence of various 'single' in global societies' at Tokyo University of Foreign Studies, Tokyo, 2-4 Feb., 2017.

Paper Presentation on Krishnamurti, Values and Ethics in Education at an International Conference on Values and Secular Ethics in Education organized by the DS Kothari Centre for Science, Ethics and Education, and India International Centre on Jan. 19-20, 2017.

Paper presentation on Opening up Emotional Pathways in Education at an International Conference on Regulating and Transforming Emotions held under the auspices of the Science for Monks programme at Sherabling monastery, Bir, Himanchal Pradesh, 11-14 Nov., 2016.

Lectures on Understanding Schooling, Teaching and Classroom Management: Reflections, Processes, Activities and on Values and Ethics in Education" to students at Vasanta College for Women, Rajghat, Varanasi on 29 and 30 July, 2016.

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## **DEVELOPING COUNTRIES RESEARCH CENTRE**

### **Major Activities and Achievements**

The Centre organized about 100 activities in the academic year 2016-17 which is an achievement in itself. Regular Monthly Lectures, Special Lectures, Interactive Discourses, National and International Seminars and Conferences and Workshops have made the Centre a competitive research hub in the discipline of social sciences. The successful completion of two projects *Samiksha*: UP Assembly Election Survey in Feb.-March 2017 with its apt electoral results and *Samiksha*: Delhi Municipal Election, 2017 has strengthened our presence in the academic fora as an emerging psephological centre of the country. Through these projects we were able to impart empirical training to a large number of students across the colleges of University of Delhi in addition to presenting the emerging trends in electoral politics of 21<sup>st</sup> century India. With the support of ICSSR, New Delhi Centre is also venturing into imparting methodological training to young faculty members, researchers and scholars across universities/colleges of the country under Capacity Building Programme.

### **Publications**

DCRC Annual Report 2016-2017.

Four Issues of Quarterly Newsletter Vol.2 No. 1-4.

### **Research Projects**

UGC sanctioned a research project on South Asia under its Area Studies Programme. The project ended on 31 March, 2017, Rs. 51 Lakhs.

### **Seminars/ Lectures Organized**

Seminar on 'Linguistic Impact of Partition' was jointly organised by DCRC and National Council for the Promotion of Sindhi Language on 13 Aug., 2016. Speakers to grace the occasion were Shri Ram Madhavji, General Secretary, BJP; Shri Rahul Dev, Senior editor and Dr. Ravi Tekchandani, Director, NCPSSL. The academic deliberation was extended by Prof. JPS Oberio, Renowned Sociologist; Prof. Alok Bhalla, Jamia Milia Islamia and Dr. Sukrita Paul Kumar, Author and retired faculty, University of Delhi.

The Centre organised 'Grassroots Social Science Colloquium on North East' on 23 March, 2017. The programme was chaired by Prof. Madhu Purnima Kishwar, a renowned social activist and a Visiting Fellow at the Centre. Dr Nandita Saikia from JNU was the Keynote Speaker.

The Centre organized the 11<sup>th</sup> Oliver Tambo Lecture on 23 March, 2017. It was delivered by Dr A Surya Prakash, author, columnist and Chairman, Prasar Bharati on the topic Democracy in India: Our Legislatures & Our Representatives.

The Centre Founder's Day Lecture was held on 20 April, 2017 on the topic 'Kashmir: Present Challenges in Historical Perspective'. It was delivered by renowned author and thinker, Mr.Sushil Pandit. Prof. Sangit K. Ragi, Department of Political Science, University of Delhi chaired the programme and Mr. R. K. Saraf, Senior Official, Government of India was the Guest of Honour on the occasion.

The Centre organises monthly lecture on the first working Friday of every month. In the first monthly lecture, Prof. S M Patnaik, Department of Anthropology, University of Delhi addressed the gathering on 'Anthropology in Conversation with other Disciplines: Reflections on Public Policy' on 8 April, 2016.

Dr Himanshu Roy, an eminent Social Scientist and Fellow, Nehru Memorial Museum and Library, Teen Murti, New Delhi gave second monthly lecture on the topic 'Subaltern Discourse: An Alternative Perspective' on 6 May, 2016.

Third monthly lecture was delivered by Prof Amita Baviskar, Institute of Economic Growth on the theme 'Ecology and Equity: Understanding of Development through the Lens of the Politics of Nature' on 3 June, 2016.

C.Uday Bhaskar, well known Defence Analyst gave the fourth monthly lecture on 'India's Security Challenges' on 1 July, 2016.

The Fifth Monthly Lecture was delivered on 'World of Biotechnology' by Prof. Paramjit Khurana from Department of Plant Molecular Biology, University of Delhi, on 13 July, 2016.

On 2 Sept. 2016, Padma Bhushan Dr Isher Judge Ahluwalia, renowned economist and planner gave a talk on Role of Cities in India's Development. The session was chaired by Prof. Pami Dua, Director, Delhi School of Economics. Mr. Richard Everitte, Director, Education and Society British Council, New Delhi was the Guest of Honour.

Dr Subramanian Swamy, Hon'ble Member of Parliament addressed the gathering on 'Contemporary Issues in Indian Politics' on 26 Sept., 2016. Prof. Sushma Yadav, President, Indian Political Science Association chaired the session.

The Eighth Monthly Lecture was delivered by Professor Pushpesh Pant, an expert on international relations on 'Global Changes: Emerging Challenges for India' on 8 Nov., 2016. The programme was chaired by Professor Shanta N Varma, Department of Political Science, University of Delhi. Mr Gregory Harvey from Australian High Commission graced the occasion as the Guest of Honour.

Leading economist Dr Rajiv Kumar, Senior Fellow, Indian Council for Cultural Relations, New Delhi gave the Ninth Monthly Lecture on Demonetization on 6 Jan., 2017. Prof Kavita Sharma, Department of Commerce, University of Delhi chaired the session.

### **Conferences Organized**

The Centre in collaboration with ICSSR organised Two Day International Conference on 'South Asia in Global Perspective: Issues and Challenges' on 17-18 Feb. 2017. Professor S D Muni, Professor Emeritus, JNU delivered the Keynote address at the inaugural session which was chaired by Shri Shashank, former Foreign Secretary, Government of India. Shri Amrendra Khatua, Director General ICCR was the Chief Guest. Many important dignitaries participated in the Conference including Mr Virendra Gupta, Former Diplomat, Mr Praveen Swami, Journalist, Mr Sudershan Ramachandran, Deputy Director, India Foundation, Dr Hari Bansh Jha from Nepal, Prof. Takashi Kurosaki, Institute of Economic Research, Japan, Prof. Shanta N. Verma, Department of Political Science, University of Delhi, Prof. Veena Kukreja, Department of Political Science, University of Delhi, Prof. Shri Prakash Singh, Department of Political Science, University of Delhi, Prof. Sangeeta Thapiyal, JNU, Prof. Harsh V. Pant,

King's College, London, and Mr Waliur Rahman, Former foreign Secretary, Bangladesh. Mr Shakti Sinha Director Nehru Memorial Museum and Library delivered the Valedictory lecture.

#### **Other Inter-Institutional Collaboration**

The Centre organised an educational exchange cum field work research trip with Janardan Rai Nagar, Rajasthan Vidyapeeth University, Udaipur from 20-23 Nov. 2017 in which ten Fellows of the Centre interacted with the faculty, students, scholars and local community members.

Three Fellows of the Centre participated in a two-day Exchange Programme and visited the hilly area of Tehri Garhwal, Uttarakhand from 25-26 March, 2017 with the support of Development and Research Centre Deen Gaon, Tehri Garhwal, Uttarakhand.

#### **Extension and Outreach Activities**

Centre conducted two election surveys *Samiksha*: UP Assembly Election Survey in Feb.-March, 2017 and *Samiksha*: Delhi Municipal Election, 2017 through which we were able to involve and impart empirical training to a large number of students from across the colleges of University of Delhi.

#### **Faculty Strength**

Honorary – 28

#### **Other Significant Information**

*Samiksha 2017*: UP Assembly Survey: A meticulously planned, scientifically designed and objectively executed psephological research survey was conducted by Centre under the title *Samiksha 2017: UP Election Survey*. With the help of its Students and Scholars, Faculty and Fellows the Centre conducted survey of the legislative assembly of Uttar Pradesh during Feb.-March 2017. With a sample of almost 83,000 voters taken from all constituencies covering all seven phases of the elections in the state, *Samiksha 2017* happened to be one of the first field based election study of any state in the post-independence history of India.

The Centre also organised interactive sessions on various contemporary topics. An interactive discourse was held with Dr Rahul Tripathi from Goa University on the topic 'Towards an Indian International Political Economy: Some Reflections' on 26 May 2016.

An interactive session on 'Climate Change in India' with Dr Ashwini Sharma, Associate Professor, Department of Political Science, Satyawati College, University of Delhi was organized on 24 June 2016.

An interactive session on Competing Sovereignties: State and Non State Actors in Global Governance with Dr. Alana Mann, University of Sydney, Australia was organised on 24 Nov. 2016. Prof. Veena Kukreja from Department of Political Science, University of Delhi chaired the session.

Prof. Brij Maharaj, University of Kwazulu-Natal, South Africa interacted with fellows, faculty, scholars and students on the topic Xenophobia: The New Apartheid in Democratic South Africa on 29 Nov., 2016. Prof. Suresh Kumar, Head Department of African Studies, University of Delhi chaired the session.

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## **DR. B. R. AMBEDKAR CENTRE FOR BIOMEDICAL RESEARCH**

#### **Major Activities and Achievements**

Ever since its inception the Centre's endeavor has been to provide a forum for young minds to explore the nuances of Biomedical Sciences. This year also the faculty and students of ACBR have made the center proud with their achievements. A number of publications have emerged from their laboratories in high impact factor peer reviewed journals. Students also presented their work in various National and International conferences. The centre is proud to inform that Prof. Vani Brahmachari has been elected as the Fellow of the National Academy of Sciences (INSA). As part of our outreach programs for the last fifteen years, ACBR has been conducting Summer

Undergraduate Research Program (SURP) wherein students pursuing B.Sc. are given hands-on training for 8 weeks in various labs at ACBR. A number of eminent scientists from Research Institutes are invited to give lectures to these students. This year ACBR extended this programme by inviting M.Sc. students from Mysore University for a one-day visit. Similarly, Senior Secondary School students were given a one-day hand-on workshop/training in the field of Molecular biology and Microbiology.

### Honours / Distinctions

Prof. Vani Brahmachari, elected as Fellow, National Academy of Sciences (INSA).

Dr. Manisha Yadav, received ICMR International Fellowships for Indian Biomedical Scientist 2017-18 (Young category)

### Publications

Sharma, D., Tiwari, B.K., Mehto, S., Antony, C., Kak, G., Singh, Y., & Natarajan, K. (2016). Suppression of protective responses upon activation of L-type voltage gated calcium channel in macrophages during Mycobacterium bovis BCG infection. *PLoS One*, *11*(10), e0163845.

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### Research Projects

Departmental grant, funded by DST, DU-DST Purse grant phase II, 2014-17, Rs. 1.50 Crores.

Departmental grant, funded by UGC-SAP project, 2014-19, Rs. 1.50 Crores.

DBT, *Deciphering the role of Calcium homeostasis in modulating T cell dynamics during Mycobacterium tuberculosis infection*, K. Natarajan, Rs. 69.62 Lakhs.

DST, 2016-2019, *Understanding the role of SIN3, A global transcription regulator in nongenotoxic stress mediated modulation of gene expression*, Daman Saluja, Rs. 57 Lakhs.

DBT, 2017-2019, *Development of a hand held molecular point-of-care test device for infectious diseases (Indo-Canada Impact project)*, Daman Saluja, Rs. 2.13 Crores.

Study the anticancer effect (s) of Indian Medicinal Plants viz. *Punica granatum*, *Vitis vinifera*, *Carica papaya*, *Embllica officinalis* and *Aloe vera* using *in vitro* model of glioblastoma (Arbuda), Ministry of Health and Family welfare (Department of Ayurveda, Yoga and Naturopathy, Unani, Siddha and homoeopathy (Ayush), Accepted with some modifications in Ayush.

Indo-Sweden Joint Research Project by DST, *Understanding the association between the prevalence of antibiotic resistance and CRISPR repeats in UPEC E. coli causing UTI*, Manisha Yadav.

DBT, Govt. of India, 10 years, since 2006-2012, approved for next plan period 2012-2017 *Creation of Bioinformatics Infrastructure Facility (BIF) at ACBR*, Madhu Chopra, Rs. 50 Lakhs; 2013-14 Rs. 6.40 Lakhs; Rs. 0.60 L 2014-15; 2015-16 Rs. 8.50 Lakhs; 2016-17, Rs. 10 Lakhs.

### Seminars Organized

Eminent scientists from various universities and institutions gave seminars in the Summer Undergraduate Research Programme (SURP), 2017. Prof. Suman Dhar, Special Centre for Molecular Medicine, JNU, gave the Inaugural Lecture. Prof. Yogendra Singh, Department of Zoology DU gave the Valedictory Lecture.

### Conferences Organized

Dr. Madhu Chopra, Organized 7th Workshop on Bio-informatics and Molecular Modeling in Drug Design, at ACBR, March 23-25, 2017.

### **Seminar / Conference Presentation**

K. Natarajan, Invited Speaker, Mumbai Immunology Group Mini-Tuberculosis Symposium. Oct. 13, 2016.

K. Natarajan, Keynote Speaker, Shaheed Rajguru College of Applied Sciences, University of Delhi, Jan. 24, 2017.

Daman Saluja, Invited Speaker at BIT's 5th International Congress of Gynaecology and Obstetrics- 2017 from May 25-27, 2017 at Prague, Czech Republic.

Madhu Chopra, Invited Lecture, Process of Drug Discovery and Development: Inventing drugs through use of Computational methods Drug Design and Development, Bioinformatics and Computational Biology Workshop, at IIT, New Delhi, Oct. 3, 2016.

### **National / International Collaboration**

National:

Dr. Manisha Yadav, collaboration with Safdarjung Hospital, Delhi and PGIMER, Chandigarh.

Dr. Anju Katyal, collaboration with Dr. Jitendra Madan, Department of Pharmaceutics, Chandigarh College of Pharmacy, Mohali, Punjab.

International:

Dr. Anju Katyal collaboration with Prof. Ritu Aneja, Georgia State University, USA.

Dr. Manisha Yadav collaboration with Prof. Niels F Møller, Rigshospital, Copenhagen, Denmark; and Prof. Hughes Diarmaid, Uppsala University, Sweden.

### **Placement Details**

Student placed – 01

### **Extension and Outreach Activities**

Visit by M.Sc. students of Yuvaraja College, Mysore University on 10th Jan., 2017.

Class XII Students from Springdales School, Pusa Road visited ACBR on one day visit. They were shown various instruments for biological research and also made to carry out three experiment techniques (bacterial staining, analysis of genetic mutations in Drosophila, restriction endonuclease activity) of biotechnology.

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 02

### **Faculty Strength**

Permanent – 10,

Adhoc – 2

### **Other Significant Information**

Nominated Member DBT Task force on Infectious Diseases Biology 2010 - till date.

Chairperson, Screening Committee of Twinning R&D programme for North East Region (Basic and Modern Biotechnology) 2016.

Co-Chair, Expert Committee of Twinning R&D programme for North East Region (Basic and Modern Biotechnology) 2016.

Member Research Area panels and Scientific Advisory Committee, National Institute of Immunology 2015-till date.

Member Academic Committee, National Brain Research Centre 2016-till date.

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# INSTITUTE OF INFORMATICS AND COMMUNICATION

## Major Activities and Achievements

The Institute has been instrumental in setting up the University Information Management System (UIMS). Under UIMS, IIC has been developing and managing enterprise applications for online UG and PG admissions, online recruitment for teaching and nonteaching staff, Human Resource Management, Finance Management, Document Management, College Management etc. and currently student life cycle management is being implemented.

The Institute organized various activities such as, Industrial Lecture Series, in which eminent persons visit the institute to deliver specialized lectures on current trends in the IT industry sector. Further students and faculty organized time-to-time Industry-University interaction programme. The faculty actively presented their research work in various platforms like National/ International conferences, workshops. The Placements activity in this year like earlier years has been actively pursued resulting in 40 % placement in the first round. Many top rated IT industries are coming for the campus placement. Industries visiting the Institute this year are Snapdeal, Zillious Solutions, Aricent Technologies, Hughes Systique, QA Info Tech etc.

## Honours / Distinctions

Ms. Neha Rao awarded Capt. Anuj Nayyar Memorial Gold Medal-2016, University of Delhi.

## Publications

Jain, A., & Das, M. K. (2016). Dynamic patterns in processes of science systems: Science academies & their journals – An illustrative example. *Journal of Scientometric Research*, 5(3), 43.

Bhattacharjee, A., & Das, M. K. (2017). Emergent dynamics of spiking neurons with fluctuating threshold. *Communications in Nonlinear Science and Numerical Simulation*, 46, 126-134.

Kumar, M., Kumar, S., Budhiraja, R., Das, M. K., & Singh, S. (2016). Intertwining logistic map and Cellular Automata based color image encryption model. In *IEEE International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT)*, 618-623.

Kumar, M., Kumar, S., Budhiraja, R., Das, M. K., & Singh, S. (2016). Lightweight data security model for IoT applications: A dynamic key approach. In *IEEE International Conference on Internet of Things (iThings) and IEEE Green Computing and Communications (GreenCom) and IEEE Cyber, Physical and Social Computing (CPSCom) and IEEE Smart Data (SmartData)*, 424-428.

Kumar, M., Kumar, S., Budhiraja, R., Das, M. K., & Singh, S. (2017). A cryptographic model based on logistic map and a 3-D matrix. *Journal of Information Security and Applications*, 32, 47-58.

Kumar, M., Kumar, S., Budhiraja, R., Das, M. K., & Singh, S. (2017). A secure and light weight IoT based 12-lead ECG signal acquisition system. *ESBM*, Tunisia.

Kumar, S., Kumar, M., Budhiraja, R., Das, M. K., & Singh, S. (2017). A robust cryptographic model for securing medical information, *ESBM*, Tunisia.

## Research Projects

DU/DST, 2014-2019, *Setting up the Research Infrastructure for Network Architecture and Security, Cyber Security and Forensic*, Rs. 14.3 Lakhs.

K-Grid, 2016-17, *Development of Mobile Application (Apps) Security Standard (MASS)*, Rs.13.56 Lakhs.

## Seminars Organized

Workshop on Complex Systems: Application in Developmental Problems on 20 March, 2017, Bio-Tech Park, University of Delhi South Campus.

Dr. R. Barman, Former Executive Director, RBI India, Rethinking Economics and Economic Statistics.  
Prof. Karmeshu, Department of Computer & Systems Science, JNU, Non linear Models of Social System: Role of Stochasticity.  
Prof. Carlos Gershenson, SENSable City Lab, MA, USA, Improving Urban Mobility with self organization.  
Dr. Ashok Jain & Dr. M.K. Das, IIC UDSC, Complexity Measure of Dynamic Patterns in Research.  
Dr. Aparna Basu, South Asian University, New Delhi, Analysis of Network of Organizations: Application to Societal unrest.  
Dr. Sanjeev Singh, IIC UDSC, Multi parameter monitoring in IoT based health care systems: issues and challenges.

### **Seminar / Conference Presentation**

Envisage' 16, an Annual National Conference on Open Source Technology for the students and faculty members.

### **National / International MoU**

With Indian/Foreign Companies/Industry – 01

### **Placement Details**

Students Placed – 19

Companies visiting campus for recruitment – 05

Students Placed (Off Campus) – 06

Total number and percentage of students placed – 25 & 71.42%

### **Faculty Strength – 03**

### **Other Significant Information**

IIC has been instrumental in providing IT based solution and services to the University for various automation processes, NIC, Govt. of India has approached IIC to organize Hackathon on 12<sup>th</sup> Plan and again organized national level Idea Challenge.

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## **INSTITUTE OF LIFELONG LEARNING**

### **Major Activities and Achievements**

In the period between April, 2016 to March, 2017, ILLL website vle.du.ac.in has been uploaded with the e-content English: 55, Math: 60, Political Science: 65, Commerce: 54 Physic: 02, Zoology: 48, Botany: 20 Total no of e-lessons is 304, 3 video lectures, 426 MCQ were uploaded. E-books where compiled in English 10, Mathematics 14 and were allocated ISBN numbers.

The students of the University of Delhi have been provided free access to the internet, and e-content uploaded on vle.du.ac.in is freely downloadable. The usage of e-content by student can be gleaned from the response of more the 1.81 lakh students who visit the site during the period under discussion.

### **Honours / Distinctions**

Prof. Shormishtha Panja, Director (Interim Charge) ILLL

### **Publications**

Sidney, Spenser and the Royal Reader, Accepted for publication by Cambridge Scholars Publishing, 2017.

Panja, S., & Saraf, B.M. (2016). *Performing Shakespeare in India: Exploring Indianness. Literatures and Cultures*. Los Angeles, London, New Delhi: Sage.

Liu, S. (2016). Intercultural theatre and Shakespeare productions in Asia: India. In *Routledge Handbook of Asian Theatre*, (pp. 504-509), London and New York: Routledge.

Marriage of True Minds by William Shakespeare. *Words of Lasting Interest*. Reader's Digest April, 2016.

### **Research Projects**

NME ICT project from MHRD in six subjects.

### **Seminars Organized**

Ms. Manila Kohli, Fellow English ILLL coordinated video lectures by Prof. Desai, Dr. Swati Pal and Dr. Payal Nagpal and these were recorded for the MOOC on The Renaissance and Shakespeare. 10-hour MOOC for NPTEL (with Manila Kohli) was offered Feb-March 2017. E- lesson on *Untouchable Spring* was uploaded (April 2016).

Interanimation of Word and Image, IHC Photosphere, India Habitat Centre, Dec. 2016.

Capacity Building Workshop for teachers and undergraduate student on 21 June, 2016, Capacity Building Workshop for teachers and undergraduate student on 23 Sept., 2016 in Sciences, Speakers- Dr. Aditya Sexana, Assistant Professor and Dr. Rama Sisodia, Assistant Professor, University of Delhi and former fellows in ILLL.

Capacity Building Workshop for teachers and undergraduate student on 30 Sept., 2016 in Computer Science, Speaker- Fatema Siddiqua, Lecturer Computer Engg. Govt. Polytechnic, Shatrinagar, D Block, Ghaziabad and former technical staff in ILLL.

Capacity Building Workshop for teachers and undergraduate student on 7 Oct., 2016 in History, Speaker- Dr. Archana, and Dr. Amrit Kaur Basra, Associate Professor (former fellow in ILLL), University of Delhi.

Capacity Building Workshop for teachers and undergraduate student on 21 Oct., 2016 in Pol. Science, Speakers- Prof. Sunil Choudhary, Director, DCRC, University of Delhi.

Capacity Building Workshop for teachers and undergraduate student on 28 Oct., 2016 in Mathematics, Speakers- Dr. Varinder Kumar, Assistant Professor, DU and former fellow in ILLL.

Capacity Building Workshop for teachers and undergraduate student on 4 Nov., 2016 in English, Speakers- Prof. Shormishtha Panja, Director, ILLL and Ms. Davinder Mohini Ahuja, Associate Professor, DU.

Capacity Building Workshop for student on 9 Nov., 2016 in Students of Disability, Speakers- Prof. Anil Aneja, DU.

Capacity Building Workshop for foreign student on 11 Nov., 2016 in International Students, Speakers-Dr. Amrit Kaur Basra and Mr. R.K. Vyas, ICT Coordinator.

Computer Awareness Workshop for Non-Collegiate students on 16 and 17 Nov., 2016, Speakers- Mr. R.K. Vyas, ICT Coordinator.

### **Conferences Organized**

Inter-animation of Word and Image, IHC Photosphere, India Habitat Centre, Dec., 2016.

### **Seminar / Conference Presentation**

International Conferences:

*I shall lure you not with my beauty: Gender, Translation and Tagore's Songs. Beyond Postcolonial Hermeneutics: Comparative Perspectives*. International Conference, School of Translation Studies & Training, IGNOU, March 2017.

Plenary Speaker, *Fragile Theorising about Globalisation: Food, Media & MasterChef Australia*, Culinary Roots/Routes, International Conference, University of Delhi, Nov., 2016.

The Gravediggers' Scene in *Hamlet*, World Shakespeare Congress 2016, Stratford upon Avon and London, July-Aug. 2016.

Shormishtha Panja, Invited Lectures:

The Renaissance in Europe: An Introduction to the Intellectual Background, Satyawati College, University of Delhi, Feb., 2017.

Plenary, Shakespeare in India, National Conference on Contextualizing Shakespeare in India, LAD College for Women, Nagpur, Feb., 2017.

Keynote, Shakespeare on the Indian Stage and Screen with special reference to *Haider*, Shakespeare in Indian Literature and Languages, National Conference, Sahitya Akademi, Kolkata, Jan. 2017.

From the murmur of praise to the clamour of adaptation: Shakespeare on the Indian Stage and Screen, Fourth Annual Lecture, Centre for Asian Studies and Political and Business Daily, Odisha, Bhubaneswar, Dec. 2016.

Song, Surveillance and Graveyards: Vishal Bhardwaj's *Haider*, *Hamlet*, Bristol University, UK, July 2016.

Keynote, Shakespeare and Education: Boydell and Bengal, Shakespeare and Education, University of Brighton, UK, April 2016.

Keynote, Shakespeare Forever or For a Day?, Shakespeare 400: Forever and a Day, Bibliothque Alexandrina, Alexandria, Egypt, April 2016.

### **Other Inter-Institutional Collaboration**

Two-day Academic Writing Workshop in collaboration with Regional English Language Office (RELO) of the American Embassy on 21-22 Nov., 2016.

MOOC: 10 hour MOOC on 'The Renaissance and Shakespeare' designed by Prof. Shormishtha Panja and Ms. Manila Kohli offered through NPTEL portal Feb.-March, 2016.

**Faculty Strength – 5**

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## **INTER DISCIPLINARY CENTRE FOR PLANT GENOMICS**

### **Major Activities and Achievements**

Our group had earlier participated in sequencing of the rice genome as part of an international initiative. For the past 10 years, emphasis is more on understanding the function of genes involved in reproductive development and conferring abiotic stress tolerance in rice. We have thus utilized the contrasting cultivars of rice and identified several genes that express differentially when young rice seedlings are exposed to drought stress. A detailed analysis of expression data showed interplay of networks associated with ABA, secondary metabolism and redox status that activate osmotic and detoxification signalling in the tolerant rice cultivars. By co-localization of differentially expressed genes with QTLs from databases, candidate genes were identified including those underlying a major QTL qDTY1.1 and some novel genes OsWRKY51 and OsVP1 that may be providing drought tolerance in rice cultivars and could be of potential significance for marker-assisted breeding.

### **Honours / Distinctions**

Prof. S.K. Sinha Memorial Lecture Award by the Indian Society of Plant Physiologists, in its Annual meeting held at GKVK, Bangalore, in Dec. 2016.

Co-Chair, DST-FIST Committee on Life Sciences from June 2016 onwards.

Member of the Central Board of Secondary Education, New Delhi, as representative of the University of Delhi (from Jan. 03, 2017 to Jan. 2, 2020).

### **Publications**

Agarwal, P., Parida, S. K., Raghuvanshi, S., Kapoor, S., Khurana, P., Khurana, J. P., & Tyagi, A. K. (2016). Rice improvement through genome-based functional analysis and molecular breeding in India. *Rice*, 9(1), 1.

Bhattacharjee, A., Khurana, J.P., & Jain, M. (2016). Characterization of rice homeobox genes, OsHOX22 and OsHOX24, and over-expression of OsHOX24 in transgenic Arabidopsis suggest their role in abiotic stress response. *Frontiers in Plant Science* 7, 627.

Borah, P., Sharma, E., Kaur, A., Chandel, G., Mohapatra, T., Kapoor, S. & Khurana, J.P. (2017). Analysis of the drought-signalling network in two contrasting varieties of rice by employing microarray-based transcriptomics approach. *Scientific Reports*, 7, 42131.

Haritha, B., Krishnan, S. G., Prabhu, K.V., Singh, N.K., Mishra, S., Khurana, J.P., & Singh, A.K. (2016). Alteration in hormonal homeostasis due to disruption of Aux1 gene in Golden Rice® GR2-R event results in inferior agronomic performance. *PLoS One*, 12(1).

Kumar, R., Verma, H., Haider, S., Bajaj, A., Sood, U., Ponnusamy, K., Nagar, S., Negi, R., Shakarad, M., Singh, Y., Khurana, J.P., Gilbert, J., & Lal, R. (2017). Comparative genomic analysis reveals habitat specific gene and regulatory hubs within the genus *Novosphenobium*. *mSystems*, 2(3), e00020-17

### **Research Projects**

DBT, 2015-2020, *Functional Validation of Genes Involved in Regulating Transition to Flowering in Rice*, Prof. J.P. Khurana, Rs. 1.40 Crore.

### **Seminars Organised**

Prof. J.P. Khurana organized 'INSA-TWAS' sponsored plenary lecture, delivered by Prof. Balram Bhargava, from AIIMS, on the occasion of National Science Day held at the University of Delhi South Campus, New Delhi, on Feb. 27, 2017.

### **Seminar / Conference Presentation**

J.P. Khurana:

Invited lecture in the School of Biological Sciences at Indian Institute of Science, Bangalore, in May 2016.

The Dr. Manasi Ram Memorial Lecture, organized by the Department of Botany, Miranda House, University of Delhi, Delhi 110007, on 24th Aug. 2016.

Lecture as Chief Guest during the 'Innovation Conclave' organized by Acharya Narendra Dev College, University of Delhi, on Oct. 25, 2016.

Golden Jubilee Lecture on the occasion of celebration of Golden Jubilee of the 'Plant Physiology and Plant Biochemistry Division' of IARI, New Delhi, in Nov., 2016.

The Prof. S.K. Sinha Memorial Lecture and Chaired a Session during the National Symposium organized by the Indian Society of Plant Physiology and Division of Crop Physiology, UAS, Bangalore, in Dec. 2016.

Invited Lecture in a Symposium on Advances in Human and Molecular Genetics, held at School of Life Sciences, JNU, in Jan. 2017.

Chaired a Session and delivered a Lecture in the International Symposium on "Insight to Plant Biology in the Modern Era" held at Bose Institute, Kolkata, as Chief Guest on the occasion of Bose Institute Centenary Celebrations, from Feb. 8-10, 2017.

Chaired a session and delivered a lecture in the International Symposium on Biological Timing and Health Issues in the 21st century, held at University of Delhi, in Feb., 2017.

Plenary Lecture in the National Symposium on 'Plant Biotechnology: Current Perspectives on Medicinal and Crop Plants, held at CSIR-IICB, Kolkata, from March 3-5, 2017.

Inaugural Lecture at 'Biosparks', a research festival organized by the students of School of Life Sciences, JNU, in March 2017.

### **National / International Collaboration**

One project is Multi-Institutional with seven Institutes and the Coordinating Institution is University of Delhi South Campus, New Delhi.

#### **Faculty Strength – 4**

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### **UNIVERSITY SCIENCE INSTRUMENTATION CENTRE**

#### **Major Activities and Achievements**

A centralized facility with sophisticated analytical instruments is maintained by the University Science Instrumentation Centre for all researchers and faculty members of science departments and constituent colleges of the University of Delhi. The Centre is open six days a week from 9:00 a.m. to 5:30 p.m.

The instruments available are:

- Transmission electron microscope, and sample preparation
- Variable angle and variable wavelength Ellipsometer
- Powder and single crystal X-ray diffractometer.
- 400 MHz Nuclear Magnetic resonance
- Circular Dichroism spectro-polarimeter
- FTIR spectrometer. (FIR, ATR and specular reflectance attachments)
- CHNSO Analyser
- Laser Raman Spectrometer
- DTA-TGA with auto sampler, and DSC
- Fluorescence spectrophotometer
- 600 liter liquid nitrogen storage tank.
- B.E.T. surface area analyzer
- Vibrating sample magnetometer with low temperature attachment
- Novacontrol impedance analyzer.
- Mass spectrometer HR MS)
- SEM and FESEM with EDS,
- Critical point dryer.

#### **Conference Organised**

Three week training for 72 lab staff from DU science Colleges and University departments, 6-27 Feb., 2017.

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### **WOMEN'S STUDIES AND DEVELOPMENT CENTRE**

#### **Major Activities and Achievements**

Women's Studies & Development Centre (WSDC) offered the interdisciplinary Course, *Gender and Society* for Post Graduate Students. WSDC also organized and conducted an International Workshop on *Transnational Feminisms: Issues of Marginalization and Intersectionality* in collaboration with the University of Wisconsin Eau Claire, USA and Indian Institute of Dalit Studies, New Delhi, from Jan. 2 - 16, 2017. In an effort to highlight issues related to gender inequality and the need for participation of men, a panel discussion with eminent

panelists was organized on International Women's Day on 8 March, 2017 in collaboration with the Australian High Commission. This was followed by a play relating to the works of Ismat Chughtai. WSDC also released its book – *Locating Gender in New Middle Class in India*, at IIC on 9 May, 2017. The Centre was involved in conducting field studies related to its major project on the Middle Class in India, these were conducted in Delhi NCR region. An audio visual report in form of a short documentary and a written report have been prepared on the field studies.

### **Honours / Distinctions**

The Centre was given the status of an Advance Study Centre in 2016. The Centre's ongoing research project on *The Emerging Middle Class* is expected to provide major outcomes on the manner in which social changes are affecting social mobility in urban areas.

### **Publications**

Bhatia, M. (Ed.) (2017). *Locating gender in the new middle class in India*. Shimla: India Institute of Advanced Study, Rashtrapati Niwas.

Bhatia, M., & Tara, S. (2017). New meanings of motherhood in globalizing middle class homes in India. *Locating Gender in the New Middle Class in India*, Shimla: India Institute of Advanced Study, Rashtrapati Niwas.

Bhatia, M., & Tewari, R. (2017). Migrant-women at the mall: Understanding empowerment and habitus. *VEETHIKA-An International Interdisciplinary Research Journal*, 43-53.

Tyagi, J. (2016). The question of women's agency: women, work and domesticity in early textual traditions. In Vijaya Ramaswamy (Ed.), *Women and Work* (pp. 65-87). New Delhi: Sage Publishers.

### **Research Projects**

Project is supported by WSDC, *Mall – A Gendered Space*. Dr Manjeet Bhatia (PI), Ridhima Tewari (Co- PI), UGC-CAS Project, *Understanding Change in Gender Relations in the New Middle Class in India*, Dr Manjeet Bhatia (PI).

### **Inter-Institutional Collaboration**

The Centre held a panel discussion on the topic Men Need to Champion the Cause of Women's Equality in collaboration with the Australian High Commission, New Delhi.

The Centre organised International workshop on Transnational Feminism: Issues of Marginalization and Intersectionality in collaboration with University of Wisconsin Eau Claire, USA and Indian Institute of Dalit Studies, New Delhi, 2 - 17 Jan., 2017.

### **Seminar / Conferences Presentation**

Jaya Tyagi, Research Paper presented, The Representation of Women in Puranic Traditions, in Seminar of Gender and Society in Aryabhata College, University of Delhi on 7<sup>th</sup> March, 2017.

Jaya Tyagi, Research Paper presented, Ideology Related to the State in Ancient India, in Hindu College, University of Delhi, 3rd Feb., 2017.

Jaya Tyagi, Research Paper presented, Gender and Religion in Ancient India, in International Seminar on Transnational Feminisms organized by WSDC in Collaboration of University of Wisconsin Aux St. Claire and Institute of Dalit Studies, 2<sup>nd</sup> Jan., 2017.

Jaya Tyagi, Conducted a Gender Sensitization Session for the non teaching staff in University of Delhi, Jan. 2017.

Manjeet Bhatia presented a lecture on Gender, Mobility and Intersectionality: Exploring the Mall in the International Workshop on Transnational Feminism: Issues of Marginalization and Intersectionality in collaboration with University of Wisconsin Eau Claire, USA and Indian Institute of Dalit Studies, New Delhi on 4 Jan., 2017.

Ridhima Tewari presented a lecture on Gender, Sexuality and Literature in the International Workshop on Transnational Feminism: Issues of Marginalization and Intersectionality in collaboration with University of Wisconsin Eau Claire, USA and Indian Institute of Dalit Studies, New Delhi on 5<sup>th</sup> Jan., 2017.

#### **Faculty Strength**

Permanent – 03

Ad-hoc – 03.

#### **Other Significant Information**

The Centre has begun field work for its major research project under UGC-CAS and has completed field work and data entry of the data collected at Delhi-NCR. With limited resources, it is trying to undertake field work at Kolkata as part of the second leg of empirical work. WSDC had made a Film as part of its research project - *Mall: A Gendered Space* with the support of its partner, Institute of Studies in Industrial Development. The film is also used for teaching.

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## **WORLD UNIVERSITY SERVICE HEALTH CENTRE**

#### **Major Activities and Achievements**

The Health Centre came into existence on 19 March, 1955. The present building is more than 62 years old. A number of new facilities have been added over the years. The Health Centre (North Campus) caters to approx. 1,50,000 beneficiaries population, i.e. regular employees, retired employees and their dependents, resident and non-resident students, adhoc and contractual staff. Total OPD attendance for the financial year 2016-2017 was 1,47,025 and total clinical services (Physiotherapy, Pathology Lab., ECG, Nursing, Dressing and X-Ray) was 1,33,167. Approximately 470 patients, per day, seek consultation in OPD. These numbers are ever increasing.

WUS Health Centre (South Campus) caters to approximately 12,000 beneficiary clientele. Approximately 100 patients avail the Health Centre (South Campus) OPD facilities per day (six days a week). Health Centre (East Delhi) caters to approximately 3,800 beneficiary clientele. Approximately 20 patients avail WUS Health Centre (East Delhi) OPD facilities per day (five days a week). WUS Health Centre (West Delhi) caters to approximately 4,000 beneficiary clientele. Approximately 35 patients avail WUS Health Centre (West Delhi) OPD facilities per day (five days a week).

Total OPD attendance for the financial year April 01, 2016 to March 31, 2017

North Campus	:	1,47,025
South Campus	:	26,107
East Delhi	:	4,567
West Delhi	:	8,921

Total Clinical Services for the financial year April 01, 2016 to March 31, 2017

North Campus	:	1,33,167
South Campus	:	10,412
East Delhi	:	985
West Delhi	:	1,540

Health Centre also provided emergency medical services on Sundays, as well, during the following Tournaments/events organized by University of Delhi:

Fitness Test and Sports Trials for Admission on the basis of Sports in Under Graduate Courses 2016-17: 24th June 2016 to 3rd July 2016.

Delhi University Selection Trials of Judo (M & W) : 24th & 25th Oct., 2016

Inter College Athletic Meet Half Marathon (M & W), Race Walking (M & W) 3rd to 5th & 7th Nov., 2016

Half Marathon and Race Walking (Men & Women): 12th Nov., 2016



93rd Annual Convocation of University of Delhi: 19th Nov., 2016  
Inter College Boxing (M & W) Championship: 9th to 11th Jan., 2017  
13<sup>th</sup> K.K. Luthra Memorial International Moot Court Competition: 13th to 15th Jan., 2017  
Inter College Wrestling (M & W) Championship: 31st Jan. and 1st Feb., 2017  
HYS Marathon: 10th & 11th Feb., 2017  
Delhi University Inter College Football (M) Tournament 2016-17: 23rd Feb. to 6th March, 2017  
Delhi University Inter College Cross Country Race (M & W) Tournament 2016-17: 4th March, 2017

World Health Day was celebrated in W.U.S. Health Centre (North Campus) on 7th April, 2016. The theme of this year's World Health Day was *Beat Diabetes Mellitus* (DM). Leaflets highlighting the issues regarding *Beat Diabetes Mellitus* (DM) were distributed to all the Faculty members, Departments/Centres/Colleges/Hostels, which was highly appreciated by everyone. An article on *Beat Diabetes Mellitus* (DM) was uploaded on University of Delhi website and Health Centre website for the information of the University fraternity.

Epidemic of Dengue Fever was prevalent in whole of Delhi/NCR in Sept. and Oct., 2016. Pyrethrum spray was done intensively in the University Campus area and University Enclave colleges. Leaflets highlighting the issues regarding Dengue Fever were distributed to all. An article on Dengue Fever was uploaded on the University of Delhi website for the information of the University fraternity.

Health check-up camps, Cardiac check-up camps have been organized from time to time in collaboration with reputed Hospitals.

### **Existing Facilities**

The W.U.S. Health Centre (North Campus) provides 24 x 7 hours services for the University employees, their dependants and students. It provides OPD services from 08:00 AM to 08:00 PM, six days a week and remains open on Sundays and Gazetted Holidays (08.30 AM to 10.30 AM). It remains open throughout the day even on Holi and Diwali Holidays. It provides emergency services round the clock. It has 4 full time Medical Officers, 1 Medical Consultant on contract, 1 Medical Officer on contract, 3 Part-time Medical Officers (contract), 12 Part-time Visiting Specialists who provide Specialized services for two hours in Cardiology (thrice per week), Neurology (once per week), Psychiatry (once per week), Orthopedic (five days per week), E.N.T. (five days per week), Pediatric (four days per week), Skin (4 days per week), Ophthalmology (thrice per week), Dental (six days per week) and ECG facilities (five days per week). The Centre has a Pathology Laboratory, Physiotherapy Unit, X-Ray Department, Nursing Station, Dressing Room and Basic Life Support Ambulance.

WUS Health Centre (South Campus) caters to its beneficiaries from Monday to Friday from 09:00 AM to 05:00 PM and on Saturday from 09:00 AM to 03:00 PM. It has 1 full time Medical Officer, 2 Part-time Medical Officers (contract), 1 Medical Consultant on contract, 2 Part-time Visiting Specialists who provide Specialized services for two hours in Ophthalmology (twice a week) and Dentistry (thrice a week). The Centre has a Pathology Laboratory, Physiotherapy Unit, Nursing Station, Dressing Room, ECG facilities and Basic Life Support Ambulance.

WUS Health Centre (East Delhi) and WUS Health Centre (West Delhi) cater to its beneficiaries from Monday to Friday from 09:00 AM to 03:00 PM. Each has 1 full time Medical Officer. Each center has a Pathology Laboratory, Pharmacy, Medical Store and Dressing Room.

### **Seminar / Conference Presentation – 20**

#### **Extension and Outreach Activities**

Delivered several Public Health Lectures on Vector Borne Diseases in Different Colleges affiliated to the University

**Doctors Strength** – 1 Chief Medical Officer, 7 Permanent Doctors, 1 Medical Officer on contract, 2 Medical Consultants on contract, 5 Part-time Medical Officers

#### **Other Significant Information**

Provided Medical Cover to the VIPs. Quick and timely disposal to the patients.

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## FACULTY OF APPLIED SOCIAL SCIENCES & HUMANITIES

### BUSINESS ECONOMICS

#### Major Activities and Achievements

The Department of Business Economics successfully ran an MBA programme in Business Economics and a Ph.D. programme during the period 1 April, 2016 to 31 March, 2017. The placement cell of the Department was successful in finding 59 placements for the final year students and 35 for the first year students. Three students were awarded doctoral degrees. Fourteen weekly seminars were organised on different topics in the Department in which academicians and experts from the industry were invited. Other student activities organised in the Department include: Genesis, Vishleshan, Reminiscence (Annual Alumni Meet), Annual Convention, Arthniti, Markibiz, Pahal and Bluechips.

#### Publications

Dastidar, A. G. (2016). The keynesian model, in *Macroeconomic Analysis* (Block 1, Unit 2), MA (Economics) Course, MEC- 002. (New Delhi: IGNOU)

Dastidar, A. G. (2016). Open economy macroeconomics. Unit 4 in *Macroeconomic Analysis* (Block 1), MA (Economics) Course, MEC- 002. (New Delhi: IGNOU)

Dastidar, A. G. (2016). Theories of economic growth – Part 3. Module 26, *Macroeconomic Analysis and Policy*, Paper 5 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Dastidar, A.G. and Dash, T (2016). Management of Current Account Deficits and Exchange Rates – Part 1. Module 27, *Macroeconomic Analysis and Policy*, Paper 5 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Dastidar, A.G. and Patra, S. (2016). Management of current account deficits and exchange rates – Part 2, Module 28, *Macroeconomic Analysis and Policy*, Paper 5 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Dastidar, A.G. and Kumar, A. (2016). Channels of monetary transmission and monetary policy in India – Part 1, Module 32, *Macroeconomic Analysis and Policy*, Paper 5 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Dastidar, A.G. and Kumar, A. (2016). Channels of monetary transmission and monetary policy in India – Part 2. Module 33, *Macroeconomic Analysis and Policy*, Paper 5 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Dastidar, A.G. and Bhalla, P. (2016). Conclusion, Module 35. *Macroeconomic Analysis and Policy*, Paper 5 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. (2016). Introduction, Module 1. *Industrial Economics*, Paper 6 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. (2016). Strategic entry deterrence, Module 12. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Industrial revolution and structural shifts in GDP, Module 2. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Asian tigers and industrialization, Module 3. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Industrial classification ISIC and NIC, Module 4. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Size and growth of firm, Module 19. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Vertical integration, incomplete contracts and asset specificity, Module 20. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Horizontal diversification, Module 21. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Robin marris model, Module 22. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Gupt, Y. and Sahay, S. (2016). Strategic alliance, Module 24. *Industrial Economics*, Paper 6 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). Choice under uncertainty, Module 9. *Microeconomics Analysis*, Paper 1 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). The theory of production-II, Module 11. *Microeconomics Analysis*, Paper 1 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). Short run theory of costs, Module 13. *Microeconomics Analysis*, Paper 1 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). Break-even analysis, Module 15. *Microeconomics Analysis*, Paper 1 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). World trade: An Overview, Module 3. *Global Business Environment*, Paper 11 for M.A. (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). India's foreign trade: Overview, Module 4. *Global Business Environment*, Paper 11 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Kumar, S. (2016). Balance of payments, Module 5. *Global Business Environment*, Paper 11 for MA (Business Economics), e-PG Pathshala, UGC (NMEICT mission of MHRD), Govt. of India (<http://epgp.inflibnet.ac.in>).

Sharma, S., Gupt, Y. and Kaur, G. (2016). *Reproductive Health of Adolescents in Delhi Slums*. New Delhi: Synergy Books.

### **Seminars Organised**

Prof. Deepak Pental (former VC, DU), Genetically Modified Crops. 15 Sept., 2016.

Prof. Arun Kumar (CESP, JNU), Prof. Indira Rajaraman (Member 13<sup>th</sup> Finance Commission), and Dr. S. P. Sharma, (Chief Economic Advisor, ASSOCHAM) Demonetization and its Impact on Indian Economy. 12 Jan., 2017.

Mr. Manas Mahajan (Director, American Express), Business Analytics. 9 March, 2017.

### **Conferences Organised**

Reassessing India's Industrial Policy, 11 April, 2016, funded by ICSSR, organizing committee: C.M. Thakras, Ananya G. Dastidar, and Yamini Gupt.

Forty-Third Annual Convention on Building Golden India - Revamping And Unleashing The Potential at the S.P. Jain Centre, University of Delhi South Campus, New Delhi on 1 October 2016.

National Conference on Indian Economy: Contemporary Issues and Challenges 28<sup>th</sup> February 2017, funded by University of Delhi, organizing committee: Sunil Kumar, Ananya G. Dastidar, and Yamini Gupt.

### **Seminar / Conference Presentation**

Dastidar, A.G., Discussant of The effect of exchange rate volatility in india's Trade with SAARC Countries: An Appraisal (by Ganapati Mendali and Sanjukta Das) at '3<sup>rd</sup> International Conference on South Asian Economic Development,' Faculty of Economics, South Asian University, New Delhi, 23 Feb., 2017.

Dastidar, A.G., Discussant of duty inversion and effective protection: A Theoretical Study by Kanika Pathania at 'National Conference on Indian Economy: Contemporary Issues and Challenges,' Dept of Business Economics, University of Delhi South Campus, 28 Feb., 2017.

Gupt, Y., invited Lecture on The informal battery recycling in india—An Overview at the Toxic Sites Identification Project (TSIP) Technical Review Workshop Organised by Pure Earth at Hotel Rockland, New Delhi on 5 May, 2016.

Gupt, Y., invited Lecture on Collection of ULAB-A case study from delhi and NCR. At the inception meeting for the USAID funded program: Reducing the Threats of Toxic Chemical Pollution to Human Health in Low and Middle Income Countries, organised by Pure Earth at India Habitat Centre, New Delhi, on 21 Nov., 2016.

Gupt, Y., Discussant of system dynamics approach to build strategies for accelerating academic excellence for institutes providing professional education (by Gazal Singh and Sonali Srivastava) at 'National Conference on Indian Economy: Contemporary Issues and Challenges,' Dept. of Business Economics, University of Delhi South Campus, 28 Feb., 2017.

Kumar, S., presented a paper on Gandhi's view on Economy in a National Conference on Remembering Gandhi in the era of Globalization Organised by Satyawati College , University of Delhi, New Delhi on 10 Aug., 2016.

Kumar, S., presented a paper on Significance of Gandhian Economic Thoughts in an International Conference on Gandhi in his time and ours jointly Organised by Gandhi study circle and economic society of Satyawati College, University of Delhi, New Delhi, on 16 Feb., 2017.

Kumar, S., presented a paper on Long run impact of trade on employment in Organised Indian food processing industry in a National Conference on Indian Economy: Contemporary Issues and Challenges, Organised by Department of Business Economics, University of Delhi New Delhi, on 28 Feb., 2017.

Thakras, C.M., presented a paper on Changing climatic patterns and its effect on Apple Production and productivity in H.P at the National Conference on Climate Change, Adaptation & Sustainable Development Organised by Swami Shradhanand College, University of Delhi, New Delhi, 28-29 Sept., 2016.

Thakras, C.M., presented a paper on Agricultural Growth and Crop diversification in Himachal Pradesh at the National conference on Indian Economy: Contemporary Issues and Challenges Organised by Department of Business economics, University of Delhi, New Delhi, 28 Feb., 2017.

### **Students under Exchange Programme**

Dastidar, A.G. was Academic Supervisor for US Fulbright-Nehru Researcher (Mr. Brandon Mayer, from Roanoke College, Virginia, USA), from Aug., 2015 to May, 2016

### **Placement Details**

Students Placed – 59 (90.76%) Companies visiting Dept. for recruitment – 66

Summer Internship – 35 students (70.63%) Companies visited Dept. – 25

### **Extension and Outreach Activities**

Students initiated activities to help underprivileged sections of society under the Roots initiative. These include drives to collect warm clothes and dry rations.

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 3

### **Faculty Strength**

Permanent – 7

Ad-hoc – 1

## FACULTY OF ARTS

### ARABIC

#### Major Activities and Achievements

Department of Arabic is one of the oldest in the University, dating back to 1922, the year of the inception of the Delhi University. Classes used to be held, initially, at St. Stephen's College, a constituent college of the University of Delhi. To begin with, renowned erudite personalities such as Shamsul Ulama Maulana Abdur Rahman and Maulana Saeed Ahmad Akberabadi rendered their services to the Department. In the late fifties the Department of Arabic with its sister Departments – Persian and Urdu – was shifted to the Arts Faculty building. The Arabic Department has passed through three phases. It has functioned under the umbrella of Dept. of Arabic, Persian and Urdu. Then, the Dept. of Urdu became independent while Arabic and Persian remained a combined Department. Finally, the Dept. of Arabic became independent in 1978.

#### Publications

Khan, M. N. (2017). *Prof. Khurshid Ahmad Fariq: His life and works* (Arabic), Thaqafat-ul- Hind, ICCR, New Delhi 68,(8), Jan.- March 2017),ISSN 0970-3713

Khan, M. N. (2016). *Al-Ghars al-Wahdi al-Wahdi fi Rasa'il al-Shaikh Na'im b. al-Mahdi* (Majmu'at Rasa'il by Hazrat Allama Shah Muhammad Nai'im Ata al-Saloni, Khanqahe Karimiyah Na'imiyah, Salon (U.P.). ISBN 81-901947-4-7

Khan, M. N. (2016). *Tarikh hadharat al- hind*, Arabic translation of *Tarikh-e- Tamaddun-e Hind* by Prof. Mohammad Mujib, Ex Vice Chancellor, JMI, Arab Thought Foundation, Beirut, ISBN 978-9953-0-3621-2

Akhtar, S. H. (2017). *Imam Sajjad ke Athare Adabiya*, Tajalliyat-e-Sajjad, Chahardeh Sad Salah Jashn Imam Sajjad, Jalalpur, Ambedkar Nagar, U.P.

Hasan, N. (2016). *Al-Nawwab Siddique Hasan Khan: His contribution to the development of Arabic Language and Literature*, *Majallah al-Mazahir, al-Jamiatul Islamia*, Mazahir Uloom Saharanpur, Aug.-Sept. 2016, ISSN 2348-2575

Hasan, N. (2016). *Pioneers of Arabic language in Egypt and their contribution to Arabic Literature* *Majallah allugah*, Online issue ISSN 2394-4862

Hasan, N. (2016). *Translation of Poetry from one language to another language and the problems faced by translators* *Majallah al-Mazahir, al-Jamiatul Islamia*, Mazahir Uloom Saharanpur, Nov.-Dec., 2016, ISSN 2348-2575

Hasan, N. (2017). *Shah Waliullah Dehlawi in the light of his writings*, *Monthly Braheen*, New Delhi, 9(106), ISSN: 2395-3640

Hasan, N. (2017). *Shariat wa Tariqat ka Imtiaz Aur Shah Waliullah Ka Falsafa-e- Tasawwuf* *Monthly Braheen*, New Delhi, 9(106), ISSN: 2395-3640

Akram, M. (2016). Chapter in Book *Nuqush-I Ajmal*, First Edn., (pp. 157-165), Central Council for Research in Unani Medicine, Ministry of Ayush Govt. of India, New Delhi, ISBN 81-87748-49-4

Akram, M. Chapter in Book *Prof. Shah Abdussalam Shakshiyat Aur Ilmi Naqoosh*, (pp. 177-187), Educational Publishing House, Delhi. ISBN 978-93-5073-944-0

Akram, M. Chapter in Book *Urdu Ke Parogh Main Atibba Ka Hissah*, (pp. 207-2015), Islahi Healthcare Foundation (IHF), New Delhi. ISBN 978-81-929739-3-7

#### Seminars / Conference Organized

Two day National Seminar, *Translations of Arabic Sources into Indian Languages & Vice Versa*, 8-9 March, 2017.

Seven-day Workshop, *Teaching Methods for Arabic Teachers*, in collaboration with the King Abdullah bin Abdul Aziz International Centre, Riyadh, K.S.A, 1-7 April, 2017. Prof. Mutair Husain Al-Maliki from Saudi Arabia was invited to deliver special lectures.

Lecture under Prof. K. A. Fariq Memorial Lecture Series - 10, *Contribution of Gujarat to Arabic Language and Literature*, delivered by Mufti Ahmad Devalvi, March 8, 2017.

### **Seminar / Conference Presentation**

M. N. Khan, National Seminar, *Social and Spritual Teachings of the Qur'an in Contemporary Perspective*, Nizami Centre for Quranic Studies, AMU, Aligarh, 4-5 April, 2016.

S. Hasnain Akhtar, Presented paper, National Seminar, *Methods of Translation and Teaching of Arabic*, organized by All India Arabic Teachers and Scholars in collaboration with the Dept. of Arabic, Barkatullah University and Darul Uloom Tajul Masajid, Bhopal, 27-29 May, 2016.

S. Hasnain Akhtar, Presented paper, *Munshi Naval Kishore & Printing of Arabic Books*, International Seminar, Munshi Naval Kishore and Printing Press in Colonial India, Dept. of Persian, University of Delhi, 23-24 Feb., 2017.

S. Hasnain Akhtar, Talk, Workshop, Revision and Redesigning of Arabic Language and Literature Syllabi, in the Dept. of Arabic, Jamia Millia Islamia, New Delhi, 1-3 March, 2017.

Naimul Hasan, *Depiction of Indian society as reflected in Mushahadaat Min al-Hind*, National Seminar, India and the Arab World: Contextualizing the Past, Present and Future, organized by the India Arab Cultural Centre, JMI, New Delhi, 4-15 Feb., 2017.

Naimul Hasan, *Revision & Redesigning of Arabic Language & Literature Syllabi of all Courses in the light of Present Day Needs*, Workshop, Revision & Redesigning of Arabic Language & Literature Syllabi of all Courses in the light of Present Day Needs, Dept. of Arabic, JMI, New Delhi, 1-3 March, 2017.

Naimul Hasan, *Shariat wa Tariqat Ka Imtezaj Aur Shah Waliullah Ka Falsafae Tasawwuf*, International Seminar, Shah Waliullah and Tasawwuf, Shah Waliullah Institute, New Delhi, 14-16 March, 2017.

Naimul Hasan, *An Analytical Study of the book Abjadul Uloom by Nawab Siddique Hasan Khan al-Qannawji*, National Seminar, Contribution of Shahjahan Begum and Nawab Siddique Hasan Khan in Promotion of Arabic Language and Islamic Literature, Dept. of Arabic, Barkatullah University, Bhopal, 23-25 March, 2017.

Naimul Hasan, *Problems the students of non-Arabic background face in learning Arabic Language*, Workshop, Problems and Methods of Teaching of Arabic Language for Non-Arabic speakers, organized by King Abdullah bin Abdul Aziz International Centre for Arabic Language & JMI, 18 April, 2017.

Naimul Hasan, *How to edit old manuscript of Arabic Language*, One-day refresher course on Research Methodologies and Manuscripts Editing, organized by King Abdullah bin Abdul Aziz International Centre for Arabic Language & JMI, 19 April, 2017.

Naimul Hasan, Refresher Course on Arabic Teachers' Training Course, organized by King Abdullah Bin Abdul Aziz International Centre for Arabic Language in Cooperation with Dept. of Arabic, University of Delhi, Delhi, -7 April, 2017.

Mujeeb Akhtar, Participated and presented a paper in three day National Seminar on Methods of Translation and Teaching of Arabic held on 27-29 May 2016 organized by All India of Arabic Teachers and Scholars in collaboration with the Dept. of Arabic, Barkatullah University and Darul Uloom Tajul Masajid, Bhopal.

Mujeeb Akhtar, Participated in UGC Sponsored three week Refresher Course in Languages (Arabic, Hindi, Urdu) organized by the UGC-HRDC, Jamia Millia Islamia, New Delhi from 30 May to 18 June 2016.

Mujeeb Akhtar, Presented paper, International Interdisciplinary Conference, Society, Culture and Morality: East and West organized by the Centre of Arabic and African Studies, Jawaharlal Nehru University in collaboration with NCPUL and AIAATS, 27-29 Dec., 2016.

Mujeeb Akhtar, Presented paper, *India and the Arab World: Contextualizing the Past, Present and Future*, National Seminar, India Arab Cultural Centre, Jamia Millia Islamia, New Delhi, 14-15 Feb., 2017.

Mohammad Akram, Presented paper, National Seminar, Methods of Translation and Teaching of Arabic, All India Arabic Teachers and Scholars in collaboration with the Dept. of Arabic, Barkatullah University and Darul Uloom Tajul Masajid, Bhopal, 27-29 May, 2016.

Mohammad Akram, Presented paper, *Awlaad Ki Tarbiyat Men Maan Ka Kirdar* National Seminar, Islam Ka Aaili Nizam, Insaniyat Ke Liye Rahmat Ka Paigham, organized by Jamiatul Falah Bilariya Ganj-Azamgarh 5-6 Nov., 2016.

Mohammad Akram, Presented paper, *Contribution of Islamic Institutions in Promotion of Arabic Language in India*, on the occasion of World Arabic Day International Seminar, organized by King Abdullah Bin Abdul Aziz Centre, Riyadh in JNU, New Delhi, 21 Dec., 2016.

Mohammad Akram, Participated in a three week UGC sponsored refresher course in languages (Arabic, Hindi, Urdu), organized by UGC-HRDC, Jamia Millia Islamia, New Delhi, 30 May-18 June, 2016.

#### **M.Phil. / Ph. D. Awarded**

Ph.D. – 3

M.Phil. – 3

#### **Faculty Strength**

Permanent – 15

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## **BUDDHIST STUDIES**

#### **Major Activities and Achievements**

Centre for Advance Studies

#### **Publications**

Sarao, K. T. S. (2017). The following entries have been published in the *Encyclopedia of Indian Religions*, Arvind K. Sharma (Ed.), New York: Springer. ISBN 978-94-007-1988-0

Sarao, K. T. S. (2017). *Search for the Jaina Aṣṭāpada*, Native India, 2(5), 2-4.

Sarao, K. T. S. (2017). Legends as sources of History: An examination of legends pertaining to the biography of the Buddha, *Presidential Address (Ancient Section)*, Proceedings, Punjab History Conference, 48<sup>th</sup> Session, March 4-6, 2016, (pp.10-18), Patiala: Publications Bureau, Punjabi University.

Rana, R K., (2017). Upaya. Sharma, Arvind (Ed.), *Springer Encyclopedia of Indian Religions*, Springer (India) Pvt. Limited, India. ISSN: 978-94024-0853-9

Rana, R K., (2017). Samantabhadra. Sharma, Arvind (Ed.), *Springer Encyclopedia of Indian Religions*, Springer (India) Pvt. Limited, India. ISSN: 978-94024-0853-9

Rana, R K., (2017). Aryadeva. Sharma, Arvind (Ed.), *Springer Encyclopedia of Indian Religions*, Springer (India) Pvt. Limited, India. ISSN: 978-94024-0853-9

Rana, R K., (2017). Bodhidharma. Sharma, Arvind (Ed.), *Springer Encyclopedia of Indian Religions*, Springer (India) Pvt. Limited, India. ISSN: 978-94024-0853-9

#### **Research Projects**

Prof. H. P. Gangnegi, *Buddhist Studies Centre*, UGC, Rs. 7,50,000/-

Prof. H. P. Gangnegi, *e-Content Writing*, UGC, Rs. 1,12,00,000/-

Prof. K.T.S. Sarao, *CAS (Centre for Advances Studies, - Phase)* UGC, Rs. 1,65,00,000/-

#### **Seminars Organized / Workshop**

Departmental Seminar organized every Friday during the academic session 2016-17.

Two International Conferences organized in collaboration with Shyamlal College & Zakir Hussain College, University of Delhi.

#### **Seminars / Conferences Attended**

– 35

## M.Phil. / Ph.D. Degree Awarded

Ph.D. – 7

## Faculty Strength

Permanent –14

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## ENGLISH

### Major Activities & Achievements

The Department of English organised four two-day National Conferences during the academic year. A number of Academic Talks were also hosted by the Department and the different centres – Centre for Academic Translation and Archiving (CATA), Centre for Dalit Studies (CDS), and Centre for Violence, Memory and Trauma (CSVMT). The Ghazal Convention was a notable event organized by CATA. Apart from organizing a Seminar on Celebrating the Indian Constitution, CDS also showcased a Photo-exhibition, Life and Times of Jogendranath Mandal. Memorializing Partition by CSVMT was a two-day Workshop held in collaboration with The 1947 Partition Archive that was well appreciated.

### Publications

#### Books:

- Kumar, R. (2017). *Bheda* (English translation of Akhila Naik's Bheda,). New Delhi: Oxford University Press.  
Kumar, R. (2017). *Dalit Personal narratives: Reading caste, nation and identity*, New Delhi: Orient Black Swan. (Reprint)  
Chakravarty, P. (2016). *The opulence of existence essays on aesthetics and politics*. ISBN(s) 978-93-83968-21-3

#### Journal Articles:

- Panja, S. & Saraf, B. M. (2016). Introduction. In Shormishtha Panja and Babli Moitra Saraf (Eds.), *Performing Shakespeare in India: Exploring Indianness, Literatures and Cultures*, Los Angeles, London, New Delhi: Sage.  
Panja, S. (2016). To confine the illimitable: Visual and verbal narratives in two Bengali retellings of Shakespeare. In Shormishtha Panja and Babli Moitra Saraf (Eds.), *Performing Shakespeare in India: Exploring Indianness, Literatures and Cultures*, Los Angeles, London, New Delhi: Sage.  
Panja, S. (2016). Intercultural theatre and Shakespeare productions in Asia: India. Siyuan Liu (Ed.) Routledge Handbook of Asian Theatre, (pp. 504-509), London and New York: Routledge.  
Panja, S. (2016). Marriage of true minds by William Shakespeare. *Words of Lasting Interest*, Reader's Digest.  
Panja, S. (2016). Song, surveillance and graveyards: Vishal Bhardwaj's Haider. *Hamlet*, Bristol University, UK.  
Devadawson, C. R. (2017). Visuality, spectacle and 'the common good' in India today. In Mark Garner (Ed.), *Faith in Higher Education* (pp.1-10). London: U of Roehampton Press.  
Kumar, R. (2017). Who is the author of Madhusudan Rao's Barnabodha?. In Sumanyu Satpathy & Animesh Mohapatra (Eds.), *Natabara Samantaray: A Reader*, New Delhi : Sahitya Akademi,.  
Kumar, R. (2017). Travelling through caste. In *International Journal of Religious Tourism and Pilgrimage*, 4(6).  
Kumar, R. (2017). The making of History. In Swaraj Basu (Ed.), *Readings on Dalit Identity: History, Literature and Religion*, New Delhi: Orient BlackSwan.  
Kumar, R. (2017). Caste and the literary imagination in the context of Odia literature: A reading of Akhila Nayak's *Bheda*. In Joshil K. Abraham & Judith Misrahi-Barak (Eds.), *Dalit Literatures in India*, New Delhi: Routledge.  
Bhattacharya, R. (2017). Between the lines, *Language and Language Teaching*. 6(2-12), 64-72.  
Bhattacharya, R. (2017). Performance and begging missions. *Economic & Political Weekly*, 52(19), 64-70.  
Babu, H. M. T. (2017). Breaking the Chaturvarna system of languages: The need to overhaul the language policy. *Economic and Political Weekly*, LII 23, 112-119.



Chattarji, S. (2016). Labor, precarity, and the University: Thinking about Indian higher education. *English Language Notes*, 54(2), 167-174.

Basu, T. (2017). The Dalit personal narrative in Hindi. *Biography*, 40(1).

Kumar, P. (2016). Muhajirs as a diaspora in Intizar Husain's *The sea lies ahead* and Kamila Shamsie's *Kartography*, South Asia: *Journal of South Asian Studies*.

Kumar, P & Kothari, R. (2016). Sindh, 1947 and beyond, South Asia: *Journal of South Asian Studies*.

Chandra, N. (2016). Childspeak: Children's periodicals in colonial north India (1920-50). In Swapan Chakravarty & Abhijit Gupta (Eds.), *Founts of Knowledge: Book History in India*, Delhi: Orient Blackswan.

Chandra, N. (2016). Shadow-images of a factory: The contradictions of the University as a service industry, *Café Dissensus* (www.cafedissensus.com), 28.

Bhattacharya, B. (2016). On comparatism in the colony: Archives, methods, and the project of weltliteratur, *Critical Inquiry*, 42(3), 677-711.

Vats, N. (2016). Rasa in Keats' *Lamia*. In Dr. Neeraj Kumar (Ed.) *The Interiors*. ISSN 2319-4804

### **Book Chapters:**

Bhattacharya, R. (2017). Speaking of food: apple, ice-cream, posto, pista, roti. In Rama Kant Agnihotri, *et al*, (Eds.), *Trends in Language Teaching* (pp. 82-96). Hyderabad: Orient Black Swan Private Limited.

Chattarji, S. (2017). To be made over: Vietnamese-American re-education camp memoirs. In Philip Dwyer (Ed.), *War Stories: The War Memoir in History and Literature* (pp. 229-251). New York, Oxford: Berghahn.

Chattarji, S.(2017). The distant shores of Freedom: recollecting and rehabilitating Vietnam in America. In Stéphanie Bélanger and Renée Dickason (Eds.), *War Memories: Commemoration, Recollections, and Writings on War* (pp. 115-131). Montreal, London, Chicago: McGill-Queen's University Press.

Chattarji, S.(2017). However imperfect the representation. In Jean-Jacques Malo (Ed.), *W. D. Ehrhart in Conversation: Vietnam, America and the Written Word* (pp. 16-60). Jefferson, NC: McFarland & Company Inc., Publishers.

Qadeer, H. (2016). A prostitute's letter: To Pandit Jawaharlal Nehru and Qaid-e-Azam Jinnah. Translation of Krishna Chandra's Urdu short story *Ek Tawaif ka Khat: Pandit Jawaharlal Nehru aur Qaid-e-Azam Jinnah ko*, in *River of Flesh and other stories: The Prostituted Women in Indian Short Fiction*, India: Speaking Tiger.

Qadeer, H. (2016). Translation of two Urdu poems by Zafar Ali Khan in *The Glory of India: An Anthology of Urdu Poetry in English Translation*, India: Viva Books.

Antony, S. (2017). Transcending the (generic) self: Liminality in Merrily Weisbord's, *The love queen of malabar: Memoir of a friendship with Kamala Das*. In Sreenath Muraleedharan K and Devi K (Eds.), *Explorations in Critical Humanities: A Collection of Essays*, India: Viva Books.

### **Research Projects**

Singh, Vinod Kumar. Research and Development Council, University of Delhi, Submitted 2016, *An Exploration of the Salient Features of Contemporary Tribal Writings*. Rs. 40000/-

Antony, Swetha. Travel Grant under UGC- SAP III Grant, Dept. of English, University of Delhi. March 12 - 18, 2017, *The Journey of Kerala's Latin Catholic Community: A Study through the Missionary Narratives*. Rs. 12917/-

### **Seminars Organized**

Panja, Shormishtha. Co-organizer, *Age Cannot Wither: Shakespeare 400 Shakespeare Festival*, India International Centre, Nov. 2016.

### **Hosted by the Department**

Nayak, Jatin. Utkal University, *The Encyclopedia as a Cold Warrior: A Perspective on Odiya Gyana Kosha or Encyclopedia Orissana*, March 20, 2017.

Tharu, Jacob. EFLU, *The bridge course as a heuristic device*, March 9, 2017.

Varughese, Emma D. Independent Researcher, *Genre Fiction of New India: Post-Millennial Configurations of Crick Lit, Chick Lit and Crime Writing*, March 8, 2017.

Tharu, Jacob. EFLU, *Measuring human Qualities in Educational Settings*, March 7, 2017.

Gupta, Suman. Open University, UK, *The Purposes of Close Reading*, March 6, 2017; & *Crisis in Indian English Studies*, Feb. 27, 2017.

Shanahan, John. DePaul University, *Digital Humanities: Tools for Literature and Criticism*, Jan. 18, 2017.

Newport, Emma. University of Sussex, *Bankrupts, Penny-pinches and Spendthrifts: Women Writers and Monetary Fiction in the Eighteenth Century*, Dec. 16, 2016.

George, Jibu Matthew. EFLU, *Keeping the Professors Busy: James Joyce and Contemporary Critical Debates*, Nov. 21, 2016; *Enchantment, Disenchantment, and Re-enchantment of the World: Rethinking the Weberian Narrative of Religion*, Nov. 18, 2016; & *Philosophy Looks at the Why and How of Literary Studies*, Nov. 17, 2016.

Chakrabarti, Shirshendu. University of Delhi, Valedictory Lecture, *Tagore's Critique of the Inhumanity of Pure Art in Western Modernity*, Oct. 19, 2016.

### **Hosted by the Centre for Academic Translation and Archiving (CATA)**

*The Ghazal Convention*, One-day Event, Oct. 22, 2016.

Hasan, Anjum., Writer & Editor, *Book Reading and Discussion*, March 3, 2017; *Whatever Happened to Literature?*, March 1, 2017; & Intra-Asian Travel Project Workshop, 5-6 Dec., 2016.

Kamal, Ajmal. Writer & Editor, *A Quarter-Century of Publishing & Translating Literature*, Oct. 24, 2016.

Naithani, Sadhana. Jawaharlal Nehru University, *Ram Gharib Chaubey and the Folktale-World of Northern India*, Nov. 7, 2016.

### **Hosted by the Centre for Dalit Studies (CDS)**

*Celebrating the Indian Constitution*, One-day Seminar, Nov. 28, 2016.

Kumar, Kesava. University of Delhi, *Political Perspectives in Theorizing Dalit Movement*, Oct. 27, 2016.

Chatterjee, Debayudh. University of Delhi, Photo-exhibition, *Life and Times of Jogendranath Mandal*, Nov. 28-Dec. 16, 2016.

Ravichandran, B. Activist & Founder Member of Dalit Camera, *Mapping the boundaries of the alternate and the mainstream* (Looking through the lens of Dalit Camera: Through Un-Touchable Eyes), Feb. 13, 2017.

Das, Kalyan. Presidency University, *Ambedkar and the Nation*, Feb. 17, 2017; & *Ambedkar's 'social hope' in a 'democracy that is to come': A pragmatological reading in speculative philosophy*, Feb. 22, 2017.

Ravichandran, B. Activist & Founder Member of Dalit Camera, *Language, Caste, and Territory: The making of a non-native Scavenger*, Feb. 20, 2017.

### **Hosted by the Centre for Violence, Memory and Trauma (CSVMT)**

Ahmed, Ali. Writer, Kashmir; *The border and beyond*, Nov. 9, 2016.

Henry, Odile. Paris 8 University; *Introduction to Pierre Bourdieu's Sociology*, Jan. 11, 2017.

Basu, Tamanna. Activist; *Workings of Violence: Singular Stories of Ordinary Life*, Jan. 18, 2017.

Gupta, Suman. Open University, UK; *Narrativizing Protest Suicide*, March 8, 2017.

*Memorializing Partition*, Two-day Workshop held in collaboration with The 1947 Partition Archive, Feb. 22 & April 12, 2017.

### **Conferences Organized**

A two day National Conference, *Culinary Routes/ Roots*, 2-3 Nov., 2016.

A two day International Conference in collaboration with Swami Shraddhanand College, *History, Culture and Literature: Reading the Margins*, 24-25 Feb., 2017.

A two day National Conference, *Modes, Motives, Motifs, and Conditions in Intra-Asian Travel*, 20-21 March, 2017.

A two day National Conference in collaboration with Bharti College, *Migration and Diaspora: Theory, Cultures and Literatures*, 24-25 March, 2017.

### **Seminar / Conference Presentation**

Shormishtha Panja, *'I shall lure you not with my beauty': Gender, Translation and Tagore's Songs*, International Conference, Beyond Postcolonial Hermeneutics: Comparative Perspectives School of Translation Studies & Training IGNOU, March, 2017.

Shormishtha Panja, Plenary Speaker, *Shakespeare in India*, National Conference, Contextualizing Shakespeare in India, LAD College for Women, Nagpur, Feb., 2017.

Shormishtha Panja, Keynote Speaker, *Shakespeare on the Indian Stage and Screen with special reference to Haider*, National Conference, Shakespeare in Indian Literature and Languages, Sahitya Akademi, Kolkata, Jan., 2017.

Shormishtha Panja, Plenary Speaker, *Fragile Theorising about Globalisation: Food, Media & Master Chef Australia*, International Conference, Culinary Roots/Routes University of Delhi, Nov., 2016.

Shormishtha Panja, *The Gravediggers' Scene in Hamlet*, World Shakespeare Congress 2016, Stratford upon Avon and London, July-Aug., 2016.

Shormishtha Panja, Keynote Speaker, *Shakespeare and Education: Boydell and Bengal Shakespeare and Education*, University of Brighton, UK, April, 2016.

Shormishtha Panja, Keynote, *Shakespeare Forever or For a Day?* Shakespeare 400: Forever and a Day Bibliotheque Alexandrina, Alexandria, Egypt, April 2016.

Shormishtha Panja, *The Renaissance in Europe: An Introduction to the Intellectual Background* at Satyawati College, University of Delhi, Feb. 2017.

Shormishtha Panja, *From the murmur of praise to the clamour of adaptation: Shakespeare on the Indian Stage and Screen* Fourth Annual Lecture, Centre for Asian Studies and Political and Business Daily, Odisha, Bhubaneswar, Dec., 2016.

Christel R. Devadawson, *Postcolonially yours: Flora Annie Steel, Lockwood Kipling, and the illustration of folktale*, FILLM, March, 2017

Christel R. Devadawson, Keynote Speaker, *'Visuality, spectacle and 'the common good' in India today*, CUAC, Chennai, Jan., 2017.

Christel R. Devadawson, *Visual politics and the contemporary retrieval of Gandhi, Writing the cosmopolitan imagination*, Delhi University, Dec., 2016.

Christel R. Devadawson, *Homeland, hostland, and the story of Ruth, Migration and diaspora*, Bharati College, March, 2017.

Christel R. Devadawson, Keynote Address, *Myth-making and the Bhimayana*, Ram Lal Anand College, March, 2017.

Christel R. Devadawson, Keynote Address, *The jest is history: The afterlife of pictorial satire*, Lady Shri Ram College, March, 2017.

Christel R. Devadawson, Keynote Address, *Tell-tale lines: The Kiplings and a piece of fakelore*, ARSD College, Feb., 2017.

Christel R. Devadawson, Plenary Address, *Heroism, visuality and The Gardener in the Wasteland, History, culture and literature* Swami Shraddhanand College, Feb., 2017.

Christel R. Devadawson, Plenary Address, *The Butter Budget: Graphic witness and patterns of consumption in contemporary India*, Delhi University, Nov., 2016.

Christel R. Devadawson, Keynote Address, *Crime into text: Ackroyd, Christie and Suchet, Unravelling Crime*, Hans Raj College, Oct., 2016

Christel R. Devadawson, *The ordinariness of culture: Christie's inheritance*, Delhi University, March, 2016

Christel R. Devadawson, *The ordinariness of culture: Christie's legacy*, Delhi University, March, 2016.

Raj Kumar, *Creative Theory in Dalit Context: Reading Akhila Naik's Bheda*, The Creative Theory Colloquium organized by Indian Council of social Science, Delhi, Sept. 5, 2017.

Raj Kumar, *Understanding Gender in India*, Seminar organized by the Dept. of English, Shyam Lal College (Evening), Delhi, Aug. 16, 2017.

Raj Kumar, *Sociology of Self: Reading Indian Autobiographies*, Refreshers Course organized by Centre for Social System, School of Social Sciences, Jawaharlal Nehru University, New Delhi, Aug. 11, 2017.

Raj Kumar, *Understanding Dalit Aesthetics*, Summer School jointly organized by the Dept. of English and Dept. of Education, Haryana Central University, Mahendergarh, April 3, 2017.

- Raj Kumar, *Travelling through Caste in India*, Intra-Asia Travel Conference, Dept. of English, University of Delhi, March 20, 2017.
- Raj Kumar, *From Being to Becoming: The Ontology of Dalit Self*, International Conference, jointly organized by Dept. of English, Swami Shraddhanand College and Dept. of English, University of Delhi, Feb. 24, 2017.
- Raj Kumar, *Approaching Auto/biography*, Workshop, Biography, jointly organized by Centre of Sociology, University of Zurich, Germany and Centre of Historical Studies, Jawaharlal Nehru University, New Delhi, Jan. 30, 2017.
- Raj Kumar, *The Language of Dalit Literature*, Winter School organized by the Dept. of English, Bhagat Phool Singh Mahila Viswavidyalaya, Khanpur, Haryana, Dec. 6, 2016.
- Raj Kumar, *Travelling through Caste in Odisha*, Intra-Asia Travelling Workshop, Dept. of English, University of Delhi, Dec. 05, 2016.
- Raj Kumar, *Caste at the Time of Bhakti: Reading Mahima Dharma as a New Historiography*, International Conference, Shyam Lal College (Evening), Delhi, Oct. 21, 2016.
- Raj Kumar, *Sociology of Self: Reading Dalit Autobiographies*, Colloquium, organized by Centre for Social Studies, School of Social Sciences, Jawaharlal Nehru University, New Delhi, Sept. 22, 2016.
- Raj Kumar, *Disability from Odisha*, Workshop organized by Jawaharlal Nehru Institute of Advanced Study and IATIS South-Asian Regional Workshop in Jawaharlal Nehru University, New Delhi, Sept. 16, 2016.
- Raj Kumar, *Ambedkarism and Dalit Literature*, Symposium organized by Swami Shradhanand College, Delhi University Aug. 23, 2016.
- Raj Kumar, Special Lecture, *Contemporary Issues and Trends of Dalit Literature*, Dept. of English, Sambalpur University, Odisha, Aug. 02, 2016.
- Raj Kumar, *Translating Dalit Literature*, National Conference organized by Kuvempu Bhasha Pradhikarana, Bengaluru, April 30, 2016.
- Raj Kumar, Special Lecture, *Invoking Ambedkar*, organized by Shyam Lal College (Evening), Delhi University, Delhi, April 22, 2016.
- Raj Kumar, *Baba Saheb Dr. B. R. Ambedkar: A Tribute*, Workshop, organized by Aligarh Muslim University, Aligarh, April 14, 2016.
- Raj Kumar, *The Philosophy of Dalit Literature*, National Conference, organized by the Dept. of Philosophy, Delhi University, April 11, 2016.
- Anjana Sharma, Chairperson and Discussant, Seminar Session, *Visual Cultures and Identities*, final ADRI Silver Jubilee International Conference on Bihar and Jharkhand: Shared History to Shared Vision, by the Asian Development Research Institute (ADRI), Patna, March 27, 2017.
- Anjana Sharma, *British Romantic Poetics and the Idea of Asia*, International Interdisciplinary Conference Imagining Asia(s): Networks, Actors, Sites at the Nalanda Sriwijaya Centre and the Yusof Ishak Institute, Singapore. Oct., 10, 2016.
- Anjana Sharma, Invited Public Lecture. *Cultural Heritage and Inter-Asian Interactions*, the Nalanda Sriwijaya Centre and the Yusof Ishak Institute, Singapore, July 12, 2016.
- Anjana Sharma, Invited Public Lecture. *The Ruins and the University: Connections, Convergences, Communities*, June 29, 2016.
- Anjana Sharma, Invited Public Lecture. *The Netaji and the Mahatma: Trajectories of Nationalism and Blueprints of India*, Seminar, Gandhi Smriti and Darshan Samiti and the Nehru Memorial Museum and Library. The lecture was subsequently telecast on Rajya Sabha TV. Jan. 31, 2017.
- Nandini Chandra, *The Dialectic of Censored Thought: The Case of Dr. Fredric Wertham*, Censorship and Literature Seminar, Dept. of English, Dyal Singh College, April 10, 2017.
- Nandini Chandra, *The Anthro-pologics of Indian Biographical Comics: Writing the Cosmopolitan Imagination: Genre Transactions in a Globalizing World*, English and Germanic Studies Departments, University of Delhi and Potsdam University, Germany, Dec. 13, 2016.
- Nandini Chandra, Discussant, National Conference, *Trajectories of the Popular: Forms, Histories, Contexts*, The Centre for English Studies, JNU, 16-17 Feb., 2017.
- Nandini Chandra, *Abstract Concretion: Vinod Kumar Shukla's Critique of the Need Economy*, Rethinking Global

Capitalism Conference, Delhi Center, University of Chicago, March 4, 2017.

Nandini Chandra, *Rearticulating the Idiocy of Rural Life: Vinod Kumar Shukla's Khilega to Dekhenge* (1996). Panel: Capitalism's Decay and Regeneration: Critical Perspectives on the Economic Theory of Kalyan Sanyal, Annual Conference on South Asia, Madison, Oct. 22, 2016.

Nandini Chandra, *The Anthropologies of Indian Bio-Graphics: The Biography Mode in Indian Comics and Graphic Novels*, Centre for Biographical Research, University of Hawai'i, Mānoa, April 14, 2016.

Baidik Bhattacharya, *What can Deleuze and Guattari Teach us about World Literature?* Aesthetics and the Political in Contemporary India: Deleuzian Explorations, Tata Institute of Social Sciences (TISS), Mumbai, India, Feb. 16, 2017.

Baidik Bhattacharya, *Colonial Philology and the order of time*, Centre for English Studies, Jawaharlal Nehru University, Jan.16, 2017.

Baidik Bhattacharya, *What is Crime Fiction?*, Hansraj College, Delhi University, Oct. 25, 2016.

Baidik Bhattacharya, *Marxism and Literary History in Contemporary Bengal*, Centre for Studies in the Developing Societies, Delhi, May 4, 2016.

Haris Qadeer, *In Search of Feminine Face of Islam: South Asian Secular Safarnamas by Indian Muslim Women*, Dept. of English, University of Delhi, 2017.

Haris Qadeer, *Alternative Retellings: The Mahabharata and Indo-Muslim Cultures*, International Conference on The Mahabharata and Inter-Asian Cultures, organised by Dept. of English, University of Delhi, IGSCA, Ministry of Education and Embassy of Indonesia, 2017.

Haris Qadeer, *Rethinking Muslim Cosmopolitanism: The Idea of Ummah in Knight's Taqwacore and Jan Mohammad's Generation M*, Cosmopolitanism and Genre Transaction, UGC-DAAD, organised by Potsdam University, Germany and University of Delhi, India, 2016.

Vinod Kumar Singh, Talk, *Some Thoughts on Feminist Response to Ramayana*, Nari Chetna programme, organised under the aegis of Sahitya Academy in collaboration with Non-Collegiate Women Education Board, University of Delhi, July, 2016.

Vinod Kumar Singh, *Contemporary Tribal Life: Facts through Fiction*, International Seminar, Emerging New Identities in Dalit and Tribal Literature and Society, Dept. of English and Foreign Languages, Indira Gandhi National Tribal University, Amarkantak. MP, Sept. 2016.

Swetha Antony, *Ecotones as Points of Liminality: An Analysis of the geographical spaces in Jhumpa Lahiri's The Lowland*, International Conference, Environmental Justice: Culture, Resistance and Ethics at Dr. K.N. Modi University, Newai Tonk, Rajasthan, 24-25 March, 2017.

Swetha Antony, *Hetero- biography as a Revisionist Narrative: A study of Merrily Weisbord's The Love Queen of Malabar: Memoir of a Friendship with Kamala Das*, Conference on Narratives, Identity and Culture: Traditions and New Directions in Story-telling, School of Arts and Humanities, Reva University, Bengaluru, 3-4 Feb., 2017.

Anju Gurawa, *The women and the Counter Revolution: Understanding rise and fall of Hindu Women by Dr Ambedkar writings and speeches*, International Seminar, jointly organized by Dept. of Political Science, Shyam Lal College and Dept. of Buddhist Studies, Faculty of Arts, University of Delhi, July, 2017.

Anju Gurawa, *Emancipation of Indian Women: Contextualizing Historical as well as Contemporary perspectives*, Gender Equality and Women's Empowerment: Dimensions, Directions and Challenges, sponsored by UGC, organized by Dept. of Sociology, Jai Narayan Vyas University, Jodhpur, Rajasthan, 25-26 Nov., 2016.

Anju Gurawa, *ICT and Dimension of Assertion*, Modern India: Contribution of Rajiv Gandhi, organised by RGSC at Satyawati College, University of Delhi, May 19, 2016.

Dubey, Yogesh Kumar., *Literature and Tribal Issues*, National Seminar, Tribal Literature and Oral Expressions in India, organised by Sahitya Akademy in collaboration with JNRM Port Blair, 2017.

#### **M.Phil. / Ph.D. Awarded**

Ph.D.– 06

M.Phil. – 39

#### **Faculty Strength**

Permanent –24

### Other Significant Information

Sharma, Anjana. Senior Fellow, Nalanda Sriwijaya Center and Institute of Southeast Asian Studies, Singapore. June 15 -July 15, 2017.

Raja, Ira. Nominated to visit the Dept. of English, Potsdam University for a period of six weeks, as part of a Faculty Exchange Program between the universities of Delhi and Potsdam. May 1-June 15, 2017.

Antony, Swetha. Awarded Ph.D. in English Literature from The English and Foreign Languages University, Hyderabad. Dec. 2016.

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## GERMANIC AND ROMANCE STUDIES

### Major Activities and Achievements

Major activities of the Department include the Annual International Conference on New Experiments in Contemporary Literature, International Conference on India/Latin America: Emerging Epistemological Options & Inter/Cross/Transcultural Dialogues – A Sur/South Conference Lecture Véronique Zeigler on L'enseignement et la Troisième République. Talks by Professors from University of Santiago de Compostela in Spain Pilar Taboada and Santiago Mosquera were also organised.

### Publications

Aggarwal, Kusum. (2016). *Les Francophonies postcoloniales: Textes et Contextes*, (Ed.) Delhi: Langers International, p. 303. ISBN: 978-93-85478-06-2

Sabharwal, Jyoti. (2016). *Günter Grass's show your tongue: City spaces and cross-genre*. In Vibha Surana/Meher Bhoot (Eds.), *Revisiting Günter Grass. Voices from India and Germany*, Mumbai University Press. ISBN: 978-93-5258-806-0; Königshausen & Neumann., ISBN 978-3-8260-6273-5

Taneja, Maneesha. (2016). *Dabhu*. Hindi translation of Anuja Chauhan's *Those Pricey Thakur Girls*, New Delhi: Westland Ltd.. ISBN 978-93-85724-28-2

Taneja, Maneesha. (2016). *Bonu*. Hindi translation of Anuja Chauhan's *The House That BJ Built*, New Delhi: Westland Ltd. ISBN 978-93-85724-31-2

Taneja, Maneesha. (2016). *Kasturba*. Chennai: Tulika Publishers.. ISBN 978-93-5046-749-7

Maurya, Vibha. (2016). *Cruces revolucionarios: La recepción de la poesía de Pablo Neruda en la India*. In Susanne Klengel and Alexandra Ortiz Wallner (Eds.), *Sur- South: Poetics and Politics of Thinking Latin America/India*, Iberoamericana, Vervuert, Madrid, Spain.

Sawhney, Minni. (2016). Jenni Rivera y sus corridos: la historia de un desafío. In Ramírez Pimienta, Juan Carlos. Tabuena-Córdoba, María Socorro. (Eds.), *Camelia la texana y otras mujeres de la narcocultura*, (Eds) (pp. 139-160) Sinaloa: Universidad Autónoma de Sinaloa.

Sawhney, Minni. (2016). Mexican U.S. border literature and the Narco Novel. In Raab, Josef. Hertlein, Saskia. (Eds.) *Spaces-Communities-Discourses, Charting Identity and Belonging in the Americas*, (pp. 51-65) Tempe, AZ: Bilingual Press.

Kumar, Ramesh. (2017). *भारत व इटली के स्वतन्त्रता संग्रामों का तुलनात्मक अध्ययन*, वाक् सुधा, पृ. सं. 7-13, (1840-1860), ISSN: 2347-6605

Kumar, Ramesh. (2016). *भाग्यशाली दाना*, (अनुदित इतालवी कहानी), परिसंवाद, पृ. 68-71, अंक 2(4) अंतरराष्ट्रीय हिंदी पत्रिका (तिमाही) ISSN: 2394-4919

Kumar, Ramesh. (2016). Creating enemies and building boundaries: Unending human venture. In *Universal Review*, 7(2), 87-94, International Refereed bi-annual journal, ISSN No. 2277-2723

Kumar, Ramesh. (2016). पाँच दुस्साही, (I cinque), (अनुदित इतालवी कहानी), (taken from a volume collected and transcribed from various dialects by Italo Calvino), सूर्यप्रभा (*Suryaprabha*), अंक 4, अप्रैल 2016, पृ.21-27, ISSN: 2348-4179

Kumar, Ramesh. (2016). Research article in Hindi, पत्रकारिता का सांप्रदायिक सिध्दान्त, *Suryaprabha*, March-16, 7-12, ISSN: 2348-4179

Venkataraman, Vijaya. (2016). The Shame-less One. Translated as 'L'éhontée', In *Le dîner des ogres. Contesemouvellessanguinaires*, (pp. 115-126) New Orleans/Bordeaux. Presses Universitaires du Nouveau Monde. First edition, ISBN-13: 978-1937030537

Venkataraman, Vijaya. (2016). Rewriting Genre / Gender?: Crime Fiction by Women Authors. In Bhaduri, Saugata and Mukherjee, Indrani (Eds.), *Transcultural Negotiations of Gender: Studies in (Be)longing*, (pp. 83-92), Springer India. doi: [http://link.springer.com/chapter/10.1007/978-81-322-2437-2\\_8#page-1](http://link.springer.com/chapter/10.1007/978-81-322-2437-2_8#page-1)

### Conferences Organised

Annual International Conference, *New Experiments in Contemporary Literature*, Dept. of Germanic and Romance Studies, University of Delhi, 2-4 March, 2017.

International Conference, *India/Latin America: Emerging Epistemological Options & Inter/Cross/Transcultural Dialogues*, A Sur/South Conference, partially supported by ICSSR, 10-12 Nov., 2016. .

### Seminar / Conference Presentation

Shaswati Mazumdar, *To market, to market. Some reflections on world literature and genres in current times*, Writing the Cosmopolitan Imagination: Genre Transactions in a Globalizing World, Dept. of English, University of Delhi, 12-13 Dec. 2016.

Minni Sawhney, Latin American Studies Association, New York May 27-30 June, 2016.

Vijaya Venkataraman, Keynote Address, *Miguel Angel Asturias, Rigoberta Menchú and the Literary Tradition of Guatemala*, in *Plural Spaces: Configuring a Literary Cartography of Guatemala /Espacios plurales: La configuración de una cartografía literaria de Guatemala*, Centre for European and Latin American Studies, Jamia Millia Islamia, March 30, 2017.

Vijaya Venkataraman, *Recreating Cervantes for our Times*, Four Hundred years of Shakespeare and Cervantes: Commemorations, Legacies, Afterlives, Dept. of English, Gargi College, University of Delhi, 18-19 Jan., 2017

Jyoti Sabharwal, *Literary Mappings of Colonial and Postcolonial Cities: A Study of Genre Crossings in Contemporary Fictions from Germany and India*, International Comparative Literature Association Conference. Vienna University, Austria. 22-27 July, 2016.

Jyoti Sabharwal, *Nation, Identity and Borders: Mapping Genre Crossings in Contemporary City Fictions from Germany and India*. International Conference, Writing the Cosmopolitan Imagination: Genre Transactions in a Globalised World, Dept. of English, University of Delhi, 12-13 Dec., 2016.

Jyoti Sabharwal, *Traversing Genres: Experimentations in City Fictions from Germany and India*, International Conference, New Experiments in Contemporary Literature, Dept. of Germanic and Romance Studies, University of Delhi, 2-4 March, 2017.

Ramesh Kumar, Presented paper, *Social Media: a threat or a challenge to main stream media!*, Conference Role of Media in Current Perspective, organised by Satyawati College, (Eve.) University of Delhi, March 10, 2017.

Ramesh Kumar, Presented paper, *Making enemies and creating borders: A continuous occupation of men*, three day International Conference, Borders: Metaphorical and Physical, Dept. of Germanic and Romance Studies, University of Delhi, March 4, 2016.

Ramesh Kumar, Presented paper, *Social Media: a way to transparent society*, Conference, Globalisation and Media, Satyawati College, University of Delhi, April 25, 2016.

Ena Panda, *Récit de voyage photo-littéraire : une étude de Noa Noa de Paul Gauguin*, International Conference, Récit de voyage dans la littérature française et francophone, Banaras Hindu University, Varanasi, 2017.

Ena Panda, *Deconstructing the queer aesthetics of Le bleu est une couleur chaude by Julie Maroh*, International Conference on the theme New Experiments in Contemporary Literature, Dept. of Germanic and Romance Studies, 2017.

## M.Phil / PhD Awarded

MPhil – 02

PhD. – 01

## Faculty Strength

Permanent: 15

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## HINDI

### Major Activities and Achievements

Being one of the leading department of Hindi in the country, it creates, innovates promotes high standards of academic excellence. The Dept. has a dynamic curriculum that reflects and the needs of changing times, rapid growth in knowledge and requirements. High standard of research is maintained in and by the Dept. as per UGC norms. Major activities include two National-level Seminars under DRS-SAP, funded by U.G.C. for *Hindi Sahitya Ke Itihas Ka Punarlekhan*; and one International Seminar on *Bhakti Aandolan Aur Vartman Vaishwik Paridrishya Mein Guru Jambhoji Ka Chintan* in collaboration with Jambhani Sahitya Academy, Bikaner. *Lekhak se Miliye* dialogue is periodically organised.

### Honours / Distinctions

Prof. Sheoraj Singh:

Subramanyam Bharti Samman, April 19, 2016.

Katha Chakra Samman Sept. 24, 2016.

Dr. Vinod Tiwari, Vanmali Katha-Alochna Samman for contribution in the field of Katha-Alochna, April 5, 2016.

### Publications

Mishra, A. (2017). *Syahi Mein Surkhwab Ke Pankh*. New Delhi: Rajkamal Prakashan. ISBN: 978-81-267-3001-8

Negi, S. L. (2016). *Maitreyi Pushpa Ki Rachnaon Ka Lok Paksh*. Delhi: Swaraj Prakashan; ISBN: 978-93-83513-82-6

Negi, S. L. (2016). Aakrosh Visthapit Hote Adivasiyon Ka Yatharth. *Adivasi Sahitya II*(6), 70-73, ISBN: 2394-689X

Negi, S. L. (2016). Kinnaur Ki Hastkalayein. *Adivasi Sahitya, II*(7-8), 10-14. ISBN: 2394-689X

Negi, S. L. (2016). Dalit Aatmakathaon Mein Samajik Sangharsh. In Prof. Sunanda Mohite (Ed.), *Bhartiya Dalit Sahitya*, (pp.108-110), Maharashtra: Harshvardhan Publication. ISBN: 978-93-85885-03-06

Negi, S. L. (2016). Stree Chhavi Aur Hindi Patrakarita. In Dr. Kamna Mahendru (Ed.), *Media Aur Samsamyik Samikaran*, (pp. 30-34), Chandigarh: Shri Ram Law House, ISBN: 9789385618420

Negi, S. L. (2017). Gandhi Ki Ahimsa, Samajik Sadbhav Aur Sahitya. In Dr. Rama (Ed.), *Vartman Paridrishya Aur Gandhi*, (pp. 81-87) Delhi: Samvad Media Pvt. Ltd. ISBN: 978-93-84280-28-4

Negi, S. L. (2017). 'Shikanje Ke Dard Aur Dalit Stree' Chapter in Book Samkaleen Sahitya Aur Dalit Vimarsh; Edited by Prof. Sanjay L. Madar, Takshila Prakashan, Delhi; Page No. 82-85, ISBN : 978-817965-281-7

Negi, S. L. (2017). Adivasi Kavitaon Mein Asmita Ki Ubharti Chetna. In Dr. Harish Arora (Ed.), *Swatantrrottar Hindi Kavita Naye Rachnatmak Sarokar-I*, (pp. 73-75), Delhi: Sahitya Sanchay., ISBN: 978-93-82597-72-8

Patel, R. (2017). Chhayawad Ke Pratham Nibandhkar: Mukutdhar Pandey, *Bahuvachan*, 52, 150-154. ISSN: 2348-4586

Patel, R. (2017). Swatantrayotter Hindi Kavita, *Rachnatmak Sarokar*. Part-I; pp. 51-53

Patel, R. (2016). Paribhashik Shabdawali: Chintan Ke Vividh Paksh, *Gaveshana*, 107, 120-126, ISSN: 0435-1460

Patel, R. (2016). Mukutdhar Pandey Aur Chhayawadi Kavi. *Aagmit*, 5, 43-45, ISSN: 2277-520x

Rai, A. (2016 / 2017). Mahakavi Meer Aur Unki Kavita. *Nai Dhara*, Patna; 9-10.



- Rai, A. (2017). Peking Opera. *Nai Dhara*, Patna, 11-12
- Sharma, K. (2017). *Bhartiya Sahitya Ke Nirmata – Ambika Prasad Vajpei*. New Delhi: Sahitya Academy.
- Tandon, P. C. (2017). (Ed.), *Sahitya, Cinema Aur Sama.j*
- Tandon, P. C. (2017). (Ed.), *Mahatma Gandhi Aur Hindi*.
- Tiwari, V. (2016). (Ed.), *Upanyas : Kala Aur Siddhant Part-I/II* Delhi: Ananya Prakashan.
- Tiwari, V. (2016). (Ed.), *Kathalochna: Drishya-Paridrishya*. Hindi Medium Implementation, Delhi University, Delhi.
- Tiwari, V. (2016). (Ed.), *Acharya Mahavir Prasad Dwivedi Ke Shreshth Nibandha*. Allahabad: Lokbharti Prakashan.
- Tiwari, V. (2016). (Ed.), *Aadya Naika Shahadra*, Delhi: B.K. Offset.
- Tiwari, V. (2016). *Pravanchana Ke Kshitij Ko Metne Mein Khud Hi Mitne Wala Upanyas. Upanyas Lamahi, I*, 96-98.
- Tiwari, V. (2016). *Nirasha Ke Bawazood Ummid Ki Ek Nayi Varnamala' Samiksha, II*, 16-18.
- Tiwari, V. (2016). *Waqt Ke Chehre Ko Aaina-E-Husna Mein Dekhna' Mantawya, VI*, 195-204.
- Tiwari, V. (2017). *Likhta Hai Dast-E-Gaib Koi Iis Kitab Mein' Banas Jan, 21*, 294-297.
- Tiwari, V. (2017). *Muktibodh Hazir Ho !!! Anhad, 7*, 324-348.
- Tiwari, V. (2017). *Pandit Narendra Sharma Ki Kahaniyan' Abhyantar, 1*, 47-50.
- Tiwari, V. (2016). *Nityanand Tiwari Ki Aalochna Drishti' Samkalin Soch, 63*, 71-79.
- Tiwari, V. (2016). *Bhaktikalin Kaviyon Ke Lokdharmi Pravritti' Abhyantar, 2*, 6-10.

### Research Projects

Dr. Manju Mukul Kamble, On Going Major Research Project, *Vartman Hindi Jansachar Madhyamon Mein Anuvaad Ki Prakriya Ka Bhashik Vishleshan*, July 2015 to June 30, 2018, funded by U.G.C., Rs. 12,40,000/-

### Seminars Organized

Prof. Puran Chand Tandon organized two days Translation Workshop, *Anuwad : Karyalayee, Media Aur Sahityik Kshetra*, 17-18 Dec., 2016.

### Conferences Organized

Prof. Puran Chand Tandon organized two days National Conference *Sanskritik Rashtrawad Aur Hindi*, Directorate of Central Hindi, MHRD, Govt. of India, Feb. 4, 2017.

### Seminar / Conference Presentations

Jha, Apoorvanand, *Locating Multilingual Geographies*, Organized by SOAS, London-India Partner, London July 23, 24, 25, 2016.

Kamble, Manju Mukul., Presented paper, *The new techniques of Film Translation*, International Conference, Translation: Art, Craft and Cross-Cultural Praxis, Dept. of Slavonic and Finno Ugrian Studies, 25-26 Oct., 2016.

Presented paper, *Bhartiya Sahitya mein Rashtriya Chetna*, National Conference, Central Hindi Directorate and Hindi Dept. Usmania University, 5-6 Nov., 2016.

Kamble, Manju Mukul., Presented paper, *Sanskritik Asmita Ka Prashna Aur Bhasha (Hindi Kavita Ke Sandarbha Mein)*, International Conference, Central Institute of Hindi, Agra and Rashtriya Sanskrit Sansthan, New Delhi, 28-29 Sept., 2016.

Mishra, Alpana., Ranchi University, Ranchi, July 28, 2016.

Mishra, Alpana., IIT, Banarash Hindu University, Varanasi Aug. 11, 12, 13, 2016.

Negi, Sneha Lata., Presented paper, *Movement of Indigenous People Worldwide*, International Day of the World Indigenous People, Jawaharlal University, New Delhi Aug. 8, 2016.

Negi, Sneha Lata., Presented paper, *Samaveshi Samaj Ke Nirman Mein Adivasi Andolan Aur Jan Nayak Birsa Munda Ki Bhoomika* Delhi University Academic Forum, Delhi; 14 Nov., 2016

Negi, Sneha Lata., Presented paper, *Sahitya Aur Kashmir Samasya*, Peace People and Possibilities in Kashmir, Organised by Vishwagram at Jawaharlal Nehru University, New Delhi 29-30 July, 2016.

Negi, Sneha Lata., Presented paper, *Paryatan Ke Samazik Sanskritik Sarokar*, Social Concern of Tourism, Thar Tourism and Historical Academy of Rajasthan, LBS College, Jaipur 09-10 Sept., 2016.

Negi, Sneha Lata., Presented paper, *Adivasi Kavitaon Mein Stree Swar*, Swatantratar Bhartiya Sahitya Aur Sanskriti, Vishisht Sanskrit Adhyayan Kendra, Jawaharlal Nehru University, New Delhi, 28-29Sept., 2016.

Negi, Sneha Lata., Presented paper, *Bharat Mein Berozgari Ki Samasya Aur Vartman Mein Rozgar Ki Sambhavnayein*, Enhancing Employment and Income Generation, Skill of People in India, Aditi College, Delhi University, Delhi, 01 Oct., 2016.

Negi, Sneha Lata., Presented paper, *Gandhi Ki Ahimsa Samajit Sadbhav Aur Sahitya*, Vartman Paridrishya Aur Gandhi, Hansraj College, Delhi University, Delhi, 8-9Nov., 2016.

Negi, Sneha Lata., Presented paper, *Social Contribution of Savitribai Phule*, Rajiv Gandhi Study Circle, Delhi, 05 Jan., 2017.

Negi, Sneha Lata., Presented paper, *Adivasi Kavitaon Mein Asmita Ki Ubharti Chetna*, Swatantratar Hindi Kavita Mein Naye Rachnatmak Sarokar PGDAV College, Delhi University, Delhi, 23-24 March, 2017.

Rai, Anil., Presented paper, *The Great Poet Meer and his Poetry*. International Urdu Literature Congress at Antalya, Turkey, Organized by Ankara University, Turkey 12-15 Oct., 2016.

Rai, Anil., National Seminar on Functional Hindi, Organized by Gujrat Vidyapeeth, Ahmadabad, 10-12 Dec., 2016.

Rai, Anil., Presented paper, *Humanism in Guru Jambheshwar Vani*, International Conference on Thoughts of Guru Jambhoji in context of Bhakti Movement and Global Perspective, Vigyan Bhawan, New Delhi, Jambhani Sahitya Academi & Hindi Dept. 18-19 March, 2017.

Rai, Anil., *Global Perspective of Hindi : Language & Literature*, National Seminar, University of Kashmir, Srinagar, 29-30 March, 2017.

Sharma, Kumud., *Mahila Lekhan Mein Istri Vimarsh*, University of Delhi, Sept. 28, 2016.

Sharma, Kumud., *Swatantrata Ke Baad Rashtriya Chetna*, University of Delhi, Nov. 6, 2016.

Sharma, Kumud., *Lekhan Kaisa Ho*, University of Delhi, Feb. 2, 2017.

Sharma, Kumud., *Janmadhyamon Ka Sanskritik Rashtrawad* University of Delhi, Feb. 4, 2017.

Sharma, Kumud., *Bhoomandalikaran Yug Mein Media*, University of Delhi, Feb. 22, 2017.

Sharma, Kumud., *Sahitya Ka Rashtriya Dayitwa*, March 17, 2017.

Tiwari, Vinod., *Upnivesh-Yugeen Bharat Aur Amritlal Nagar Ke Upanyas*, Banaras Hindu University, Varanasi, Nov. 12, 2016.

Tiwari, Vinod., *Samkaleen Sahitya, Samaj Aur Chunautiyan*, SIES College, Mumbai University, Mumbai, Dec. 30, 2016

Tiwari, Vinod., *Bhishma Sahni Ki Aatmakatha: Aaj Ke Ateet*; Kareen City College, Jamshedpur, Jan. 9, 2017.

Tiwari, Vinod., *Hindi Kahani: Bhoomandlottar Samay Aur Sanskriti*; Gandhinagar, University of Gujrat, Jan., 2017.

Tiwari, Vinod., *Hindi Katha Sahitya: Dasha Evam Disha*, Motilal Nehru College, Delhi University, Delhi, Jan. 21, 2017.

Tiwari, Vinod., *Bhartiya Upanyas Mein Samaj Aur Sanskriti Ki Rachna*, Erciyes University, Turkey & Marathawada University, Aurangabad, Feb.4, 2017.

Tiwari, Vinod., *Samsamyik Paridrishya Aur Hindi Upanyas*, Hindi Academy, Delhi, March 24, 2017.

Tiwari, Vinod., *Bhoomandaliya Yathartha Aur Nai Sadi Ki Kahani*, SIES College, Mumbai University, Mumbai, April 20, 2017

#### **M.Phil. / Ph.D. Awarded**

Ph.D. – 11  
M.Phil. – 22

#### **Faculty Strength**

Permanent – 21

#### **Other Significant Information**

Dr. Alpana Mishra received Valmiki Katha Samman, 2017.  
Prof. Kumud Sharma Live Commentary at Singhasht Mahakumbh, Ujjain for Delhi Doordarshan.

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## LIBRARY AND INFORMATION SCIENCE

### Major Activities and Achievements

Instituted in 1946, with the efforts of Dr.S.R.Ranganathan and Prof. S. Das Gupta, the Library and Information Science (LIS) Department was the first in India and also recognized as an associated project of UNESCO. The Department, with its experienced faculty continues to strive hard and engages in LIS research and dissemination of qualitative knowledge through its courses viz. B.L.I.Sc., M.L.I.Sc., M.Phil and Ph.D. The students' after completion of respective course are shouldering the responsibilities of library administration and management at national and international levels.

### Honours /Distinctions

Dr. K.P. Singh

Member, Editorial Board. IJKCDT- International Journal of Knowledge Content Development & Technology, North Korea,

Member, Editorial Board. Gyankosh- Journal of Library and Information Management, India.

President, Satija Research Foundation for Library and Information Science, India

Distinguished Library Science Teacher -2016 awarded by Delhi Library Association, Delhi.

### Research Projects

Dr. K.P. Singh:

Major Research Project (MRP), *Design and Development Portal of Library and Information Science (LIS) in India*, funded by University of Grants Commission (UGC)

Completed Major Research Project (MRP), *Design and Development Web Enabled Directory of Aerospace Scientists in India* funded by Aeronautics and Research Development Board (AR&DB)/ DRDO, Govt. of India.

### Publications

Books

Bhatt, R.K. et al. (2016). (Eds.), *Perspectives of Knowledge Management*. Delhi: K.K.Publications.

Journal Articles:

Walia, P, K. & Bhatt, P. (2016). ICT Components in MLIS Curriculum in North India: A Content Analysis. *IOSR Journal of Humanities and Social Science* 21.8, Ver.7, 26-37. e-ISSN: 2279-0837 print ISSN 2279-0845

Kaur, M. & Walia, P, K. (2016).Electronic Resource Collection Development and Management of Indian Management Libraries. *Collection Building*. (Emerald) 35.3, 73-83, Print ISSN: 0160-4593

Gupta, M. & Walia, P, K. (2016).WISER Ranking of the African National Libraries Websites. *Information Technologist* 13.1 1,(159), ISSN: 1597-4316

Bhatt, R.K. & Shrivastava, G Gaur. (2016). Library Services in inclusive environment: Role of Marketing Tools. *Internataional Journal of Information Dissemination and Technology*, 6(2), 122-26.

Bhatt, R.K., Kumar, A. & Yusuf, M. (2016). Marketing of LIS Products and Services in Select Economics Libraries in Delhi.*DESIDOC Journal of Library and Information Technology*. 36.3, 131-142.

Bhatt, R.K. & Bharti. (2016). Changing Scenario of Libraries in Web 3.0. In R. K. Bhatt, et al. (Eds.), *Perspectives of Knowledge Management*, (pp.294-304) Delhi: K.K. Publications .

Bhatt, R.K., Kumar, M. & Shrivastava, G. Gaur. (2016). Role of Librarian in Electronic Environment: Opportunities and Challenges. In R.K.Bhatt et al. (Eds.), *Perspectives of Knowledge Management*, (pp.242-248) Delhi: K.K. Publications.

- Singh, K.P. & Chander, H. (2017). Books published in Punjabi: A case study of BhasaVibhag, Punjab. *Library Herald*. 55(1), 89-100.
- Singh, K.P. & Chander, H. (2016). Publication output of Indian Journal of Traditional Knowledge: A Bibliometrics analysis. *Library Herald*, 54 (3), 277.289.
- Singh, K.P & Singh, M. (2016). Marketing of Library Products and Services in Select Social Science Libraries in Delhi: A Study of Librarians' Viewpoint. *Journal of Library and Information Science*, 41(1-2); 2016;
- Tasnim, Z. & Singh, K.P. (2016). Use of E-journals by Faculty Members and Research Scholars in Area Studies: A Case Study of Select Area Studies Centers of Jawaharlal Nehru University. *Library Herald*, 54(4) , 406-420.
- Kumar, M., Bhatt, R.K. & Shrivastava, G, Gaur. (2016). Role of Librarian in Electronic Environment: Opportunities and Challenges . In R.K. Bhatt and others (Eds.), *Perspectives of Knowledge Management*,(pp. 242-248) Delhi: K.K. Publications,
- Bhardwaj, R& Madhusudhan, M. (2017). Metadata framework for online legal information system in Indian environment. *Library Review (Emerald)* 66.1/2, 49-68. ISSN: 0024-2535, ISI Journal, SJR - 0.497 (2015); h-index-16.
- Bhardwaj, R. & Madhusudhan, M. (2016). Online Legal Information System for Indian Environment: A User's Perspectives. *Library Review (Emerald)* 65.8/9, 593-624. ISSN: 0024-2535, ISI Journal, SJR - 0.497 (2015); h-index-16.
- Saleeq, A., Dar. & Madhusudhan, M. (2016). Use of Mobile Devices in Enhancing Information Services: Analysis of the students opinion in the University of Delhi, *Proceedings of the 5th International Conference on Digital Libraries (ICDL 2016)*, New Delhi, India, 13-16622-635, ISBN: 978-81-7993-653-5
- Bhardwaj, R. & Madhusudhan, M. (2016). Metadata Framework for Online Legal Information System in Indian Environment, *Proceedings of the 4th International Conference of 8th Qualitative and Quantitative Methods in Libraries (QQML 2016)*, London, UK, 24-27 May, 2016.
- Madhusudhan, M. & Saleeq, A., Dar. (2017). Mobile Information Services and Initiatives in University Libraries: A New Way of Delivering Information. *DESIDOC Journal of Library & Information Technology*, 37.2, 109-118 ISSN: 0976-4658, SJR - 0.364; h-index-4.
- Gupta, P. & Madhusudhan, M. (2017). RFID Technology in Libraries: A Review of Literature of Indian Perspective. *DESIDOC Journal of Library & Information Technology* 37.1, 58-63 ISSN: 0976-4658, SJR - 0.364.
- Dar, S. A. & Madhusudhan, M. (2016). Quick Response Codes in University Libraries: User Expectations for Fast Retrieval of Information at the University of Delhi\_ *Journal of Knowledge & Communication Management*, 6.2, 114-127,ISSN: 2277-7946
- Bhushan, G. & Madhusudhan, M. (2016).\_Access versus Ownership of Information and DESIDOCs Balancing Act . *DESIDOC Journal of Library & Information Technology*, 36.5, 320-324, ISSN: 0976-4658, SJR - 0.364.
- Madhusudhan, M. (2016). Development of Web Directory of Aerospace Testing Facilities in India. *DESIDOC Journal of Library & Information Technology*, 36.4, 240-247, ISSN: 0976-4658, SJR - 0.364
- Madhusudhan, M. (2016). Use of online citation tools by students and research scholars of the Dept. of Library and Information Science, University of Delhi . *DESIDOC Journal of Library & Information Technology* 36.3, 164-172, ISSN: 0976-4658, SJR - 0.364.
- Jeemsha, S. & Madhusudhan, M. (2017). Role of designation and agencies for learning: *A study of Library Professionals working in Central University Libraries of South India*. Ajit Kumar (Ed.), (pp.114-118) Delhi: G B Books Publishers. ISBN: 978-93-83930-66-1

### **Conference Presentation**

M. Madhusudhan:

Keynote Speaker, International Conference, Knowledge Generation, Discovery and Networking (KGDAN-2017), Dept. of Library and Information Science, Aligarh Muslim University, Aligarh-202002, 15 & 16 Feb., 2017.

Presented paper, *Use of Mobile Devices in Enhancing Information Services: Analysis of the students Opinion in the University of Delhi*, Three day International Conference on Digital Libraries, Smart Future: Knowledge Trends that will change the World, organized by TERI, New Delhi, 13-16 Dec., 2016.

Chaired three Sessions in International Conference on Digital Libraries (ICDL 2016) – Smart Future: Knowledge Trends that will change the World, organized by TERI, New Delhi. 13-16 Dec., 2016).

## Faculty Strength

Permanent – 8

## Other Significant Information

This year the Dept. organized Educational Tour Programme in two parts – Local Library Tour and Outside Delhi Educational Tour – and through these provided an opportunity to the students to see, learn and gain experience of different library activities and functioning. Apart from that the Dept. organised other cultural activities provide a platform of learning and entertainment to the student community.

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## LINGUISTICS

### Major Activities and Achievements

Apart from regular teaching and research supervision of post-graduate students in Linguistics, one Ph.D. and six M.Phil.s were awarded during the period. The faculty members were engaged in six major international collaborations, including international collaborative research work with MOUs between the University of Delhi and other universities overseas. Students have benefitted immensely not only by contributing to research and publications, but also by working with them and increasing their international exposure and skills. The Department has also been continuing to impart Hindi language classes to students from Korea, twice a year. Two current chief editors of reputed journal in Linguistics, *Asia-Pacific Language Variation* and *Indian Linguistics* are from the Department Faculty.

### Publications

Bagchi, T. (2017). Issues in (co-)reference, syntactico-semantic typology, and Discourse Representation. In Shailendra K. Singh and Saralin A. Lyngdoh (Eds.), *Syntactic Typology, Language Contact and Convergence*, (pp.42-52), Guwahati: EBH Publishers.

Bagchi, T. (2016). Tagore, musical competence and performance in ‘globalised’ education: Problems and prospects. In Sangeeta Datta and Subhoranjan Dasgupta (Eds.), *Tagore: The World as His Nest*, (pp.89-105), Kolkata: Jadavpur University Press.

Bagchi, T. (2016). Review of Anjani K. Sinha, 2015, Empowering communication skills. *Language & Language Teaching*, 5.1(9), 59-61, Shipra Books, New Delhi.

Bhattacharya, T. (2017). Peopling of the Northeast, Part 4, *neScholar*, 3(2), 52-65.

Bhattacharya, T. (2017). Adoption of universal design for learning for meaningful inclusion. In D. Sonpal, S. Prasad, and S. Vaishnav (Eds.), *Child and Disability*, Prabhat Publishing House.

Bhattacharya, T. (2017). Peopling of the Northeast, Part 3, *neScholar*, 3(1), 60-70.

Bhattacharya, T. (2016). Peopling of the Northeast, Part 2, *neScholar*, 2(4), 66-75.

Bhattacharya, T. (2016). Diversity at workplace and education. In *Interrogating Disability in India: Theory and Practice*, Springer, 39-64.

Bhattacharya, T. (2016). Inner/Outer politeness in *Central MāgadhanPrākṛit* Languages: Agree as Labeling, *Linguistics Analysis*, 40(3-4), 297-336.

Bhattacharya, T. (2016). To be human: The introduction, *neScholar*, 2(3), 66-73.

Bhattacharya, T. (2016). Review of empowering communication by Anjani Kumar Sinha, *Indian Linguistics*, 76(3-4).

Bhattacharya, T. (2016). But words can never hurt: The linguistic construction of disability in text and discourse, *LLT 10*, 5.3 (10), 53-60.

Bhattacharya, T. (2016). Review of *Rethinking Disability in India*, Anita Ghai, *LLT 10*.

Bhattacharya, T. (2016). Suggested reading: South Asia disability studies. *Redefining Boundaries and Extending Horizons*.

Satyanath, S. (in press). Editorial. *Asia-Pacific Language Variation*, 3(1), 1-4.

Satyanath, S. (in press). Kohima: Language variation and change in a small but diverse city in India. In Dick Smakman and Heinrich Patrick (Eds.), *Urban Sociolinguistics: The city as a linguistic process and experience* (pp. 95- 112). London and New York: Routledge.

Satyanath, S. (2017). Mapping linguistic diversity in colonial Bengal. In Nicholas Ostler and Panchanana Mohanty (Eds.), *Language colonization and Endangerment: Long-term effects, echoes and reactions*. Proceedings of the 20th FEL Conference (pp. 27-32), England: Foundation for Endangered Languages. ISBN 978-0-9560210-8-3

Satyanath, S. (2016). Editorial. *Asia-Pacific Language Variation*, 2(2), 121-123.

Satyanath, S. (2016). Editorial. *Asia-Pacific Language Variation*, 2(1), pp.1-3

Satyanath, S. and Sharma, R. (2016). The growth of English in Delhi: New perspectives in a multilingual setting. In Singh, Jaspal, Argyro Kantara and Dorottya Cserző (Eds.) *Downscaling Culture: Revisiting Intercultural Communication* (pp. 192-227). Newcastle: Cambridge Scholars.

### **Research Projects**

Dr. Tanmoy Bhattacharya, Indo-Norway Cooperation Programme (INCP), 2014-17, *A Microcomparative Study of 'Doubling' in Dialects of Meiteilon and Norwegian as a case of Syntactic Variation*, funded by UGC, Rs.65,81,491/-

Dr. Tanmoy Bhattacharya, UGC Major Research Project, 2015-18, *Linguistic Variations across six Dialects of Meiteilon*, funded by UGC, Rs.11,99,400/-

### **Seminars / Workshop Organised**

Two days Workshop on Grammar in the Classroom organized in the Dept. of Linguistics from . The Key speakers include Kristin MelumEide (NTNU), Heidi Broseth (NTNU), Mari Nygard (NTNU), Heidi Broseth (NTNU), Tor Afarli (NTNU) and many other speakers, 20-21 Feb., 2017.

Two days International Seminar on Linguistics and Teaching of Hindi and Other Indian Languages as Foreign Language held during 27-28 Feb., 2017. More than 80 attended the seminar and/or presented their paper.

Three days Workshop organized in the Dept. of Linguistics, 2-4 March, 2017 on Acoustic Phonetics. More than 40 attended the workshop.

### **Seminar / Conference Presentation**

Ramesh Chand Sharma, Presented a key paper, *NLP and the Psycho-Neurolinguistic Implications*, National Workshop cum Seminar Modern Perspective of NLP for Hindi and Other Indian Languages, held at Mahatma Gandhi Antarrashtriya Vishwa Vidyalaya, Wardha, 17-19 Aug., 2016.

Ramesh Chand Sharma, Valedictory Lecture, International Conference on Mediatization, Culturalization and Language Alteration held at Aligarh Muslim University, Aligarh on 5-7 Jan., 2017.

Ramesh Chand Sharma, Dr. P. Somasekharan Nair Memorial Lecture, the International School of Dravidian Linguistics, Thiruvananthapuram, Feb. 9, 2017.

Ramesh Chand Sharma, Presented a paper, *Indian Grammatical Tradition and Significance of IGT-Linguistics Interface* at the National Seminar on Indian Grammatical Tradition held at the International School of Dravidian Linguistics, Thiruvananthapuram on 10th Feb., 2017.

Tista Bagchi, Invited paper presented, *Contact over millennia? Linguistic and textual-performative exchanges between Indian and Southeast Asian Civilisations*, Interdisciplinary Seminar on Lineages of Interaction between India, Southeast Asia and East Asia jointly organised by the Dept.s of Ancient History, Archaeology, and History, University of Calcutta, Kolkata, 19-20 Jan., 2017.

Tista Bagchi, Invited paper presented, *Can the clause and the proposition be gleaned from ancient and mediæval linguistic thought in India and West Asia?* National Seminar on Indian Grammatical Traditions hosted by The Asiatic Society, Kolkata, 20-21 Feb., 2017.

Tista Bagchi, Paper presented in absentia, *On Aktionsart issues relating to dative-experiencer predicates in Indic*, 33rd South Asian Languages Analysis Roundtable (SALA 33) International Conference at Adam Mickiewicz

University, Poznan, Poland, EU, 15-17 May, 2017.

Tista Bagchi, Poster presentation With Sarada Biswas, *Tectogrammatical Representation and Annotation in Hindi and Bangla: A possible strategy for semantic information retrieval*. 38th International Conference of the Linguistic Society of India (ICOLSI 38), IIT Guwahati, Nov. 10-12, 2016.

Shobha Satyanath, *Mapping linguistic diversity in colonial Bengal. Language colonization and Endangerment: Long-term effects, echoes and reactions*. The 20th FEL Conference. (Dec 9-12, 2016)

Shobha Satyanath, *Hybridity, multilingualism, identity and change in Nagaland. Language power and Identity in Asia: Creating and Crossing Language boundaries*. IAS Leiden, Netherlands. (March 14-16, 2016)

Shobha Satyanath, *Motivation for language change in language contact*. NWAV-AP 4. National Chung Cheng University, Taiwan. (April 20-22, 2016)

Shobha Satyanath, *Understanding linguistic plurality in India*. Academic Conclave, St. Stephen's College. (March 29-31, 2017)

Tanmoy Bhattacharya, *The structure of English in-mixing in Meiteilon and Norwegian: Different, but still the same* (with Tor A. Åfarli), 4th Fourth Conference on Language Contact in Times of Globalization (LCTG4), Greifswald, March 16, 2017.

Tanmoy Bhattacharya, Invited talk, *The 'Cyclic' Nature of Clitic Placement in Munda* International seminar on Munda Linguistics, Deccan College, Pune, March 16, 2017.

Tanmoy Bhattacharya, *Shifting the Epistemic Centre: Teaching Sign Linguistics*, Workshop on Grammar in the Classroom INCP, University of Delhi, Feb. 20, 2017.

Tanmoy Bhattacharya, Invited talk, *A-Void-ing* Panel on Identity in the Contemporary World Lady Shriram College, University of Delhi, Jan. 20, 2017.

Tanmoy Bhattacharya, Invited talk, *Language Mixing and Coercion*, SynKranti, EFLU, Hyderabad, Jan. 6, 2017.

Tanmoy Bhattacharya, Invited talk, *Language is not speech: The non-linearity thesis*, BPS Mahila Vishwavidyalaya, Haryana, Dec. 5, 2016.

Tanmoy Bhattacharya, Invited talk, *The Importance and Urgency of Setting up of Centres of Disability Studies*, JNUVCSF, JNU, New Delhi, Dec. 3, 2016.

Tanmoy Bhattacharya, Invited talk, *Code-Switching without Grammar? Evidence from Language Mixing in Meiteilon-English and Bangla-Hindi*, ICOLSI 38, IIT, Guwahati, Nov. 11, 2016.

Tanmoy Bhattacharya, Invited talk, *The Non-Linearity Thesis: Language and Evolution*, NIT, Imphal, Nov. 3, 2016.

Tanmoy Bhattacharya, Invited talk, *Language and Evolution*, Manipur University, Imphal, Oct 31, 2016.

Tanmoy Bhattacharya, *Goldberg Variations: Arguing against Pseudo-Nonlexicality*, SynVar3, CASL, DU, Oct 13, 2016.

Tanmoy Bhattacharya, Invited talk, *The importance of understanding with 'care': The case of language mixing at Education through MT*, CIIL, Mysore, July 16, 2016.

Tanmoy Bhattacharya, Invited talk, *Meiteilon-English Code Switching: A Non-Lexical Approach*, Manipur University, Imphal, June 20, 2016.

Tanmoy Bhattacharya, Paper presented, *Primacy of Case in Centre-Embedding Constructions in Assamese and Bangla*, (With Atreyee Sharma), 22nd Himalayan Linguistics Symposium, IIT, Guwahati, June 8, 2016.

Tanmoy Bhattacharya, Paper presented, *C-Transitivity in Meiteilon*, (With HidamGaourashyam Singh) in 22nd Himalayan Linguistics Symposium, IIT, Guwahati, June 8, 2016.

Gail Coelho, Special lecture, *The Betta Kurumba binji: Its role in maintaining a distinct community identity*, at the International Seminar on Tribal Art forms of India, KIRTADS, Kozhikode, Kerala, March 25-27, 2017.

Gail Coelho, Keynote address, *The value of language: Why we care*, Symposium on Aka (Hrusso) Script, Aka (Hrusso) Society, Bhalukpong, Arunachal Pradesh, May 13-14, 2016.

### **Inter-Institutional Collaboration**

Hankuk University of Foreign Studies, South Korea.

Busan University of Foreign Studies, Busan, South Korea.  
University of Hamburg, Germany.

**M.Phil. / Ph.D. Awarded**

Ph.D. – 01  
M.Phil. – 06

**Faculty Strength**

Permanent – 6

**Other Significant Information**

Total number of students in M.A. programme is 68, in M.Phil. programme is 18 and in Ph.D. program is 16.

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## MODERN INDIAN LANGUAGES AND LITERARY STUDIES

**Publications**

Books:

Barman. M. (Ed.). (2016). *Nilakanthi*. New Delhi: Mamoni Raisom Goswami Memorial Trust Delhi.

Narayanappa, V. (2016). *Vemana-Sarvajna-Tiruvalluvarla Racanalloo Strii Paatra Vinyaasam: Oka Tulanaatmaka Adyayanam*. (Woman in the Poems of Vemana, Sarvajna and Tiruvalluvar: A Comparative Study), Delhi: Sri Vinayaka Pracuranalu.

Rajagopal, G. (2016). *Etiquette and Ethos: Ethics in Tirukkural and Acarakkovai*. Delhi: Sun International Publishers.

Rajagopal, G. (2016). *Behavioural Psychology and Sangam Poetry*. Saarbrucken, Germany: Lambert Academic Publishing.

Articles:

Pattanaik, P.C. (2016). Lepcha oral narratives: Visiting Aathing K. P. Tamsang's Collections of Folktales, in Lyangsang Tamsang, (Ed.), *Language, Literature and Culture of the Lepchas*, Darjeeling: Lepcha Development Board and ILTA.

Venkata, R. G. (2017). *Dhillilo Telugu Bhashabhivruddhi: Sangharshana, Sahajeevanam* (in Telugu). In Pavan Kumar, P. (Ed.), *Language development strategies in the era of Globalization: Telugu*. Edited by, www.languageinindia.com, ISSN 1930-2940.

Venkata R. G. (2017). *Bhubakasurula Bhagotam Vivarinche Bhuchakram Navala* (in Telugu) in Malyadri, B. (Ed.), *Benguluru Telugu Tejam*, Edited by ISSN: 2319-2550

**Research Projects**

Rajagopal. G., University of Delhi, (16 Oct., 2015 to 30<sup>th</sup> Oct., 2016), *Cultural Poetics and the Early Tamil Literature (c. 200 B.C.–A.D. 600)*, Rs. 1,20,000/-.

**Seminars Organised**

National Seminar *Literary Relations: India and the World*, 9-10 March, 2017.

**Seminar / Conference Presentation**

Pattanaik, P.C., Chaired Session, National seminar, *Literary Relations: India and the World* organized by the Dept. of Modern Indian languages and Literary Studies, University of Delhi and *Praktani*, New Delhi, 9-10 March, 2017.

Chaired Session and presented a paper on *Lepcha Land: Oral Tradition and Identity* in the International Seminar on *Tribal Traditions and Community Identity*, organized by the Centre of Excellence, Dept. of Odia, Visva Bharati, Shantiniketan, 2-4, March, 2017.

Pattanaik, P.C., Keynote address, National Workshop on *Manuscriptology and Paleography*, conducted by the National Manuscripts Mission, New Delhi, and Dept. of Odia, Berhampur University, Odisha, 27 Jan., 2017.



Pattanaik, P.C., Inaugural Address, on an event organized by the Mayel Lyang Lepcha Development Board, Govt. of West Bengal to commemorate the birthday of the Lepcha King, Gaebou Achyok, Kalimpong, 20 Dec., 2016.

Pattanaik, P.C., Five lectures in the Training Programme on *Fieldwork and Documentation: Tribes of Eastern India* conducted by the Centre of Excellence, Dept. of Odia, Visva Bharati, Shantiniketan, 27-29 June, 2016.

Pattanaik, P.C., Presented a paper, *The Jatra Tradition of Odisha*, National Seminar Indian Theatre and Transit Modernity, organized by Gujarat Sahitya Akademy and in the Dept. of MIL & LS, University of Delhi, 7-18 May, 2016.

Pattanaik, P.C., Rajagopal, G., presented a paper *Palantamil Panbattil Parattamai: Sangak Kavidaigalai Munvaittu* (Concubinage in the Ancient Tamil Culture: Sangam Poetry), National Seminar on Ancient Tamil Culture Through Multiple Perspectives, Centre of Indian Language, Literature & Cultural Studies, Jawaharlal Nehru University, Delhi, 17-18 March, 2017.

Gampa. Venkata Ramaiah., Presented paper, *Vemana as Vishvakavi: the Role of Western scholars and their Perspectives* in a national seminar on *Literary Relations: India and the World*, Dept. of Modern Indian Languages and Literary Studies, University of Delhi, Delhi, 9-10 March, 2017.

Gampa. Venkata Ramaiah., Presented paper, *Telugulo Streela Sweeya Charitralu: Gender Drukptham* (in Telugu) in a national seminar on Samakaleena Telugu Sahityam Samalochanam (2000-2015), Dept. of Telugu Studies, Dravidian University, Kuppam, 13-14 Feb., 2017.

Gampa. Venkata Ramaiah., Presented a paper, *Yatra Sahityamu– Soundaryamu* (in Telugu) in a national seminar, Telugulo Yatra Sahityam, organized by Delhi Sahiti Veditaka, Delhi, 27 Nov., 2016.

Gampa. Venkata Ramaiah., Presented paper, *Dhillilo Telugu Bhashabhivruddhi: Sangharshana, Sahajeevanam* (in Telugu) in a national seminar on Language Developments Strategies in the era of Globalization: Telugu, Dept. of Telugu, University of Hyderabad, Hyderabad on 20-21<sup>st</sup> Oct., 2016.

Gampa. Venkata Ramaiah., Presented paper, *Raavishaastri's Illu (The House): Sociological Perspective* in the national seminar on Perspectives in Philosophy of Literature, Dept. of Philosophy, University of Delhi, Delhi, 11-13 April, 2016.

Barman, Mitali., Presented Paper on *The Translation of Short Stories and Novels in Assamese Literature in the Post Independence Era* in a National Conference organized by Sadou Asom Lekhika Samaroh Samiti, Gurgaon & Delhi Branch in Memory of Late Pratima Thakuria at Artemis Hospital Auditorium on 5 March, 2017.

Barman, Mitali., Presented and demonstrated on *Kamrupi Lokageet* in a Conference organized by Asom Sahitya Sabha, Delhi Branch at Srimanta Sankardev Bhavan, Delhi, 19 Dec., 2016.

Barman, Mitali., Spoke on *Teaching and Methods of Teaching* as a Resource Person at Lakshminath Bezbarooah Academy, Pathsala, Barpeta (Assam), 7 Oct., 2016.

Barman, Mitali., Presented paper on *Bhramyaman Theatre (Mobile Theatre) : An Unique Trend of Theatre in Assam* in a National Seminar on Indian Theatre in Transit Modernity organized by the Dept. of Modern Indian Languages and Literary Studies, University of Delhi in association with Gujarat Sahitya Akademy, Gandhinagar, 17-18 May, 2016.

#### **Ph.D. / M.Phil. Awarded**

Ph.D.	–	3
M.Phil.	–	24

#### **Faculty Strength**

Permanent	–	11
Adhoc /Guest	–	5

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## PERSIAN

### Major Activities and Achievements

The Department is supported by UGC-DSA SAP-II Grant. The faculty members have few publications in journals of international repute during 2016-17. A few faculty members are associated with professional societies and grant agencies. One member has been on the Advisory committee of Special Assistance Programme of UGC of different universities and expert on several committees of UGC and ICCR. Apart from regular teaching and research, the Department organizes weekly seminars, yearly workshops and seminars. During 2016-17, the Department has organized International conference/Seminar, as well.

### Publications

Shekhar, C. Kalilehwa Dimneh, (Introduction of the Rampur Ms. 16th c from Hirat school, transcribe in Naskh & Nastaliq style by Sultan Muhamma Noor, a disciple of Sultan Ali Mashhadi), published by ICCR, New Delhi, 2016. Released by Indian PM in Tehran on 23rd May, 2016

Shekhar, C. Mir'atulIstelah of Anand Ram Mukhlis, (co-eds.) Hamid Raza Ghilichkani & Houman Yousefdahi). Ilmi Publication, Tehran, 2016.

Shekhar, C. (2016). The techniques of sword making and trade practices: taiid-e-bisarar, a treatise from Eighteenth Century, In (Ed.), Pius Malekandathil, Manohar, *The Indian Ocean in the Making of Early Modern India*, pp.409-441, New Delhi

Shekhar, C. (2017). English translation of Taiid-e-Bisarar in *Arms and Armors in Jodhpur Royal Mehrangarh Fort*, Appendix I, (Ed.), Robert Elgood, Niyogi Publications, New Delhi, 2017 (Vol.II)

Khan, A. A. (2017). ShahjahaniDastarkhankeZaiqe, pp. 9-15, Dabeer, Jan- March 2017. Kakori, Lucknow. (2017). Amir Hasan Nooraniur Munshi Nawal Kishore, pp. 25-36, Naval Kishor Shinasi, (Ed.), Prof. Syed Shafiq Ahmed Ashrafi, Khwaja Moinuddin Chishti Urdu Farsi Arabic University, Lucknow.

Khan, A. A. (2017). Moarrafi-e-Aasar-e-manzoom Mirza Abdul Qadir Bedildar Kitab khanah-e-Salar Jung, Hyderabad, pp. 256, Urse Bedil Dehlavi, Tehran, Iran.

Khan, A. A. Traces of universal brotherhood and humanistic traditions of Hazrat Nizamuddin Aulia. In Fawaidul Fowad, (pp. 181-197), *Sufism in India, harmonising socio-cultural worldview*, Manak Publications, New Delhi.

Kumar, R. (2016). Dimensions of Siyar-ul-Arafin by JamaliDehalvi, Delhi: Great Book Contractor, ISBN No: 978-93-85346-11-8

Kumar, R. (2016). Persian language and literature during akbar's reign and the safavi period, In *shaie Faizi: A Source of Geographical, Literary and Political Information of India*, (pp 111-118). AMU: Institute of Persian Research, ISBN 978-93-84876-62-3

Jahan, M. (2016). Khayyam ki rubayunkemukhtalif rang O S: Inqelab (AdabAqafat) Daily News Paper, Sunday Edition.

Jahan, M. (2016). Insha Allah khan inshaaur darya e latafat: Inqelab (Adab O Saqafat) Daily News Paper, Sunday Edition.

Jahan, M. (2016).Jahangir aur fanoon e latifa: Aiwan E Urdu, Urdu Academy, ISSN: 2321-2888

Jahan, M. (2016).Deewantaswwur: Inqelab (AdabAqafat) Daily News Paper, Sunday Edition, 15 Nov.,

Ahmad, N. (2016). Chand kitabon ke hawale se, aiwan e ghalib, (2017). *Ahad E Mughliya Ke Indoor Games*: Umang, Urdu Academy, ISSN: 2321-2888 Delhi

Ahmad, N. (2017). PanchTantra: Ek jaiza, aiwan e urdu, Urdu Academy, ISSN: 2321-2888

Ahmad, N. (2017). Umar khayyam ki rubayun ke mukhtalif rang paishraft, New Delhi, ISSN: 2349-3437

### Research Projects

DRS SAP-II, *Indo Persian Literature*, funded by UGC (2014-2019), Rs. 44,00,000/-

## Conferences Organized

International Conference, *Munshi Naval Kishore and Printing-Press in Colonial India*, supported University of Delhi & NCPUL, 23& 24 Feb., 2017.

## Seminar / Conference Presentation

Chander Shekhar, Special lecture, *Drafting of official letters/missives/edicts/commands in Medieval and early Modern India*, delivered in the Institute of Oriental & Islamic Studies, Bonn University, Bonn, 17 June, 2017.

Chander Shekhar, Special lecture, *Indenisation of Persian Texts: 16-18 (Persian Primers and early lexicons)*, Institute of Oriental & Islamic Studies, Bonn University, Bonn, 22 Aug., 2016. In

Chander Shekhar, Paper presented, *Amalgamation of Indian Thoughts in the discourses of Bedil*, International Conference held by International Bedil Foundation, Tehran, Iran, 17-21 Jan., 2017

Chander Shekhar, Paper presented, *Persian Primers in early Modern India (for serving personal)*, Conference on Indo-Persian Studies held jointly by University of Marburg, Germany & Academy of Persian Language & Literature of Iran, Tehran, 19-22 Feb., 2017

Chander Shekhar, Keynote address, *Indo-Persian sources on Sciences*, International Conference on Indo-Persian Sources on Science & Technology (with special reference to Deccani Persian Sources), Maulana Azad National Urdu University, Hyderabad, Telengana, 21 March, 2017.

Chander Shekhar, Paper presented, *Indo-Persian Literature and Secularism*, Persian & Sanskrit as Shared heritage and cross cultural connection between India, Iran & Central Asia International Conference, Dept. of Persian, Gauhati University, Assam, 9-11 Feb., 2107

Chander Shekhar, Paper presented, *Persian Documents and Socio-Cultural life: case study of Bikaner Documents*, International Conference, held by Bikaner State Archives, Bikaner, Rajasthan, 15-16 March, 2017

Chander Shekhar, Key note address, *Anand Ram Mukhlis*, International Conference on Services of Ray Rayan Anand Ram Mukhlis to Indo-Persian Literature & Bedil as Messenger of Love organized by Bedil International Foundation & Dept. of Persian, Lucknow University, Lucknow, 28-31 March, 2017

Chander Shekhar, *From the Desk of Abdur Rahim Khan-e-Khanan*, in Celebrating Abdur Rahim Khan-e-Khanan, Agha Khan Foundation, Proceedings of 2day International Conference, 11-12 March, 2017, Habitat Center, New Delhi.

Chander Shekhar, Paper presented International Colloquium series, in the Institute of Oriental and Islamic Studies, University of Bonn. During the tenure as Visiting Prof on Prof Anniemerrie Schimmel Chair in the same institute, 26 Aug. 2016.

Chander Shekhar, Amir Khusrau: Europe ke Kitab khanomein, Ghalib Nama, spl No. on Prof. Nazir Ahmad, Ghalib Institute, New Delhi, March, 2017

Aleem Ashraf Khan, Paper Presented, *Mirza Abdul Qadir Bedil Dehlavi*, in International Seminar organized by Institute of Persian Research, A.M.U., Aligarh on Bedil Dehlavi 1-3 March, 2017.

Aleem Ashraf Khan, Paper Presented, *Bu Ali Sina's Manuscripts in Indian collections*, International Seminar organized by I.H.F. New Delhi on Tibbi Makhtutaat Masayilwa Wasayil 4-5 March, 2017.

Aleem Ashraf Khan, Paper Presented, *Ustad Azhar Ali wa Safar Nama-e-Anand Ram Mukhlis*, International Seminar organized by Bedil International Foundation Bedil International seminar, 28 -31 March, 2017

Aleem Ashraf Khan, Paper Presented, *Kulliyat-e-Saadikedusremusehe* (Ed.) Bahauddin Khurram Shahi, International Seminar organized by M.A.A.P.R.I. Tonk, Rajasthan, 7-9 March, 2017

Aleem Ashraf Khan, Paper Presented, *Prof. Nazir Ahmad ka Maarif me shayaek Tehqiqi Maqala: Ahmed Zandechi*, International Seminar Maarif Sadi Maarif Azamgarh, U.P. March, 2017.

Aleem Ashraf Khan, Special lecture, *Sufistic Culture in India*, The Dept. of Arabic and Persian, University of Allahabad, on 09 May, 2017.

Rajinder Kumar, Paper Presented, *Depiction of Black Color in Ghalib's Poetry*, International Seminar organized by Dept. of Persian, Zaki Husain College, University of Delhi, on Ghalibki Farsi Kulliyat Aur Unka Ahad: Ek Muta'ala .. 1 - 3 Feb. 2017.

Rajinder Kumar, Paper Presented, *Description of Bengal State in Rai Chaturman Saxsena's Chahar Gulshan*, International Seminar on Development of Art, Literature, Culture and Science Under the Mughals in India ,

organised by Dept. of Persian, Urdu & Islamic Studies, VisvaBharati University, Santiniketan, West Bengal, 30-31 March, 2017.

Rajinder Kumar, *Response of Bedil to His Critics and Envious*, International Seminar at Aligarh Muslim University, on, organized by Institute of Persian research, Aligarh Muslim University on Bedildehlvi, . 1-3 March, 2017.

Rajinder Kumar, *Translation of Shahnameh of Firdausi in Hindi Langauge*, International Seminar at University of Delhi, organized by Persian foundation of India on Firdausi and Shahnameh, 7-8 March, 2017.

Mehtab Jahan, Three day International Seminar, on Indian Wisdom: Panchtantra/ kalilahwa dimnah; tradition, history & culture, panchtantra: Ekjaiza, Dept. of Arabic, DU, 8-10 March, 2016.

Mehtab Jahan, Two day National Seminar, Prof. Nazir Ahmad: Chand Kitabonke Hawale se, at Aiwan E Ghalib, Delhi, 7-8 May, 2016.

Mehtab Jahan, Three day International Seminar, on Ghalibki Kulyat, Mathnavi Cherag e Dairaur Uske tarajim,ZHD College, DU, 1-3 Feb.2017.

Mehtab Jahan, Two day International Seminar on Munshi Nawal Kishore, Munshi Nawal Kishore wa Muasiranash, Dept.of Persian, DU, 23-24 March, 2017.

### **Inter-Institutional Collaboration**

Prof. Chander Shekhar, University of Boon, Germany

### **Ph. D. / M. Phil. Awarded**

Ph. D. – 01

M.Phil. – 04

### **Faculty Strength**

Permanent Faculty– 05

Ad-hoc faculty– 02

Guest faculty– 02

### **Other Significant Information**

The Department offers Certificate Course, Diploma Course, Advance Diploma Course, M.A., One Year Post M.A. Diploma in Translation & Interpretation, M. Phil and Ph.D. program in Persian. Total number of students in Certificate Course is 279, Diploma Course is 23, Advance Diploma Course is 14, M.A. is 14, M. Phil is 20 and Ph.D is 14.

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## **PHILOSOPHY**

### **Major Activities and Achievements**

The Department of Philosophy has always aimed to create a platform for international and national scholars to present their views and research. This year was no different: many scholars of stature were invited and this led to some very fruitful and interactive discussions, exposure to which was valuable to both faculty and students. The Dept. successfully offered four interdisciplinary courses for students from other disciplines. The different committees that were constituted did their work diligently and addressed many academic and administrative matters effectively. Dr. Enakshi Mitra's book is in press; several faculty members also published papers in prestigious journals. Faculty members dynamically participated in seminars and conferences and some were invited to present keynote, invited special and public lectures.

### **Honours / Distinctions**

Dr Pragati Sahni was appointed ICCR Visiting Prof. at Carleton University, Ottawa, Canada, for one semester, from 5 Jan, 2016 to 30 April, 2016.

## Publications

### Books:

Mitra, E. (2017). *Later Wittgenstein on language and mathematics: A non-foundational narration*, Shimla, Himachal Pradesh, Delhi: Indian Institute of Advanced Study, Rashtrapati Nivas (In Press)

### Papers and Articles:

Bhowmick, N. (2016). On the quantified account of complex demonstratives. *Journal of Indian Council of Philosophical Research*, 33(3), 451-463.

Devarakonda, B. (2016). Political philosophy of Thomas Hobbes. e-PG Pathasala doi: <http://epgp.inflibnet.ac.in/ahl.php?csrno=27>

Gautam, A. (2017). Self governance and responsibility in global times, *International Journal of Research in Management and Social Sciences*, 5, 3(IV), 30-35

Kumar, K. P. (2016). The Pride of Identity Politics, Foreword. (Ed.), Vulli Dhanaraju, Voice of the Other. In *Understanding Marginal Identities*, (pp.9-12) Delhi: Gen Next Publications,

Kumar, K. P. (2016). Pluralism in Telugu Poetry, Poets translating poets, Poetry Traverses South Asia and Germany, Goethe Institut, doi: <http://www.goethe.de/ins/in/lp/prj/ptp/mag/en15574250.htm>

Kumar, K. P. (2016). Bijja Tarakam: The Dalit leader, *Round Table India*, doi: [https://roundtableindia.co.in/index.php?option=com\\_content&view=article&id=8788:prof-p-kesava-kumar&catid=119:feature&Itemid=132](https://roundtableindia.co.in/index.php?option=com_content&view=article&id=8788:prof-p-kesava-kumar&catid=119:feature&Itemid=132)

Kumar, K. P. (2016). 'Mathanni, devudni dhikkarinchina boudham' (Editorial In Telugu), *Bhujana Keratalu*, pp.2-3, Ongole

Mitra, E. (2016). Jounotar tattva- darshonik alochona (Bangla), *Anushtup* pp 237-253, (a Tri annual journal, Kolkata),

Mitra, E. (2016). Wittgensteiner sondhane shocindronath' (Bangla), *Anushtup*, pp 213-255, (a Tri annual journal, Kolkata), Golden Jubilee Special Issue,

Motilal S. and Juyal D. R., (2016). Human Rights and Public Policy Frameworks: A Kantian Perspective, *Journal of Indian Council of Philosophical Research*, 33(2), pp. 241-251.

## Research Projects

### Prof. Balaganapathi D.:

Ongoing project, 2015-2018, *A Study of Doctrinal differences of the Early Buddhist Sects of Andhra* Major Research Project, funded by UGC, Rs. 13,50,000/-

2017-2019, *Culture through the Labyrinth of Globalization: A Study of Popular Imaginations and Alternative narratives of Digital and non-Digital Telugu literature* as a part of the Major Funding Project titled *Interface of Culture and Politics in India: An exploration into the alternative narratives*, sponsored by ICSSR, New Delhi, Rs. 45,00,000/-

Dr. Reetu Jaiswal completed a project on *Understanding Rawls' Theory of Justice: The Problem of Gender Inequality* sponsored by University of Delhi.

## Seminars Organized

Dr. Paul Donnelly on *Tibetan Conceptions of Madhyamaka School*. 29 July, 2016. Convenor: Prof. Balaganapathi D.

Daya Krishna on *Concept of Freedom* on 11<sup>th</sup> Nov. 2016 along with Prof. Daniel Raveh, Tel Aviv University, Israel. Convenor: Prof. Balaganapathi D.

Prof. Geo Lyong Lee, Prof. of Philosophy, Sun Moon University, South Korea on *Dharma as Principle of Self-Denial and Emptiness* on 8 Dec., 2016. Convenor: Prof. Balaganapathi D.

Prof. Jae Jin Jang, Dept. of Buddhist Culture and Content Studies, Tongmyong University, Korea on *Hybridity of Buddhist Culture and Historical Perspectives in Introduction and Development of Buddhism in Korea* on 1 Feb. 2017. Convenor: Prof. Balaganapathi D., Co-convenors: Pragati Sahni and Sujata Roy Abhijat.

Prof. Haiyan Shen, Dept. of Philosophy, Shanghai University, Shanghai on *Tiantai Theory of the Subtlety of Mind, Buddha and Sentient Beings* on 15 Feb., 2017. Convenor: Prof. Balaganapathi D.

The Social and Ethical Philosophy of Shri Shri Anandamurtijii, Deptt. of Philosophy, University of Delhi on 17<sup>th</sup> Feb. 2017. Co-convenor: Dr. Sujata Roy Abhijat.

Prof. S Penneerselvam's, ICPR National Fellow on *Hermeneutical and Analytical Methods in Indian Philosophy and Thoughts and Works of Prof. TMP Mahadevan in Contemporary Indian Philosophy* on 16 and 17 of March, 2017. Convener: Prof. Balaganapathi D.

### **Conferences Organized**

*Perspectives in Philosophy of Literature*, an ICPR National Seminar organized by the Dept. of Philosophy, University of Delhi, 11-13 April, 2016. Coordinator: Prof. P. Kesava Kumar.

*Re-learning to be Human: Justice and Responsibility during Global Times* organized on 9<sup>th</sup> & 10<sup>th</sup> Jan. 2017 in collaboration with Centre for Research in Values and Philosophy and Washington DC, Ramanujan College, New Delhi with the sponsorship of ICPR, New Delhi. Convener: Prof. Balaganapathi D.; Co-convener: Dr Ayesha Gautam.

*Asian Philosophy Conference 2017* organized at Sanchi University of Indic Studies on 11-14 of Feb. 2017, by Prof. Balaganapathi D. in the capacity of General Secretary, APC 2017.

### **Seminar / Conference Presentation**

Ayesha Gautam, Invited lecture, *Recent Developments in Contemporary Epistemology* at Dept. of Philosophy, Lady Shri Ram college on 9 Feb., 2017

Ayesha Gautam, Presented a paper *Tribal Folklore and Philosophy in Indian Context* in a ICPR sponsored National Seminar on Perspectives in Philosophy of Literature held in Dept of Philosophy, University of Delhi (11 April, 2016)

Ayesha Gautam, Presented a paper *Moral Knowledge: Its Possibility and Skeptical Challenges* in a UGC Sponsored National Seminar on Contemporary Ethics organized by Dept. of Philosophy, Singhbhum College, Chandil, Jharkhand on 7th Feb., 2017.

Ayesha Gautam, Presented a paper *Self Governance and Responsibility in Global Times* in a national conference on Ancient Wisdom and Multimedia Learning Transforms Modern Education organized by InSIS Vadodara and Oriental Institute and Faculty of Management Studies, The Maharaja Sayajirao University of Baroda on 18 March, 2017

Ayesha Gautam, Presented a paper *Understanding Gender Relation in Tribals of Northeast India in the context of tradition/modernity interface* in a ICPR Sponsored national seminar on Tribes of North East India: Exploring Identities, Culture, Politics and Philosophy organized by Dept. of Philosophy, Janki Devi Memorial College on 11 March, 2017.

Ayesha Gautam, Presented a paper *Virtue Epistemology : An Integrated Approach to Epistemology* in a national seminar on 'Contemporary Epistemological Issues : With Special Reference to Alvin I. Goldman's Contributions' organized by Indian Council of Philosophical Research, Lucknow on 19th Jan 2017.

Enakshi Ray Mitra, Chaired the 3<sup>rd</sup> Technical Session in *UGC sponsored National Seminar on 'Self, Consciousness and Body': A Comparative Reflection in Indian and Western Philosophy*, organised by the Dept of Philosophy, Bajkul Milani Mahavidyalaya, East Midnapur, West Bengal, held on 7 and 8 Sept., 2016

Enakshi Ray Mitra, Presented a paper *The Dichotomy between Dualism and Semantic Behaviourism* in UGC sponsored National Seminar on 'Self, Consciousness and Body': A Comparative Reflection in Indian and Western Philosophy, organised by the Dept of Philosophy, Bajkul Milani Mahavidyalaya, East Midnapur, West Bengal, held on 7 and 8 Sept., 2016

Enakshi Ray Mitra, Presented a paper, 'Reading Sukumar Ray's 'Abak Jolpan': From a Philosophical Perspective of Language, ICPR National Seminar on 'Perspectives in Philosophy of Literature', Organised by Dept of Philosophy, University of Delhi, Delhi, 11-13 April, 2016

Enakshi Ray Mitra, Resource-person in the *Faculty Development Workshop on Research Methodology: An Interdisciplinary Approach*, organised by Hansraj College, 20-21 Jan., 2017.

Nilanjan Bhowmick, Presented, *What are Aesthetic Predicates Relative To? Talk at Language of Art International Conference* in North Bengal University, Siliguri, West Bengal, Feb. 17, 2017.

Nilanjan Bhowmick, Presented *Knowing Through Fiction*, in Perspectives in Philosophy of Literature, ICPR Seminar, University of Delhi, April 11-13, 2016.

Nilanjan Bhowmick, Presented *Remarks on the Original Project*, Seminar Talk/World Philosophy Day/JNU, Jan. 25, 2017.

Nilanjan Bhowmick, Presented *Finding the Centre*, Seminar Talk at Daulat Ram College, Nov. 8, 2016.

Nilanjan Bhowmick, Presented *Indexicals and Answering Machines*, Talk at Ashoka University First Undergraduate Conference, Nov. 19, 2016.

Nilanjan Bhowmick, Presented *The Light and the Quick: Calvino on Writing*. Seminar Talk/Germanic and Romance Studies, University of Delhi, Feb. 10, 2017.

Pragati Sahni, Public lecture Some Reflections on Body in Early Buddhist Literature on 8 April, 2016, in Carleton University in Ottawa, Canada.

Pragati Sahni, Presented a paper, On Responsibility, at an International Seminar Re-Learning to be Human: Justice and Responsibility in Global Times, held at the University of Delhi, Delhi, 9-10 Jan., 2017.

Pragati Sahni, Presented a paper, *Can there be a Buddhist Response to Genetic Modification*. at the World Philosophy Day Seminar at Jawaharlal Nehru University, Delhi Philosophy, Science and Technology on 25 Jan., 2017.

Pragati Sahni, Presented a paper at an International Seminar held at University of Mumbai entitled *Buddhism, Religion and Democracy* from 22-24 March, 2017. Paper entitled Responsibility, Environment and Early Buddhism.

Balaganapathi D., Presented a paper *Freedom and Dissent: A Study of the development of Democratic Ideals in Early Buddhist Sangha* Buddhism, Religion and Democracy organized by Dept. of Buddhist Studies, University of Mumbai on 22<sup>nd</sup> March 2017

Balaganapathi D., Presented a paper *Perspectives and Shifts in Education during Globalisation*, in the Two-day National Seminar on Ancient Wisdom and Multimedia Learning to Transform Modern Education Organized by Indian Society for Indic Studies(InSIS), Vadodara and Indian Council of Philosophical Research, ICPR, New Delhi at Delhi Technological University, Delhi on 14th-15th Oct., 2016.

Balaganapathi D., Presented a *Pilgrimage and Rituals: Philosophical reflections* in a One-day International Symposium organized by Dept. of Philosophy, Kamala Nehru college, New Delhi on 30 July, 2016.

Balaganapathi D., Presented a paper *Place of Deen Dayal Upadhyaya in Indian Intellectual Tradition: A Critical Appraisal* in the National Seminar on A Paradigm of Integral Human Development in the thoughts of Pandit Deendayal Upadhyaya in Belagavi, Karnataka, 21-23 May, 2016.

Balaganapathi D., Presented a paper *Reconstruction of Indian Philosophical Framework: Context, Methodology and Approach* in the National Seminar on Re-construction of Indian Philosophical Framework: Quest for Decoding Meaning organized by Dept. of Philosophy, University of Goa, Goa during 28-30 Jan., 2017.

Balaganapathi D., Presented a paper *Story telling and Identity Construction: Debating Contemporary Folklore* in a two-day national seminar on Folk Philosophy in South Asia: Exploring Cosmic and Mundane in the Folklore organized by Banasthali Vidyapith, Banasthali in collaboration with SAARC University, New Delhi during 25 and 26 March 2017.

Kesava Kumar, P., *Pen Points and Gun Points' - Literary Voices of Indian Democratic Revolution*, Conference on Revolution : Literature and Beyond organized by English Literary Society, St. Stephen's College, Delhi , 22-24 March, 2017.

Kesava Kumar, P., *Contemporary Indian Intellectual Tradition and The Question of Caste: Philosophical enlightenment of B.R.Ambedkar* on ICPR National seminar on Contemporary Indian Thinkers, Dept. of Philosophy, University of Delhi, March 2016.

Kesava Kumar, P., Key Note Address, *Ethics of Care of Elderly: A Philosophical Probing*, National seminar on Ethical Issues of Geriatric Care organized by Andhra Loyola College, Vijayawada, 28-29 April , 2016.

Kesava Kumar, P., *Philosophy as an Articulation of Social Practices of Inarticulated*, Dr. B.R.Ambedkar Perspective on the State Society and Economy : Revisiting his Vision and Mission organized Dr. B.R Ambedkar's 125<sup>th</sup> Year Birth Anniversary Celebrations Committee, University of Hyderabad on 22-23 Feb., 2017

Kesava Kumar, P., *Philosophy of Autobiography: Reflections on Narration of Dalit Self*, National seminar on Exploring of Self: Autobiography in the Indian Context, organized by Centre for Comparative Literature , University of Hyderabad,, 15-16 Sept. 2016

Kesava Kumar, P., *Politics of Freedom : Worlds of Literature and Philosophy* ICPR National seminar on Perspectives in Philosophy of Literature organized by the Dept. of Philosophy, University of Delhi , 11-13 April , 2016.

Kesava Kumar, P., Special Lecture, *Interrogating Indian Modernity*, Dept. of Political Science . Zakir Hussein Delhi College, 4 Oct. 2016.

Kesava Kumar, P., Invited Lecture, *Political Perspectives in Theorizing Dalit Movement* , Dept. of English, University of Delhi on 27<sup>th</sup> Oct. 2016.

Shashi Motilal, Invited Key Note Lecture on *Human Moral Obligations: Bridging Religious and Cultural Differences* in International Workshop on Emphasis on Ethics: Bridging Traditions & Disciplines organized by the Dept. of Philosophy, University of North Carolina, Asheville, NC, USA,, on March 3, 2017

Shashi Motilal, Presented a paper on *Fictional Terms and their Philosophical Implications* in National Conference on Philosophy and Literature organized by Dept. of Philosophy, sponsored by ICPR, April, 2016

Shashi Motilal, Presented a paper on *Nature of Social Justice: Some Inputs from the Ancient Indian Context* in the National Seminar on Social Philosophy in Indian Contexts: Past and Future organized by Dept. of Philosophy, Savitri Bai Phule Pune University on 24 and 25 Feb., 2017.

Shashi Motilal, Presented a paper on *The Development Agenda and Human Rights Violations: The South-Asian Context* at workshop on The Future of Development Ethics organized by Dept. of Political Science, Delhi University in collaboration with University of Birmingham, Yale University and UKIERI, Aug. 19 2016 .

Shashi Motilal, Invited Speaker Paper presented on *The Nature of Moral Agency: Some Reflections*. National Conference on Agency and Values: Challenges for the 21<sup>st</sup> Century organized by Dept. of Philosophy, Presidency University to mark the Bicentennial celebration of the University April, 24 -25, 2017. Reetu Jaiswal:

Shashi Motilal, Chaired a session in an International Seminar on *Re-Learning to be Human: Justice and Responsibility in Global Times* 9- 10 Jan., 2017

Shashi Motilal, Presented a paper *An Attempt at Integration of the Theories of Truth* in Two Day National Seminar, organized by Dept. of Philosophy, University of Allahabad on *Pramanyavad* (18-19 Feb., 2017).

Shashi Motilal, Presented a paper *Ambiguities in Aristotle's Concepts of Happiness and Virtue* in a ICSSR Sponsored National Seminar on *Aristotle and the Good Life*, organized by Dept. of Philosophy and Post Graduate Dept. of Public Administration, P.G. Govt. College for Girls, Chandigarh, 29 March, 2017.

Shashi Motilal, Presented a paper *The Priority of the Right or the Good: A Study of Prof. Kamalakar Mishra's Concept of Moksa* in ICPR sponsored National Seminar, on Indian Tradition, Śaivāgama and Value: From Tantrika Perspective of Kamalakar Mishra, organized by Dept. of Philosophy and Religion, Banaras Hindu University 12-14 Aug., 2016.

Sujata Roy Abhijat, Presented a paper on Women and their Hierarchical Position: Aristotle., National Seminar on Aristotle and the Good Life, Chandigarh, 29 March, 2017.

Sujata Roy Abhijat, Presented the paper on *Religion, Cultural practices and Environment*, Winter School CPDHE, UGC-HRDC, Delhi University (March 3, 2016).

#### **M.Phil / Ph.D. Awarded**

Ph.D – 2

M.Phil – 7

#### **Faculty Strength**

Permanent – 17

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## **PSYCHOLOGY**

#### **Major Activities and Achievements**

The Department. floats two Papers of Interdisciplinary nature for the students of other Departments such as Dept. of Buddhist Studies, Philosophy, Sociology, English, Sanskrit, Arabic and Linguistics, from the Faculty of Arts, University of Delhi. The research activities focus around areas of Community Development, Ageing, Multivariate Techniques, Counseling Services and Skills, Advances in Neuro-imaging Research, Buddhism and



Psychology, Understanding Self from Indian Psychological Perspective, Art Therapy and Music Therapy. Grants from UGC-SAP/CAS, ICSSR, DST-FIST, DRDO, AICTE, LSRB, R & D, DU offer support. We received an approved UGC-SAP Grant of Rs 44 lakhs (Non-Recurring - Rs. 5 Lakhs; Recurring - Rs. 39 Lakhs) in the year 2015 and activities under it are in progress.

### **Publications**

Gangadharan, S., & Jena, S. P. K. (2016). Understanding mind through Indian psychology, *International Journal of Indian Psychology*, 3, 3, 11. ISSN 2348-5396 (e)

Jena, S. P. K. (2016). Generalization and maintenance of training in behaviour modification of the children with special needs *RENOVA*, 2(1), 42-47, ISSN 2454-1710.

Prakash, A. (2016). Ageya ke lekhan me vyaktiki avadharana. *PustakVarta*, Wardha, Maharashtra: *Mahatama Gandhi AntarRashtriyaVishvidalaya*.

Prakash, A. and Rai, R. (2016). Charisma suffocating creativity. *Journal of Leadership Studies*, 10(1).

Prakash, A. (2016). Emotions as vehicle to organizational change: Learnings from some Indian narratives. In R.C. Tripathi and Rohit Dwivedi (Eds.), *Organizational Studies in India* (pp 351 -374). Delhi: Orient Black Swan

Prakash, A. (2017). Kaushal aur kushalataki avadharana, *Srijan Chintan*, 10, 21-29.

Vij, S. & Babu, N.. (2016). The expression of gratitude in Indian children: A qualitative enquiry. *British Journal of Arts and Social Sciences*. XXI (1), 25-33, ISSN: 2046-9578

### **Research Projects**

Prof. S. P. K. Jena, *Developing Resilience and Entrepreneurship Skills in Underprivileged Youth Below Poverty Line* funded by Rajiv Gandhi National Institute of Youth Development (2016 - 2017), Rs. 6,60,000/-

Prof. Nandita Babu. *Community based intervention for Positive Youth Development*, funded by Rajiv Gandhi National Institute of Youth Development (2016 - 2017) Rs.1,50,000/-

Prof. S.P.K. Jena *A longitudinal Study of Post Traumatic Stress, Resiliency, and Adaptation of Children Exposed to Traumatic Stress and their Responce to Cognitive- Behavioural Treatment* funded by Phase I, under UGC SAP by Dept. of Psychology (2016-2017), Rs.40,000/-

Dr. Avinash Kumar *Assessment and Intervention for the factors related to Job Satisfaction, Occupational Stress, Burnout, Work Motivation and Capacity Building in School Teachers* funded by Phase I, under UGC SAP by Dept. of Psychology (2016 - 2017), Rs.40,000/-

Dr. Nidhi Prakash *Training Initiative and its Effectiveness in Community Capacity Building*, funded by Phase I, under UGC SAP by Dept. of Psychology (2016 -2017) Rs.40,000/-

### **Seminars Organized**

National Seminar on *Emerging Forms of Vulnerabilities; Dialogues, Discourses and Debates*, Dept. of Psychology, University of Delhi, March 9-10, 2017. Coordinator: Prof. N. Babu.

Two Day Pre-seminar Workshop on *Advance Research Methods: Challenges of Qualitative Research; and Applied Behaviour Analysis and Intervention in Human Development*, on 7-8 March, 2017

### **Seminars / Conference Presentation**

S. P. K. Jena, *Lifespan Development: Current Understanding and Emerging Trends*, National Seminar on Psychological Sciences: Current Perspectives and Emerging Avenues of Practice, Training & Research, Dept. of Psychological Science, North Bihar Central University, Patna, 24-26, March 2017.

S. P. K. Jena, *Neuro Psychology: Existing Practices; Needs, Priorities and Future Prospects*, National Seminar on Psychological Sciences: Current Perspectives and Emerging Avenues of Practice, Training & Research, , North Bihar Central University, Patna, 24-26, March, 2017

S. P. K. Jena, Keynote Speaker and Resource person, International Seminar-cum-Workshop on Parental Involvement in the Education and Rehabilitation of Children with Special Needs, Dept. of Education, Jadavpur University, Jadavpur. Jan. 17-23, 2017.

S. P. K. Jena, Resource person, Pre-conference Workshop on Qualitative Research Methods on March 22-23, 2017. National Seminar on Psychological Sciences: Current Perspectives and Emerging Avenues of Practice, Training & Research, March, 24-26, 2017. Dept. of Psychological Science, North Bihar Central University, Patna.

A. Prakash, Resource person, Three Days Worksoop on Qualitative Research at Psychology Dept., Lucknow University, Lucknow. March 9-11, 2016. (:).

A. Prakash, Resource person, Two-day Workshop on Qualitative Research for the faculty members at the Dept. of Psychology, Gwahati University, Gwahati, Assam. May 30-31, 2016

### **Faculty Strength**

Permanent (South Campus) –1

Permanent (North Campus) –6

### **Other Significant Information**

The Dept. of Psychology offers M.A. in Psychology, M.A. in Applied Psychology and Ph.D. in Psychology. The Dept. has two units – Psychology Unit in North Campus and Applied Psychology Unit in South Campus. The total number of students, from both the North and South Campus, in M.A. Programme are 138, and in Ph. D. Programme are 38.

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## **PUNJABI**

### **Major Activities and Achievements**

The Department has organized successful literary events --national seminars, memorial lectures and special lectures etc. during the academic session 2016-2017. While staying committed to the research-oriented studies, our faculty members actively participated in seminars/conferences/lectures/refresher courses organized by the other academic & literary institutions. With a remarkable legacy of being the nerve centre for Delhi School of Punjabi Criticism, the Department has kept up with the changing times by hosting national seminars/symposium, special lectures annually. The platform provided by the Department for live wire interactions among thinkers, writers and teachers on one hand, and between the intellectuals and the students on the other hand, has ensured that the Department remains at the centre of Punjabi literature and culture's dynamic transformation through the decades.

### **Publications**

Books:

Kaur, J. (2017). *Diaspora :Sahitak Parvachan*, Delhi, Delhi: ArseePublishers

Kaur, J. & Singh. M. (2017). . *Ravinder Ravi Rachit Kaav Sangrah Aapne Khilaf*, Delhi, Delhi: National Publisher.

Kaur, J. & Singh. M & Singh. H. (2017)..*Naitikta :Sahitak Parvachan*, Delhi, Delhi: Manpreet Prakashan.

Kumar, R. (Tr) (2016). *Eh Gali Vikao Nahi* (Translator) (A sahityaakademi award winning Tamil novel Samudaya Veethi by Naa. Parthasarthy translated from Hindi to Punjabi), Delhi, Delhi: Sahitya Akademi

Singh, M. (2017). *Naitikta :Sahitak Parvachan* (Ed.), Delhi, Delhi: Manpreet Prakashan

Singh, M. (2017). *Dr. Gurcharan Singh Da Madhkaleen Sahit Chintan* (Ed.) Delhi, Delhi: Arsee Publishers

Singh, N. & Kaur. S. (2017). *Compact English-English-Punjabi Dictionary*, Delhi, Delhi: Oxford University Press

Singh, R. (2017) *Swachata Di Kahani, Dadi Di Zubani*, (4 Volumes), Publication Division, Govt. of India

Articles:

Kaur, J. (2016). Shabad/Kavita/Kranti, Surinder Dhanjal Di *Kavita Di Laat Da Jashan*, Bhupinder Dhaliwal (Ed), *Saanjh Parkashan*, Jalandhar, Punjab pp. 154-163

Kumar, R. (Jan.-March, 2017). Ikiveen Sadi Vich Punjabi Di De Sanmukh Chanotian De Sambhavi Hal, Shabad (An International Quarterly of Literature, Art and Culture), 77, 53-58

Kumar, R. (2016). Tanaz, Trasdi, Hosle ate Sangarsh Dee Gatha: Lahe Hoe, PawanPrinda Da Kalmi Safar, *Pulangh Prakashan Barnala* (In association with Twentyfirst Century Publications, Patiala), pp.145-153.

Kumar, R. (Oct.-Dec., 2016). Kahanikar Deol De Katha Drishti ate Punjabi Sahit Sabhiyachar, *Pratimaan*, 51, 40-42.

Kumar, R. (Oct.-Dec., 2016). Punjabi Bhasha, Sahit Ate Sabhiyachar :Vartman ate Bhvikh, KahaniDhara., 43, 102-106.

Kumar, R. (Oct.-Dec., 2016). Harcharan Singh De Katha Dristi, Aabru., Volume ( 10-12 ), Page No. 84-87

Singh, B. (July-Dec ,2016). Allah, Sanvad , 04, 49-54

Singh, B. (2016). *Je Oh Hundi (Story)*, *SIRJANA* , 136 ,47, ISSN : 23951273

Singh, Y. (2016), Haq: Sukham Hinsa da Itahasik Birtant, (pp. 332-336), Swarajbir da Naat Jagat(Ed.), Dr. Harjodh Singh, Chetna Parkashan, Ludhiana.

Singh, Y, Punjab de Boudhik Pravachan di Nishandehi, *Daily Punjabi Tribune*, Chandigarh, March 12, 2017.

Magazine Article:

Singh, Y. (2016) Punjabi Sahit da MoulikKaav-Shastar: Poorabvadi Paripekh (pp. 178-187), Sanvad, Khalsa College Amritsar, Vol. 4, July-Dec. 2016.

Singh, Y. (2016), Punjab: Hinsa di Siyasat, (pp. 11-16), Filhaal, Vol. 26-27.

### Research Projects

Prof. Rawail Singh *Translation of Novel Varanasi- A Master Piece Novel by M.T. Vasudevan Nair* funded by Sahitya Akademi, Delhi (ongoing).

Prof. Manjit Singh *Monograph on world known Semiotician and Feminist thinker Julia Kristeva* funded by Punjabi University, Patiala (ongoing).

Dr. Ravinder Kumar (Associate Prof.) *Research project on Antonio Gramsci under Western Thinker Series* funded by Punjabi Academy, Govt of Delhi, Delhi (ongoing).

Dr. Kulvir Gojra (Associate Prof.) *Adhunik Punjabi Kavita:Virachnatmak Padat* funded by University of Delhi, Delhi (ongoing).

Dr. Nachhattar Singh (Assistant Prof.) funded by Dept. of Literary Studies, Punjabi University, Patiala (ongoing).

### Seminar Organised

Two day National seminar on the topic Multiculturalism : Identity and Crisis (Punjabi Language, Culture and Literature, in collaboration with Sahitya Academy Delhi organized a on 22 and 23 Sept, 2016.

Prof. Harbhajan Singh Memorial Lecture on ‘Dohri Pratibha : SanseyTe Saroka delivered by eminent poet and artist Shri Devon, 23 Jan., 2017.

Prof. S.S. Noor Memorial Lecture on ‘BhashaSamaj Or Lekhan delivered by eminent poet Prof. Vishvanath Prasad Tiwarion 20 Feb., 2017.

### Seminar / Conference Presentation

Bala, Rajni, Research paper, *DeshVand bare NijjiAnubhav di Birtantkari* (Punjabi Swaijeevani de hawalenaalin a three day International Conference Vishav Punjabi Sahit Conference held at Punjabi University Patiala on 7-9 Dec., 2016.

Gojra, Kulvir., Presented a research paper, *Punjabi Safarnamavich Amrika de Bimb di Nirmankari* in a three day International Conference Vishav Punjabi Sahit Conference held at Punjabi University Patiala on 7-9 Dec., 2016.

Gojra, Kulvir, Gojra, Kulvir presented a research paper, *IkkiviSadi di Punjabi Kavita: Dalit Pripekh* in one day National Seminar on IkkiviSadi da Punjabi Sahit: Dalit Pripekh held at D.A.V. College Naneola (Ambala), Haryana on 3 Feb., 2017.

Kaur, Jaspal., Presented a paper, on *Parvasi Punjabi Kavita : BahuSabhiyacharakPachhanin* a National seminar on Multi culturalism organized by SahityaAkademi and Dept. of Punjabi, DU on 22<sup>nd</sup> -23<sup>rd</sup> Sept, 2016.

Kaur, Jaspal., Presented a paper on *Rukh Te Rishi : Advait Da Parvachanin* a National Seminar on Dr. Harbhajan Singh : Jeevan TeRachna organized by Punjabi Akademi, Delhi on Sept, 2016.

Kaur, Jaspal., Presented a paper on *Zafarnama : Rajnitik ate DharmikPeripekh*, National Seminar on Personality of Guru Gobind Singh organized by Mata Sundri College, Karnal, University of Kurukshetra on 1 March, 2017.

Kaur, Jaspal., Presented a paper on *Zafarnama : ManviPachhan Da Parvachanin* a National Seminar on Human Identity in Global Perspective and Guru Gobind Singh organized by Sri Guru Nanak Dev Khalsa College, Dev Nagar on March, 2017.

Kaur, Jaspal., Presented a paper on *Zafarname Di Samvadikta*. International Conference on Urdu and Punjabi Languageorganized by Dyal Singh College, University of Delhi (Eve),& Urdu Promotion Forum, Delhi on March, 2017.

Kumar, Ravinder., Coordinated and presented a Research Paper in a two day National Seminar on the topic *Punjabi Sabhiyachar de sanmukh Chanotian*, organized by SahityaAkademi (National Academy of Letters) and Dasmesh Girls College of Education, Badal (Muksar), held at Badal, April 28-29, 2016.

Kumar, Ravinder., Presented a Research Paper in a National Seminar on the topic *Deol Dee Katha Drishti ate Sada Sahit Sabhiyachar*, organized by Punjabi Academy, Delhi held at Bhai Vir Sahitya Sadan, New Delhi on 7 May, 2016.

Kumar, Ravinder., Address at *International Punjabi Literature, Culture and Language* Conference, held at California State University Fresno, California, USA, June 4 -5, 2016.

Kumar, Ravinder., Research Paper in a National Seminar on the topic *Anhoian nu hoianvichtabdeekaran dee khahish: Gurdial Singh Da Katha Jagat*, organized byDept. of Punjabi, Kurukshetra University, Kurukshetra, 07 Nov. , 2016.

Kumar, Ravinder., Research Paper in a National Seminar *Shahabad Markanda – Samkali Punjabi Kahani : Globali Paripekh* sponsored by Haryana Punjabi Sahit Academy and organized by Arya KanyaMahavidyala, Shahabad Markanda, 11 March. 2017

Kumar, Ravinder., Keynote address in an International Semiar *Punjabi at :Vartmaan Ate Bhavikh*, organized by Sant Baba Bhag Singh Memorial Girls College, Sukhanand (Moga) in collaboration with SahityaAkademi (National Academy of Letters), New Delhi and Dept. of Punjabi, University of Delhi held at Sukhanand (Moga), 22-23 March, 2017.

Kumar, Ravinder., Presided over a session in a Two-Days International Seminar on India – Delhi, Linguistic & Cultural Relationship Between Urdu And Punjabi, organized by Dept. of Punjabi, Dyal Singh Evening College, New Delhi and National Council For Promotion of Urdu Language held at New Delhi, 27-28 March, 2017.

Singh, Manjit., Dr. S.S. Wanjara Bedi memorial lecture on Dyal Singh College, University of Delhi organized in collaboration with Punjabi Academy Delhi, 9<sup>th</sup> April 2016.

Singh, Manjit., Prof. Harbhajan Singh Memorial Lecture at Punjabi University, Patiala (Punjabi), on 11<sup>th</sup> April 2016.

Singh, Manjit., Presided over a discussion on *Iswa rChitarkash Jewante Rachna* organized by Punjabi Academy Delhi at Bhai Vir Singh Sahitya Sadan, New Delhi, on 22nd July 2016.

Singh, Manjit., Presided over a discussion on the personality and literacy works of Deol – a poet & fiction writer of Punjabi letters, organized by Punjabi Academy Delhi at Bhai Veer Singh Sahit Sadan, New Delhi.

Singh, Manjit., Presided over a business session of a personality based seminar on the literary contributions of Prof. Harbhajan Singh an eminent poet & literary thinker, organized by Punjabi Academy, Delhi at B.V.S.S.S. New Delhi on 1 Oct. 2016.

Singh, Manjit., Presented a paper *Guru Gobind Singh ji: Samdarashta Da Model* in a National Seminar on the contributions of Guru Gobind Singh Ji, organized by Mata Sundri College on 17 Sept. 2016.

Singh, Manjit., Keynote Address of a National Seminar *Guru Gobind Singh Ji: Jiwan ate Vichardhara* organized by Mata SundriKhalsa Girls College Nissing, Karnal (Haryana) in collaboration with Haryana Punjabi Sahit Academy on 1 March, 2017.

Singh, Manjit., Presented a paper *political unconscious of Punjabi Sufi Poet Bulleh Shah* in a National Seminar on Sufism: the Road to self Realization, organized by NCPSL in collaboration of Satyawati College (M) Delhi, on 3 March, 2017.

Singh, Nachhattar., Research paper, *Navi Punjabi Gaiki Di Bhasha: Nav Pripekhin* a National Seminar on Punjabi Bhasha, SahitTeSabhiyachar: Nav Pripekh organized by Sant Baba Bhag Singh Memorial Girls College, Sukhanand (Moga) held on 22 April, 2016.

Singh, Nachhattar., Research paper, *Practice of Punjabi Grammar in Symposium on Punjabi Grammar: Theory & Practice* organized by Sahitya Akademi (National Academy of Letters) in Collaboration with Dept. of Guru Nanak Sikh Studies, Panjab University Chandigarh held on 24 Jan., 2017.

Singh, Nachhattar., Research paper *Teaching of Punjabi as a Second Language in Symposium on Linguistics and Teaching of Hindi and Other Indian Languages as Foreign Language* organized by Dept. of Linguistics (Centre For Advanced Studies in Linguistics) held on 27-28 Feb, 2017.

Singh, Nachhattar., Research paper *Punjabi Bhasha ate Bhasha Vigyan: chnautian ate Sambavnav* (Forensic Bhasha Vigyan de Vishesh Sandarbh Vich) in Punjabi Bhasha ate Bhasha Vigyan: chnautian ate Sambavnav organized by School of Punjabi Studies, Guru Nanak Dev University, Amritsar held on 22 March, 2017.

Singh, Rawail., Research paper in a National Seminar in Dashmesh Girls College of Education, Badal, 28 -29 April, 2016

Singh, Yadwinder., Research paper, *Bol Mardania: Kainati Jashan da Tassavar*, National Seminar on Multiculturalism and Punjabi Literature, Dept. of Punjabi, University of Delhi, Delhi. 22-23 Sept., 2016.

Singh, Yadwinder., Research paper, *Bol Mardania: Poorabwadi Kaav Shaster di Talash* in a National Seminar organized by Guru Gobind Singh Khalsa College, Chandigarh. Nov., 2016.

Singh, Yadwinder., Research paper, Prof. Puran Singh: *Brahmandi Jashan da Kainati Jashan* at a National Seminar on Hermeneutics of Guru Granth Sahib organized by Guru Granth Sahib Studies Dept., Punjabi University, Patiala on 5-6 Dec., 2016.

### **Inter-Institutional Collaboration**

Sahitya Academy, Delhi and SS Noor Foundation, Delhi

### **Extension and Outreach Activities**

Faculty and students regularly participate in book discussions held third Saturday of every month organized by Punjab Literary Forum, Bhai Vir Singh Sahit Sadan, New Delhi.

### **Ph.D. / M.Phil Awarded**

Ph.D. – 06

M.Phil. – 21

### **Faculty Strength**

Permanent – 9

### **Other Significant Information**

The Department of Punjabi is conducting courses for the students of M.A., M.Phil., Ph.D., Certificate and Diploma programmes.

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## **SANSKRIT**

### **Major Activities and Achievements**

Major activities of the department include the National Seminar on the occasion of Celebration 70<sup>th</sup> Independence Day; the Shri Indra Vidyavachaspati Sanskrit Elocution Competition; National Seminar on *The Linguistic Speculations in Indian Traditions*; collaboration with Dept. of African Studies and ICCR; National Seminar on *The learning of Sanskrit Śāstras in the present University System*; and the celebration of the Traditional New Year, *Vikrama Samvatsara – 2073* on 8 April, 2016 at Satyakam Bhawan, Social Science Extension Building.

### **Honours / Distinctions**

Dr. Ranjan Kr. Tripathi received Yuva-Pratibha Vidvat Alankaran Award by Akhil Bhartiya Vidvat Parishad, Varansi, 2016.

Dr. Ranjan Kr. Tripathi received Vikram- Kalidas Award, (M.P. Gov) by Vikram University Ujjain. 2016.

## Publications

- Arya, K. (2017). Shvetashvataropaniṣad ka traitwad chintan. *Ved-Vedant Tatha Vedaang*, Jyotish Parimal prakashan pp.95-101, Delhi.
- Arya, K. (2016) Agnipurane Varnashram Vyavastha. *Anvikshiki*, IV, 108 -113.
- Arya, K. (2017). Bhanudaya vilas ek samiksha. *Vilas Kavya Sangrah*, pp.50 -55. Parimal Prakashan
- Arya, K. (2017). Rigved ke Sukta {3/61 }Ushas ke Adhar pr Visheshan shabdon ka vyutpatti mulak adhyayan. *Shodh Navnit*, pp. 108-113.
- Arya, K. (2016) Ved Sanrakshan ke upay, Vaksudha, II, pp.7-10.
- Arya, K. (2017) Jyotish main nakshatra aadi ka shubhashubhatva tatha war. *Rashiyā-Vaidashikon ki, Ved –Vedant Tatha Vedaang Jyotish*, pp.237-250. Delhi: Parimal prakashan
- Behra, R., (2016). *Sanskrit Sahitya Ka Itihas*, Team Member, NCERT, New Delhi
- Behra, R., (2016). Uvatacharyasya Vedavyakhyapaddhatih, *Pavamani, Gurukul Prabhat Ashram, Merrut, 2016*,
- Behra, R., (2017). Vedabhashyaparamparayam uvatacharyasya yogadanam, Hariprabha (Haryana Sanskrit Academy), 14, 1-2, pp.11-15.
- Behra, R., (July-Dec, 2016). Vaidikavanmaye rudrasya svarupam, *Vaidika Vag Jyotih*, (Gurukul Kangri Vishwavidyalaya) 4(7), pp. 132-137.
- Behra, R., (2016). Vaidikavanmaye krishivijnanam, *Vaksudha*, 1(2), Pp.149-152
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- Chandra, S. (2017). *मशीनी अनुवाद (Machine Translation) यूजीसी सीबीसीएस स्कीम के तहत बीए (संस्कृत) के एईईसी (AEEC)-3 के पाठ्यक्रम पर आधारित* (1st ed.). New Delhi, Delhi: Vidyanidhi Prakashana.
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- Dwivedi, V. K. (2016). Atharvaved me Manwadhikar ki Adarsh Surksha. *Sanskrit Vangmaye Manwadhikarah*, Varanasi. Yugantar Prakashan, pp.169-173.
- Dwivedi, V. K. (2016). Athrvavediya Dampatyajeevan ki Vartman Prasangikata. *Vanhmayam*, Allahabad. Trivenika Sanskrit Parishad, pp.40-43.

- Dwivedi, V. K. (2016). Vartman Samsyao ka Vedic Samadhan. In *Nation Building Through Higher Education, Centre for Professional Development in Higher Education, University of Delhi, Delhi*. New Delhi Publishers, Delhi, pp.209-214.
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- Pandey, B. (2017). *शास्त्रवातायनम्, यश प्रकाशन, दिल्ली, २०१७*
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- Ranjan, R. (2016). *Vaivāhika vighāṭana ke vividha āyāma aura jyotiṣaśāstrīya sandarbha. Future Samachar (ISSN-2278-7941), pg.39-40.*
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- Shukla, B. (2016), *सहृदय शास्त्र, गवेषणा, Kendriya Hindi Sansthan-Agra., Number 108/ 2016 Pp. 229-237.*
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Books :



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Dindoriya V. P. (2016), *Vakroktijīvitam – Prathama Unmeṣa* Delhi, Shivalik Prakashan. ISBN 978-93-85144-76-9  
Dindoriya V. P. (2016), *Vilāsakāvyaśaṁgrahaḥ*. New Delhi: Manyata Prakashan. ISBN 978-93-83559-61-9  
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Tripathi, R. K. (2016). *Tripurdahah*. Delhi: BSK Publishers, ISBN 81-9303042-7  
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Shukla, B. & Jha, P. (2016). *Laghu-Sandesham*. Delhi: Vidyanidhi Prakashan

### **Research Grants / Other Projects**

2016- *Mind, Morality and Motives: Learnings from Indian Traditions*. Funded 10,00,000/-by ICSSR, Total for the period of 2 years - Dr. Balram Shukla

### **Seminars Organized**

National seminar on the occasion of Celebration 70<sup>th</sup> Independence Day, 20<sup>th</sup> Aug. 2016.  
National Seminar on *The Linguistic Speculations in Indian Traditions*, 28-29 March, 2017  
National Seminar on *The learning of Sanskrit Śāstras in the present University System*, 11-12 March, 2016 in the South Delhi Campus.

### **Seminar / Conference Presentation**

Karuna Arya, Presented paper and session coordinated, *Modern Sciences And Vedas*, 12th International Conference of WAVES 2016 on scientific aspects of Vedic Knowledge held at Bhartiya Vidya Bhawan, Kasturba Gandhi Marg New Delhi, from dec.15 to dec.18, 2016..  
Karuna Arya, Presented Paper and one session coordinated *Agnipurane Varnasharam Vyavastha*, 48th Session of All India Oriental Conference, Haridwar, Organised By Uttarakhand Sanskrit University & University of Patanjali, 12th to 14th Nov. 2016  
Karuna Arya, Participated in Faculty Development programme on pedagogical skills held organised by Dept. of Sanskrit Hansraj college, University of Delhi, on 18<sup>th</sup> feb, 2017.  
Karuna Arya, Coordinated & participated two day national seminar on *The Linguistic Speculations In Indian Tradition* at the Dept. of Sanskrit, University of delhi south campus on March 28 -29, 2017.  
Ranjit Behera, Paper presented titled *Vedabhashyaparamparayam Uvatacharyasya Yogadanam* in the National Seminar on Vedarthaprakriyayam Bhashyakaranam Yogadanam organized by Swami Samarpanananda Vaidik Shodh Sansthan, Merrut on 14.8.2016.  
Ranjit Behera, Paper presented on *Supplementary Materials in Sanskrit Teaching* in the National Seminar on *Sanskrit in School : Where and How we are?* Organized by DEL, NCERT, New Delhi on 19.8.2016.  
Ranjit Behera, Paper presented on *Svarashastradritya Mantrarthavimarsah* in the 48th Session of All India Oriental Conference organized by Uttarakhand Sanskrit University & University of Patanjali on 13.11.2016.  
Ranjit Behera, Lecture delivered on *Vartamanasamaye Sanskritasya Prasangikata* in the Skill Development Course organized by Dept. of Sanskrit, Daulat Ram College, DU on 15.12.2016.  
Ranjit Behera, Paper presented on *Vaidikasvaravijnanam* in the International Conference on Scientific Aspects of Vedic Knowledge organized by WAVES International & WAVES India on 17.12.2016.  
Ranjit Behera, Paper presented on *Vedoktajivanamulyanam Sampratiki Prasangikata* in the Inter National Seminar on Sanskrit Literature and Human Values organized by Dept. of Sanskrit, Kalindi College, DU on 3.3.2017.  
Ramesh Bharadwaj, Keynote Address in the National Seminar on *the Philosophy of Yogavastha* at Punjabi university, Patiala Oct. 2016.  
Ramesh Bharadwaj, Organized 1 day workshop on *Sanskrit & World Litt.* at UDSC for College teachers & delivered lectures on same topic at Miranda, Bharati, Daulat Ram, Kalindi colleges of DU, during Jan.- April Semester, 2017.  
Paper presented on *Sanskrit & its relevance* at SNTD university, Mumbai on March 21, 2017.

Ramesh Bharadwaj, Keynote Address on *the History & Geography of Ramayana* at MD university, Rohtak March 27, 2017.

Ramesh Bharadwaj, Keynote Address & Organised National seminar on *Indian tradition of Linguistic Speculation* at UDSC on 28-29<sup>th</sup> March 2017.

Om Nath Bimali, Lectures In the Workshop on Manuscriptology & Palaeography Organized by Shri Lal Bahadur Shastri Rashtriya Sanskrit Vidyapeetha, New Delhi on 03-03-2017 to 24-03-2017.

Om Nath Bimali, Lecture, *Importance of grammar in editing Manuscript*, In the National Workshop (04-03-17 to 24-03-2017) on Manuscriptology and Paleography organized by the Dept. of Sanskrit, Shantiniketan, Kolkata on 19-03-2017.

Ved Prakash Dindoriya, *Rājanītiśāstrako Sanskrit kīdena* National Seminar on Sanskrit as an Interdisciplinary Subject (Generic Elective), Dept. of Sanskrit, Satyawati College, (University of Delhi), Ashok Vihar, Delhi, 08 Feb., 2017.

Ved Prakash Dindoriya, *Dayānandabhāṣyameinvyākaraṇaśāstrakāavadāna : Yajurveda ke40ve adhyāyakesandarbhamein*. National Seminar on Vedārthanirṇayavedāṅgavyākaraṇasyavaiśiṣṭyam. 2-3 March 2017, V.V.B.I.S.& I.S.(P.U.), Hoshiarpur, India.

Ved Prakash Dindoriya, *Atharvaveda meincikitsāpaddhatiyān*, Two days National Seminar on Vedonmeincikitsāvijñāna. Vaidika Mission, Mumbai, 18-19 March, 2017,.

Ved Prakash Dindoriya, *VālmikiRāmaṇakeanusāralkṣvākuvaṃśaparamparā*, National Seminar on History and Geography as narrated in Vālmiki Rāmāyana, Dept. of Sanskrit, Palikrit, Maharshi Dayanand University, Rohtak, 27 March, 2017.

Vijay Shankar Dwivedi, Presented a paper, *Atharvaved me Varnit Manavmulyoki Vartman Prasangikata*, International Seminar on 'Sanskrit Literature and Human Values' organized by Dept. of Sanskrit, Kalindi Collage, University of Delhi in Collaboration with Delhi Sanskrit Acadmey on 02-03 March, 2017.

Vijay Shankar Dwivedi, Presented a paper, *Vedo mein Varnit Sumati avm Sukrit Vartman Prasangikata*, International Seminar on Morality to Spirituality : Religion, Society and Development organized by Savitri Bai Fule Government Post Graduate Collage, Collaboration with Z-axis Thought Experimental Labs (TEL) Pvt.Ltd Chennai Tamil Nadu, India, held on 29-30 January, 2017

Vijay Shankar Dwivedi, Chaired a Session and presented a paper, *Vedic Knowledge System*, 12th International Conference & 20th India Conference on 'Scientific Aspect of Vedic knowledge' organized by WAVES (World Association for Vedic Studies) on 15-18 Dec., 2016

Vijay Shankar Dwivedi, Coordinate session national Seminar on *The Linguistic Speculations in Indian Traditions*, organized by Dept. of Sanskrit, South Campus University of Delhi, Delhi on 28-29 March , 2017

Vijay Shankar Dwivedi, Presented a paper, *Tradition of Vedic Philosophy*, as Resource person. National Seminar on 'A Rational Reconstruction of Indian Cultural Heritage in the Light of Its Socio-Philosophical Traditions' organized by Sidho-Kanho-Birsha University, Purulia West Bengal In Collaboration with Indira Gandhi National Centre for Arts, New Delhi and Dept. of Information & Cultural Affairs, Government of West Bengal held on 16-18 March, 2017

Vijay Shankar Dwivedi, a paper, *Atharvavediya Dampatya jeevan ki Samsamayik Prasangikta*, 48th Session of All India Oriental Conference, organized by Uttarakhand Sanskrit University & University of patanjali, Haridwar held on 12-14 Nov., 2016

M. Kishan, Presented paper, *Sahitya Shastraritya Shabdabodha Nirupanam*. National Seminar on The Linguistic Speculations in Indian Traditions organized by Dept. of Sanskrit, South Campus University of Delhi, Delhi on 28-29 March, 2017

M. Kishan, Research Paper, *Kautilyaarthashastre Krishivigyanam*. National Seminar, Ashtadashvidyay organized by the Sanskrit Academy, Adarsha Sansthan, Osmania University, Hyderabad and on 27-28 Feb., 2017

M. Kishan, Presented a paper, *Swatantrata Aandolan evm Mathura Prasad Dikshit ka Natyasahitya*. National Seminar on 'Swatantrata Aandolan Aur Sanskrit Sahitya' organized by Dept. of Sanskrit, University of Delhi, Delhi on 20 Aug., 2016 and Tek Chand Meena

M. Kishan, Attended the National Seminar on Sanskrit as an Interdisciplinary Subject (Generic Elective)

M. Kishan, Organized by Dept. of Sanskrit, Satyawati College, Delhi on 8thfeb 2017 and presented the Research paper on 'Arthasastraki Mulbhut-sankalpanayenevam Sanskrit Sahitya'

Rajeev Ranjan, Participated in the National Seminar on 'The learning of Sanskrit Shastras in the Present University System' held on 11 - 12 March 2016 in University of Delhi, South Campus as participant and present a research paper on the topic Adhunik Paridrishya me Jyotishshastr ke Adhyayan ki Dasha aur Disha.

Rajeev Ranjan, Participated in the National Seminar on 'The Linguistic speculations in Indian Tradition' held on 28 - 29 March 2017 in University of Delhi, South Campus as Resource Person and present a research paper on the topic 'Bharatiya Panchang Paddhati'.

Uma Shankar, Session Co-coordinator of the National Seminar on –The Linguistic Speculations in Indian Tradition held on March 28-29,2017,organised by theUniversity of Delhi, South Campus.

Sharda Sharma, Presented a paper, ekuo mUufr esa laLd`r dh Hkwfedk International Seminar on Sanskrit Literature and Human Values in Kalindi College and, on 02-03 March'17.

Sharda Sharma, Attended a One Day National Seminar on Computer and Sanskrit in PGDAV (Eve.) as chair person in the inaugural session on 31<sup>st</sup> March 2017.

Balram Shukla, Lecture on Shakuntalam of Kalidasa in National Post Graduate College, Badhalganj, Gorakhpur on 24.01.2017.

Balram Shukla, Presented a paper, National Seminar on The Philosophy of Abhinavaguptaorganized jointly by ICPR, Shri Lal Bahadur Shastri Rashtriy Sanskrit Vidyapitha and Rashtriya Sanskrit Sansthan, New Delhi (25-26-27 Dec.).

Balram Shukla, Presented a paper, National Seminar on the essays of Rama Chandra Shukla,organized by ICPR and Mahatma Gandhi Antarrashtriya Hindi Vishvavidyalaya, Wardha, at Shri Lal Bahadur Shastri Sanskrit Vidyapitha-Delhi. (12-11-2016)

Balram Shukla, Delivered a lecture in one day national seminar, on the subject- *Global Impact of Indian Manuscript Resources* at IGNCA, held by the Kalanidhi Division of Indira Gandhi National Centre for the Arts, New Delhi on 07-10-2016.

Balram Shukla, Special presentation on Pali e-Resources in one day national symposium organized on by Uttar Pradesh Sanskrit Sansthan, Lucknow.(21-05-2016).

Balram Shukla, Avadhesh Pratap Singh, presented a paper, *Advaita Vedanta ka Aachar Darshan*. International Seminar on 'Morality to Spirituality : Religion, Society and Development' organized by Savitri Bai Fule Government Post Graduate Collage, Collaboration with Z-axis Thought Experimental Labs (TEL) Pvt.Ltd Chennai Tamil Nadu, India, held on 29-30 January,2017 and

Satyapal Singh, Attended International Seminar on Linguistics and teaching of Hindi and Other Indian Languages Organized by: Dept. of Linguistics, University of Delhi and present the paper on the topic Shiksha; the methodology of Sanskrit language teaching/learning and it's utility in the modern education system on 27-28 Feb. 2017.

Satyapal Singh, Attended International Seminar on Sanskrit Literature and Human Values Organized by Dept. of Sanskrit Kalindi College , Delhi, Sponsored by; U.G.C. and present the paper Vaidika Vānmaya meṁ upalabdha saumanasya , sāmmanasya , ātmīyatā aura mānavīya sandeśom kī vartamāna sandarbha meṁ upayogitā on 2nd & 3rd March, 2017

Satyapal Singh, Somveer, Presented Paper, भर्तृहरि दर्शन में तत्त्वमीमांसा in the 48th Session of All India Oriental Conference, Haridwar (उत्तराखण्ड संस्कृत विश्वविद्यालय) on Nov. 12-14, 2016.

D S Tiwary, (29-30 Jan. 2017), Relevance of the teachings of the Bhagavadgita for the Present Society, International Seminar on Morality to Spirituality: Religion, Society and Development, Savitri Bai Fule Govt. PG College, ChakiaChandauli, U.P.

Tiwary, D. S.(28-30 Dec, 2016),Relevance Of Shulbasutras of the Yajurveda : Modern Context, The First International Conference on Vedic Mathematics, ICCR, Rabindranath Tagore Centre, Kolkata.

Tiwary, D. S.(15-18 Dec 2016), Significance of the Yajurveda in Mathematical Study: Modern Perspective, International Veda Conference on Veda as Global Heritage: Scientific Perspective ,JNU, New Delhi.

Tiwary, D. S.(14 May, 2016.), Rishi-TattvameinVaigyanikaDrishtikona : 'Maharshikulavaibhavam' evam Vaishvika Pariprekshya, in National Seminar on Rishi-Tattva Organised by Shankarashikshayatan and BharatiyaPuratattvaParishad, New Delhi.

Tiwary, D. S. (10-11 Aug. 2016), Rangmanch Ki Drishti Se Sahitya darpana meinVarnitaNayaka-Nayika Ke bhedo pabhedon Ki Prasangikata: AdhunikPariprekshya in National Seminar on Theatre & Dramaturgy organized by Kalindicollege , University of Delhi.

Ranjan Kumar Tripathi, Attended National Seminar on 'Theatre & Dramaturgy in Modern Perspective' organized by Dept. of Sanskrit, Kalindi Collage, Delhi on 10-11 Aug., 2016 and presented a paper entitled 'Adhunik Yug mein Rangmanch ka Auchitya'.

Ranjan Kumar Tripathi, Attended National Seminar on 'All India Kalidas Samaroh' organized by Vikram University Ujjain & Kalidas samiti on 10-16 Nov., 2016 and presented a paper entitled 'Kalidas ke kavysaundaryavidhan mein 'Kamal'.

Ranjan Kumar Tripathi, Attended National Seminar on 'Bundelkhand ka Sarwagin Vikas avm Rajya Nirman ki Awasyakata' organized by Bundelkhand Collage, Jhansi on 10 Dec., 2016 and presented a paper entitled 'Sanskrit Sahitya Ki Dristri mein Bundelkhand'.

Ranjan Kumar Tripathi, Attended national Seminar on 'Swatantrata Aandolan Aur Sanskrit Sahitya' organized by Dept. of Sanskrit, University of Delhi, Delhi on 20 Aug., 2016 and presented a paper entitled 'Swatantrata Aandolan--Prachin Evam Adhunik Sanskrit Sahitya'

### **National / International MoU**

International – The University of Heidelberg, Germany has nominated a student, Mr. Johannes Uebelgunne for casual affiliation at the Department of Sanskrit under the existing MoU with the University of Delhi for one semester July-Dec. 2016 in the academic year 2016-17.

### **Inter-Institutional Collaboration**

The Dept. of Sanskrit has organized collaboration with Dept. of African Studies and ICCR on April 18, 2016.

### **M.Phil / Ph.D. Awarded**

Ph.D. – 25

M.Phil – 13

### **Faculty Strength**

Permanent – 23

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## **SLAVONIC AND FINNO-UGRIAN STUDIES**

### **Major Activities and Achievements**

The Department of Slavonic and Finno-Ugrian Studies prides itself as being the only department in the country where, besides Russian, courses in Bulgarian, Czech, Croatian, Hungarian and Polish languages are taught. This provides an opportunity to conduct a variety of activities beyond classroom teaching. Two major activities were organized this academic year – International Conference *Translation: Art, Craft and Cross-Cultural Praxis* and the annual Film Festival: *Little Europe - Nostalgia, Remembrance and Recollection* followed by a workshop for the students. The Dept. regularly collaborates with the Cultural Centers of the foreign countries to organize lectures and other activities of visiting specialists and experts, which gives the students an international exposure and widens their outlook.

### **Publications**

Books:

Munjaj, G. (2016). *Cases in Polish Grammar (with CD), Przypadki w gramatyce języka polskiego*, Published with the support of the Polish Institute in New Delhi, Langers International, New Delhi, India. (Book – 52 pages & CD - 3060 ppt slides), ISBN 978-93-85478-33-8.

Munjaj, G. (2016). *Sadharan Me Asadharan Ki Khoj (Search for Extraordinary in Ordinary)* Hindi Translation of a collection of Russian short stories by Vasily Shukshin, Published with the support of the Institute for Literary Translation, Moscow, Russia by Langers International, New Delhi, India. . ISBN 978-93-85478-35-2

Journal Articles:

Joshi, R. (2017). Bulgaria mein Hindi, *Ministry of Culture, 20*, p.44. Government of India

Koves, M. (2017). Sound odyssey – LanczkorGáborIndiában (in Hungarian : Sound Odyssey – GáborLanczkor in India) *Litera* [electronic journal] 31st March <http://www.litera.hu/hirek/sound-odyssey-lanczkor-gabor-indiaban> 2017 július 7.

Koves, Margit (2017). Hungarian hamlet. In Bhim S. Dahiya, (ed.), *Language in Shakespeare, Yet Another Review*, (pp.49-64). New Delhi, Mumbai : Viva Books, ISBN 978-93-86243-69-0

Munjal, G. (2016) An article in Russian, an attempt to understanding the incomprehensible in spoken translation – Попытка объять необъятное при устном переводе), 35<sup>th</sup> Issue of *Russian Philology Journal*, (pp. 158-178). A publication of the School of Russian Studies, The English & the Foreign languages University, Hyderabad, India, ISSN 2231-1564

Rai, K. Y. (2017). Abortion and the culture: A struggle between reality & morality in Poland. *Journal- Research innovator*, 35-40. ISSN – 23954744 2017

Rai, K. Y. (2016) Развитие Навыков критического мышления и опыт прочтения романа Замятина Мы в Индийской аудитории *Journal name- Современные образовательные технологии- средство и инструмент преподавания русского языка и литературы*, Year-2016 Vol -1 ISBN- 74.268.0

Saxena, R. (2017) (Ed.), Kostyukova, T, *Technologies of Development of Critical Thinkings Proceedings of Seminar*, Tomsk State University, Russia.

Suryanarayan, N. (2017). From Yashwant Place to Yashka: A case study of commodification of Russian in India, *International Journal of Bilingual Education and Bilingualism*. 20(4). Routledge, Taylor and Francis, ISSN: 1367-0050

### **Research Projects**

Dr. Rashmi Joshi, *A Text Book on Bulgarian History for Indian Students* funded by R&D Project, University of Delhi (Oct., 2015 to Oct., 2016).Rs. 1,00,000/-

Dr. Girish Munjal, *Cases in Polish Grammar* funded by Minor Project Polish Cultural Institute, New Delhi (2016) Rs.1,20,000/-

### **Seminars / Workshops Organized**

Annual Film Festival cum Workshop: Little Europe, 2016-17 *Nostalgia, Remembrance and Recollection* with active support from the Embassy of the Czech Republic and the Embassies of the Russian Federation, The Republic of Poland, Bulgaria, Hungary and Croatia in India.

Screening of the Czech film: Empties (Vratne Lahve) 2007, followed by workshop by film scholar Ms. Aanchal Kapoor, 27 Feb., Monday, 2017.

-Screening of the Bulgarian film: Journey to Jerusalem (Patuvane kam Yerusolim) 2003, followed by workshop by film scholar Ms. Meera, 28<sup>th</sup> Feb., 2017.

Screening of the Croatian Film: Halima's Path (Halimin Put) 2012, followed by workshop by film scholar Mohd. Irfan Dar, 01 March, 2017..

Screening of the Hungarian Film: Dollybirds (Csinibaba) 1997, followed by workshop by film scholar Ms. Trisha Gupta. 02 March, 2017.

Screening of the Polish film: Enlightened Soul: The Three Names of Umadevi, (Oswiecony Dusza: Trze imiona Umy Devi) 2015, followed by workshop by film scholar Ms. Saumya Sharma. 3 March, Friday, 2017. – Screening of the Russian film: Moscow does not believe in tears (Moskva slezam ne verit) 1980, followed by workshop by film scholar Ms. Trisha Gupta. 6 March, 2017.

Presentation by the students and closing of the Film-Festival, 8 March, 2017

### **Conferences Organised**

Two-day International Conference, *Translation: Art, Craft and Cross- Cultural Praxis*. The Conference brought together academicians, translators and research scholars from the Slavonic countries, Hungary, India and Bangladesh. 25-26 Oct., 2016.

### **Seminar / Conference Presentation**

International:

Saxena Ranjana, Paper presented *Thinking the past and Interpreting the Present*, IV International Congress of Translators Moscow, 9-11 Sept., 2016.

Suryanarayan Neelakshi, Paper presented *Healing the cross cultural divide : Role of Russian language workers in India's Health Care Sector* 9th Annual International Conference on Languages and Linguistics, Athens Institute for Education and Research, Athens, Greece. 4-7 July, 2016,

Koves Margit, Paper presented *Hozzaszolas: Magyaroktatás a Delhi Egyetemen* Conference II Meeting of Hungarians World Wide Higher Education in the Carpathian Basin, Pecs, Hungary 31<sup>st</sup> March, 2017.

Munjaj Girish, Paper presented *The Problems of Adequate Translation of V. Shukshin's Stories into English & Hindi*, IV International Congress of Literary Translators. Institute of Translation, Moscow, Russia, 8-11 Sept. 2016.

Munjaj Girish, Paper presented *Translating from Polish into Hindi & vice-versa: Challenges & Responsibility of a Translator as a Culture mediator*, International Conference Culture in Transfer Translation and Transcultural Communication, Philology Faculty, University of Wroclaw, Poland, 10<sup>th</sup> June, 2016

National:

Saxena, Ranjana., Paper presented, *Contemporary Russian Literature; An Invocation to Dialogue* at the conference Exploring Eurasia: Traditions and Prospects ,Women's Christian College, Kolkatta, Nov., 2016.

Joshi Rashmi, Paper presented, *Indirect translation- a case study of Bulgarian Literature* the International Conference Translation: Art, Craft and Cross-Cultural praxis University of Delhi, Delhi, 25<sup>th</sup> 26<sup>th</sup> Oct. 2016

Joshi Rashmi, Paper presented *The Thracian Culture and First Bulgarian Empire* in the seminar History and Culture of Bulgaria, Embassy of Bulgaria, New Delhi, 18<sup>th</sup> Sept. 2016

Suryanarayan Neelakshi, Paper presented *Literary translation as a means of literary influences. A case study of Harry Potter and Tanya Grotter*. International Conference 'Translation: Art, Craft and Cross Cultural praxis' Dept. of Slavonic and Finno-Ugrian Studies, University of Delhi, 25<sup>th</sup> 26<sup>th</sup> Oct. 2016

Koves Margit, Paper presented *The Call of India in Elizabeth Sass Brunner's and Elizabeth Brunner's Paintings* conference Indian Subjects, Foreign Artists Indian Council for Cultural Relations, 10-11 Oct., 2016

Koves Margit, Paper presented Reception of Hungarian Literature in India through Translations International Conference Translation: Art, Craft and Cross-Cultural Praxis at University of Delhi, 25-26 Oct., 2016.

Koves Margit, Paper presented *You are to me* Krisztina Toth's adaption of Shakespeare's Sonnet No LXXV Conference Reworking Shakespeare: Translations, Adaptations and Re-appropriations, Chaudhary Devi Lal University Sirsa a Shakespeare Association (India), Sirsa, Haryana, 13-15 Feb., 2017.

Koves Margit, Paper presented *Borders and border-crossings in the prose of Krisztina Toth* Conference Borders and Border-Crossings: Politics and Poetics of Migration Savitribai Phule Pune University, Goethe Society of India, Pune, Maharashtra 22-24 Feb., 2016.

Koves Margit, Paper presented *Play of Rajatszias a project of collaboration between poets and pop musicians in Hungary* Conference New Experiments in Contemporary Literature Germanisztika- Romanisztika Tanszek, Delhi Egyetem, 2-3 March, 2017.

Munjaj Girish, Paper presented *Understanding Cultures through Literary Translation: Russian, Hindi, Polish Experience*, International Conference: Translation: Art, Craft and Cross-cultural Praxis, Dept. of Slavonic Studies, University of Delhi, 25-26 Oct., 2016.

Munjaj Girish, Paper presented *The Image of India as Reflected in Russian Literature*, National Seminar: Literary relations: India and the World, Dept. of MIL, University of Delhi, 10<sup>th</sup> March, 2017.

Vashist Deepika, Paper presented *Gender in Translation by Sherry Simon: An overview* in the 'International Conference Translation: Art, Craft and Cross-Cultural Praxis', Dept. of Slavonic and Finno-Ugrian Studies, University of Delhi, Oct. 25-26, 2016.

Rai Kumar Yogesh, Paper presented *Translation and Untranslatability of the unreal world* International Conference Translation: Art, Craft and Cross Cultural Praxis Dept. of Slavonic and Finno-Ugrian Studies, University of Delhi, 25-26 Oct., 2016.

**M-Phil. / Ph.D. Awarded**

Ph.D – 01

M-Phil – 02

## Faculty Strength

Permanent – 3

## Other Significant Information

18<sup>th</sup> Jan., 2017, A Russian Poetry Competition RIFMA-2017

All the students of Dept. and different colleges participated in the competition. The Prizes were distributed to the I, II, & III position by the organizer. Consolation prizes were also distributed among the students.

1<sup>st</sup> Feb., 2017 An Inter-College Quiz Competition (AZBUKA-2017) on Russian Language, Literature, History and Culture. All the student of Russian Certificate from the Dept. and different colleges' students winning participated in the competition. Prizes and certificates were distributed to the I, II, & III position. Consolation prizes were also distributed among the students

9<sup>th</sup> Feb., 2017, On the occasion of the World Poetry Day Silver Age of Russian Poetry an Interuniversity Poetry Rendition in collaboration with Russian State University of Humanities, Moscow organized the programme in the Dept. of Slavonic & Finno-Ugrian Studies.

15<sup>th</sup> Feb., 2017, The students of Russian Language from our Dept. went to Russian Centre of Science and Culture to participate in events organized by them on the occasion of the Days of Russian Language, Literature and Culture. The students participated in the Poetry, Olympiad on Russian and English, Singing, Poster making and essay writing competitions. Students received prizes for First, Second and Third Positions in various events.

15<sup>th</sup> March, 2017, An interactive session on Bulgarian and Indian festivals. The students from Dept. of Eastern Languages, University of Sofia, Klement Okhridski DessislavaMikhailova, PlamenaVulcheva and Sofia AntoanetaTodorova spoke in Hindi on Christmas Eve, Christmas and Easter in Bulgaria. The students from Dept. Anuj, Rajesh, Nilu, Poornima and Aman spoke in Bulgarian on Holi, Diwali, Dussehra, Id and 15<sup>th</sup> Aug. (Independence Day) in India.

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## URDU

### Major Activities and Achievements

The teachers of the Department are actively engaged in research and publications work in different areas of urdu Literature. A number of distinguished visitors, Professors and eminent personalities visited the Dept. to deliver the special lectures and interact with faculty members and students.

### Honours / Distinctions

Prof. S.A. Karim appointed as a Director, N.C. P.U.L

### Publications

Kamal, N.M. *Fasana-eAjaib* (Ed. with Muqaddam). Kitabi Dunia, Delhi.

Kamal, N.M. *Shaidaki Urdu Shayri in Naqoosh-e-Ajmal*. CCRUM, Delhi 2016.

Kamal, N.M. *Interzar Husain in intezar Husain: Hayat aur Fun*. Dr.Naim Anis (Ed.). Kolkata 2017.

Kazim, M. *Ishariya Urdu Science Mahnama*, Published by Educational Publishing House, Delhi in 2017. ISBN: 9789386486059

Kazim, M. *Watan Ka Qarz*, Collection off stage plays by Rashid Nirauwa Razdan, Published by Society for the promotion of Urdu, Mauritius. 2017, ISBN: 9789383322466

Kazim, M. *Henrik Ibsen Ke Teen Dramey*, published by Arshia Publications. New Delhi, 2016, ISBN: 9789381029428

Kazim, M. *Mohammad Mujeeb Ke Drame*, published by National Council for Promotion of Urdu Language (NCPUL) Ministry of HRD, Government of India, 2016. ISBN: 9789351600893

- Kazim, M. Intezar Hussain KI Justujoo Kya Hai?, in the book Intezar Hussain: Hayat-o-Fun compiled by Dr. Nayeem Anis, Published by West Bengal Urdu Academy, Government of West Bengal, Kolkata, 2017, ISBN: 9789384286378, pp 100-131.
- Kazim, M. Allama Wahshat Aur Unki Shanakht, in the book entitled Wahshat Kalkatwi:Fan Aur Fankar, compiled by Dr.Shakil Ahmad Khan, Published by Subhas Chandra Bose Centenary College, Lal Bagh, Murshidabad, West Bengal, 2016, ISBN: 9788186346648, pp 39 – 47.
- Kazim, M. Sa'adat Hasan Manto Ki Drama Nigari: Aik Ajmali Jaiza, in the Book entitled Manto Fan Aur Shakhsiyat, compiled by Dr NaushadAlam, published by Ram Nagar Lane Forum of Revolution for Communities Education, Kolkata, ISBN: 9788186346464, pp: 40-53
- Kazim, M. Urdu Drameyka Safar Aur Ajkal, Monthly Ajkal, New Delhi, July 2017, ISSN:0971846X, pp: 21-23
- Kazim, M. Intezar Hussain Ki KhudnawishSawaneh, Half Yearly HamariAawaz, Dept. of Urdu, Chaudhry Charan Singh University, Meerut, Vol. 14, Issue 12, 2017, ISSN ; 23947381, pp: 64-78
- Kazim, M. Khushk Tahni Zard Patte Ka Shair: YousufTaqi, *Quarterly Darbhanga Times*, Darbhanga, Jan. – Sept. 2017, ISSN : 23952016, pp: 208-212.
- Prof Shamim Nikhat: Aik Mushfiq Ustaad, Munfarid Fankaar, *Quarterly Mizgaan*, Kolkata, July – Dec. 2016, ISSN : 23487119, pp:636 – 640
- Sa'adat Hasan Manto Ke Kirdaar Aur Shahid Anwar Ka Drama: GhairZaroori Log, *Rang Rasa*, Koklkata, Jan.-June 2016, ISSN: 23949821, pp:32 – 40
- Qadri, M. A. (2017). Munshi Naval Kishor : Kea Urdu tarajim in Syed Shafeeq Ahmed Ashrafi , Naval KIshorShanai , New Delhi M.R Publication.
- Qadri, M. A. (2017). Jammu & Kashmir main AdabiTarjumeKiRiwayat, *AdaboSaqqafat* (Bi-Annual Research & Refereed Journal) Issue-4 pp- 175-206 .
- Qadri, M. A. (2017). Jammu & Kashmir main Urdu Sahafat, *Urdu Duniya* Monthly, March -2017, Vol. 19 , Issue:03 pp-36- 38.
- Qadri, M. A. (2017). Chottikajadaislahakaekpahelu international refereed journal, vol-3, issue 10th pp52- 55
- Qadri, M. A. (2017). Kalam-e-Iqbal meinTaswur-e-Jamal, Taryaq Monthly, Mumbai
- Abbad, A. B. Tanqeed se parey, ISBN 81-7801880-2, Different articles on poetry criticism, Frid Book Depot (Pvt.)Ltd,New Delhi-110002.
- Abbad, A. B. Ab jahanaaftab me hum hain, included inDarbhangamein Urdu Afsana Nigari, by Dr.Mojeer Ahmad Azad, ISBN 978-93-86486-68-4, Published by Educational Publishing House, Delhi, , pp 150-158
- Abbad, A. B. Ismat, AfsanaaurNaqid, included in Asmatchughtai: TanisiyatkipehliAawaz,publisher Rajasthan Urdu Academy,Jaipur 302004.pp104-115.
- Abbad, A. B. Taraqqi pasadafsaneykipehliNaqeeb: asheedJahan, included in Naqd-e-Afsana, Edited by MansoorKhushhtar, ISBN 81-88912-72-7,Published by Book Corporation, Delhi,6 .pp 28-36
- Abbad, A. B. Aasman-e-shaeri k eek aursitareykibazyaft, included in Kalam-e-Shams Gulaothvi, by Nadeem mahir, Green Pages, New Delhi, pp42-52.,
- Abbad, A. B. (2016). Pasand-o-napasandkedarmeyankamurshidekamil, included in Nazar-e-AbulKalamQasmi, ISBN 978-93-5073-883-2, Ed. by MoidurRehman, Educational Publishing House, Delhi, , pp 110-120.
- Abbad, A. B. (2016). Panditanand Narayan Mulla: ekBazyaaft, included in PnditAnand Narayan Mulla: Hayat-o-kamalaat. ed. byAsifAzmi&Aziz Nabeel, Majlis-e-Fakhr-e-Bahrain, baraeFrogh-e-Urdu, Doha, Qatar, pp427-444.
- Abbad, A. B. Paigham afaqi ki nazmiya shaeri, pp133-36,Urdu Urdu (Academic Research and Refereed Journal)Annual magazine, Dept. of Urdu Patna University, Patna, 2017,ISSN:2249-7854
- Abbad, A. B. (2017). Urdukaawwaleenjiddatpasandshayer: QuliQutub shah, pp 12-18, SabRas, Hyderabad. ISSN:2778-6902
- Abbad, A. B. (2017). Bihar kaek nadaryaft heera:Dr Ahmad Sajjad Qasmi, pp217-221,Darbhanga Times, Darbhanga. ISSN:2395-2016,
- Abbad, A. B. (2017). Urdu Novel kitehzihibijehaataurAhamkirdar, pp352-57, Issue: 4, Aabsha (quarterly) miyanwali, PAKISTAN.
- Abbad, A. B. Mominaurunka Kalam, pp77-85, Fikr-0-Nazar, Aligarh Muslim University, Aligarh. ISSN:2347-3401,



Abbad, A. B. Zauq-e-saleem aursuthrishayerikabani: WaliDakni, pp 19-28, SabRas, Hyderabad  
ISSN:2778-6902,

Abbad, A. B. Urdu Ghazal ka Hindustani Mojaddid: Ghalib, pp168-184, QuartelyAdob-o-Saqafat, (refreed journal)  
Issue:3, Hyderabad ISSN:2455-0248.

Abbad, A. B. Daagh: Zuban-e-urdukashayer, pp71-75, QuartelyDaagh, Daagh Academy, New Delhi,

Abbad, A. B. KaleemAajiz: ekaurpehloose ,pp37-44, Darbhanga Times (Quarterly), Darbhanga. ISSN No.2395,

Abbad, A. B. Do hazarterahtakkechand Urdu Novel, pp 216-227, Adab Silsila, Delhi. ISSN:2456-0359,

Abbad, A. B. Rajender Singh Bedi Ke Fan kaQadreMukhtalifMotalea, pp 100-110, Sohail, Kolkata, , Vol:4, Issue:7-10, ISSN 2347-2392

Abbad, A. B. Ghalibkighazalkahani, pp240-250,Ghalib Nama,Vol:39,Issue:2,Ghalib Institute, New Delhi.

Abbad, A. B. Iqbal: aalamiwehdatkashayer, pp 41-46, Merapayam, ,New Delhi, ISSN 9-780991-556984-97809

Abbad, A. B. Ghalib, GazalaurAfsana, pp.55-64 Jahan-e-Ghalib, ISSN2349-0225,Vol. 11, Issue:22.,

Abbad, A. B. Akhtarul Iman Tum hi ho, pp57-61 Sabq-e-Urdu, Issue:38, Bhadohi, New Delhi. ISSN 2321-1601,

Ara, A., Shumaalki Jaanib Hijratka Mausam (Urdu Translation of TayibSalih's novel Season of Migration to the North), Educational Publishing House, Delhi, ISBN 978-93- 86486-69- 1

Ara, A., Sang-e Saboor (Urdu Translation of AtiqRahimi's novel Patience Stone), City Press, Karachi, ISBN 987-969- 648-025- 9

Ara, A., Zehar Mohraaur Dusri Kahaniyan (Translation of DivyaMathur's 24 Short Stories), Educational Publishig House, Delhi, ISBN 978-93- 5073-802- 3

Ara, A., Afghan AdeebAtiqRahimiaurUnke Novel, Imroz, Aligarh, book 2, pp34-55

Ara, A., Naseebaur Ghazal men WaqtaurHaqiqat (translation of Renate Jacobi's Time and Reality in Nasib and Ghazal), Urdu Adab, AnjumanTaraqqi-e Urdu Hind, New Delhi, Vol:60:238, pp 81-102, RNI No. 13640/57

Ara, A., LaashkiNumaish (Translation of an Irqai short story Corpse Exhibition by Hasan Blasim), Tafheem, Rajouri, J&K, book 12, pp 140-44, ISSN 2347-7415

Ara, A., Sang-e Saboor (Urdu Translation of AtiqRahimi's novel Patience Stone), Aaj, Karachi, vol. 93, pp 9-107.

Ara, A., Shumaal ki Jaanib Hijrat ka Mausam (Urdu Translation of TayibSalih's novel Season of Migration to the North), Aaj, Karachi, vol. 97, pp 9-144.

Kumar, M., *Dr. Baba SahebAmbedkar* Published from Educational Publishing House Delhi in 2016.

Kumar, M., *Karmanwali mein bharat vibhajankitrasadi* published in parisamvaad in 2016.

Kumar, M., *Adam Gondavi Ki Kavitaon Mein Sarvhara Evam Dalit* published in Parisamvaad in 2016.

Kumar, M., *Salaam-bin-razzaq ke afsanon mein dalit sarokar* published in tahzeeb-ul-akhlaq in 2017.

Ahmad, I. 2016. *Imteyazat*, M.R. Publications, N. Delhi. ISBN: 978-93-86125-22-4

Khan, I. A., Urdu novel kachothaparao Gurez, Aajkal, Delhi, July, 2016.

Khan, I. A., Fan, matn, Tarikhaur Yasmin-e-Sham*Darbhanga Times*, Aug-Dec., 2016.

Khan, I. A., Naisadi main urduafsana : Mauzoat-o-Masail, Aiwan-e-Urdu, Delhi, Dec., 2016.

Khan, I. A., Sher ki fikre ko asad chahiye hai dilodimgh, Kitabnuma, May, 2017.

Khan, I. A., Amir Khusro Hindustan kitahzibiaiensazi ka bun yadguzar, NayaDaur May 2017.

Khan, I. A., Amir Khusro Ki Tarikhi Basirat, Aiwan-E-Urdu July 2017.

Idrisi, A. A. Eight books have been written for M.A. Course (Urdu) of Yashwant Rao Chauhan Open University, Nasik, Maharastra –

*Jadeed Urdu Ghazal*  
*Urdu ShaayrimeinTanz-o-Mizah*  
*Aligarh Tahreek*  
*AdbeeTahreekaat o Rujhanaat*  
*Urdu Ghazal Vol 1st*  
*Urdu Ghazal Vol 2nd*

*Study of Iqbal* Vol 1st

*Study of Iqbal* Vol 2nd

Omais, S., Adab Aur Ehtasab, Educational publishing house, Delhi-6, 2016, ISBN: 978-93-5073-909-902

Omais, S., Urdu Afsane Mein AuratkiAkkasi, *Urdu Journal*, Dept. of Urdu, Patna University, Patna, vol-7, issue:7-8. 2017. ISSN: 2249-7854

Omais, S., Hali aurTaleem-e-Niswan, *Aajkal*, New Delhi, Jan. 2017, ISSN: 0971-846X:

### **Seminar Organised**

Nizam Annual Lecture

Ghalib Memorial Lecture

### **Seminar / Conference Presentations**

Ali Javed, Delivered a lecture on *Composite Traditions of Hindi and Urdu Literatures* at Refresher Course organized by Jamia Millia Islamia, New Delhi, 15 June 2016.

Mohammad Kazim:

Ghalib Memorial Lecture, 2016

Nizam Urdu Khutbat, 2016

*Research Methodology in Language*, a series of Lectures in Refresher courses for University & College teachers, organized by UGC – Human Resource Development Centre (Academic Staff College), Gujrat University, Ahmadabad, Gujrat on 13th July 2017.

*Mass Communication and our Society*, a series of Lectures in Orientation courses and Refresher courses for University & College teachers, organized by UGC – Human Resource Development Centre (Academic Staff College), B.P. S. MahilaVishwavidyalaya, Sonapat, Haryana, 31 May, 2017.

*Post Parsi Indian Theatre*, Two separate Lectures in Refresher course (Interdisciplinary) for University & College teachers, organized by UGC – Human Resource Development Centre (Academic Staff College), JamiaMilliaIslamia, New Delhi, 2016.

*Azadi ke Baad Delhi Mein Urdu Drama*, A key note address in the National Seminar, organized by Angles Education and Social Welfare Society, Delhi, 21 Jan. 2017.

*My kind of theatre* (Play writing to Production), at Two Day National Urdu Theatre Conference, organized by Little Thespian, Kolkata, 25-26th Feb. 2017

*Intezar Hussain ki : Justujookyahai?* at a Two Day National Seminar on Intezar Hussain : Shakhsiyat Aur Funn, organized by West Bengal Urdu Academy, Government of West Bengal, Kolkata, West Bengal Nov. 25-26, 2016.

*Daagh Dehlavi: Apne Khutoot Ke Ainey Mein*. Two Day National Seminar on DaaghDehlavi, organized by Dept. of Urdu, Maulana Azad Urdu University, Hyderabad, Sept. 25-26, 2016.

Mithun Kumar, Presented a research paper in a national seminar on Tarjumakiahmiyat o ifadiyataurdalitsarokar At Bhopal urdu academy in 2017.

Shazia Omair, Presented paper in one day national seminar *Urdu ZabanKeFarogh Mein Popular AdabKaKirdar* on Popular Adab Mein Khwateen Ka Hissa organized by Pragati Sheel Mazdoor Jan Kalyan Sewa, Delhi on 11th March 2017.

Shazia Omair, Presented paper in one day national seminar *PaighamAfaqiKaTakhleeqi Canvas* on Makaan: EkMotalea organized by Sewa, New Delhi on 12th Feb. 2017.

Shazia Omair, Presented a paper in one day national seminar on *Akhtar Muslimi: FannAurShakhsiyat* entitled Akhtar Muslimi Ki Sheri Khainaat organized by AnjumanTalaba-e-QadeemMadrasatulIslah (Delhi Unit), on 9th Feb. 2017, New Delhi.

Shazia Omair, Presented paper in one day national seminar *Urdu AurDigar Hindustani Zubanon Ke Lesani Aur Tahzeebi Rishte* on Urdu aur Hindi ka Lesani Rishta: KhosusiShorakeHawale se on 13th Nov. 2016, organized by Support Society (2S), New Delhi.

Shazia Omair, Presented paper in two days national seminar Farsi aur Urdu: LesaniaurAdabiRiwayat on *Urdu ShairiPer Farsi Zaban-o-AdabkeAsraat* organized by Dept. of Persian, Zakir Husain Delhi College, on 21-22 April 2016.

N.M. Kamal, Presented a Paper on *Children Literature in Urdu* at Gandhi Bhawan, New Delhi, 23/08/2016

N.M. Kamal, Presented a Paper on *Naqd –E-DaghDahlvi* at MANUU, Hyderabad on 22/09/2016

N.M. Kamal, Presented a Short Story *Dood-e-ChirsgheMahfil* at MANUU, Hyderabad on 23/09/2016

N.M. Kamal, Presidential Lecture on *Journey of Urdu Journalism* at GhalibAcademy, Delhi, on 09/10/2016

N.M. Kamal, Presidential Lecture on *Research Methodology* at Ghalib Institute, Delhi on 01/11/2016

N.M. Kamal, Presidential Lecture on *Literary Contribution of Hakim Ajmal Khan* at Constitution Club on 9/11/2016

N.M. Kamal, Presidential Lecture in a seminar on *AkhtarulEiman: Life & Work* at Sahitya Academy, Delhi on 27/11/2016.

N.M. Kamal, Presidential Lecture at release function of RuswaiyanParchiyanatGhalib Academy on 27/11/2016

N.M. Kamal, Presented a Paper on *Urdu Marsiye me Razmnigar* at Jamia Millia Islamia Delhi on 23/4/1017.

N.M. Kamal, Presidential Lecture in a seminar on *Urdu ke Farogh mein Gher muslimadeebon ka Kirdar* at Noida on 14/4/2017.

N.M. Kamal, Presidential Lecture on *Importance of Education* at Ameerq Global School, Delhi on 14/5/2017.

N.M. Kamal, Presidential Lecture on *Taleem Ki Ahmiyat* at Al-Azhar Hind University, Delhi on 20/5/2017.

N.M. Kamal, Presented a short story *MujrimKaun* at Delhi UrduAcademy on 21/5/20 Awards and Distinctions

N.M. Kamal, Imteyaz Ahmad, Conducted a session of National Seminar entitled: *Nai Purane Chiragh* Organized by Delhi Urdu Academy, Delhi. 29 March-2 April, 2017

Irshad Ahmad Khan, A key note address on Urdu Ghazal 1950 se daure Hazirtak, Dept. of Gujrat, Arts and Science College, Ahmedabad Gujrat 25 Feb 2017.

Irshad Ahmad Khan, *EkiSwins Sadi Main Urdu Afsan :Mauzoat-O-Masao*; Dept. of Urdu, University of Delhi. 27th Oct.

#### **Ph.D / M.Phil Awarded**

Ph.D – 5

M.Phil – 15

#### **Faculty Strength**

Permanent – 14

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## **FACULTY OF COMMERCE AND BUSINESS**

### **COMMERCE**

#### **Major Activities and Achievements**

The year witnessed revision of Under Graduate courses syllabus in form of introduction of new papers and revision of some existing papers in B.Com. (Hons.), B.Com and B.A (Prog.). Chief events organized during the year comprised Reminiscence' 16 – MBA Alumni Meet, International Conference (ICEGOV 2017) in collaboration with NeGD, Seminar on Goods and Services Tax: The Road Ahead, 21<sup>st</sup> Annual Business Convention, Erudition 2016, two-day 5<sup>th</sup> Annual International Commerce Conference on “Startup to Sustainability: Initiatives and Challenges,” Workshop on ‘Cyber Laws and Crime – The Dark Side,’ two-day Annual Management Fest – ‘Atharva’ and Swachhta Abhiyaan initiatives. With the presence of renowned dignitaries from varied spheres, these events provided a vibrant platform to students, research scholars, faculty, alumni for valuable interactions and sharing of knowledge.

## Honours / Distinctions

### Faculty:

Best Research Paper Award for Sharma, Kavita 'Antecedents of Consumer Behaviour towards Energy Efficient Products' presented at International Conference on Corporate Finance, Governance and Sustainability organized by Delhi School of Business, VIPS in collaboration with ESCP Europe, University of Malaysia and University of Mauritius on Oct. 21-23, 2016.

Best Research Paper Award for Tripathi, Vanita 'Determinants of Outward Foreign Direct Investment by Indian Mines' presented at 2<sup>nd</sup> International Management Conference organized by FIIB, New Delhi during 20-21 Dec., 2016.

Best Paper Award for Singh, Amit Kumar, Bhanumurthy K.V and Annu Aggarwal 'Macro- Economic Antecedents of Stock Returns and Exchange Rate' presented at Two Day National Seminar on International Financial System: Challenges and Implications for India organized by Department of Commerce, Shaheed Bhagat Singh (Evening) College in association with Department of Financial Studies (University of Delhi South campus) New Delhi during March 1-2, 2017.

### Student:

National Event Stock Mind: Vishal (M.Com.) Batch 2014-16 won the first prize in National Event Stock Mind 4 (Quest for the best budding investor).

## Publications

### National Publications:

Kavita S. & Zareen, A. (2016). A study of customer life time value and its impact on customer retention. *Journal of Marketing Vistas*, 6(1), 14-25.

Shrotriyia V. K. (2016). Small is still beautiful. *SME World*, 9(9), 23.

Tripathi, V. & Chaudhry, P. (2016). Estimating volatility in indian and chinese stock markets. *International Journal of Banking, Risk and Insurance*, . 4(2), 37-49.

Tripathi, V. & Garg, S. (2016). A cross country analysis of pricing efficiency of exchange traded funds. *Journal of Applied Finance*, . 22(3), 41-63.

Tripathi, V. & Bhandari, V. (2016). Market conditions and the performance of socially responsible stock portfolios in India. *Business Perspectives*, 15(1), 1-19.

Tripathi, V. & Bhandari, V. (2016). Performance of socially responsible stock portfolios across sector in Indian stock market. *International Journal of Business Ethics in Developing Economies*, 5(1), 10-24.

Tripathi V. & Kumar, A. (2016). Long run relationships between aggregate stock prices and macroeconomic factors in BRICS stock markets. *Emerging Trends in Management and Public Policy*, 1-28.

Kanojia, S.and Arora, N. (2016). Bull and bear market phases: An empirical perusal of Indian stock market. *International Journal of Financial Management*, 6 (2)

Rashmi and Dangi, H.K. (2016). Act like a retailer, think like a brand: An overview of retailer brand equity and agenda for future research in Indian context. *Asia Pacific Journal of Management Research and Innovation*, 12 (1), 67-84

Singh, K. and Dangi, H.K. (2016) Diffusion of smartphones in India. *Indraprastha Journal of Management* 3(2), 91-100

Dangi H.K. and Krishna, A. (2016) An Assessment of disaster preparedness plan of select religious places in India accepted for publication in *South Asia Disaster.net*

Singh, A. K.and Anand, A. K.(2016). Initial public offerings: A review of literature. *Inspira- Journal of Modern Management & Entrepreneurship*, 6(3), 36-46.

Singh A. K. and Bansal, P. (2016). Impact of financial leverage on firms' performance and valuation: A panel data Analysis. *Indian Journal of Accounting*, XLVIII(2)

Singh, A. K. and Ajmani, A. (2016). Future of B2B ecommerce in India-An empirical analysis of sellers' perspective. *The Indian Journal of Commerce, Indian Commerce Association*, 69(3), July-September.

Singh, A. K. and Kumar, M. (2016). US subprime crisis, contagion and inter-linkages between Indian stock market and stock markets of China and U.S.A: An empirical analysis. *Splint International Journal of Professionals*.

International Publications:

Gupta, S., Sharma, K. and Garg, S. (2016). Branding in the emerging markets. In Francesca Dall’Olmo Riley, Jaywant Singh, and Charles Blankson (Eds.), *The Routledge Companion to Contemporary Brand Management*, London: Routledge Publications.

Shrotryia, V. K. & Krishna, M. (2017). History of well-being in south Asia. In RJ Estes & MJ Sirgy (Eds.), *The Pursuit of Human Well-Being – The Untold Global History* (International Handbooks of Quality-of-Life), Chapter 11, (pp 349-38)Switzerland: Springer International Publishing.,

Tripathi, V. & Bhandari, V. (2016). Performance of socially responsible stocks portfolios-The impact of global financial crisis. *Journal of Economics and Business Research*. 22 (1), 42-68.

Bhasin, N. and Justin, P. (2016). Exports and outward FDI: Are they complements or substitutes? Evidence from Asia. *Multinational Business Review*, . 24(1), 62-78.

Bhasin, N., Murthy, B. ., K.V. and Jain, V. (2016). Push factors causing outward FDI from select Asian Economies: Is sustainability a concern? In John R McIntyre, Silvester Ivanaj, Vera Ivanaj, and Rabi Narayan Kar (Eds.), *Emerging Dynamics of Sustainability in Multinational Enterprises*, UK: Edward Elgar.

Murthy, B. K. V. and Bhasin, N. (2016). Environmental kuznets curve: CO2 emissions, pollution havens and type of economic development. In John R McIntyre, Silvester Ivanaj, Vera Ivanaj, and Rabi Narayan Kar (Eds.), *Emerging Dynamics of Sustainability in Multinational Enterprises*, UK: Edward Elgar

#### **Books:**

Tripathi, V. (2016). *Basic Financial Management*. ISBN 978-93-86189-04-02, New Delhi:

Taxmann Publications. Singh, A. K. and Shrivastava, R. (2017). Assessment of IPOs performance on NSE during 2010-2015. In *Emerging Issues in Commerce and Business Management*, All Clear Publications.

Singh, A. K. (2016). (Ed). *Management Principles and Applications*. ISBN: 978-93-5262-299-3, New Delhi: Himalaya Publishing House.

#### **Journals Published by the Department:**

*Journal of Commerce and Business Studies*

#### **Faculty Serving as Editor(s)/ Members of Editorial Board**

Sunaina Kanojia member, Editorial Review Board of *Amity Journal of Corporate Governance* (AJCG), Amity University. ISSN: 2455-989X (Print); ISSN: 2456-1533 (Online)

Sunaina Kanojia member, Editorial Review Board of *Business Analyst*, a Refereed Journal of Shri Ram College of Commerce. ISSN: 0973211X

Sunaina Kanojia Member, Editorial Advisory Board, *Envision*, An *International Journal of Commerce and Management*, ISSN: 0973-5976

Sunaina Kanojia Member, Editorial Board, *International Journal of Business Management and Environmental Sustainability*. ISSN: 22492054

Amit Kumar Singh Member of the Editorial Board of the *International Journal Research in Business Management*, Macrothink Institute, Las Vegas, USA.

Amit Kumar Singh Member of the Editorial Board of the *Journal of Business Studies*, a journal of Shaheed Bhagat Singh College, University of Delhi.

#### **Research Projects**

University of Delhi, *Energy Saving Products and Sustainable Cities*, Prof. Kavita Sharma, Rs. 1,40,000.

University of Delhi, entitled *Role of Institutional environment in deciding ownership structure of multi-national enterprises in host country firms: Evidence from select economies*, Dr. Niti Bhasin, Rs. 1,00,000.

University of Delhi, entitled *An Assessment of disaster preparedness plan of select religious places in India*, Dr. Hamendra K. Dangi, Rs. 1,00,000.

### **Seminars / Conferences Organised**

Pre-Entrance Summer School: M.Com: The aspirants of M.Com course from categories like EWS/BPL, SC, ST, OBC (non-creamy) and minorities were provided free guidance through 'Pre-Entrance Summer School'. The programme was inaugurated by the Vice Chancellor Prof. Yogesh Tyagi on May 30, 2016. 23 faculty members taught 106 students in this school. Dr. Urvashi Sharma and Dr. Amit Kr. Singh coordinated this School.

Pre-Net Winter School: The aspirants of NET Examination (UGC) from categories like EWS/BPL, SC, ST, OBC (non-creamy) and minorities were provided free guidance through 'Pre-NET Winter School'. The programme was inaugurated by Prof. Kavita Sharma, Head, Department of Commerce and Prof. Shrikant Kukreti, Head, Department of Chemistry on December 17, 2017. 26 faculty members taught 104 students herein. The school was coordinated by Ms. Shivani Garg.

A Seminar on Digital India: Prospects and Dimensions: Department of Commerce organized a talk on Digital India: Prospects and Dimensions in collaboration with NeGD on February 27, 2017 in PGDAV College, University of Delhi. Prof. Kavita Sharma, Head, Department of Commerce, Delhi School of Economics was the chief guest for the event. Mr. RavindraVij and Ms. Sarika Srivastava, Manager (IT), Central Bank of India and Mr. Vijay Thakur, Director, National e-Governance Division were invited to deliver the talk.

Symposia, MBA (IB), an annual corporate conclave was organized by IISAC (Industry Interaction and Student Activity Committee), Department of Commerce, Delhi School of Economics. Spread across entire day with three sessions and a panel of experts from diverse backgrounds, it aimed to address ongoing trends in realm of corporate providing faculty and students an opportunity to harness a vast pool of practical knowledge to connect dots between theoretical and corporate world. The enlightenment began with lighting of lamp of knowledge as token of respect towards Goddess Saraswati. The session was declared open after introduction of speakers and a few kind words from Dr. Ashish Chandra (Coordinator, MBA-IB).

21<sup>st</sup> Annual Business Convention, Erudition 2016 was organized jointly by the students of MBA (Human Resource Development) and MBA (International Business) on September 23-24, 2016 at NDMC Convention Centre, Sansad Marg, New Delhi. With the theme 'Transcend: The Future is Here,' Erudition '16 provided a common platform to educationists, industrialist, entrepreneurs, and management gurus to share practical knowledge and their insights on current business practices globally with the students. On day one Dr. Jagdish Mukhi, Lt. Governor of Andaman and Nicobar Islands was the Chief Guest and Ms. Pia Khanna, Head of HR (South Asia), DuPont was the Keynote Speaker.

5<sup>th</sup> Annual International Commerce Conference: Department of Commerce, Delhi School of Economics successfully organized the Two Day 5<sup>th</sup> Annual International Commerce Conference on 'Startup to Sustainability: Initiatives and Challenges' on November 4-5, 2016 at Paintal Auditorium, Vallabhbai Patel Chest Institute. The inaugural session of the Conference was chaired by Dr. Subramaniam Swamy, Member of the Rajya Sabha as the Chief Guest for Day one. The event witnessed parallel sessions and discussions on Digital India and Sustainability Issues which were attended by eminent dignitaries from across industry and academia. Conference witnessed over 120 research paper presentations from scholars across the country on concluding day.

#### **Special Lectures Organised:**

Mr. Neeraj Jasrotia, Unit Manager - Global Shared Services, Ericsson Workforce Planning and Analytics 22.08.2016

Mr. Subroto Baul, Head of HR- South Asia, Gap Inc. Aptitude for career in HR 6.09.2016

Mr. Prabhav Mehra, Associate Vice President, Lucideus Digital renaissance transforming sales, 16.09.2016

Mr. Rajeev Kandari, Team Manager, HR, Royal Enfield General 22.09.2016

Mr. Rajeev Jain, Director & CFO, Intex Demonetization and Its Impact on Industry, 25.01.2017

Mr. Biren Misra, Associate Director, United Health Group Leadership Challenges in a VUCA Environment 07.02.2017

Prof S P Parashar, Ex Director, IIM Indore, Research for Effective Learning, 24.03.2017

### **Seminar / Conference Presentation**

Kavita Sharma presented paper titled 'Label Perceptions and Consumer Decision Making: An Empirical Investigation' under Information Processing and Consumer Evaluation Track at Academy of Marketing Science, World Marketing Congress held in Paris, France from July 19-23, 2016.

V.K Shrotriya delivered lectures on 'Work Happiness and Achievement', and 'Teaching - as livelihood and self-actualization' during Special Summer School organized by the HRDC, North-Eastern Hill University, Shillong from June 27-July 17, 2016.

S.K Jain attended International Conference on Theory and Practice of Electronic Governance (ICEGOV) organized by National e-Governance Division (NeGD), Ministry of Electronics and Information Technology, Government of India and the United Nations University Operating Unit on Policy-Driven Electronic Governance (UNU-EGOV), in collaboration with UNESCO, held at Ashok Hotel, New Delhi from March 7-9, 2017.

Vanita Tripathi chaired a Technical Session on 'Investment' at World Finance Conference 2016, held at St. John's University New York USA during July 29-31, 2016.

Sunaina Kanojia presented a paper on 'Corporate Governance, Board of Directors and Financial Performance: Evidence from Listed Indian Banks, 3<sup>rd</sup> International Conference on CSR, Sustainability, Ethics & Governance, organized by the Cologne Business School, European University of Applied Sciences, Cologne Germany, Aug., 2016.

H.K. Dangi and Ritu Sapra presented paper on 'Damage Assessment Approaches in Disaster operations: An exploratory study' in Annual Conference of Production and Operation Management Society held in Orlando, USA during May 5-9, 2016.

### **National / International MoUs**

National MoU-CAT-2016

### **Placement Details**

MBA (IB) Formerly Known as MIB 2016-17 Batch:

Students placed – 37(80%)

Companies visiting campus for recruitment – 31

MBA (HRD) Formerly Known as MHROD 2016-17 Batch:

Students placed – 29 (70%)

Companies visiting campus for recruitment – 36

### **M.Phil / Ph.D. Awarded**

Ph.D. – 10

M.Phil. – 20

### **Faculty Strength**

Permanent – 16

Ad-hoc – 16

### **Other Significant Information**

A special lecture on How will MNE's matter for economic development in the 21<sup>st</sup> century by Prof. Rajneesh Narula, Director, John H. Dunning Center for International Business, Henley Business School, United Kingdom on March 16, 2017.

Interactive session on Research for Effective Learning was organized on March 24, 2017. Eminent speaker for the session was Prof. S P Parashar who is an adjunct faculty in University of California, San Diego, USA and has also served IIM Indore as Director.

National Event Stock Mind: Vishal (M.Com.) Batch 2014-16 won the first prize in National Event Stock Mind 4 (Quest for the best budding investor), under the aegis of ICICI Direct Centre for Financial learning (ICFL). on 28 April, 2016 in Mumbai and the event was covered by media partner CNBC TV18. Prof. Kavita Sharma, Head, Department of Commerce was invited to grace the ceremony and the Department received the Rolling Trophy for Stock Mind Session 4.

Alumni Day was organized on Feb. 4, 2017. Alumni Day provides an opportunity for alumni to connect back to the University, to one another and to current students. It was divided into three major sessions: case study competition, fun activities and panel discussion.

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## FINANCIAL STUDIES

### Major Activities and Achievements

The Department of Financial Studies conducted its XXIX Annual Convention on The Convention was inaugurated by Shri P.P. Mitra, Principal Advisor, Ministry of Labour & Employment, Government of India and Mr. Augustine Peter, Honourable Member, Competition Commission of India was Guest of Honour.

### Publications

Sehgal, S. (2017). Volatility effect and role of firm quality factor in returns: Evidence from Indian equity market. *IIMB Management Review*, 29(1), 18-28

Sehgal, S. (2017). Information linkages among emerging equity markets: An empirical study. *Decision*, 44(1), 15-38

Sehgal, S. (2016). Integration from retail banking to non-financial corporations in EMU. *Journal of Economic Integration*, 31(3), 674-735

Sehgal, S. (2016). Assessing time-varying stock market integration in economic and monetary union for normal and crisis periods. *European Journal of Finance*, 23(11), 1-34

Sehgal, S. (2016). Domestic and International information linkages between NSE Nifty Spot and Futures Markets: An empirical study for India. *Decision*, 43(3), 239-258

Sehgal, S. (2016). Cross-sectional volatility and stock returns: Evidence for emerging markets. *Vikalpa*, 31(3), 234-246

Sehgal, S. (2016). Cross sectional moments and portfolio returns: Evidence for select emerging market. *IIMB Management Review*. 28(3), 147-159

Sehgal, S. Gupta, A. and Nashier, T. (2016). Effect of institutional ownership on firm performance. *The IUP Journal of Corporate Governance*, 15 (3), 36-55.

### Research Projects

Indian Council of Social Science Research (ICSSR), New Delhi, 2015-2017, *Financial Integration in the SAARC Region: Empirical Analysis and Policy Issues*, Prof. Sanjay Sehgal.

### Conferences Organized

XXIX Annual Convention on Thrusts and Challenges in the Indian Financial Sector – The Way Forward, on Oct. 15, 2016 at Hotel Shangri-La, New Delhi.

The Association of Finance and Control (AFCON), the student body of MBA (Financial Management) organized a One-Day Conference on ‘Development of Commodity Derivatives Market’ in association with Multi Commodity



Exchange (MCX). The Conference was inaugurated by Dr. Shashank Saksena, Advisor (CM), Department of Economic Affairs, Ministry of Finance. Mr. S.K. Mohanty, Executive Director, SEBI, delivered the Key Note Address.

### **Seminar / Conference Presentation**

Sanjay Sehgal and Florent Diesting presented Paper, 'Dynamic Currency Linkages and its Determinants: An Empirical Study for East Asian Economic Community Region' at Second Statistical Methods for Finance, Chennai Mathematical Institute; 8th Conference of Asia Economic Community Forum (AECF) 2016, Incheon, South Korea (2016)

Sanjay Sehgal and Florent Diesting presented paper, 'Examining Dynamic Currency Linkages amongst South Asian Economies: An Empirical Study' at Fourth Pan-IIM World Management Conference, IIM Ahmadabad, India, 2016

Sanjay Sehgal and Florent Diesting presented paper, 'Time Varying Integration amongst the South Asian Equity Markets: An Empirical Study' at Third International Conference on South Asian Economic Development, South Asian University, New Delhi, India, 2017

Sanjay Sehgal and Florent Diesting presented paper, 'Stock Market Integration Dynamics and its Determinants in the East Asian Economic Community Region' at IGIDR Ph.D. Colloquium 2016, Mumbai; 14<sup>th</sup> INFINITI Conference on International Finance, Dublin, Ireland

Amitabh Gupta and T. Nashier presented a paper, 'Family Ownership and Firm Performance: Evidence from India' at the World Finance Conference, New York, USA, July 29-31, 2016.

### **National / International MoUs**

The Department has proposed signing two MoUs with Bucharest University of Economic Studies, Romania and School of Business, Western Sydney University, Australia.

### **Students under Exchange Programme**

Dr. Mihaela MOCANU, Lecturer, Bucharest University of Economic Studies, Romania, Faculty of Accounting and Management Information Studies, Department of Accounting and Audit, developed a research stay at Department of Financial Studies between Jan. 5, 2017 and Feb. 15, 2017 and carried out research activities in the field of *Fraud and Risk Management: A Comparative Study of Reporting Practices of Banks in India and Romania*.

### **Placement Details**

Students Placed – 21 (84%)

Companies visiting campus for recruitment – 14

### **Extension and Outreach Activities**

The Department acted as knowledge partner for a Two-day National Seminar on the theme 'International Financial System: Challenges & Implications for India' with Shaheed Bhagat Singh College, University of Delhi, on March 01-02, 2017 at India International Centre, Lodhi Road, New Delhi.

### **M. Phil / Ph.D. Awarded**

Ph.D. – 5

### **Faculty Strength – 6**

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## FACULTY OF EDUCATION

### EDUCATION

#### Major Activities and Achievements

The Department of Education, popularly known as the Central Institute of Education offers a two-year B.Ed., two-year M.Ed., M.Phil. (full-time and part-time Pre-Doctoral Research programme), and Ph.D programmes. Faculty members of the Department were fully engaged throughout the year in developing and enhancing the syllabi of existing courses, enriching new programmes, resolving the challenges that arose in rolling out the new programmes. The syllabi and courses developed by the department have set a benchmark for many institutions across the country.

A large number of faculty members were involved in a variety of research projects, funded by IASE/MHRD and the Research Council, University of Delhi. They were also engaged in inter-institutional collaborations for curriculum development and preparing portfolios of readings. Foreign delegations from a few countries visited the department.

#### Publications

Jaimini, N. (2016). Science museums as pedagogical e-source: Task based facilitation. *International Journal of Humanities and Social Sciences*, 5(6), 15-22.

Kanvaria, V.K., & Bisht, S. (2016). Integrating ICT in education for sustainable development: A facilitator's comprehension. *International Journal of Education and Applied Sciences Research*, 3 (6), 51-58.

Kanvaria, V.K., & Geetanjali. (2016). Internet addiction: A study of impact upon college students. In M. Gera, M.P. Singh, H. Singh, & S.B. Dhiman (Eds.), *Media Technologies: A Critical Evaluation* (pp. 220-225). Patiala: Twenty First Century Publication.

Kanvaria, V.K., & Gupta, N. (2017). Exploring quality of web based learning: Perception of distant learners. *Distance and e-learning in Global Context* (pp. 316-324). Patiala: Twenty First Century Publication.

Kanvaria, V.K., & Kukreja, D. (2017). Web based teaching and learning in teacher education: A reality or still a vision. *Distance and e-learning in global context*, 233-239. Patiala: Twenty First Century Publication.

Kanvaria, V.K., & Nadar, P. (2016). Televised violence: Neutralizing the aggression in children. *Media Technologies: A Critical Evaluation*, 349-356. Patiala: Twenty First Century Publication.

Kanvaria, V.K., & Nagpal, B. (2017). Bulletin boards in school: A tool for facilitating learning. *Eduspectra*, 3, 6-13.

Kanvaria, V.K., & Yadav, P. (2017). ICT policies on education in developing countries of Asia: Focus and priority areas. *Jamia Journal of Education: An International Biannual Publication*, 3(2), 151-158.

Kanvaria, V.K. (2016). *Innovative Teaching-Learning Practices in School Mathematics*. New Delhi: VL Media Solution.

Kanvaria, V.K. (2016). Semantics and pragmatics in mathematical events: A linguistics view. In E. Railean, G. Walker, A. Elçi, & L. Jackson (Eds.), *Handbook of Research on Applied Learning Theory and Design in Modern Education* (pp. 772-785). USA: IGI Global.

Kanvaria, V.K. (2017). Socially disadvantaged groups, education and role of ICT. S.K. Kalhotra & R. Bakshi (Eds.) *Sociological Insight on Education*, 212-225. New Delhi: Akhand Publishing House.

Kumar, S. (2017). *Social Science and Pedagogy*, Delhi: Pearson.

Kumar, S. (2017). *Teaching of Hindi*, Delhi: Pearson.

Lakhyani, S. (2016). *Art educators as artists*, Delhi: M.F. Hussain Art Gallery.

Lakhyani, S. (2016). *Art Fiesta'16*, Delhi: M.F. Hussain Art Gallery.

Lakhyani, S. (2016). *Celebrating hope*, Delhi: Visual Arts Gallery, India Habitat Centre.

Lakhyani, S. (2016). *Return to roots-2*. Delhi: M.F. Hussain Art Gallery.

Lakhyani, S. (2017). *All India Exhibition of paintings and sculptures by eminent artists of India*. Delhi: Philipose Centre for Art and Culture.

- Lakhyani, S. (2017). *International Exhibition on art*. Russia: St. Petersburg Stieglitz Academy of Arts and Design.
- Ranjan, A. (Ed.). (2017). *Dialectics of education: Comparative and international perspectives*. Uttar Pradesh: Harsh Publications.
- Saxena, V. (2016). e-Learning environments: Strengthening inclusion in schools. *Jamia Journal of Education*, 3 (1), 38-43.
- Saxena, V. (2016). Inventive peer interactions: Key to successful inclusion in Indian schools. *Quest - The Journal of UGC-HRDC*, 10 (3), 264-269.
- Saxena, V. (2016). Invisible childhood: But why should I go to school. *Journal of Central University of Haryana*, 3, 18-20.
- Sharma, Y. (2016). *A Study of Conception of God in Primary School Children*. Delhi: Global Books Organisation.
- Sharma, Y. (2016). *Scientific Creativity in the Context of Learning*. Delhi: Global Books Organisation.

### **Research Projects**

- R & D Faculty Programme, DU, (2015-16), *Developing Conceptual Frameworks and Assessment Indicators for Extended Learning Experiences in Science Museums*, N. Jaimini, Principal Investigator, Rs. 1,20,000.
- R & D, DU, 1 year, (2016). *Developing resource material for facilitating teaching-learning processes in school mathematics*, V. K. Kanvaria, Principal Investigator, Rs. 1,00,000.
- IASE-MHRD, DU, 1 year, (2016-17). *Dialectics of education: Comparative and international perspectives*, A. Ranjan, Principal Investigator, Rs. 1,00,000.

### **Seminar Organised**

- National Seminar, Educating Teachers for Diversity. 22-24 Feb., 2017. D. Parimala
- National Seminar, Academic Writing, Plagiarism and Citations. Feb. 25, 2017. V. K. Kanvaria
- National Seminar, Exploring Psychosocial Perspectives in Education. Jan. 28, 2017. S. Kumar
- National Seminar, Teachers' Mental Health: Concerns, Casualties and Coping. Feb. 23, 2017. V. Preeti Mishra
- International Seminar, Dialectics of Education: Comparative and International Perspectives. IASE-MHRD, Feb. 16, 2017. A. Ranjan
- National Seminar, Inclusive Pedagogy Access & Beyond, 3-4 Feb., 2017. V. Saxena

### **Conferences Organised**

- National Conference, Research in Education: Methodological Issues and Emerging Trends, March 4, 2017, IASE-MHRD. N. Jaimini, Convenor
- National Conference, Language, Literature and Society: A Contemporary Educational Discourse, March 3, 2017, IASE-MHRD. N. Narang, Convenor
- National Conference on Teacher Education, Current Scenarios & Future Possibilities, 10-11 March, 2017, IASE-MHRD. P. M. Raju, R. Bala, & M. Rajendran, Joint Convenors

### **Seminar / Conference Presentation**

International & National:

- H. Gandhi, paper presented, *Innovative Practices to Enliven Mathematics Classrooms*. Emerging Trends in Science and Mathematics Education, CIE, University of Delhi, Delhi, 4-5 July, 2016.
- H. Gandhi, paper presented, *Mathematics Teachers on Incorporating History of Mathematics in the School Curriculum*. National Conference on Teacher Education: Current Scenarios and Future Possibilities, CIE, University of Delhi, Delhi, 10-11 March, 2017.
- H. Gandhi, paper presented, *Primary teachers' perception on role of mathematics textbooks in teaching, learning and assessing mathematics*. National Conference on Teacher Education: Current Scenarios and Future, CIE, University of Delhi, Delhi, 10-11 March, 2017.

- H. Gandhi, paper presented, *Problem-posing as a guiding framework for understanding the conceptual knowledge of in-service middle grade mathematics teachers about division of fractions*. National Conference on Teacher Education: Current Scenarios and Future, CIE, University of Delhi, Delhi, 10-11 March, 2017.
- H. Gandhi, paper presented, *Children's reasoning as they make sense of randomness from some symmetric objects*. Innovations in the Mathematics Education: Current Trends and Issues, Department of Elementary Education, Lady Shri Ram College for Women, University of Delhi, Delhi, March 3, 2017.
- T. Geetha, paper presented, *World Declarations and Domesticated National Policies in Environmental Education Curriculum in Indian Schools*. XVI World Congress of Comparative Education Societies, Beijing Normal University, Beijing, China, 22-26 July, 2016.
- Kanchan, paper presented, *Subjectivation of teachers: Constructing an ethical self*. National Conference on Teacher Education: Current Scenarios and Future, CIE, University of Delhi, Delhi, 10-11 March, 2017.
- V. K. Kanvaria, presentation, *Academic Writing: A Continuum from Note-making to Dissertation Development*. University level Research Colloquium/ Seminar, DU, Delhi, Sept. 7, 2016.
- V. K. Kanvaria presentation, *ICT tools and OER for teaching and learning*. State level Orientation Programme in ICT for lecturers, SCERT, Solan, H.P., Sept. 16, 2016.
- V. K. Kanvaria, presentation, *Role of Innovation, ICT, Digital Technology and Social Media in Higher Education: What, Why and How?* International Conference on Global Perspective in Higher Education with Innovation, ICT, Digital Technology and Social Media, ICSI, HSV, Chandigarh, Oct. 28, 2016.
- V. K. Kanvaria, presentation, *Teacher Education in India: Peeping into Misconceptions about Educational Technology among Pre-service Teachers and Pre-service Teacher Educators*. International Conference on Teacher Education: Challenges, Opportunities and Strategies, JMI, New Delhi, Dec. 7, 2016.
- V. K. Kanvaria, presentation, *ABC of Academic Writing: A Master Key for the Beginners*. National Seminar on Academic Writing, Plagiarism and Citation, DU, Delhi, Feb. 25, 2017.
- V. K. Kanvaria presentation, *Challenges of Assessment Practices in Pre-service Teacher Education in Digital Age: Does Digital Plagiarism-check help?* National Conference on Teacher Education: Current Scenarios and Future Possibilities, DU, Delhi, March 10, 2017.
- V. K. Kanvaria, presentation, *Exploring Quality of Web-based Learning: Perception of Distant Learners*. National Seminar on Distance and E-Learning in Global Context, USOL, PU, Chandigarh, Feb. 15, 2017.
- V. K. Kanvaria, presentation, *ICT: A Pedagogical Tool in Teaching-Learning Process*. National Seminar on Enriching Teaching, Learning and Evaluation Systems in the Age of Digitalization, GNDU, Amritsar, March 24, 2017.
- V. K. Kanvaria, presentation, *Plagiarism, Citation and Referencing: Conceptions and Misconceptions*. University level Extension Lecture, JMI, New Delhi, March 22, 2017.
- V. K. Kanvaria, presentation, *Plagiarism, Citation and Referencing: Issues and Challenges*. University level Extension Lecture, JMI, New Delhi, March 20, 2017.
- V. K. Kanvaria, presentation, *Teaching-Learning and Evaluation in a Language School Classroom with Digital Tools*. National Seminar on Enriching Teaching, Learning and Evaluation Systems in the Age of Digitalization, GNDU, Amritsar, March 24, 2017.
- V. K. Kanvaria, presentation, *Vidyalayi Shikshak Chayan: Maanakta ek dwandwa*. International Seminar on Dialectics of Education: Comparative and International Perspectives, DU, Delhi, Feb. 18, 2017.
- V. K. Kanvaria, presentation, *Web-based Teaching and Learning in Teacher Education: A Reality or Still a Vision*. National Seminar on Distance and E-Learning in Global Context, USOL, PU, Chandigarh, Feb. 15, 2017.
- V. K. Kanvaria, presentation, *Writing a Journal Article: Let us get published*. University level Research Colloquium / Seminar, DU, Delhi, Jan. 25, 2017.
- S. Kumar, *Project-based Learning*, Workshop on Development of Teaching Learning Material on Project based Learning, Jamia Millia Islamia, Delhi, 2-4 Feb., 2017.
- S. Kumar, presentation, *Teacher Education: Past, Present and Future Perspectives Involvement*. National Seminar on Teacher Education: Past, Present and Future Perspectives, PDM College of Education, Sarai Aurangabad, Bahadurgarh, Haryana, May 7, 2016.

- S. Kumar, invited talk, *Pedagogy in Political Science*, Workshop, KVS, Pitampura, Delhi, May 26, 2016.
- S. Kumar, paper presented, *Adaptation to Development and Back to Hegemony: Critical Review of the Discourse of Comparative Education*. International Seminar on Dialectics of Education: Comparative and International Perspective, CIE, University of Delhi, Delhi, Feb. 18, 2017.
- S. Kumar, paper presented, *Impact of Assessment of Accreditation by NAAC on TEIs of India*. National Seminar on Impact of Assessment of Accreditation by NAAC on TEIs of India, Lord Krishna College of Education, Adhoya, Barara, Ambala, March 31, 2017.
- S. Kumar, paper presented, *Psychosocial: An Emerging Paradigm in Education*. National Seminar on Exploring Psychosocial Perspectives in Education, Department of Education, DU, Delhi, Feb. 18, 2017.
- S. Lakhyani, invited for participating in the National Art Festival (Artist's Camp) Camp organized under the aegis of LKA -Ministry of Culture, 09-15 Jan., 2017, Govt of India, Kochi, Kerala.
- D. Parimala, paper presented, *Family assets: Social practices and social regulation in the West during the nineteenth and twentieth century*. International conference on Colonialism, Trois Rivières, Quebec, Canada, 16-17 June, 2016.
- P. M. Raju & R. Ray, paper presented, *Senior Teachers' Commitment to Teaching Profession in Comparison to Early Career teachers in Ethiopia: Significant Predictors*. XVI World Congress of Comparative Education Societies, Beijing Normal University, Beijing, China, 22-26 July, 2016.
- P. M. Raju & S. Singh, paper presented, *CCE or Board Exam for Class X? Senior Secondary School Teachers Voices*. National Conference on Teacher Education: Current Scenarios and Future, CIE, University of Delhi, Delhi, 10-11 March 2017.
- A. Ranjan, paper presented, *National and International Curricula in History: Contestations and Concerns in Indian Context*. XVI World Congress of Comparative Education Societies, Beijing Normal University, Beijing, China, 22-26 July, 2016.
- A. Ranjan, Paper presented, *State, History Curriculum and Implementation: School Experiences from India and the United Arab Emirates*. XVI World Congress of Comparative Education Societies, Beijing Normal University, Beijing, China, 22-26 July, 2016.
- V. Saxena, Paper presented, *Action Research*. National Conference on Research in Education: Methodological Issues and Emerging Trends, CIE, University of Delhi, Delhi, March 4, 2017.
- V. Saxena, Paper presented, *Enthusiast on Mission Nurturance: Different Thinking or Thinking Differently*. National Seminar on Inclusive Pedagogy: Access and Beyond CIE, University of Delhi, Delhi, 03-04 Feb., 2017.
- V. Saxena, Paper presented, *Exploring Gender, Media and Disability in Language & Literature*. National Conference on Language, Literature and Society: A Contemporary Educational Discourse, CIE, University of Delhi, Delhi, March 3, 2017.
- V. Saxena, Paper presented, *Pedagogical and Assessments Practices*. National Conference on Teacher Education: Current Scenarios and Future, CIE, University of Delhi, Delhi, 10-11 March, 2017.
- V. Saxena, Paper presented, *Recent Development and Changes in Psychosocial Perspective* National Seminar on Exploring Psychosocial Perspectives in Education, CIE, University of Delhi, Delhi, Jan. 28, 2017.
- Y. Sharma, Paper presented, *Pedagogical Challenges and Possibilities in High School Biology: Emerging from Voices of Teachers*. National Conference on Teacher Education: Issues and Challenges, CIE, University of Delhi, Delhi, Feb. 12, 2016.
- Y. Sharma, Paper presented, *A Reflective Account on Qualitative Research*. National Conference on Research in Education: Methodological Issues and Emerging Trends, CIE, University of Delhi, Delhi, March 4, 2017.
- Y. Sharma, Paper presented, *Creativity Amongst Children with Special Needs (CWSN): Tapping from School Teachers' Experiences*. National Conference on Teacher Education: Current Scenarios and Future, CIE, University of Delhi, Delhi, 10-11 March, 2017.

**Ph.D. / M.Phil. Awarded**

Ph.D. – 8  
M.Phil. – 10

## Faculty Strength – 26

### Other Significant Information

The website <http://www.cie.du.ac.in> continues to give out comprehensive information catering to Academics, students; especially to the hearing and visually impaired persons. The CIE Experimental Basic School continues to function efficiently; which works under the direct guidance and supervision of the departmental authority. The school has an optimal teacher-student ratio.

Enriching and developmental academic activities are a regular part of the departmental activities through various student societies, to name a few Civics Society, History Society, and Educational Technology Society (SOCRATES). The Enabling Unit and Anti-ragging-cum-DR committee has sensitized students to the mandates given to them.

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## FACULTY OF INTERDISCIPLINARY AND APPLIED SCIENCES

### BIOCHEMISTRY

#### Major Activities and Achievements

The Department successfully completed the first year of the UGC-SAP programme in the area of development of molecular strategies to combat various human diseases and organized a fruitful symposium as well. Prof. P.C. Ghosh developed a long circulatory liposomal formulation loaded with maduramicin for the effective treatment of malaria. Dr. Suman Kundu demonstrated that the novel brain hemoglobin, called neuroglobin, form membrane channel-inducing cytotoxic amyloid, with implications in neurodegenerative diseases. The therapeutic enzyme DBH was screened to identify potent inhibitors against the protein that were subsequently validated *in silico*, *in vitro* and *ex vivo*. A few of these inhibitors successfully regulated elevated blood pressure in L-NAME induced rat models with potential to combat hypertension and cardiac hypertrophy. Dr. Alo Nag's laboratory has elucidated a novel DNA damage sensing mechanism in human cells through hADA3 and PML interaction and also revealed some exciting cell cycle regulatory functions of Cytochrome c. Additionally, her lab is now involved in exploration of posttranslational modification machinery in malarial parasite, *Plasmodium falciparum*.

#### Honours / Distinctions

Prof. Suman Kundu won the Prof. Suresh C. Tyagi Oration Award for Young Faculty on February 11, 2017, instituted by the International Academy of Cardiovascular Sciences (India Section) at its 9th Annual Conference in Vallabhbhai Patel Chest Institute, Delhi.

Research scholar, Ms. Yama Atri Won the award for the best essay on Cancer Genomics: An Approach to Personalized Therapy, Year 2016, Indian Association for Cancer Research, New Delhi.

#### Publications

20 research papers were published during 2016-2017.

Chand V., Nandi D., Mangla A.G., Sharma P., Nag A. (2016). Tale of a multifaceted co-activator, hADA3: from embryogenesis to cancer and beyond. *Open Biology*, 6(9): pii: 160153. doi: 10.1098/rsob.160153

Gupta, E.D., Pachauri, M., Ghosh, P.C., & Rajam, M.V. (2016). Targeting polyamine biosynthetic pathway through RNAi causes the abrogation of MCF 7 breast cancer cell line. *Tumor Biology*, 37(1), 1159-1171.

- Jebamercy, G., Durai, S., Prithika, U., Marudhupandiyan, S., Dasauni, P., Kundu, S. and Balamurugan, K. (2016). Role of DAF-21 protein in *Caenorhabditis elegans* immunity against *Proteus mirabilis* infection. *Journal of Proteomics*, 145, 81-90.
- Jha, D., Raza, M., Adak, T., & Ghosh, P.C. (2016). Alteration in *Plasmodium falciparum* proteome upon treatment with various anti-malarial drugs. *Journal of Proteins & Proteomics*, 7(1), 1-17.
- Khare, G., Nangpal, P. and Tyagi, A.K. (2017). Differential roles of iron storage proteins in maintaining the iron homeostasis in *Mycobacterium tuberculosis*. *PLoS ONE* 12 (1), e0169545.
- Khare, G., Chauhan, P., Nangpal, P., Kar, R. and Tyagi, A.K. (2016). Tuberculosis: current situation, challenges and intervention strategies. A. Datta and V. P. Sharma (Eds.), *Recent advances in communicable and non-communicable diseases*. Capital Publishing Group (77-109). New Delhi, India.
- Lakshminarayana, T.S., Basavaraj, Madhusudan, Prakash, K.B. and Ghosh, P.C. (2016). Development and *in vitro* evaluation of oxytetracycline-loaded PMMA nanoparticles for oral delivery against Anaplasmosis. IET Nanobiotechnology (I.F:1.5). *IET Nanobiotechnol* 2017 Feb, 11(1),119-126. doi:10.1049/iet-nbt.2016.0061. PMID: 28476972.
- Mukhi, N., Dhindwal, S., Uppal, S., Kapoor, A., Arya, R., Kumar, P., Kaur, J. and Kundu, S. (2016). Structural and functional significance of the N- and C-terminal appendages in *Arabidopsis* truncated hemoglobin. *Biochemistry*, 55, 1724-1740.
- Mukhi, N., Kundu, S., and Kaur, J. (2017). NO dioxygenase- and peroxidase-like activity of *Arabidopsis* phytohemoglobin 3 and its role in *Sclerotinia sclerotiorum* defense. *Nitric Oxide*, 68, 150-162
- Punchaichira, T.J., Dey, S.K, Mukhopadhyay, A., Kundu, S., and Thelma, B. K. (2017). Characterization of SNPs in the dopamine- $\beta$ -hydroxylase gene providing new insights into its structure-function relationship. *Neurogenetics*, 18, 155-168.
- Rohilla, A., Khare, G<sup>1</sup> and Tyagi, A.K<sup>1</sup>. (2017). Virtual screening, pharmacophore development and structure based similarity search to identify inhibitors against IdeR, a transcription factor of *Mycobacterium tuberculosis*. *Scientific Reports*, 7, 4653. (<sup>1</sup>co-corresponding author)
- Rajendran, V., Hasan, G.M., Kumar, N., Dutt, S., Garg, N., Tiwari, P., & Ghosh, P.C. (2016). Therapeutic efficacy of chloroquine in long circulating liposome formulations against chloroquine-resistant *Plasmodium berghei* infection in mice. *Eur J Biomed and Phar Sci*, 3, 258-264.
- Rajendran, V., Rohra, S., Raza, M., Hasan, G. M., Dutt, S., & Ghosh, P.C. (2016). Stearylamine liposomal delivery of monensin in combination with free artemisinin eliminates blood stages of *Plasmodium falciparum* in culture and *P. berghei* infection in murine malaria. *Antimicrobial Agents and Chemotherapy*, 60(3), 1304-1318.
- Sharma, B., Jamdar, S.N., Ghosh, B., Yadav, P., Kumar, A., Kundu, S., Goyal, V.D. and Makde, R.D. (2017). Active site gate of M32 carboxypeptidases illuminated by crystal structure and molecular dynamics simulations. *Biochimica Biophysica Acta*. In Press.
- Singhal, P., Sharma, U., Hussain, S., Nag, A. and Bharadwaj, M. (2016). Identification of genetic variants in TNF receptor 2 which are associated with the development of cervical carcinoma. *Biomarkers* 21 (7): 665-72.
- Uppal, S., Singh A.K., Arya R., Tewari D., Jaiswal N., Kapoor A., Bera, A.K., Nag A., Kundu, S. (2016). Phe28B<sub>10</sub> Induces Channel-Forming Cytotoxic Amyloid Fibrillation in Human Neuroglobin, the Brain-Specific Hemoglobin. *Biochemistry*, 55(49), 6832-6847.
- Uppal, S., Kumar, A., Shandilya, M., Mukhi, N., Singh, A.K., Kateriya, S., Kaur, J. and Kundu, S. (2016). Penta- and hexa-coordinate ferric hemoglobins display distinct pH titration profiles measured by Soret peak shifts. *Analytical Biochemistry*, 510, 120-128.
- Uppal, S., Singh, A.K., Arya, R., Tewari, D., Jaiswal, N., Kapoor, A., Bera, A.K., Nag, A. and Kundu, S. (2016). Phe28B<sub>10</sub> Induces channel-forming cytotoxic amyloid fibrillation in human neuroglobin, the brain-specific hemoglobin. *Biochemistry*, 55, 6832-6847.
- Vandana, N, Haseen, J, Ghosh, P.C., Jain, S., Boetra, A. (2017). Liposomes: Drug delivery system or possible doping agent? *J. Drug Delivery and Therapeutics*, 7(1), 25-29.
- Vigneshkumar, B., Durai, S., Kundu, S. and Balamurugan, K. (2016). Proteome analysis reveals translational inhibition of *Caenorhabditis elegans* enhances susceptibility to *Pseudomonas aeruginosa* PAO1 pathogenesis. *Journal of Proteomics*, 145, 141-152.

## Research Projects

There are five on-going projects in the department, which received a total grant of Rs.3.042 crore during 2016-17. Faculty members of the department received a total of Rs. 36,25,000/- from DST-Purse grant, and Rs.17,00,000/- as UGC-SAP II department project during 2016-17.

Professor Debi P. Sarkar, JC Bose Project, DST, April 2016 - March 2021, Rs.1,52,20,000.

DBT, *Understanding the role of Rv1955-Rv1956 Toxin-antitoxin (TA) locus of Mycobacterium tuberculosis (Mtb) in pathogen biology*, July 2016 - July 2019, Dr. Amita Gupta, Rs.52,80,000.

DBT, *Understanding the VirS mediated acid induced responses of Mycobacterium tuberculosis in maintaining the pH homeostasis in vitro and in host*, July 2014 - July 2017, Dr. Garima Khare, Rs. 43,22,000.

## Conference Organized

Symposium, UGC through SAP programme, *Advances in Disease Biology and Disease Management*, at Department of Biochemistry, University of Delhi South Campus, New Delhi, March 18, 2017.

## Seminar / Conference Presentation

Mohsin Raza and Prahlad C. Ghosh, presented Poster, *Liposomal Mefloquine a better strategy for anti-malarial therapy*, at EMBL course Extracellular Vesicles: From Biology to Biomedical Applications, EMBL, Heidelberg, Germany, 27-31 March, 2017.

Vinoth Rajendran, Chanchal Singh and Prahlad C. Ghosh presented *Therapeutic Efficacy of Doxycycline loaded liposomes against Plasmodium falciparum in Culture and P. berghei infection in mice Model*, 15th annual scientific festival BIOSPARKS, Jawaharlal Nehru University, New Delhi, 30-31 March, 2017. The first author was selected for the Best Oral Presentation Award.

Charu, Mohsin Raza, Sanjay Kumar Dey, Richa Arya, Suman Kundu and Prahlad C. Ghosh, Presented Poster, *Screening of small molecule libraries to identify potential inhibitors against Plasmodium falciparum Dihydrofolate reductase and evaluation of their anti-malarial therapeutic efficacy in murine model*, National Science Day Symposium 2017, South Campus, University of Delhi, 27-28 Feb., 2017.

Chanchal Singh, Vinoth Rajendran and Prahlad C. Ghosh, Presented Poster, *Therapeutic efficacy of Doxycycline loaded Liposomes against Plasmodium falciparum in culture and P. berghei infection in Mice Model*, National Science Day Symposium 2017, South Campus, University of Delhi, 27-28 Feb., 2017.

Suman Kundu, invited talk, *Towards new drugs for high blood pressure and cardiac hypertrophy: A heartening initiative*, BIOSPARKS 2017, School of Life Sciences, Jawaharlal Nehru University, New Delhi, March 31, 2017.

Suman Kundu, invited talk, *Engineering unprecedented heme stability in hemoglobins to facilitate use of artificial blood substitutes*, National Symposium cum Bioinformatics Workshop on Current Trends in Proteomics and Bioinformatics, Interdisciplinary Biotechnology Unit, Aligarh Muslim University, Aligarh, March 16, 2017.

Suman Kundu, keynote lecture, *From a Chemical Reaction to Media Reaction: A Protein Driven Journey*, Current Trends in Protein Chemistry, Amity University, Gurgaon, March 2, 2017.

Suman Kundu, invited talk, *Towards New Drugs for High Blood Pressure and Cardiac Hypertrophy: A Heartening Initiative*, National Science Day Symposium, S.P. Jain Centre Auditorium, University of Delhi, South Campus, Feb. 27, 2017.

Suman Kundu, Oration, *Structure-based Drug Discovery to Combat Hypertension by Modulating an Unconventional Enzyme Target: From Defined Small Molecules to Plant Extracts*, International Conference on Recent Advances in Cardiovascular Research: Impact on Health and Disease, 9th Annual Conference of International Academy of Cardiovascular Sciences (India Section), Vallabhshai Patel Chest Institute, Delhi, Feb. 11, 2017.

Suman Kundu, invited talk, *Inhibiting Dopamine beta hydroxylase to treat hypertension: Promising tale of structure based drug discovery*, Indo-US Conference on Advances in Enzymology: Implications in Health, Disease and Therapeutics, ACTREC, Mumbai, Jan. 18, 2017.

Suman Kundu, invited talk, *Perspectives in Genomics and Proteomics*, National symposium, The Department & National Centre for Human Genome Studies and Research, Panjab University, Chandigarh, Oct. 21, 2016,



Suman Kundu, resource person, *Hemoglobin: Novel Features and Applications*, Model organisms and topics in Biology, 2<sup>nd</sup> Refresher Course in Life Sciences and Biotechnology, Academic Staff College, JNU, New Delhi, Oct. 17, 2016.

Suman Kundu, invited talk, *The interaction of acyl carrier protein and phosphopantetheinyl transferase in Leishmania is unique and amenable to small molecule intervention for anti-leishmanial activity*, National Seminar on Microbes for Human Health and Environment, Central University of Haryana, Mahendergarh, Haryana, Sept. 9, 2016.

Suman Kundu, invited talk, *Identification of Single Mutations in Hemoglobin Variants Using Modified Sample Preparation and Digestion Method and Separation Power of LC Coupled with MALDI MS/MS*, Next-Gen Sequencing and Mass Spectrometry, Select Bio, Radisson Blu Plaza, New Delhi, Aug. 20, 2016.

Alo Nag, invited lecture, *Revealing the Oncogenic Tricks of HPV – Way to New Therapies*, Workshop, Molecular Techniques in Cancer Research organized by National Institute of Cancer Prevention and Research, Noida, UP, April 20, 2017.

Alo Nag, invited talk, *Dream to Achieve, Victory over Cancer*, BIOSPARK Symposium of Department of Biochemistry, Deshbandhu College, March 27, 2017.

Alo Nag, invited lecture, *Cell Cycle and Cancer*, Refresher Course in Life Sciences and Biotechnology, JNU, New Delhi, Oct. 18, 2016.

Alo Nag, invited lecture, *Human Papillomavirus, an Oncogenic SUMO Wrestler*, International Conference - 43<sup>rd</sup> ISOBM Annual Congress, Chicago, USA, 1-6 Sept., 2016.

Alo Nag, invited lecture, *Insights into Novel Oncogenic Mechanisms of Human Papillomavirus*, International Symposium, CANCER IN ASIA: BRIDGING THE GAPS, organized by ICAR-ACOS, New Delhi, 8-10 April, 2016.

Alo Nag's group (Yama Atri, Deeptashree Nandi, Pradeep Singh Cheema), Presented Poster, *Maneuvering Cellular Cul4A and FoxM1 in Virus coerced Carcinogenesis*, International Symposium on HIV and Hepatitis organized by Faculty of Life Sciences & Biotechnology, South Asian University, Sept. 01, 2016.

### **Inter-Institutional Collaborations**

#### International:

Dr. Suman Kundu collaborated with Prof. John Olson, Rice University, USA, for research on Blood Substitutes. MoU has been signed earlier.

#### National:

##### Dr. Suman Kundu:

Collaborated with Prof. S.K. Maulik, AIIMS, New Delhi for Cardiovascular Research (Animal Models).

Collaborated with Prof. C.C. Kartha, Rajiv Gandhi Centre for Biotechnology, Trivandrum for Cardiovascular Research (Animal Models).

Collaborated with Dr. Ravi Makde and Dr. V. Ganesan, Raja Ramanna Centre for Advanced Technology, Indore for Protein Structural Studies (X-ray diffraction).

##### Prof. Alo Nag:

Collaborative project with Dr. Mausumi Bharadwaj, National Institute of Cancer Prevention and Research, Noida, UP on Host and Viral gene interaction and their regulation during development of Cervical cancer and identification of pre-diagnostic markers of Cervical cancer (2016-2019).

Collaborative project with Dr. Kulbhushan Sharma, Institute of Nuclear Medicine and Allied Sciences, Delhi on Radioprotective role of immunomodulatory cytokines (2015-2018).

Collaborative project with Dr. Chandi Mandal, Central University of Rajasthan, Rajasthan on Malignant and Stemness properties of Breast cancer (2016-2019).

Collaborative project with Dr. Ellora Sen, National Brain Research Centre on Role of FoxM1 in Glioblastoma (GBM) tumorigenesis (2017-2018).

Collaborative project with Dr. Ravindra Varma Polisetty, Sri Venkateshwara College, New Delhi on Deciphering the tumor suppressor function of miRNA in glioblastoma (2016-2019).

#### **Placement Details**

12 M.Sc. students and 8 Ph.D. students (100%) opted for higher education (Ph.D., B.Ed., Post-doctorate etc.)

#### **M.Phil. / Ph.D. Awarded**

Ph.D. – 05  
M.Phil. – 01

#### **Faculty Strength**

Permanent – 07

#### **Other Significant Information**

The Department celebrated the 70<sup>th</sup> Independence Day, 'Azadi 70 Saal – Bharat Bemisal' on Aug. 23, 2016, and organized World Yoga Day on June 21, 2017.

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## **BIOPHYSICS**

#### **Major Activities and Achievements**

Prof. Subhendu Ghosh is working on Membrane Biophysics, in particular, ion channels and neuro-biophysics. The experiments involve electro-physiological methods, e.g. single-channel recording, patch-clamp. A special emphasis is given on learning, memory (cognition) and mathematical and computational neuroscience. Dr. Manisha Goel (Assistant Professor) is working on crystallographic structure determination and Bioinformatics. Her laboratory has recently solved several structures of bacterial Gamma-glutamyl transpeptidase in complex with various known inhibitors. Dr. Manish Kumar's lab is interested in understanding the principles governing protein sequence-structure-function correlation, genome annotation and evolution of antibiotic resistance in microbes.

#### **Honours/ Distinctions**

Dr. Manish Kumar and Ms. Abhishikha Srivastava received the Discovery Award from the Royal Society of London, for the development of rapid diagnostics of antimicrobial resistant genes in POC format (Nov. 2016).

#### **Publications**

Ten research papers were published during 2016-2017.

Kumari, S., Pal, R.K., Gupta, R., Goel, M. (2017). High resolution X-ray diffraction dataset for bacillus licheniformis gamma glutamyl transpeptidase-acivicin complex: SUMO-Tag renders high expression and solubility. *Protein J*, Feb, 36(1), 7-16.

Kumar, S., Jain, K.K., Rani, S., Bhardwaj, K.N., Goel, M., Kuhad, R.C. (2016) In-vitro refolding and characterization of recombinant laccase (CotA) from bacillus pumilus MK001 and its potential for phenolics degradation. *Mol Biotechnol*, Dec, 58(12), 789-800.

Gupta, R., & Ghosh, S. (2017). Phosphorylation of purified mitochondrial voltage-dependent anion channel by c-Jun N-terminal Kinase-3 modifies channel Voltage-Dependence. *Biochimie Open*, 4, 78-87.

Gupta, R., & Ghosh, S. (2017). Putative roles of mitochondrial voltage-dependent anion channel, Bcl-2 family proteins & c-Jun N-terminal Kinases in ischemic stroke associated apoptosis. *Biochimie Open*, 4, 47-55.

Gupta, R., & Ghosh, S. (2017). JNK3 phosphorylates Bax protein and induces ability to form pore on bilayer lipid membrane. *Biochimie Open*, 4, 41-46.

Singhal, N., Kumar, M., & Viridi, J. S. (2016). Resistance to amoxicillin-clavulanate and its relation to virulence-related factors in *Yersinia enterocolitica* biovar 1A. *Indian Journal of Medical Microbiology*, 34(1), 8.

Shrivastava, R., Malik, C. & Ghosh, S. (2016) Open channel current noise analysis of S6 peptides from KvAP channel on bilayer lipid membrane shows bimodal power law scaling. *Physica A*, 451, 533-540.

Singhal, N., Kumar, M. and Viridi, J.S. (2016) MALDI-TOP MS in clinical parasitology: applications, constraints and prospects. *Parasitology*, 143(12), 1491-500.

Kumar, R., Kumari, B. and Kumar, M. (2016). PredHSP: Sequence Based Proteome-Wide Heat Shock Protein Prediction and Classification Tool to Unlock the Stress Biology. *PLoS One*, 11(5), e0155872.

Singhal, N., Kumar, M., Sharma, P. and Bisht, D. (2016). Comparative protein profiling of intraphagosomal expressed proteins of *Mycobacterium bovis* BCG. *Protein & Peptide Letters*, 23(1), 51-4.

### Research Projects

DBT-RGYI (Rapid Grant for Young Investigator), 2012-16 (3+1yr) *Crystallographic structure determination of CRISPR-CAS proteins*, Dr. Manisha Goel, Rs. 23,00,000.

### Seminars Organized

Dr. Pankaj Kumar, *Drug Resistance Tuberculosis and Development of New Inhibitors*, Department of Medicine, John Hopkins School of Medicine, Baltimore, USA. March 20, 2017.

Dr. Aniruddha Ganguly, Scientist, *A Journey from Cancer Biology Research Findings to Clinical Applications*, NIH, USA, Oct. 14, 2016.

Prof. Mahendra K. Verma, *Dynamical perspectives of phase transitions and its applications*, Department of Physics, Indian Institute of Technology, Kanpur, May 2, 2016.

### Seminar / Conference Presentation

Manisha Goel, Invited Talk, *Chaperone repertoires and networks in archaeal genomes*, Annual Symposium of Indian Biophysical Society (IBS-2017), IISER, Mohali, March 25, 2017.

Subhendu Ghosh, *Collective Behavior of Ion Channels: from Physics to Biology*, 2nd AIIMS- NBRC-DBT Epilepsy Surgery and Epilepsy Neurobiology Workshop, Sept. 1, 2016.

Subhendu Ghosh, *Scope of Biophysics*, Jamia Milia Islamia, Aug. 29, 2016.

Subhendu Ghosh, Chaired a session, *Structural Basis of Biological Signaling* 3rd International Meet on Advanced Studies in Cell Signaling, Indian Institute of Chemical Biology, Kolkata, Dec. 19, 2016.

### Other Inter-Institutional Collaboration

Prof. Subhendu Ghosh is collaborating with IIT Bombay (Dept. of Bioscience & Bioengineering), IIT Madras (Dept. of Biotechnology), and IIT Delhi (School of Biological Sciences).

### M. Phil./ Ph. D. Awarded

Ph.D. – 2

### Faculty Strength

Permanent – 3

### Other Significant Information

Rajan Shrivastava, Ph.D. student of Prof. Subhendu Ghosh, won the 2<sup>nd</sup> prize (oral presentation) during the National Science Day, 27-28 Feb, 2017.

Prof. Subhendu Ghosh visited Technical University of Dresden, Germany as a Visiting Research Scientist, Oct. 26 to Nov. 07, 2016.

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## ELECTRONIC SCIENCE

### Major Activities and Achievements

The faculty members are actively engaged in research as well as supervision of research leading to the Ph.D degree in the field of optical electronics, semiconductors, microwaves and microelectronics. The Department has national and international collaborations and several research projects funded by the UGC, CSIR, DST etc. Over the last year, in addition to continuation of theoretical research in fiber and integrated optical devices, Microelectronics, Material Science and Microwaves, experimental facilities in the area of optical fiber measurements were also created. An Anechoic chamber facility has been added and various state-of-the-art TCAD softwares were procured. The Department and IEEE EDS, Delhi Chapter jointly organized the Second National Conference on Recent Development in Electronics (NCRDE-2017) at South Campus, University of Delhi, during 18-20 January, 2017. Department also organized Annual Educational Tour to ARIES Observatory, Nainital in March 2017. Mr. Nikhil was selected in the *Doctoral exchange program through Erasmus Mundus INTACT project* for 6 months research at City University, London. (during December 2016 - June 2017).

### Publications

Sharma, V. K., Madaan, D., Kapoor, A. (2017). Extremely short length and high extinction ratio plasmonic TE mode pass polarizer. *IEEE Photonics Technology Letters*, 29 (7) 559-562.

Sharma, S., Chaudhary, S., Kapoor, A. (2017). Structural and optical properties of thermally treated CDO thin films deposited on ITO coated glass substrates for photovoltaic applications. *Journal of Sol-Gel Science and Technology*, 1-7

Shokeen, P., Jain, V., Gupta, V., Kapoor, A. (2017). Multilayer silver nanoparticles embedded in graded-index dielectric layers. *Optical Materials*, 66, 29-34.

Shokeen, P., Jain, A., Kapoor, A. (2017). Plasmonic ZnO/p-silicon heterojunction solar cell. *Optical Materials*, 67, 32-37.

Saini, B., Adhikar, S., Pal, S., Kapoor, A. (2017). Polarization compensation at low p-GaN doping density in InGaN/GaN pin solar cells: Effect of InGaN interlayers. *Superlattices and Microstructures* 107, 127-135.

Saini, R., Kumar, M., Kumar, A., Bhatt, G., Khanna, M. K., Kapoor, A. (2017). Analysis of Silicon Clad Optical Waveguide for High Extinction Ratio TE/TM Pass polarizers using resonant coupling between guided modes and lossy modes. *ISOR Journal of Electrical and Electronics Engineering*, 59-64.

Kumar, A., Rakesh, Kumar, M., Bhatt, G., M. K., Kapoor, A. (2017). Spectral interrogation of ZnO thin film for lossy mode resonance sensors. *Advance Science Letters*.

Chetna, Kumar, S., Garg, A., Chowdhuri, A., Dhingra, V., Chaudhary, S., Kapoor, A. (2017). Zinc oxide doped graphene oxide films for gas sensing applications. *AIP Conference Proceedings*, 1728 (1), 020579.

Sharma, S., Kashyap, J., Gupta, S., Natasha, Kapoor, A. (2017). Effect of aluminum and yttrium doping on zinc sulphide nanoparticles. *AIP Conference Proceedings*, 1728 (1), 020697.

Madaan, D., Kaur, D., Sharma, V. K., Kapoor, A. (2017). TE and TM pass integrated optic polarizers. *AIP Conference Proceedings*, 1728 (1), 020209.

Madaan, D., Kaur, D., Sharma, V. K., Kapoor, A. (2017). High angular sensitivity thin film tin oxide sensor. *AIP Conference Proceedings*, 1728 (1), 020210.

Sharma, V.K., Madaan, D., Kapoor, A. (2016). high extinction ratio and short length surface plasmon polariton polarizer. *IEEE Photonics Technology Letters*, 28 (14), 1541-1544.

- Kumar, S., Singh, F., Kapoor, A. (2016). Study of valence band tailing effect induced by electronic excitations in nanocrystalline cadmium oxide thin films. *Optik-International Journal for Light and Electron Optics*, 127 (4), 2055-2058.
- Shokeen, P., Jain, A., Kapoor, A., Gupta, V. (2016). Thickness and annealing effects on the particle size of PLD grown Ag nanofilms. *Plasmonics*, 11 (2), 669-675.
- Sharma, S., Singh, I., Kapoor, A. (2016). Effect of yttrium doping on structural and optical properties of zinc sulfide nanoparticles. *Materials Science in Semiconductor Processing*, 56, 174-178.
- Shokeen, P., Jain, A., Kapoor, A. (2016). Silicon nanospheres for directional scattering in thin-film solar cells. *Journal of Nanophotonics*, 10 (3), 036013-036013.
- Shokeen, P., Jain, A., Kapoor, A. (2016). Thermal stability of PLD grown silver nanoparticles. *AIP Conference Proceedings*, 1728 (1), 020161.
- Sharma, S., Kapoor, A. (2016). Synthesis and study of ZnS nanoparticles for photovoltaic application. *Advanced Science Letters*, 22 (4), 1059-1063.
- Kohli, N., Srivastava, S., & Sharma, E. K. (2016). Scalar coupled mode theory and variational analysis for planar SOI waveguide arrays: a detailed comparison. *Optical and Quantum Electronics*, 48:265. doi: 10.1007/s11082-016-0540-z
- Sital, S., & Sharma, E. K., (2016). Design methodology for metal-clad polarizer in SOI waveguides. *Optical and Quantum Electronics*, 48:369. doi 10.1007/s11082-016-0636-5
- Baliyan, A., Sital, S., Tiwari, U., Gupta, R., & Sharma, E. K. (2016). Long period fiber grating based sensor for the detection of triacylglycerides. *Biosensor and Bioelectronics*, 79, 693-700, <https://doi.org/10.1016/j.bios.2015.12.089>
- Kumar, M., Haldar, S., Gupta, M. and Gupta, R.S. (2016). DS-Schottky barrier cylindrical GAA MOSFET: nanosensor for biochips. *Nanomaterials and Energy*, 5,(1), 13-17.
- Verma, J.H.K., Haldar, S., Gupta, R. S., and Gupta, M. (2016). Modeling and simulation of cylindrical surrounding double gate (CSDG) MOSFET with vacuum gate dielectric for hot carrier reliability and RF Performance. *Journal of Computational Electronics*, 15, (2), 657-665.
- Abhishek, Narang R, Saxena, M. and Gupta, M. (2016). Impact of interfacial fixed charges on the electrical characteristics of pocket-doped double gate tunnel FET. *IEEE Transactions of Device and Material Reliability*, 16(2), 117-122.
- Yogesh., Haldar, S., Gupta, R. S. & Gupta, M. (2016). Gate material engineered junctionless nanowire transistor (jnt) with vacuum gate dielectric for enhanced hot carrier reliability. *IEEE Trans. On Device and Material Reliability*, June 2016.
- Kumar, M., Haldar, S, Gupta, M. and Gupta, R.S. (2016). Analytical model of threshold voltage degradation due to localized charges in gate material engineered schottky barrier cylindrical GAA MOSFET, *Semiconductor Science and Technology*, 13, 105013-105023.
- Ajay, Narang, R., Saxena, M., & Gupta, M. (2016). pH sensing characteristics of silicon on insulator (SOI) junctionless (JL) ISFET. *Advanced Science, Engineering and Medicine*, 8, 12, 960-967.
- Ajay, Narang, R., Saxena, M., Gupta, M. (2016). Novel junctionless electrolyte insulator - semiconductor field - effect transistor (JL EISFET) and its application as pH/biosensor, *Microsystem and Technology*, doi:10.1007/s00542-016-3013-1
- Trivedi, N., Kumar, M., Haldar, S., Deswal, S. S., Gupta, M. & Gupta, R. S. (2016). Analytical modeling simulation and characterization of short channel junctionless accumulation mode surrounding gate (jlamsg) mosfet for improved analog/RF performance, *Superlattices and Microelectronics*, 100, 1263-1275.
- Kumari, V., Sharmetha, K., Saxena, M., Gupta, M. (2017). Underlap FinFET on insulator: quasi analytical model, *Solid State Electronics*, 129, 138-149.
- Mehta, H., & Kaur, H. (2017). High temperature performance of Si:HfO<sub>2</sub> based long channel Double Gate Ferroelectric Junctionless Transistors. *Superlattices and Microstructures*, 103, 78-84, doi:10.1016/j.spmi.2017.01.009
- Mehta, H., & Kaur, H. (2016). Modeling and simulation study of novel Double Gate Ferroelectric Junctionless (DGFJL) transistor. *Superlattices and Microstructures*, 97, 536-547, doi:10.1016/j.spmi.2016.07.024

Singh, J., Prasad, N., Peta, K. R., & Bhatnagar, P. K. (2017). The role of multilayer graphene in improved electrical and optical characteristics of P3HT based photovoltaic device. *Materials Research Express* (accepted for publication).

Nirwal, V. S., Peta, K. R., Reddy, V. R., & Kim, M. D. (2017). Influence of rapid thermal annealing on electrical and structural properties of Pd/Au schottky contact to ga-polarity GaN grown on si (111) substrate. *Journal of Alloys and Compounds*, 705, 782-787.

Gautam, K., Singh, I., Bhatnagar, P. K., Peta, K. R. (2016). Role of cl doping on the growth and relaxation dynamics of ZnOnanorods synthesized by hydrothermal method. *Chemical Physics Letters*, 662, 196-200.

Nirwal, V. S., Peta, K. R. (2016). Behavior of temperature dependent electrical properties of Pd/Au schottky contact to GaN grown on si substrate by MBE. *Materials Research Express*, 3(12).

Gautam, K., Singh, I., Bhatnagar, P. K., Peta, K. R. (2016). The effect of growth temperature of seed layer on the structural and optical properties of ZnOnanorods. *Superlattices and Microstructures*, 93, 101-108.

Tiwari, P., Patel, K., Krishnia, L., Kumari, R., Tyagi, P.K. (2017). Potential application of multilayer n-type tungsten diselenide (WSe<sub>2</sub>) sheet as transparent conducting electrode in silicon heterojunction solar cell. *Computational Materials Science*, 136, 102-108.

Patel, K., Tyagi, P.K. (2017). Single layer graphene possessing anomalous dispersion with exotic microwave transmission and dielectric properties. *Journal of Alloys and Compounds*, 706, 250-259.

Patel, K., Tyagi, P.K. (2017). P-type multilayer graphene as a highly efficient transparent conducting electrode in silicon heterojunction solar cells. *Carbon*, 116, 744-752.

Chaudhary, R., Patel, K., Sinha, R.K., Kumar, S., Tyagi, P.K. (2016). Potential application of mono/bi-layer molybdenum disulfide (MoS<sub>2</sub>) sheet as an efficient transparent conducting electrode in silicon heterojunction solar cells. *Journal of Applied Physics*, 120 (1), 013104.

Patel, K., Neha, N., Tyagi, P.K. (2016). Effective relative permittivity and characteristic impedance of graphene loaded microstrip line by scalar S-parameters, *AIP Conference Proceedings*, 1728, 020617.

Akash, Birwal, A. (2017). IoT-based temperature and humidity monitoring system for agriculture. *International Journal of Innovative Research in Science Engineering and Technology*, 6(7) 12756-12761.

### Research Projects

UGC, 2015-till date, *Physics Based Modeling and Simulation of Channel Material Engineered Ring FET for Sensing Application*, Prof. Mridula Gupta (PI), Rs.17,23,000.

### Conference Presentation

International & National:

Baliyan, A., & Sharma, E. K., *Experimental Study of Concatenated Long Period Fiber Grating Separated by a Single Mode Fiber as Refractive Index Sensor*, IEEE 6th International Conference on Photonics, ICP 2016, Sarawak, Malaysia, 14-16 March, 2016.

Pratap, Y., Kumar, M., Haldar, S., Gupta, M., Gupta, R. S., *Sensitivity Investigation of Gate-All-Around Junctionless Transistor for Hydrogen Gas Detection*, 7th International Conference, INEC, Chengdu, China, 9-11 May, 2016.

Kumar, Pratap, Y., Haldar, S., Gupta, M., Gupta, R. S., *DMG Insulated Shallow Extension Cylindrical GAA Schottky Barrier MOSFET for Removal of Ambipolarity: A Novel Approach*. 7th International Conference, INEC, Chengdu, China, 9-11 May, 2016.

Ajay, Narang, R., Saxena, M., & Gupta, M., *Analysis of GaSb-InAs Gate All Around (GAA) p-i-n Tunnel FET (TFET) for Application as a Bio-Sensor*. 7th International Conference, INEC, Chengdu, China, 9-11 May, 2016.

Dubey, A., Ajay, Narang, R., Saxena, M., & Gupta, M., *Analytical Model of Junctionless Double Gate Radiation sensitive FET (RADFET) Dosimeter*, 7th International Conference, INEC, Chengdu, China, 9-11 May, 2016.

Trivedi, N., Kumar, M., Haldar, S., Deswal, S.S., Gupta, M. & Gupta, R.S., *Enhanced Analog/RF performance of Underlap Cylindrical Gate All Around MOSFET with high-k Dielectric Material Spacer*, ICANN-2016, Jamiya Miliya Islamiya, 4-5 Nov., 2016.

Kumar, M., Haldar, S., Gupta, M. & Gupta, R.S., *Gaussian Graded Channel (GGC) Schottky Barrier Surrounding Gate MOSFET for Analog/RF Performance Enhancement*, International Conference on Advance in Nanomaterials and Nanotechnology, ICANN, Delhi, India, 4-5 Nov., 2016.

Kumari, V., Saxena, M. & Gupta, M., *Performance investigation of field plate algan/gan hemt for high voltage applications: modeling and simulation*, ICANN-2016, Jamiya Miliya Islamiya, 4-5 Nov., 2016.

Trivedi, N., Kumar, M., Haldar, S., Deswal, S.S., Gupta, M. & Gupta, R.S., *Investigation of Analog/RF performance of High-k Spacer Junctionless Accumulation-Mode Cylindrical Gate All Around (JLAM-CGAA) MOSFET*, UPCON-2016, IIT, BHU, Varanasi, 9-11 Dec., 2016.

Upasana, Kumar, A. & Gupta, M. *Tunnel FET Design with Undoped Channel and Undoped Drain Regions: No Ambipolar Conduction in Accumulation Regime*, 3rd IEEE Uttar Pradesh Section International Conference (UPCON-2016), IIT, BHU, Varanasi, India, 09-11 Dec., 2016.

Upasana, Narang, R., Saxena, M. & Gupta, M., *Impact of dielectric material and temperature variations on the performance of TFET with dielectric pocket*, 13th Annual IEEE India Conference (INDICON-2016), J N Tata Auditorium, IISc Bengaluru, India, 16-18 Dec., 2016.

Kumari, V., Saxena, M. & Gupta, M., *Performance Boosting Using Dielectric Pocket in Tri-Gate InGaAs-On-Nothing FET*, International Conference on Emerging Electronics, IIT Bombay, 28-30 Dec., 2016.

Ajay, Narang, R., Saxena, M. & Gupta, M. *Impact of Close Cavity and Open Cavity on Double Gate MOSFET for Bio-Sensing Application*, International Conference on Emerging Electronics, IIT Bombay, India, 28-30 Dec., 2016.

Trivedi, N., Kumar, M., Haldar, S., Deswal, S.S., Gupta, M. & Gupta, R.S. *Comparative Analysis of DMG Accumulation Mode Junctionless MOSFET with SMG Junctionless Accumulation Mode and Junctionless CSG MOSFET*, 2nd National Conference on Recent Developments in Electronics, NCRDE-2017, University of Delhi, South Campus, New Delhi, 17-18 Feb., 2017.

Upasana, Narang R, Saxena M and Gupta M (2017). Study of Gate and Drain Controllability over Double Gate (DG)Tunnel FETs through Modeling and Simulation, 2nd National Conference on Recent Developments in Electronics (NCRDE-2017), University of Delhi South Campus, New Delhi, 17-18 Feb., 2017.

Kumar, S., Kumari, V., Singh, S., Saxena, M. & Gupta, M. *Impact of High-K Gate Dielectric on Double Gate RingFET (HK-DG- RingFET) Architecture*, 2nd National Conference on Recent Developments in Electronics, NCRDE-2017, University of Delhi, South Campus, New Delhi, 17-18 Feb., 2017.

Verma, J.H.K., Haldar, S., Gupta, R.S. & Gupta, M. *Analog/RF Performance of Cylindrical Surrounding Double Gate (CSDG) MOSFET*, 2nd National Conference on Recent Developments in Electronics (NCRDE-2017), University of Delhi South Campus, New Delhi, 17-18 Feb., 2017.

Ajay, Narang, R., Saxena, M. & Gupta, M., *Two-Dimensional Surface Potential Model for Gate All Around Junctionless Tunnel Field-Effect Transistor*, 2nd National Conference on Recent Developments in Electronics, NCRDE-2017, University of Delhi, South Campus, New Delhi, 17-18 Feb., 2017.

Kumar, M., Haldar, S., Gupta, M. & Gupta, R.S., *Comparative Linearity Assessment of Gaussian Graded Channel (GGC) Graded Channel and Conventional Schottky Barrier Surrounding Gate MOSFETs*, 2nd National Conference on Recent Developments in Electronics, NCRDE-2017, University of Delhi, South Campus, New Delhi, 17-18 Feb., 2017.

Bansal, M., & Kaur, H., *Analytical Threshold Voltage Model to study the impact of Graded-Channel (GC) design and gate dielectric engineering on device performance of Tri-Gate MOSFET*. IEEE International Conference on Recent Innovations in Engineering and Technology (ICRIEAT), Hotel Katriya, Hyderabad, India, 22-23 Dec., 2016.

Mehta, H., & Kaur, H. *High Temperature Performance Investigation of Elliptical Gate Ferroelectric Junctionless Transistor*. 3rd International Conference on Emerging Electronics (ICEE), IIT Bombay, Mumbai, India, 27-30 December, 2016.

Mehta, H., & Kaur, H. *Analytical model to study temperature dependent Negative Capacitance effect on long channel Double Gate Ferroelectric Junctionless Transistor*. Asia-Pacific Microwave Conference (APMC). doi:10.1109/apmc.2016.7931309, Hotel Pullman, Aerocity, New Delhi, India, 5-9 Dec., 2016.

Mehta, H., & Kaur, H. *Analytical drain current model to study the impact of negative capacitance phenomenon in Symmetric Double Gate Junctionless Transistor*. IEEE Region 10 Conference (TENCON) Technologies for Smart Nation, Marina Bay Sands, Singapore, 22-25 Nov., 2016.

Mehta, H., & Kaur, H. *Impact of Negative Capacitance phenomenon of Ferroelectric Materials SBT and PZT on Elliptical Gate All Around Junctionless Transistor*. International Conference on Advances in Nanomaterials and Nanotechnology (ICANN), Jamia Millia Islamia, New Delhi, 4-5 Nov., 2016.

Mehta, H., & Kaur, H. *Theoretical Study of Impact of Ferroelectric Properties of SBT/PZT and Interface Layer on Double Gate Symmetric Junctionless Transistor*. National Conference on Recent Developments in Electronics (NCRDE), Department of Electronic Science, University of Delhi, South Campus, Delhi, 17-18 Feb., 2017.

Gautam, K., Singh, I., Bhatnagar, C., Bhatnagar, P.K. & Rao, P.K. *Enhanced UV Emission of Reduced Graphene Oxide Capped ZnONanorods by Surface Plasmon Resonance*, ICMAT-2017, , Suntec City, Singapore, 18-23 July.

Nirwal, V.S. & Rao, P.K. *Reverse Leakage Transport Mechanism in GaN Schottky Diode*, IUMRS-ICYRAM 2016, IISc, Bengaluru, 11-15 Dec., 2016.

Gautam, K., Singh, I., Jetley, K., Bhatnagar, P.K. & Rao, P.K., *Structural and Optical Characterization of Boron Doped ZnONanorods Grown by Hydrothermal Method*, ICANN-2016, New Delhi, 4-5 Nov., 2016.

Chaudhary, P. & Birwal, A. *Compact Circular Polarized Multiband Microstrip Antenna with Circular Defected Ground*. IEEE International Conference on Computing for Sustainable Global Development Proceedings, New Delhi. 6727-6731, 2017.

Gupta, M., *Innovations in Social and Humanitarian Engineering*, IEEE INDICON 2016, IISc Bangalore, Powai, India, 13-15 Dec., 2016.

Gupta, M., *Trends In Solar Power Generation And Energy Harvesting*, International Workshop Amity University UP, Dubai Campus DUBAI, UAE, 27-29 March, 2017.

#### **M.Phil. / Ph.D. Awarded**

Ph.D. – 2

#### **Faculty Strength**

Permanent – 07

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## **GENETICS**

### **Major Activities and Achievements**

The major activities of the department are discovery genomics and translation of genetic findings to diagnostics and therapeutics for Rheumatoid Arthritis; identification of rare variants in diseases like schizophrenia; identifying novel drug targets against neurodegenerative disorders and understanding pathogenesis of neuronal tauopathies using *Drosophila* as a model; understanding the molecular mechanism of how cancer cells develop resistance to chemotherapeutics under hypoxic conditions; genome mapping and molecular breeding in mustard (*Brassica juncea*), identification of targets and developing transgenic plants (tomato, cauliflower) resistant to fungal pathogens and insect pests; analyzing the Alternaria pathosystem using *Arabidopsis* as a model, identifying genes and mechanism of mitochondrial ribosome biogenesis in yeast; understanding the role of prolyl isomerization by Parvulins and their effects on growth and development of *Dictyostelium* and analyzing plant promoters.

Out of the two major achievements with social impact, screening of more than 2,00,000 newborn babies for over 40 different inborn errors of metabolism in Delhi State, thereby generating the first ever epidemiological data is of immense public health relevance and an example of translational medicine for the masses. The clearance given by The Genetic Engineering Appraisal Committee (GEAC) for DMH-11 hybrid mustard developed through transgenic approach is another major achievement.

### **Honours / Distinctions**

Prof. Pradeep Kumar Burma was awarded the INSA Teachers award for the year 2016.



Dr. Tapasya Srivastava was elected member of National Academy of Medical Sciences.

## Publications

- Abbas, M.M., Govindappa, S.T., Sudhaman S., Thelma, B.K., Juyal, R.C., Behari, M., Muthane, U.B. (2016). Early onset Parkinson's disease due to DJ1 mutations: An Indian study. *Parkinsonism Relat Disord*, 32, 20-24. doi: 10.1016/j.parkreldis.2016.04.024
- Ami, Choubey & Rajam, M.V. (2017). Transcriptome response and developmental implications of RNAi-mediated ODC knockdown in tobacco. *Funct. Integr. Genomics*, doi: 10.1007/s10142-016-0539-3
- Chanu, S.I., Sarkar, S. (2017). Targeted Downregulation of dMyc Suppresses Pathogenesis of human neuronal tauopathies in *drosophila* by limiting heterochromatin relaxation and tau hyperphosphorylation. *Mol Neurobiol*, 54, 2706-2719.
- Chaudhuri, Z., John, J., Aneja, S., Thelma, B.K. (2017). Pedigree analysis of familial primary concomitant horizontal strabismus in northern India, *Strabismus*, In press.
- Chowdhury, M.R., Chauhan, S., Dabral, A., Thelma, B.K., Gupta, N., Kabra, M., (2017). Validation of polymerase chain reaction-based assay to detect actual number of CGG repeats in FMR1 gene in Indian fragile X syndrome patients. *J Child Neurol*, 32(4), 371-378.
- Dey, S.K., Prabhakar, P., Saini, M., Joseph, T., Thelma, B.K., Maulik, S.K., Kundu. (2016). S. LBOS 02-05 Inhibitors of dopamine- $\beta$ -hydroxylase obtained by structure based methods exhibited anti-hypertensive effect in l-name induced hypertensive rats. *J Hypertens*, 34 Suppl 1:e550. doi: 10.1097/01.hjh.0000501505.44923.17, PubMed PMID: 27643306.
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Mehra, U., Kaur, J., Pandey, D.K. & Datta, K. (2017). A yeast specific insertion amidst OBG fold is critical for the mitochondrial function of Mtg2p in *Saccharomyces cerevisiae*. *Journal of Proteins and Proteomics*, 8(2), 75-84.

Uppal, S., Kumar, A., Shandilya, M., Mukhi, N., Singh, A.K., Kateriya, S., Kaur, J., Kundu, S. (2016). Penta- and hexa-coordinate ferric hemoglobins display distinct pH titration profiles measured by Soret peak shifts. *Anal Biochem*, 510, 120-8.

Yadav, R., Chanu, S.I., Raj, K., Nisha, Sarkar, S. (2016). *Drosophila melanogaster*: A prime experimental model system for aging studies. *Topics in Biomedical Gerontology*, P.C. Rath, R. Sharma, S. Prasad (Eds.), 3-33 (*Book Chapter*), Springer Nature Publication.

Yadav, R., Sarkar, S. (2016). *Drosophila* glob1 is required for the maintenance of cytoskeletal integrity during oogenesis. *Dev. Dyn.* 245, 1048-1065.

Yogindran, S. & Rajam, M.V. (2016). Artificial miRNA-mediated silencing of ecdysone receptor (*EcR*) affects larval development and oogenesis in *Helicoverpa armigera*. *Insect Biochem. Mol. Biol.*, 77, 21-30.

### Research Projects

DBT-UDSC Partnership, *Centre on Genetic Manipulation of Brassicas*. (DBT) 2016-2021, Prof. Akshay Pradhan, Rs.11,87,66,000.

DBT, *Engineering ToLCV resistance in tomato by using single and multiple artificial micro RNAs and synthetic rep gene containing multiple mutations to resist VIGS*. Sept. 2, 2014 - Sept. 1, 2019, including 2 years of extension, Rs. 1,47,45,000.

DBT, *Functional validation of yield related genes*. Oct. 19, 2016 - Oct. 18, 2019, Prof. M. V. Rajam (Coordinator & PI), Rs. 37,66,000.

DBT, *Development of transgenic cowpea for insect resistance through RNA interference technology*. April 1, 2015 - March 31, 2018., Prof. M. V. Rajam (Co-PI), Rs. 33,47,000.

Jivanti Welfare and Charitable Trust (Dabur), *Induction of resin-ducts and production of guggulsterone from cell and callus cultures, and somatic embryos of Commiphora mukul*. July 1, 2016 - June 30, 2019, Prof. M. V. Rajam (PI), Rs. 16,44,000.

CSIR, *Studies on the role of globin gene in suppression of human tauopathy mediated neurodegeneration in Drosophila disease models*. May 10, 2016- May 09, 2019, Dr. Surajit Sarkar, Rs. 23,30,000.

BRNS-DAE, *Elucidating the control exerted on mitochondrial activity by YDR336w(MRX8), a nuclear-encoded GTPase in Saccharomyces cerevisiae*. March, 2017-March, 2020, Dr. Kustav Datta, Rs. 35,00,000.

SERB, *Elucidate the function of Wee family kinases in Dictyostelium discoideum*. March, 2017- March, 2020, Dr. Aruna Devi Naorem, Rs. 42,24,000.

CSIR, *Analyzing the organization of tapetum specific promoters of plants- using the promoter of A9 gene from Arabidopsis thaliana as a model*. October 1, 2013 - March 31, 2017, Prof. P. K. Burma, Rs. 26,00,000.

### Patents Filed / Granted

Application number 201611022018, dated June 27, 2016, Filed for Indian Patent. Regulate expression of insecticidal proteins only in the green tissues of cotton; Amarjeet Singh, Paritosh Kumar, Pradeep Kumar Burma, Deepak Pentel.

Application number 201611018037, dated May 25, 2016, Filed for Indian Patent. Transgenic event in cotton with Cry1Ac gene; Amarjeet Singh, Paritosh Kumar, Pradeep Kumar Burma, Deepak Pentel.

### Seminar / Conference Presentation

International:

M.V. Rajam, International Symposium *Plant Biotechnology for Crop Improvement*, Indian Institute of Technology Guwahati, 20-22 January, 2017.

M.V. Rajam, VIROCON 2016 and International Conference on *Global Perspectives in Virus Disease Management*, ICAR-Indian Institute of Horticultural Research, Bengaluru, 7-10 December, 2016.

M.V. Rajam, International Conference on *Environmental Conservation and Human Health: Challenges and Strategies* and 10<sup>th</sup> Annual Convention of the Association of Biotechnology and Pharmacy. Sri Venkateswara University, Tirupati, December 21-23, 2016

M.V. Rajam, 8<sup>th</sup> International Geminivirus Symposium & 6<sup>th</sup> International *ssDNA Comparative Virology* Workshop, New Delhi, 7-10 November, 2016.

M.V. Rajam, 2<sup>nd</sup> International Conference on *Plant Genetics & Genomics*, AgriGenomics India, New Delhi, 19-20 August, 2016.

B.K. Thelma, 38<sup>th</sup> Ayurveda Conference, Omiya, Japan, 20-22 April, 2016.

B.K. Thelma, 24th Annual meeting of World Congress of Psychiatric Genetics(WCPG), Jerusalem, Israel, Oct. 30 – Nov. 03, 2016, funded by Department of Biotechnology.

Tapasya Srivastava, Invited Speaker, 12<sup>th</sup> International Conference of Asian Clinical Oncology Society (ACOS) and 35<sup>th</sup> Annual Convention of Indian Association for Cancer Research, New Delhi, 8-10 April, 2016.

Surajit Sarkar, Invited Talk, *Drosophila glob1 is required for development and oxidative stress response*. XIXth International meeting on Oxygen binding and sensing proteins (XIXth O2BIP), University of Hamburg, Hamburg, Germany, Session 6, 11-14 Sept., 2016

National:

M.V. Rajam, 38<sup>th</sup> Annual Meeting of the Plant Tissue Culture Association (India) and National Symposium on *Plant Biotechnology: Current Perspectives on Medicinal and Crop Plants*, Indian Institute of Chemical Biology, Kolkata, 3-5 March, 2017.

M.V. Rajam, National Seminar on *Genetically Modified Food and Food Security (GMFFS) – 2017*, Shree M. and N. Virani Science College, Rajkot, 10-11 Feb., 2017.

B.K. Thelma, *Newborn screening - A Novel Public Health Initiative in Delhi State: An Overview*, Saved babies day, Maulana Azad Medical College, March 28, 2017.

B.K. Thelma, *Ayurgenomics: Can it be a panacea for the global challenge in unravelling the genetics of polygenic disorders? S&T in Indic tradition*, IISc, Bangalore, 10-11 Feb., x 2017.

B.K. Thelma, *Revisiting genomes base by base makes headway in discovery genomics: Our supportive findings*. Bioserve & CCMB NGS Meet, Hyderabad, 22-24 Feb., 2017.

B.K. Thelma, *Impressive advances in technology & understanding disease biology propels change from GATC to genomic medicine*. EMBO global exchange lecture course: Malaria genomics and public health CRME, Madurai, Feb. 2, 2017.

B.K. Thelma, *Bridging the abyss in medical genomics with next generation sequencing*. GATC 2017 Mumbai. 10-11 Feb., 2017.

B.K. Thelma, *Next generation sequencing, a doorway to causal gene discoveries in Mendelian disorders: Our success stories*. Indian Society of Human Genetics Meet, IISc, Bangalore, 2-4 March, 2017.

Jagreet Kaur, Invited speaker, *Genetic dissection of Alternaria leaf blight at Arabidopsis in Emerging challenges in plant biology*. IISER Mohali, 20-22 March, 2016.

Surajit Sarkar, Invited talk, Workshop on *Confocal Microscopy and Live Cell Imaging*, Advanced Instrumentation Research Facility (AIRF) Centre, Jawaharlal Nehru University, New Delhi, Aug. 11, 2016,

Surajit Sarkar, Invited talk, *Studies on the role of glial cells in progression of human neurodegenerative disorders and aging mediated neuronal impairments in Drosophila*. Brainstorming session on *Glial Cells in Health and disease*, School of Studies in Neuroscience, Jiwaji University, Gwalior, 2-3 Feb., 2017.

Surajit Sarkar, Invited talk, *Excavating amicable molecular targets to curb Neurofibrillary Tangles (NFT) mediated pathogenesis of human neuronal tauopathies in Drosophila*. Symposium on Gene-Environment Interaction in disease, development and evolution, Banaras Hindu University, Varanasi, 5-6 March, 2017).

Surajit Sarkar, Invited talk, *c-myc proto-oncogene, a novel target to mitigate the pathogenesis of human poly(Q) disorders*. National symposium cum Bioinformatics workshop, current trends in Proteomics and Bioinformatics, Aligarh Muslim University (AMU), 16-17 March, 2017.

### **Inter-Institutional Collaboration**

Collaboration with Jawaharlal Nehru University, New Delhi on a Department of Biotechnology Project titled *Engineering ToLCV resistance in tomato by using single and multiple artificial micro RNAs and synthetic rep gene containing multiple mutations to resist VIGS*. Period: Sept. 2, 2014 - Sept. 1, 2019, including 2 years of extension.

Collaboration with Indian Institute of Technology Guwahati, Guwahati on a Department of Biotechnology Project titled *Functional validation of yield related genes*. Period: Oct. 19, 2016 - Oct. 18, 2019.

Collaboration with Indian Institute of Technology Guwahati, Guwahati on a Department of Biotechnology Project titled *Development of transgenic cowpea for insect resistance through RNA interference technology*. Period: April 1, 2015 - March 31, 2018.

Collaboration with Jivanti Welfare and Charitable Trust (Dabur) on their sponsored Project titled *Induction of resin-ducts and production of guggulsterone from cell and callus cultures, and somatic embryos of Commiphora mukul*. Period: July 1, 2016 - June 30, 2019.

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 14

M.Phil. – 1

### **Faculty Strength**

Permanent – 9

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## **MICROBIOLOGY**

### **Major Activities and Achievements**

The department is developing a gene array-based 'point of care' (POCT) device for rapid detection of antimicrobial resistance (AMR) in bacteria. The gene for bacterioferritin, a protein required in iron homeostasis in bacteria, was cloned and expressed in *E. coli*. A study performed in department shows that HCV E1 protein expression as well as HCV infection induces pro-metastatic effect on cancer cells which is simultaneous to Nm23-H1 transcriptional down-regulation and Nm23-H1 protein degradation. Studies on chromatin modifications in *Leishmania* involving histone acetyltransferases HAT2 and HAT4 found the latter to be non-essential for cell survival, while HAT2 was essential. Microarray analyses revealed that HAT2 depletion caused the downregulation of ~ 200 genes. Combined with the fact that our lab previously showed HAT3 to be involved in DNA repair events, it appears that unlike what is seen in higher eukaryotes, in *Leishmania*, there is little functional redundancy among histone acetyltransferases. Biotechnologically relevant mutant with enhanced catalytic efficiency of gamma-glutamyl transpeptidase (BLGGT) from *Bacillus licheniformis* were developed by point mutations at the active site of the enzyme. Another GGT enzyme from *Bacillus atrophaeus* was cloned and expressed in *E. coli* and used for the enzymatic synthesis of gamma-D-glutamyl-L-tryptophan, an immunomodulatory peptide. Various lipases of *Yarrowia lipolytica* MSR80 were cloned and expressed in *E. coli* and studied for their substrate specificity, kinetic comparison and enantioselectivity. The bioprocess optimization of therapeutically important recombinant proteins

such as streptokinase, hIL-3 and hIL-7 was optimized at bioreactor level where gram level productions of these molecules were obtained.

### Honours / Distinctions

UDSC-AMR group (Team Lead - Prof. J.S. Viridi) of collaborating Departments of Microbiology and Biophysics was given Discovery Award instituted by Biotechnology Industry Research Assistance Council (BIRAC-DBT, India) & Nesta (Innovate Council, UK).

Prof. J.S. Viridi:

Awarded the Invitrogen Science Hero 2016 Award, in the category Best lab Mentor (University Level).

Invited to join: Member, BOS in Biotechnology, Gautam Buddha University (NOIDA); J.P. Inst. of Information Tech. (NOIDA); IIS University (Jaipur); Member, BOS in Immunology & Virology, Amity University (NOIDA).

First prize in poster presentation titled *Use of the Pichia Expression Platform for high-level expression of Streptokinase in Fed-Batch culture* under the theme of Indigenous Science and Technology, Young Scientists' Conclave organized as a part of the India International Science Festival, 2016, by the Ministry of Science & Technology, Ministry of Earth Sciences and Vigyan Bharti at CSIR-National Physical Laboratory (NPL) Campus, New Delhi, 7-11 Dec., 2016.

### Research projects

Prof. J. S. Viridi, BIRAC, *Resistance-gene-array based rapid detection of antimicrobial resistance and algorithm-driven therapy*, Rs. 12,50,000.

Prof. Swati Saha, DST, *DNA replication protein Cdc45 in the protozoan parasite Leishmania donovani*, Rs. 49,00,000.

Prof. Swati Saha, DBT, *The roles of the GNAT-family histone acetyltransferases Elp3a and Elp3b in the protozoan Leishmania donovani*, Rs. 67,50,000.

### Publications

Singhal, N., Kumar, M., & Viridi, J.S. (2016). MALDI-TOF MS in clinical parasitology: applications, constraints and prospects, *Parasitology*, 143 (12):1491-1500. doi: 10.1017/S0031182016001189

Singhal, N., Kumar M., & Viridi, J.S. (2016). Resistance to amoxicillin-clavulanate and its relation to virulence-related factors in *Yersinia enterocolitica* biovar 1A, *Indian J Med Microbiol*, 34(1), 85-87. doi: 10.4103/0255-0857.174125

Bajaj, P., Singh, N.S., & Viridi, J.S. (2016). *Escherichia coli*  $\beta$ -lactamases: What really matters, *Front Microbiol*, 7, 417.

Kumari, S., Pal, R.K., Gupta, R., Goel, M. (2017). High resolution X-ray diffraction dataset for *Bacillus licheniformis* gamma glutamyl transpeptidase-acivicin complex: SUMO-Tag renders high expression and solubility. *The Protein Journal*, 36(1), 7-16.

Bindal, S., Sharma, S., Singh, T.P., Gupta R. (2017). Evolving transpeptidase and hydrolytic variants of  $\gamma$ -glutamyl transpeptidase from *Bacillus licheniformis* by targeted mutations of conserved residue Arg109 and their biotechnological relevance. *Journal of Biotechnology*, 249, 82-90.

Bindal, S., Gupta, R. (2017). Hyperproduction of  $\gamma$ -glutamyl transpeptidase from *Bacillus licheniformis* ER15 in the presence of high salt concentration. *Preparative Biochemistry and Biotechnology*, 47(2), 163-172.

Saini, M., Bindal, S., Gupta, R. (2017). Heterologous expression of  $\gamma$ -glutamyl transpeptidase from *Bacillus atrophaeus* GS-16 and its application in the synthesis of  $\gamma$ -D-glutamyl-L-tryptophan, a known immunomodulatory peptide. *Enzyme Microbiology and Technology*, 99, 67-76.

Syal, P., Gupta, R. (2017). Heterologous expression of lipases YLIP4, YLIP5, YLIP7, YLIP13 and YLIP15 from *Yarrowia lipolytica* MSR80 in *E. coli*: Substrate specificity, kinetic comparison and enantioselectivity. *Biotechnology and Applied Biochemistry*. doi:10.1002/bab.1542

Bindal, S., Gupta, R. (2016). Thermo- and salt-tolerant chitosan cross-linked  $\gamma$ -glutamyl transpeptidase from *Bacillus licheniformis* ER15. *International Journal of Biological Macromolecules*, 91, 544-553.

Singh, Y., Gupta, N., Verma, V.V., Goel, M., Gupta, R. (2016). Selective disruption of disulphide bonds lowered activation energy and improved catalytic efficiency in TALipB from *Trichosporon asahii* MSR54: MD simulations revealed flexible lid and extended substrate binding area in the mutant. *Biochemical and Biophysical Research Communications*, 472(1), 223-30.

Yadav, A, Chandra, U, & Saha, S. (2016). Histone acetyltransferase HAT4 modulates navigation across G2/M and re-entry into G1 in *Leishmania donovani*. *Scientific Reports* 6, 27510. doi: 10.1038/srep27510

Dagar, V.K., Adivitiya, & Khasa, Y.P. (2017). High-level expression and efficient refolding of therapeutically important recombinant human Interleukin-3 (hIL-3) in *E. coli*. *Protein Express Purif.* 131, 51-59.

Adivitiya, & Khasa, Y.P. (2016). The evolution of recombinant thrombolytics: Current status and future directions. *Bioengineered*, In press.

Adivitiya, Dagar, V.K., Devi, N. & Khasa Y.P. (2016). High level production of active streptokinase in *Pichia pastoris* fed-batch culture. *Int J Biol Macromol.* 83, 50-60.

Devi, N., Adivitiya, & Khasa, Y.P. (2016). A combinatorial approach of N-terminus blocking and codon optimization strategies to enhance the soluble expression of recombinant hIL-7 in *E. coli* fed-batch culture. *Appl Microbiol Biotechnol.* 100(23), 9979-9994.

Dagar, V.K., Adivitiya, Devi, N. & Khasa, Y.P. (2016). Bioprocess development for extracellular production of recombinant human interleukin-3 (hIL-3) in *Pichia pastoris*. *J Ind Microbiol Biotechnol.* 43(10), 1373-1386.

### Conferences Organised

J.S. Viridi, Invited lecture, *Biosafety in the Laboratory during a Workshop for Technical Personnel*. IIT (Delhi), Aug 27, 2016.

J.S. Viridi, Invited lecture, *From Yersinia genomics to Point of Care testing for antibiotic resistance*. International Conference on advances in microbial biotechnology, Jaypee Inst. of Information Tech., 2-4 Feb., 2017.

J.S. Viridi, Invited lecture, *Genomic insights into clinical and environmental strains of Yersinia enterocolitica from India*. 7th National Science Day 2017, University of Delhi, South Campus, 27-28 Feb., 2017.

J.S. Viridi, Invited lecture, *Microbial genomics: new paradigm on the horizon*. Advanced lecture series in Microbiology, Bhaskaracharya College of Applied Sciences, March 8, 2017.

J.S. Viridi, Invited talk, *Resistance-genes-array based rapid detection of AMR*. BIRAC-Nesta AMR consultative meeting, Biotechnology Industry Research Assistance Council (BIRAC), March 22, 2017.

### Ph.D. / M.Phil. Awarded

Ph.D. – 04

### Faculty Strength – 06

### Other Significant information

Shruti Bindal, 8th International Conference on Food Factory for the Future, Laval, France, 19-21 Oct., 2016.

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## PHYSICAL EDUCATION & SPORTS SCIENCES

### Major Activities and Achievements

Our faculty visits various universities and institutions as resource persons, key note speakers, technical experts of various committees, and as experts for evaluation of UGC programmes. They are also appointed members of various Statutory committees of other Universities like Board of Studies of research etc., selection committee members for various organizations, in various programmes of sports, related seminars etc. The Supervisors in the Department carry out research in the field of Sports Psychology, Sports Biomechanics, curriculum development,

Sports & Exercise Physiology, Training and Sports Performance, Management concept in Sports, Sports Injury; and construction and validation of tools in sports psychology.

### **Honours / Distinctions**

Dr. Sandeep Tiwari, nominated as Member of CEC's Preview committee in physical education, sports, and yoga since January 2004.

Dr. J.P. Sharma, appointed External Expert in BOS of Department of Yogic Science (LNIFE), Gwalior 2016-18.

Dr. Rakesh Gupta:

Elected as Vice President of Delhi Athletics Association in April, 2016.

Appointed as Vice Chairman, Selection Committee for Delhi Athletics Association in Feb., 2017.

Appointed as Director, Selection Committee by the Ministry of Youth Affairs & Sports, Government of India to select Indian Para Athletics Team for Rio Paralympics Games held at Rio (Brazil), Sept., 2016.

Appointed as Member, Selection Committee by Paralympic Committee of India to select Indian Para Athletics Teams for Fazza International Para Athletics Championship-2017 held at Dubai and China Open Para Athletics Championship-2017 held at Beijing in Feb., 2017.

Appointed as Director (Technical) by Delhi for 9<sup>th</sup> Delhi State Para Athletics Championships, Feb., 2017

Appointed as Technical Delegate by the Athletics Federation of India for Indian Grand Prix Athletics Meet held at NSNIS, Patiala, May, 2016.

Appointed as Technical Delegate by the Athletics Federation of India for National Cross Country Championships held at Raipur-Bhilai, Chhattisgarh, Jan. 15, 2017.

Appointed as Key Technical Official for National Race Walking Championships held at New Delhi, Feb., 2017.

Dr. Pardeep Kumar:

Won Bronze medal in 37th National Master Athletics Championship-2016, 2-6 March 2016, Chamundi Vihar Stadium, Mysore, Karnataka, in 400m hurdles in 55 - 59 years age category.

Won two gold medals (Triple Jump & 100m hurdle) in Delhi State Master Athletics Championship 2016.

### **Publications**

Bhardwaj, M., Tiwari, S. & Shah, M. M. (2015). Cardio respiratory fitness between children participating within and after school physical activity programme, *International Journal of Multidisciplinary Research and Modern Education*, 2(1), 50-53.

Shah, M. M., Tiwari, S. & Tiwari, S. (2016). Rio de Janeiro's green games for a blue planet, *Proceedings of UGC Sponsored National Conference on Corporate Social Responsibility: Sports, Olympism and Global Peace* held at Maharaja Agrasen College, University of Delhi.

Shah, M. M. & Tiwari, S. (2016). An assessment and comparison of body fat percentage among government and private school boys. *International Journal of Applied Research*, 2(12), 536-538.

Shah, M. M., Tiwari, S. & Tiwari, S. (2016). Height weight triceps and calf skin fold among 14 to 17 year old school boys: A correlational study. *International Journal of Physiology, Nutrition and Physical Education*, 1(2), 149-151.

Shah, M. M. & Tiwari, S. (2016). Flexibility of the lower back and hamstring muscles among 14 to 17 year old school boys. *International Journal of Physical Education, Sports and Health*, 3(6), 370-372.

Shah, M. M., Tiwari, S. & Tiwari, S. (2017). Lean body mass and associated changes in basal metabolic rate among school boys. *Proceedings of the International Congress on Sports Science and Yoga (ICSSY-2017)*, held at Vigyan Bhawan, New Delhi.

Shah, M. M., Tiwari, S. & Tiwari, S. (2016). Basal metabolic rate and cardio respiratory endurance: A correlation study. *Proceedings of UGC sponsored 2<sup>nd</sup> National Conference on latest trends in health and physical education* held at University College of Medical Sciences, University of Delhi, New Delhi.



Kirti, Tiwari, S. (2016). Assessment of passion among university volleyball players. *Research Ambition-An International Multidisciplinary E-Journal*, 1(1), 97-102.

Kumar, Deep, Kumar, Pardeep. (2017). A study of different physiological fitness components of labourers of East Delhi. *International Journal of Yogic, Human Movement and Sports Sciences*, ISSN: 2456-4419,2(2), 118-120.

Dabas, Meenu, Kumar, Ashish & Kumar, Pardeep. (2017). Study of mental profile of wicket keeper batsmen of inter-collegiate cricket players of University of Delhi. *Indian Journal of Movement Education and Exercises Sciences (IJMEES)*, 7 (2), July-Dec. 2017, Online ISSN 2249-6246, Print ISSN 2249-5010.

Kumar, Ashish. Dabas, Meenu. & Kumar, Pardeep. (2017). Assessment of personality among sportspersons and non- sportsperson. *Indian Journal of Movement Education and Exercises Sciences (IJMEES)*, 7(2) July-Dec. 2017, Online ISSN 2249-6246, Print ISSN 2249-5010.

Dabas, Meenu, Kumar, Ashish & Kumar, Pardeep. (2017). Assessment of self efficacy on sportspersons and non-sportsperson. *International Journal of Movement Education and Sports Sciences (IJMESS)* 5(1) Jan.-Dec., 2017, Online ISSN 2321-7200 Print ISSN 2348-5604.

Dabas, Meenu, Kumar, Ashish & Kumar, Pardeep. (2017). Assessment of emotional regulation among sportsperson and non-sportsperson. *Indian Journal of Movement Education and Exercises Sciences (IJMEES)*, 7(1) Jan.-June 2017, Online ISSN 2249-6246, Print ISSN 2249-5010.

Singh, Sandeep., Kumar, Pardeep. (2017). A study on promotion of Basketball game in village Dudoj, District Sikar, Rajasthan in percentile value. *International Journal Physical Education, Sports and Health*, 1(4), 226-228. ISSN Print- 2394-1685, Online-2394-1693. CODEN No.-IJPEJB, Index J F.No-5.38.

Singh, Sandeep. Kumar, Pardeep. (2017). A study on effect of specific strength training on junior level basketball players of District Sikar, Rajasthan in percentile value. *International Journal of Physical Education, Sports and Health*. 4(2): 273-275, P-ISSN: 2394-1685 E-ISSN: 2394-1693 Impact Factor (ISRA): 5.38.

Hooda, Manish. Kumar, Pardeep. (2016). A critical study of doping attitude in indian competitive sports between male and female sportsperson. *International Journal of Enhanced Research in Educational Development (IJERED)* 4(3), 15-18, ISSN: 2320-8708.

Kumar, Pardeep. (2016). Causal genesis-cyclic nature of death-rebirth. *IGIPSS Magazine Priyadharshni-2016*.

### **Research Projects**

Innovative Project - 2015-16, University of Delhi, *Current Status, Attitude, Wellbeing, Friendship in Relation to Academic and Sports Achievement of D. U. College Students – A contextual understanding*. (Completed) Dr. Pardeep Kumar (Principal Investigator), Dr. Sandeep Tiwari (CO-PI, HOD) and Dr. Sandhya Tiwari (CO-PI),

### **Seminars Organized**

Organized Lecture, Prof. Verlin B. Hinsz, Ph.D., Professor, Department Of Psychology, North Dakota State University, Fargo, North Dakota, USA on *Effective Uses of Goal Setting for Motivating Performance*, Dec. 19, 2016.

Organized Lecture, Prof. Magdalene H. Chalikia, Professor, Department Of Psychology, Minnesota State University, Moorhead, Minnesota, USA on *Perception and Perceptual Illusions*, Dec. 19, 2016.

Dr. Rakesh Gupta, appointed as Organizing Secretary for the Seminar on *Inclusion of Paralympic Sports for Sustainable Development in India*, held at IGIPSS, University of Delhi, Jan. 31, 2017.

Dr. J.P. Sharma & Dr. Pardeep Kumar, Conducted Workshop on *Life Skills*, Jan. 30, 2017 at Aaharshila Vidayapeeth, Pitampura, Delhi.

### **Seminar / Conference Presentation**

Sandeep Tiwari, Resource Person, Physical Education Sports Sciences & delivered lecture as Department of Physical Education, Punjab University, Jan. 16, 2017.

Sandeep Tiwari, Chief Moderator, Panel discussion at International Conference Vigyan Bhawan, organized by LNIPE, (Ministry of Sports) Gwalior, 2-4 Feb., 2017.

Sandeep Tiwari, Chairperson, session for Indo-Japanese Conclave-III, organized by Manav Rachna International University, 13-14 Feb., 2017.

Sandeep Tiwari, Expert Speaker, 2<sup>nd</sup> National Conference on UCMS, 14-15 Feb., 2017.

Sandeep Tiwari, Resource Person and Developed Extension Lecture on Mathematical concepts in Sports Training at Aligarh Muslim University, Feb. 18, 2017.

Sandeep Tiwari, Resource Person, for International Conference on Physical Education and Sports Sciences (ICPESS) organized by Manipal University, Jaipur, 5-7 Jan., 2017.

Sandeep Tiwari, Lecture, National Seminar on Pedagogic Technology of Physical Education & Sports Sciences for Paralympic & Differently Abled Persons held at IGIPSS (University of Delhi) on Feb. 28, 2017.

Pardeep Kumar, Resource Person and delivered four lectures on - Science of sports training and conditioning, for pre-PhD course work-II of Education and Physical Education scholars, Department of Education, C.C. S. University, Meerut, UP on 13-01-2016.

Pardeep Kumar contributed in Seminar on Syllabus contents for UG and PG courses of Physical Education-2016

Sandhya Tiwari, presented paper, *Effect of structured Exercise training in Reducing age Risk of Breast Cancer:Meta-Analysis Findings*, UGC Sponsored National Conference on Latest Trends in Health and Physical Education organized by University College of Medical Sciences ,University of Delhi, 14-15 Feb., 2017.

Sandhya Tiwari, presented paper, *Effect of Built in Environment with Physical Activity*, UGC sponsored National Conference on Latest Trends in Health and Physical Education organized by University College of Medical Sciences, University of Delhi, 14-15 Feb., 2017.

Sandhya Tiwari, attended the International Conference in Physical Education and Sports Sciences sponsored by Ministry of Youth Affairs and sports, Govt. of India and DST Rajasthan in Emerging Trends in Fitness and Sports Sciences from 5-7 Jan., 2017.

Ekta Bhushan Satsangi, Sandeep Tiwari & Shivani Rawat, Presented Paper, *A Comparative Study of Body Shape Concern among Exercise and Non-Exercise Women*, International Conference on Physical Education and Sports Sciences, Manipal University, Jaipur.

Sandhya Tiwari, Ekta Bhushan Satsangi and Man Singh participated in the seminar organized by Faculty of Law on Sports Law and Career, Umang Bhawan, Faculty of Law, University of Delhi, March 7, 2017.

### **M.Phil./Ph.D. Awarded**

Ph.D. – 10

### **Other Significant Information**

The Department admitted 16 students to the Ph.D. Programme in Physical Education & Sports Sciences. 39 students were admitted to M.P.Ed. and 50 students to the B.P.Ed. Programme. Teaching facilities are provided at the Indira Gandhi Institute of Physical Education & Sports Sciences, B- Block, Vikaspuri, New Delhi. Regular faculty has not yet been appointed in the Department. However, till date, a total of 12 teachers of IGIPSS have been recognized by the University in the Department, under Statute 19(2) (three have since retired). Currently, eight Associate Professors, including the HOD, are managing the work. The Department also guides the activities of the Ph.D. Scholars. There is no post of Professor, Associate Professor or Assistant Professor in the Department.

Dr. Sandeep Tiwari continues to analyze and edit videocassettes for the Consortium for Educational Communication an Autonomous Center of UGC on Higher Educational Electronic Media, which is telecast on Doordarshan's National, Gyandarshan & UGC programmes. Rakesh Gupta was appointed as Member, Centralized Admission Committee (Physical Education) for M.P.Ed., B.P.Ed., M.P.E.S. & B.P.E.S. Courses by the Ch. Charan Singh University, Meerut (U.P.) Oct., 2016.

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## PLANT MOLECULAR BIOLOGY

### Major Activities and Achievements

The work undertaken by the various faculty members revolves around Functional Analysis of Genes Regulating Plant Development with particular emphasis on Abiotic and Biotic Stress tolerance employing tools and techniques of Plant Molecular Biology and Biotechnology. Prof. J.P. Khurana focuses on light sensory receptors, mainly on cryptochromes which perceive UV-A/blue light to regulate plant height and flowering time. Prof. A. K. Tyagi works on water-deficit stress response in rice. Prof. Paramjit Khurana's focus is on heat stress tolerance in wheat and Prof. Anil Grover's focus is on rice. Prof. Indranil Dasgupta investigates the plant-viral interactions. Prof. Sanjay Kapoor works on understanding the molecular aspects of male gametophyte development. Prof. Arun Sharma's lab focuses on Regulation of ripening in tomato. Prof. Girdhar Pandey concentrates on unraveling the calcium mediated-signal transduction pathway. S. Raghuvanshi is engaged in deep sequencing and functional characterization of miRNA. Dr. Surekha Katiyar is engaged in elucidating the biological role of tetraspanin proteins in rice.

### Honours / Distinctions

Prof. A.K Tyagi:

Appointed as Co-Chair, Indo-US Joint Working Group (JWG) on Agriculture, 2016.

Member, Membership Advisory Committee in Biological Systems and Organisms, The World Academy of Sciences, Italy, 2013-2018.

Member, Scientific Committee International Rice Functional Genomics Symposium, 2016.

Awarded JC Bose National Fellowship Award, DST, Government of India, 2007-2017.

President, Indian Society for Plant Physiology, New Delhi, 2017-2018.

Chairman, Finance Committee, Biotech Park, Lucknow, 2016-2019.

Member, Apex Committee for Plant Biotechnology and Allied Areas, DBT, 2016-2019.

Member, Promotions and Assessment Committee, IISC, Bangalore, 2016-2018.

Member, SAC for DBT-iisc Partnership Program (2013-2018); PMC on Solanaceae Genome Initiative, DBT, New Delhi, 2015-2018

Member, SAC for ILS, Bhubneshwar, 2012-2018.

Member, Governing Body, CIAB, Mohali, 2012-2019.

Member, Governing Board, SRI, Delhi, 2014 onwards.

Member (*ex-officio*), Board of Directors, Mohali Biotechnology Park, Mohali, 2015-2016.

Non-official Independent Director on Board, BIRAC, New Delhi, 2017-2020.

Member, School Board, SLS, CUR, Ajmer, 2014-2017.

Member, SAC, Bose Institute, Kolkata, 2014-2017.

Prof. Paramjit Khurana:

Fellow, The World Academy of Sciences, Trieste, Italy, 2016.

Nominated NASI Member to the Council, Indian National Science Academy, 2017.

Convenor, Sectional Committee VII (Plant Sciences), Indian National Science Academy, 2017.

Birbal Sahni Award Medal of the Indian Botanical Society for 2017.

Professor S.K. Sinha Memorial Lecture Award of the Indian Society of Plant Physiology for 2017.

Prof. Indranil Dasgupta, awarded J. C. Bose Fellowship by DST, Govt. of India on Dec. 26, 2016 for five years.

Prof. Girdhar K. Pandey:

Visiting Professor, Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu, China, 2017.

Visiting Professor at Institute of AgriBiotechnology, Jiangsu Academy of Agricultural Sciences, Nanjing, China, 2016.

Elected Fellow of National Academy of Sciences, India, Allahabad, 2016.

## Publications

- Baranwal, V. K., Negi, N. & Khurana, P. (2016). Genome-wide identification of WRKY components of mulberry and their structural functional and evolutionary analysis. *Scientific Reports*, 6, 30794. doi: 10.1038/srep30794
- Borah, B.K., Zarreen, F., Baruah, G. & Dasgupta, I. (2016). Insights into the control of geminiviral promoters, *Virology*, 495, 101-111.
- Chawla, M., Verma, V., Kapoor, M. & Kapoor, S. (2016). A novel application of periodic acid–Schiff (PAS) staining and fluorescence imaging for analysing tapetum and microspore development. *Histochemistry and Cell Biology*, 1-8. doi: 10.1007/s00418-016-1481-0
- Grover, A., Twell, D. & Schleiff, E. (2016). Pollen as a target of environmental changes. *Plant Reproduction*, 29, 1-2.4.
- Kelkar, V., Kushawaha, A.K. & Dasgupta, I. (2016). Identification of amino acid residues of the coat protein of *Sri Lankan cassava mosaic virus* affecting symptom production and viral titer in *Nicotiana benthamiana*, *Virus Research*, 217, 38-46.
- Kumar, R., Singh, A.K., Lavania, D., Siddiqui, M.H., Al-Wahaibi, M.H. & Grover, A. (2016). Expression analysis of ClpB/Hsp100 gene in faba bean (*Vicia faba* L.) plants in response to heat stress. *Saudi Journal of Biological Sciences*, 23, 243-247.
- Lavania, D., Kumar, R., Goyal, I., Rana, S. & Grover, A. (2016). Genetic improvement of rice crop under high temperature stress: bridging plant physiology with molecular biology. *Indian J. Plant Physiology*, 21, 391-408.
- McLoughlin, F., Basha, E., Fowler, M. E., Kim, M., Bordowitz, J., Katiyar-Agarwal, S., & Vierling, E. (2016). Class I and II small heat-shock proteins protect protein translation factors during heat stress. *Plant Physiology*, 174(3). doi:10.1104/pp.16.00536
- Mishra, R.C., Richa & Grover, A. (2016). Constitutive over-expression of rice ClpD1 protein enhances tolerance to salt and desiccation stresses in transgenic Arabidopsis plants. *Plant Science*, 250, 69-78.
- Mishra, R.C., Richa., Singh, A. & Grover, A. (2016). Characterization of 5'UTR of rice ClpB-C/Hsp100 gene: evidence of its involvement in post-transcriptional regulation. *Cell Stress Chaperone*, 21, 271-283. doi 10.1007/s12192-015-0657-1
- Mutum, R.D., Kumar, S., Balyan, S.C., Kansal, S., Mathur, S. & Raghuvanshi, S. (2016). Identification of novel miRNAs from drought tolerant rice variety Nagina 22. *Scientific Reports*, 6, 30786.
- Pandey, A., Sharma, M., & Pandey, G.K. (2016). Emerging roles of strigolactones in plant responses to stress and development. *Front Plant Sci.*, 5, 7:434. doi: 10.3389/fpls.2016.00434 eCollection 2016.
- Pingzhi, Z., Lubomir, L. Sokolov, Ye, J., Tang, C.Y., Shi, J., Zhen, Y., Lan, W., Hong, Z., Qi, J., Gui-hua, Lu., Pandey, G. K., Yong-hua, Y. (2016). The LIKE SEX FOUR2 regulates root development by modulating reactive oxygen species homeostasis in Arabidopsis. *Scientific Reports*, Jun 28, 6:28683. doi: 10.1038/srep28683
- Raghuvanshi, S., Gour, P. & Joseph, S.V. (2016). Manually curated database of rice proteins (MCDRP), a database of digitized experimental data on rice. *Current Plant Biology*, 7-8, 26-30.
- Sharma, M. & Pandey, G.K. (2016). Expansion and function of repeat domain proteins during stress and development in plants. *Front Plant Sci.*, 11(6), 1218.
- Singh, A., Saraf, S., Dasgupta, I. & Mukherjee, S.K. (2016). Identification and validation of a virus-inducible tasiRNA-generating TAS4 locus in tomato. *Journal of Biosciences*, 41, 109-118.
- Valarmathi, P., Kumar, G., Robin, S., Manonmani, S., Dasgupta, I. & Rabindran, R. (2016). Evaluation of virus resistance and agronomic performance of rice cultivar ASD 16 after transfer of transgene against *Rice tungro bacilliform virus* by backcross breeding. *Virus Genes*, 52: 521-529.
- Agarwal, P., Kumar, R. Pareek, A. & Sharma, A.K. (2017). Fruit preferential activity of tomato RIP1 gene promoter in transgenic tomato and *Arabidopsis*. *Mol. Gen. Genomics*, 292, 145-156.
- Baranwal, V.K. & Khurana, P. (2017). Genome-wide structural, functional and evolutionary analysis of Membrane Intrinsic Proteins of *Morus notabilis* and their expression dynamics in different species. *Plant Physiol. & Biochem.*, 111, 304-317.
- Jha, S.K., Malik, S., Sharma, M., Pandey, A. & Pandey, G.K. (2017). Recent advances in substrate identification of protein kinases in plants and their role in stress management. *Current Genomics*, 18: 000-000.

Pandey, A., Yadav, V., Sharma, A., Khurana, J.P. & Pandey, G.K. (2017). The unc-53 gene negatively regulates rac GTPases to inhibit unc-5 activity during Distal tip cell migrations in *C. elegans*. *Cell Adh. Migr.* 5:0, doi:10.1080/19336918.2017.1345413

Parida, A.P., Sharma, A. & Sharma, A.K. (2017). AtMBD6, a methyl CpG binding domain protein, maintains gene silencing in Arabidopsis by interacting with RNA binding proteins. *J. Biosci.* 42, 57-68.

Ranjan, R., Khurana, R., Malik, N., Badoni, S., Parida, S.K., Kapoor, S. & Tyagi, A.K. (2017). bHLH142 regulates various metabolic pathway-related genes to affect pollen development and anther dehiscence in rice. *Scientific Reports*, 7, 43397. doi:10.1038/srep43397

Rao, G.S., Tyagi, A.K. & Rao, K.V. (2017). Development of an inducible male-sterility system in rice through pollen-specific expression of L-ornithinase (argE) gene of *E. coli*. *Plant Science*, 256, 139-147.

Saeed, B. & Khurana, P. (2017). Transcriptional activation activity of ERD15 protein from *Morus indica*. *Plant Physiol. & Biochem.* 111, 174-178.

Sanyal, S.K., Kanwar, P., Yadav, A.K., Sharma, C., Kumar, A. & Pandey, G.K. (2017). *Arabidopsis* CBL interacting protein kinase 3 interacts with ABR1, an APETALA2 domain transcription factor, to regulate ABA responses. *Plant Science*, 254, 48-59.

Singh, A. & Pandey, G.K. (2017). How phospholipase C regulates stress tolerance and development in plants? *J. Cell Signal*, 1, 132.

Singh, S., Viridi, A.S., Jaswal, R., Chawla, M., Kapoor, S., Mohapatra, S.B., Manoj, N., Pareek, A., Kumar, S. & Singh, P. (2017). A temperature-responsive gene in sorghum encodes a glycine-rich protein that interacts with calmodulin. *Biochimie*, 137, 115-123. doi: 10.1016/j.biochi.2017.03.010

Zhang, D., Huang, Y., Kumar, M., Wan, Q., Xu, Z., Shao, H.B. & Pandey, G.K. (2017). Heterologous expression of GmSIP1; 3 from soybean in tobacco showed growth retardation and tolerance to hydrogen peroxide. *Plant Science*, 263, 210-218.

Zhang, D.Y., Kumar, M., Xu, L., Wan, Q., Huang, Y.H., Xu, Z.L., He, X.L., Ma, J.B., Pandey, G.K. & Shao, H.B. (2017). Genome-wide identification of Major Intrinsic Proteins in Glycine soja and characterization of GmTIP2;1 function under salt and water stress. *Scientific Reports*, 23;7(1), 4106.

Edited Book :

Pandey, G.K. (2017). *Mechanism of hormone signaling under stress*, Wiley-Blackwell, USA, ISBN13: 9781118888964

Pandey, G.K., Prasad, M., Pandey, A., Böhmer, M. (Eds.). (2016). *Abiotic stress signaling in plants: Functional genomic intervention*. Lausanne: Frontiers Media. doi:10.3389/978-2-88919-891-7

Book Chapter:

Sanyal, S.K., Rao, S., Mishra, L., Sharma, M. & Pandey, G.K. (2016). Plant stress responses mediated by CBL-CIPK phosphorylation network. *Enzymes*, 40, 31-64.

Goyal, I., Rana, S., Khungar, L., Shimphrui, R. & Grover, A. (2017). Breeding for high temperature resistance in rice plants by transgenic approach. In K Muralidhar and EA Siddiq (Eds.), *Dialogue on Modern Breeding Strategies for Crop Improvement*, Society for Advancement of Rice Research, DRR, Hyderabad, In Press.

## Research Projects

Prof. Akhilesh K. Tyagi, J.C.Bose fellowship, DST, 2007-2017, Rs. 1,21,10,000.

DBT, *Functional characterization of genetic and epigenetic regulatory networks involved in the reproductive development in rice*, 2015 – 2020, Prof A.K. Tyagi, Rs. 9,87,42,000.

DBT, *Regulation of ripening in tomato by manipulation of epigenome*, 2016-2021, Prof. Arun K. Sharma, Rs. 91,74,000.

DBT-NOW, Indo-Dutch Collaborative Project *Characterization of Molecular Components Involved in Pollen Abortion during High Temperature Stress*, 2015 - 2019, Prof. Sanjay Kapoor, Rs. 1,50,07,000.

## Patent Filed / Granted

Patent no. 278167, Title *A DNA construct for gene silencing in rice*.

### **Seminars Organised**

Paramjit Khurana Organized the National Academy of Sciences, India (NASI)AWARD LECTURES, at Biotech Building, UDSC, New Delhi, Nov. 25, 2016.

Paramjit Khurana Organized NASI-BHU Teachers Training Workshop *Dawn of Genomics Era in Plant Sciences*, at Institute of Science, BHU, 10-11 Feb., 2017.

### **Conferences Organised**

Organized UGC-SAP Workshop on *Roadmap for Future Research in Biological Sciences*, at University of Delhi, South Campus, March 24, 2017.

Prof. Indranil Dasgupta organized the 8<sup>th</sup> International Geminivirus Symposium and the 6<sup>th</sup> International ssDNA Comparative Virology Workshop, 7-10 Nov., 2016, funded partially by the Science and Engineering Research Board, DST, Indian National Science Academy, New Delhi and Council of Scientific and Industrial Research, New Delhi.

### **Seminar / Conference Presentation**

Paramjit Khurana, Lecture, *World of Biotechnology*, The Developing Countries Research Centre, University of Delhi, July 13, 2016.

Paramjit Khurana, Plenary Talk, 24<sup>th</sup> International Congress on Sericulture and Silk Industry, Queen Sirikit National Convention Center, Thailand, 10-14 Aug., 2016.

Paramjit Khurana, Invited Lecture, *Orphan crops; changing the genomic landscape*, Academic Staff College refresher course in Life Sciences and Biotechnology on Model organisms and topics in Biology JNU, New Delhi, Oct. 14, 2016.

Paramjit Khurana, Invited Talk, *Science, Technology and Entrepreneurship for Human Welfare in the Himalayan Region*, 86<sup>th</sup> Annual Session of the National Academy of Sciences, India (NASI) Symposium, UCOST, Dehradun, 2-4 Dec., 2016.

Paramjit Khurana, Invited Lecture, *The Mulberry Genomics Landscape*, the International Conference on Genomics & N Translational Research in Crop Improvement, CCSU, Meerut, Dec. 15, 2016.

Paramjit Khurana, Invited Lecture, *Grant Writing and Research Proposals*, Centre for Science Education and Communication Training programme in Science Communication, Delhi University, Delhi, Dec. 20, 2016.

Paramjit Khurana, Inaugural Lecture, *Prospecting for Research Proposals*, DS Kothari Centre for Research and Innovation in Science education, Miranda House, University of Delhi, DBT Star College Scheme Symposium on Art of Grant Writing, Jan. 5, 2017.

Paramjit Khurana, Keynote Address, *Technological Empowerment of Women*, NASI Sensitization Workshop, Sri Padmavati Mahila Visva Vidyalayam, Tirupati, 15-16 Feb., 2017.

Paramjit Khurana, Invited Lecture, *The Mulberry Genomics Landscape: Discoveries to Applications and Beyond!*, 21 days training program on Advanced Omics - Techniques and Tools for Crop Improvement, Department of Biochemistry, IARI, New Delhi, March 18, 2017.

Anil Grover, Talk at Goethe University, Germany, Sept. 2016.

Anil Grover, Chaired a workshop session and presented talk at InterDrought Conference, Hyderabad, Feb. 2017.

Anil Grover, Talk at Bose Institute, West Bengal, February 2017.

Indranil Dasgupta, Invited Talk, *Exploring the interactions between rice and the viruses causing the tungro disease* and co-chaired a session in VIROCON 2016 Conference and International Conference on Global Perspectives in Virus Disease Management, ICAR-Indian Institute of Horticultural Research, Bengaluru, Dec. 8, 2016.

Sanjay Kapoor, *A Quest for Regulators of Reproductive Development in Rice*. In, Insights to Plant Biology in the Modern Era, Centenary celebrations, Bose Institute Kolkata, 8-10 Feb., 2017.

Girdhar K. Pandey, *From genomic to functional genomic of plant protein phosphatases in abiotic stress*. International Conference of Plant Genetic and Genomics (AgriGenomic India), Chandigarh, July 20, 2017

Girdhar K. Pandey, *What we are learning from the functional genomics of abiotic stress? Rice protein phosphatases*. Salt-Soil Agricultural Center, Institute of Agricultural Resources and Environment Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu, China, July 11, 2017.

Girdhar K. Pandey, *Calcium mediated signaling in plants: Interplay of kinases and phosphatases during K<sup>+</sup> deprivation stress*. School of Plant Sciences & Food Security Faculty of Life Sciences, Tel Aviv University, Israel, May 25, 2017.

Girdhar K. Pandey, *How oxidative stress responses are regulated in Arabidopsis? Story of a Ca<sup>2+</sup> modulated kinase and mitochondrial gatekeeper module*. International Symposium on Plant Biotechnology for Crop Improvement, IIT-Guwahati, Assam, 20-21 Jan., 2017.

Girdhar K. Pandey, *How a Ca<sup>2+</sup> regulated kinase modulate oxidative stress responses in Arabidopsis? Role of CIPK-VDAC module*. Shanghai Center for Plant Stress Biology, Shanghai Institute of Biological Sciences, Shanghai, China, Jan. 13, 2017.

Girdhar K. Pandey, *New insights of oxidative stress responses in Plant: Story of a Ca<sup>2+</sup> modulated kinase and mitochondrial gatekeeper module*. Jiangsu Academy of Agricultural Sciences, Nanjing, Jiangsu, China, Jan. 11, 2017.

Girdhar K. Pandey, *Role of calcium mediated CBL-CIPK module in regulation of ABA responses in plants*. BioSpark-2017, School of Life Sciences, Jawaharlal Nehru University, New Delhi, March 2017.

Girdhar K. Pandey, *How calcium mediated signaling regulate ABA responses in Arabidopsis? Role of CBL9-CIPK3-ABR1 module*. 85th Annual meeting of Society of Biological Chemist of India, , CSIR-CFTRI, Mysuru, Nov. 22, 2016.

Girdhar K. Pandey, *Regulation of mineral nutrient deficiency and biotic stress responses by non-symbiotic hemoglobins*. *Molecular Biology of Stress Responses in Photoautotrophs* Indira Gandhi National Tribal University, Amarkantak, MP, November 14, 2016.

Girdhar K. Pandey, *What we are learning from Functional Genomics of Stress Signaling in plants?* 2<sup>nd</sup> Refresher Course in Life Sciences & Biotechnology at HRDC, JNU, New Delhi, Oct. 25, 2016.

Girdhar K. Pandey, *K<sup>+</sup> Sensing and Signaling in Plants: Role of Phosphorylation-dephosphorylation Switch*. BioEpoch-2016, School of Biotechnology, Jawaharlal Nehru University, New Delhi, March 15, 2016.

Girdhar K. Pandey, *Genomics to functional genomics of stress signaling in plants*. Hindustan College of Science and Technology, Farha, Mathura, UP, Feb. 1, 2016.

Saurabh Raghuvanshi, *Semantic Digitization of Experimental Data in Biological Sciences*, International Conference on Biological Ontology and BioCreative, Oregon State University, Corvallis, Oregon, USA, 1-4 Aug., 2016.

### **Students under Exchange Programme**

Outbound: Ph.D. student, Ms. Madhvi Naresh participated in an exchange programme funded by Erasmus Mundus Fund from European Union, Brussels and visited University of Helsinki, Finland for a period of three months from January to March, 2017.

Inbound: Mr. Jackson Venusto Modi Lado From Ethiopia, a CV Raman (DST) fellow will join the lab of Prof. Sanjay Kapoor for a six-month exchange programme from Sept., 2017.

### **M. Phil, / Ph.D. Awarded**

Ph.D. – 6

### **Faculty Strength**

Permanent – 11

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## FACULTY OF LAW

### Major Activities and Achievements

The three Law Centres of the Faculty of Law have seen a positive surge of academic events and activities in 2016-2017. The details of events and activities of the three Law Centres are given in the independent reports of the centres. The main activities of the Faculty of Law for the academic session 2016-17 include Workshop on *Restorative Justice* by international experts; International Conference on *Socio-Economic Justice after Seventy Years of India's Independence: Domestic and Global Challenges*; Seven-day Faculty Development Programme; Seminar on *Rape Laws: Myths in India and England* by Prof. Ravinder Barn; National Panel Discussion on *Restitution of Conjugal Rights* in collaboration with National Commission for Women; and Signing of MOU with College of Law and Business, Ramat-Gan, Israel.

### Seminars Organised

Dr. Terry O'Connell, Director of Restorative Justice Programme, Australia & Mr. Jean Schmitz, Instructor, International Institute of Restorative Practice, Peru *The Interactive Workshop on Response to Crime, Criminal and Victim: The Restorative Justice Approach*, Sept. 1, 2016.

Prof. Ravinder Barn, Professor of Social Policy, School of Law, Royal Holloway, University of London *Seminar on Rape Myths in India and England*, Feb. 21, 2017.

### Conferences Organised

International Conference, *Socio-Economic Justice after Seventy Years of India's Independence: Domestic and Global Challenges*, funded by University of Delhi, Convenors: Prof. Ved Kumari, Dr. Mahavir Singh, Dr. Anupam Jha, Dr. Gunjan Gupta, Mr. Chanchal Kumar, 18-20 Nov., 2016.

One Day Panel Discussion, *Review of Restitution of Conjugal Rights in India*, Organized by Faculty of Law in collaboration with National Commission for Women, March 25, 2017.

### National / International MOUs

Faculty of Law, University of Delhi entered into an MOU with College of Law and Business, Ramat-Gan, Israel, for faculty and students exchange for three years.

### M.Phil / Ph.D. Awarded

Ph.D. – 9

### Faculty Strength

Permanent – 35

Ad-hoc – 81

Guest Faculty –21

### Other Significant Information

The Faculty of Law conducted a seven-day intensive *Faculty Development Programme* from 14-20 March, 2017. The programme was a great success with the contribution of legal luminaries and 41 enthusiastic participants.

Law Faculty Library, University of Delhi organized a *Book Exhibition* to assist the faculty members and other scholars to select and recommended quality books for the Library, 3-4 March, 2017.

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## CAMPUS LAW CENTRE

### Major Activities and Achievements

Campus Law Centre (CLC) has consistently been ranked among the top law schools in India, and the 2016 India Today-Nielsen Survey ranks CLC Second in the country. CLC organized K.K. Luthra Memorial Moot Court Competition in Jan. 2017, wherein, sixty teams including international teams from USA, UK and Sri Lanka participated. Regular outreach and awareness programmes were held by the Legal Aid Society. The Seminars,



Debates and Discussions Society of CLC organized regular weekly presentations to promote the culture of debate and discussion. Various workshops and talks by eminent international and national scholars were organized to give exposure to students. The Journal of the Campus Law Centre and Annual Report of CLC *Kaleidoscope* are published annually. Students of CLC have won accolades in various moot court and mediation competitions. Many students have secured admissions for higher studies in various foreign universities.

### **Honours / Distinctions**

CLC has been ranked Second by India Today-Nielsen Survey of 2016.

Prof. (Dr.) Usha Tandon:

Member, Editorial Board, Private and Property Law International Journal, Nigeria.

Member, Editorial Board, US-China Law Review.

Prof. S.C. Raina (on leave) is the Vice Chancellor, Himachal Pradesh National Law University.

Prof. J.L. Kaul (on leave) is the Vice Chancellor, H.N.B Garhwal (Central University), Uttarakhand.

Prof. Kamala Sankaran (on leave) is the Vice Chancellor, Tamil Nadu National Law School.

### **Publications**

Gupta, G. (2016). Territorial jurisdiction under Section 138 of the Negotiable Instrument Act: Dashrath Rupsingh Rathod Case – A critique . *Vivekananda Journal of Research*, 5(1), 143-165.

Mittal, R. (2016). Trademark transactions in India. In Irene Calboli and Jacques de Werra (Eds.), *Research Handbook on Trademark Transactions*, 558-586. UK: Edward Elgar.

Mittal, R. (2017), Mechanisms to make end-users of copyrighted works pay through levy and DRM. In Kung-Chung Liu and Reto M. Hilty (Eds.), *Remuneration of Copyright Owners: Regulatory Challenges of New Business Models*, 115-140. Germany: Springer.

Tandon, U. & Luthra, S. (Eds.), (2016). *Human Rights Trafficking of Women and Children-Legal and Policy Framework*, Allahabad, Uttar Pradesh: Central Law Publications.

Tandon, U. (Ed.) (2016). *Climate Change: Law, Policy and Governance*, Lucknow, Uttar Pradesh: Eastern Book Company.

Tandon, U. & Luthra, S. (2016). Rape - Violation of the chastity or dignity of woman: A feminist critique of Indian Law, *TOEAP, Torkel Opsahl Academic Epubliser FICHL Policy Brief Series No. 51*. <http://www.toaep.org/pbs-pdf/51-tandon-luthra>

Tandon, U. (2016). Empowerment of women and gender equity, *National Journal of Comparative Law* 3(1), 16- 21.

### **Seminars Organised**

Prof. Upendra Baxi and Prof. Mahendra Pal Singh, Annual Orientation Programme on Sept. 16, 2016.

Dr. Rajesh Singh, Deputy Librarian, Central Library, University of Delhi and Deputy Librarian, Campus Law Centre, *E-Resources and Other Resources available in the Delhi University Library System*, Oct. 5, 2016.

Dr. Harsh Pathak, Advocate, Supreme Court of India *Government and Business Interface: A Lawyer's Perspective*, Oct. 25, 2016.

Ms. Monika Arora, Advocate Supreme Court of India, Advocate Umesh Sharma and Col. Dipanshu Chaudhury, Limca Book record holder, *Nationalism: Our Identity to celebrate Republic Day*, Jan. 26, 2017.

Ms. Kirti Singh, Advocate, Supreme Court of India and Former Member (Part-time), Law Commission of India, *Women's Unequal Status in Family laws in India Today*, IV Prof. Lotika Sarkar Memorial Lecture on March 4, 2017, presided by Prof. Kumud Sharma, Honorary Chairperson, Centre for Women's Development Studies (CWDS), held in collaboration with the CWDS.

Mr. Ranji Thomas, Sr. Advocate, Supreme Court of India and Ms. Asmita Basu, Legal Researcher & Consultant in Gender and Human Rights, as Discussants in *Hiral P. Harsora v. Kusum Narottamdas Harsora* . March 8, 2017, Organizing committee: Seminars, Debates and Discussions Society, CLC.

Ms. Marlene Oliver, Member, Environment Court, New Zealand, *The Role of Environmental Court in Protecting Environment in New Zealand* . March 27, 2017.

Sh. Navjeet Budhiraja, Secretary, Central District Legal Services Authority, *Rights of Prisoners*, Feb. 17, 2017.

## Conferences Organised

*The Pre-Conception and Pre- Natal Diagnostic Techniques Act, 1994 (PCPNDT Act)*, Ms. Indu Malhotra, Sr. Advocate, Supreme Court of India, Ms. Anushree Bernard, Advocate & Campaign Co-coordinator of the Vanishing Girls Campaign, Dr. Satayjit Kumar, CMO, Delhi PCPNDT Cell, Ms. Tehmina Arora, Advocate & Consultant for the Alliance Defending Freedom, Mr. Robin David, Partner, Dua Associates as Resource Persons and moderated by Prof. (Dr.) Usha Tandon, funded by Vanishing Girls Campaign, March 25, 2017.

*Para Legal Volunteer Training (PLV)*, Hon'ble Ms. Justice Indira Banerjee Judge, Delhi High Court and Executive Chairperson of Delhi state Legal Services Authority (Chief Guest), Organising Committee: Legal Aid Society of Campus Law Centre, University of Delhi with Delhi State Legal Services Authority.

Campus Law Centre is one of the co-organisers in a conference on *Quality Control in Preliminary Examination: Reviewing Impact, Policies and Practices*, organized by the Centre for International Law Research and Policy held in Peace Palace, The Hague.

## Seminar / Conference Presentation

Alka Chawla, Talk, Round Table, *Online Education and Bridging the Skill Gap: Way to Professional Success*, organized by Manupatra Information Solution Pvt. Ltd. Delhi, June 6, 2016.

Alka Chawla, *Plagiarism and Copyright Infringement: Research and Teaching, Evolution of Education System in Bharat*, Orientation Programme for University Teachers (OR-84) organized by CPDHE in association with UGC, June 15, 2016.

Alka Chawla, *Scope of Rights and Enforcement, Socio Economic Impact of Illicit Trade*, Capacity Building Programme for IRS Probationers, National Academy of Customs, Excise and Narcotics, July 15, 2016.

Alka Chawla, *Legal Provisions relating to Offences & Penalties for Counterfeiting and Smuggling*, Capacity Building Programme for Delhi Police lecture delivered to police officers at the Academy for Smart Policing, Chanakyapuri, Delhi, July 22, 2016.

Alka Chawla, Talk, *Copyright: Concept, Legal Framework and Importance, Copyright Piracy and Infringement*, at Training the Trainers, IPR Workshop organized by MHRD IPR Chair, University of Delhi and Ramjas College, Aug. 10, 2016.

Alka Chawla, *Due Process of Law: Principles of Natural Justice*, Seminar on From Judging to Justicing, at Delhi Judicial Academy, Nov. 5, 2016.

Alka Chawla, presented paper on Open Innovation and IPR Issues, Strategizing IP in National Conference on IPR, organized by University of Delhi in collaboration with PHD Chambers of Commerce, Dec. 16, 2016.

Raman Mittal, presented paper, *Contract, Royalties and Copyright in Digital Regime*, Seminar on Changing Landscape of Scholarly Writings and Publications organized by National Law University, Delhi, 24-25 March, 2017.

Raman Mittal, presented paper, *Intellectual Property/Contract Interface*, Fifth Annual IP Teaching Workshop, NLU Delhi, April 1, 2016.

Raman Mittal, presented paper, *Copyright Protection: Emerging Issues in Digital Environment*, WIPO Summer School organised by World Intellectual Property Organisation at ISIL, New Delhi, April 18, 2016.

Raman Mittal, presented paper, *IPR Jurisprudence*, organised by NCU Law School, The Northcap University, Gurgaon, April 26, 2016.

Raman Mittal, presented paper, *Commercialization and Monetization of IPR: Technology Transfer – Regulatory Issues*, organized by Indian Institute of Corporate Affairs, May 23, 2016.

Raman Mittal, presented papers, *IPR Jurisprudence in the Present Day Adjudication and Intellectual Property: International and Transnational Dimensions*, Orientation Programme on Intellectual Property Rights and Enforcement for the Judicial Officers of DJS, Delhi Judicial Academy, May 27, 2016.

Raman Mittal presented paper, *Digital Challenges to IPRs*, 15th Summer Course on International Law organized by the Indian Society of International Law, June 3, 2016.

Raman Mittal, presented paper, *Trade Marks*, Capacity Development Programme for Corporate Laws organized by National Law University, Delhi, June 16, 2016.

Raman Mittal, presented paper, *Cyber Jurisprudence*, Refresher Course on Law and Social Transformation organized by Bhagat Phool Singh Mahila Vishwavidyalaya, Sonapat, July 15, 2016.

Raman Mittal, presented paper, *A Flash on Intellectual Property Rights*, Refresher Course on Law and Social Transformation organized by Bhagat Phool Singh Mahila Vishwavidyalaya, Sonapat, July 15, 2016.

Raman Mittal, presented paper, *Brand Commercialization Through Licensing*, Brand Management, Valuation and Protection, organised at India Habitat Centre, New Delhi, Nov. 8, 2016.

Raman Mittal, presented paper, *Monetizing Intellectual Property – Licensing Agreements: Brand Commercialization Through Licensing*, National Conference On Intellectual Property Rights, organised by PHD Chambers and University of Delhi at PHD House, New Delhi, 16-17 Dec., 2016.

Raman Mittal, presented paper, *Intellectual Property Rights*, DU Administrative Officers Training Programme, University of Delhi, Delhi, Jan. 16, 2017.

Raman Mittal, presented paper, *Contract Law: General Principles and Management* DU Administrative Officers Training Programme, University of Delhi, Delhi, Jan.13, 2017.

Raman Mittal, presented paper, *Cyber Crimes and Civil Wrongs*, Bureau of Parliamentary Studies and Training, New Delhi, March 2, 2017.

Usha Tandon, Expert for the telecast of a programme on *Rights of Married Women in Father's Property* on DD News, April 21, 2016.

Usha Tandon, Chaired and moderated discussion, *National Consultation on UPR III* organized by Ministry of External Affairs, at NLU Delhi, April 29, 2016.

Usha Tandon, Spoke on *Educating Men to Understand Gender Protective Laws And Helping Them Overcome The Myth of Men's Vulnerabilities Within the Legal Framework*, Conference on Engaging Men and Boys in Fight Against Violence, India Habitat Centre, organized by Centre for Social Research, New Delhi, in collaboration with Asia Foundation, Aug. 10, 2016.

Usha Tandon, Lecture, *An Overview of Environmental Laws and Policies in India*, National Workshop on Environmental Law: Contemporary Issues and Challenges, organized by Indian Law Institute, Feb.6, 2017.

Usha Tandon, Lecture, *Judicial Interpretation of Protection of Women From Domestic Violence Act, 2005*, Vivekananda Law School, VIPS, Feb. 13, 2017.

Usha Tandon, Spoke on *Shri Anandamurtiji's views on Social Justice with special reference to Women*, Seminar organized by Dept. of Philosophy, DU and Renaissance Universal Delhi on Social and Ethical Philosophy of Shri Shri Anandmurthyji, Philosophy Dept., on Feb. 17, 2017.

Usha Tandon, Distinguished Guest of Honour, Seminar, *Family Law: Contemporary Issues and Challenges*, organised by Banaras Hindu University, Varanasi, 25-26 Feb., 2017.

Usha Tandon, Author's Talk, *Gender Justice: Reality or Fragile Myth and Human Rights: Trafficking of Women and Children*, Book Exhibition organized by Faculty of Law, University of Delhi, March 3, 2017.

Usha Tandon, Chaired and moderated a Panel Discussion, *Hiral P. Harsora v. Kusum Narottamdas Harsora*, (2016) 10 SCC 165, organised by Campus Law Centre, University of Delhi, on March 8, 2017.

Usha Tandon, Spoke on *Review of Restitution of Conjugal Rights in India*, organized by Faculty of Law, University of Delhi in collaboration with National Commission of India, at ISIL, Delhi, March 28, 2017.

Usha Tandon, Presidential Address, Workshop on PCPNDT Act, 1994 and its Implementation, organized by Campus Law Centre, University on Delhi, March 28, 2017.

Usha Tandon, Guest of Honour *Health Laws: Issues and Challenges* at CPJ College of Higher Studies and School of Law, Delhi, (Affiliated to Guru Gobind Singh Indraprastha University) March 30, 2017.

Ms. Neha, Panelist, *A Panel Discussion on Review of Laws Related to Restitution of Conjugal Rights in India*, organized by Faculty of Law in collaboration with National Commission for Women, March 25, 2017.

### **Inter-Institutional Collaboration**

Various events were organised in collaboration with DSLSA (Delhi State Legal Services Authority).

### **Students under Exchange Programme**

Four students from Europe were enrolled on casual affiliation at Campus Law Centre for the Academic year 2016-17.

## Placement Details

Students Placed –15 (Various recruitments for the Academic Year 2016-2017 are still under process).

Companies visiting campus for Placement – 8

## Extension and Outreach Activities

Legal Aid Society, CLC organized a Legal Awareness drive at Mukherjee Nagar, on Oct. 7, 2016.

Legal Aid Society, CLC and Delhi State Legal Service Authorities organized Mass Legal Literacy Programme at various Government Schools in Delhi amongst students in the age group of 15-18, and Ld. Judicial Officers, Lawyers of Bar, Panel Advocates, Advocates, Educators, Legal Academicians, Child Psychologists and Para Legal Volunteers visited from 17 to 27 Oct., 2017 with an aim to create awareness.

Team Tarkash, Legal Aid Society won the second prize for their play, *Kyun hain hum khaamosh?*, in the *Nukkad Natak* Competition organized by Delhi State Legal Services Authority (DSLISA) in Select City Walk Mall, Saket on Oct. 1, 2016, to highlight variety of legal issues.

The play, *Kyun hain hum khaamosh?* was performed in the annual sports event and prize distribution ceremony at Juvenile Justice Board -III, Sewa Kutir Complex, Kingsway Camp, New Delhi under the aegis of East Delhi Legal Services Authority, 14-16 Nov., 2016.

A two-day *Door to Door Mass Campaign* was organized by DSLISA in collaboration with Legal Aid Society, CLC on 2nd and 3rd Nov., 2016. The para legal volunteers informed the targeted population living in Delhi Slums about the Legal Services Authorities Act 1987, the criteria for availing free legal services; and also distributed pamphlets.

Students of Campus Law Centre participated in constituting help desks outside banks with west DSLISA in the wake of demonetization on 28 and 29 Nov., 2016.

Students from the Campus Law Centre, along with transgenders working with the NGO Basera, were roped in by the Delhi State Legal Services Authority (DSLISA) to conduct a traffic rules awareness campaign across the city with banners and literature on Oct. 25, 2016.

A help desk was set up in the World Book Fair at Pragati Maidan from 7-15, Jan., 2017 where an Advocate and PLVs from Legal Aid Society of Campus Law Centre assisted the people and created legal awareness.

Legal Aid Society, Campus Law Centre, Faculty of Law organized a Legal Awareness drive at Pampari Road Bhamashah Marg, Cigarette-wala Bagh, near Police Ground, Model Town on Feb. 4, 2017.

Legal Aid Society of Campus Law Centre organized a court visit to Karkardooma Court on 8th Feb., 2017, National Lok Adalat on 11 Feb., 2017, Tihar Jail on Feb. 22, 2017, Institute of Human Behaviour and Allied Sciences (IHBAS), on March 7, 2017.

Delhi State Legal Service Authority with support of Para Legal Volunteers of Legal Aid Society, Campus Law Centre organized a Zonal Level Committee which comprised of Senior Engineer, Junior Engineer, Social Activist, DSLISA Panel Advocate and one Para legal Volunteer for inspection of Night Shelter homes in Delhi established in different districts in Delhi every week.

## Faculty Strength

Permanent – 10 (3 on leave.)

Ad hoc – 28

Guest – 07

## Other Significant Information

International Academy of Family Lawyers (IAFL) introduced a Studentship Programme for students of Campus Law Centre and one student has been offered internship abroad under this programme.

The 13<sup>th</sup> edition of K. K. Luthra Memorial Moot Court Competition was inaugurated by the Hon'ble Mr. Justice Amitava Roy, Judge, Supreme Court of India. The Valedictory Ceremony was graced by Hon'ble Mr. Justice Arjan Kumar Sikri, Judge, Supreme Court of India, Hon'ble Mr. Justice Ajay Kumar Tripathi, Judge High Court of Patna, Hon'ble Mr. Justice V. Kameshwar Rao, Judge, High Court of Delhi and Hon'ble Mr. Justice R.K. Gauba, Judge, High Court of Delhi.

Sh. Arif Mohammed Khan, Dr. Surat Singh and Dr. Chandra Rajan judged the annual debate competition 'Confero' on *Customs and Cultural Identity as Impediments to Legal Reforms*, March 29, 2017.

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## LAW CENTRE I

### Major Activities and Achievements

Law Centre I is the largest Centre of the University in terms of faculty strength and student intake. To bridge the theory-practice gap in legal studies, the Centre launched the *LC-1 Entrepreneurial Law Clinic*, a first of its kind, legal clinic in the Faculty of Law on Feb. 16, 2017. The Centre's Mooters' Society successfully organized XIII LC-I – NCR Moot Court Competition, which saw enthusiastic responses from various teams from the NCR. Hon'ble Justice Indira Banerjee and Hon'ble Justice Geeta Mittal of the Delhi High Court delivered special motivational speeches to the students, teachers and guests. The Centre's Legal Services Society conducted various Legal Aid and Awareness Programmes, organised Mass Legal Literacy Campaigns throughout the year.

### Publications

Bharti, S. (2016). Legal protection of fashion design in apparels in India: A dilemma under the Copyright and design Law. *The Delhi University Journal of Humanities and Social Science*, 3, 139-154. Retrieved from [http://journals.du.ac.in/humsoc/pdf/Bharti\\_Final\\_9.pdf](http://journals.du.ac.in/humsoc/pdf/Bharti_Final_9.pdf).

Bharti, S. (2016). Possibility of prosecuting pregnant women for foetal abuse. In Seema Parihar & Geeta Singh (Eds.), *Gender and Space, Multidisciplinary Insights*, pp. 87-100 Delhi: CPDHE, DU.

Dass, P. (2017). Reproduction Right in digital medium and free use for educational purpose - An analysis of national and international obligations of India to provide education to all vis-à-vis protecting Copyright. In M.K. Sinha & V. Mahalwar (Eds.), *Copyright in Digital World*, pp.109-132. Singapore: Springer Publications.

Kumari, V. (2017). *Juvenile Justice (Care and Protection of Children) Act 2015: Critical analysis*. New Delhi: Universal Law Publishing – An Imprint of LexisNexis.

Misra, S. (2017). Changing methods of use of force and challenges to traditional concept of self-defence – A contemporary reflection. In Ashish Kumar (Ed.), *Contemporary Developments in International Law – Some Random Reflections* pp. 1-20. New Delhi: Satyam Law International.

Pankaja, P.B. (2016). Legislative reasoning – A study with reference to Hindu Marriage Act 1955. *International Journal of Research in Humanities, Arts and Literature*, 4 (9), 33-42.

Pankaja, P.B. (2016). Revana Siddhappa & anr v. Mallikarjun & ors – A case comment. *Euro Asia: International Journal of Research in Economics & Social Sciences*, 6(8), 45-52.

Pankaja, P.B. (2016). Writing for academic excellence: How to start and finish a legal research paper – A few guidelines. In Manoj Kumar Sinha & Deepa Kharb (Eds.), *Legal Research Methodology* pp. 233-244. New Delhi: Lexis Nexis & ILI Publication.

Ratnabali, K. & Jha, U.C. (2017). *The Law of armed conflict: An introduction*. 2<sup>nd</sup> Revised Edn. New Delhi: Vij Books India Pvt. Ltd.

Relan, M., Arora. (2017). Uniform Civil Code: A delayed agenda. In Vijender Kumar, Naresh Kumar Vats & Vijay Pratap Tiwari (Eds.), *Law, Judiciary and Governance - A Festschrift in Honour of Prof. Mool Chand Sharma*, pp.343-361. New Delhi: Universal Law Publishing.

Sharma, A. (2016). Social dimensions of domestic violence against women. *The Delhi University Journal of the Humanities and the Social Sciences*, 3, 185-208. Retrieved from [http://journals.du.ac.in/humsoc/pdf/Sharma\\_Final\\_12.pdf](http://journals.du.ac.in/humsoc/pdf/Sharma_Final_12.pdf)

Sharma, A. (2017). Judiciary and good governance: The recent trends in India. In Vijender Kumar, Naresh Kumar Vats & Vijay Pratap Tiwari (Eds.), *Law, Judiciary and Governance- A Festschrift in Honour of Prof. Mool Chand Sharma*, pp. 127-144. New Delhi: Universal Law Publishing.

Sharma, A. (2016). Making of a Law: The Domestic Violence Act. In Geeta Singh & Seema Parihar (Eds.), *Gender and Space, Multidisciplinary Insights*, pp.71-86. New Delhi: New Delhi Publishers.

### Research Projects

R & D Project funded by University of Delhi, *Intrusion into Women Privacy and Committed Cyber-Crimes – An Analysis of Legal Position in India*, Dr. Poonam Dass, Rs.1,00,000/-

R & D Project funded by University of Delhi, *Liability for Medical Negligence under Civil Law – Recent Trends*, Dr. Sarbjit Kaur, Rs. 1,50,000/-

R & D funded by University of Delhi, *Enforcement of Copyright Law in India*, Dr. Siddharth Misra, Rs. 1,00,000/-

### **Seminars / Workshops Organised**

Two-day seminar, *Women Related Laws* funded by NCW. Speakers included Hon'ble Justice Gita Mittal, Hon'ble (former) Justice Manju Goel of the Delhi High Court & Prof. Ved Kumari, Dean, Faculty of Law. 16-17 Sept., 2016.

Two-day seminar on Women Related Laws (second series) funded by NCW. Speakers included Hon'ble Justice Deepa Sharma, Hon'ble Justice Indira Banerjee, of the Delhi High Court & Prof. Ved Kumari, Dean, Faculty of Law. 3-4 Feb., 2017.

First ever Seminar on *Sports Law*, March 7, 2017.

Seminar *Women Empowerment: Rhetoric Versus Reality*, Prof. Mohan Gopal, Director, Rajiv Gandhi Institute for Contemporary Studies & Prof. Manjula Batra, Former Dean, Faculty of Law, Jamia Milia Islamia, March 8, 2017.

Seminar, *Freedom of Speech under Constitution of India*, Mr. Subramanian Swamy, M.P. Rajya Sabha, Hon'ble Justice Iqbal Ahmed Ansari, Ex Chief Justice, Patna High Court & Prof. Ved Kumari, Dean, Faculty of Law, DU, March 10, 2017.

LC-I in collaboration with UNICEF organized Restorative Justice Training Workshop at the Conference Hall of University of Delhi, 5-6 Sept., 2016.

Workshops series on Applied Criminal Law:

First workshop, *Bail and Anticipatory Bail*. Feb. 4, 2017.

Second workshop, *Criminal Writs and Petition under section 482 Cr.PC.*, Feb. 25, 2017.

Third workshop, *Leading Evidence and Cross examination in Criminal Cases*, March 18, 2017.

Workshop, *Advanced Intellectual Property Rights* in collaboration with Technology, Information Forecasting and Assessment Council (TIFAC). Key speakers included Ms. Pratibha M. Singh, Sr Advocate, Supreme Court of India, Dr. K.S. Kardam, Sr Joint Controller, Patent & Design, IPO & Mr. G.R. Raghavender, Joint Secretary, Ministry of Law and Justice, Govt. of India, Umang Bhawan, LC-I, Faculty of Law, DU, Feb. 16, 2017.

Workshop, *Best Professional Practices*, Mr Arnold Harvey, Advocate, Supreme Court of India & Mr Rajiv Mehta, CEO of GrowIndia.com, a Leading Recruitment Agency, March 9, 2017.

### **Seminar / Conference Presentation**

Alok Sharma, presented paper, *Surrogacy in India: The Legal Developments*, National Symposium on Surrogacy – The Nest Intruded, organized by Human Rights Defense (International), Indian Law Institute, May 14, 2016.

Alok Sharma, presented paper, *The Consumer Protection Bill, 2015: A Better Protection for Consumers*, National Seminar on Consumer Welfare: Issues, Challenges and Opportunities, jointly organized by MMH College and Indian Council of Social Science Research, MMH College, Ghaziabad, 16-17 Dec., 2016.

Alok Sharma, talk, *Property Rights of Hindu Women*, National Seminar on Efficacy of Laws Pertaining to Property and Marital Rights of Women from Different Religions, jointly organized by Chetana Delhi and National Commission of Women, Govt. of India at Indian Society of International Law, New Delhi, Feb. 25, 2017.

Alok Sharma, presented paper, *Women and Domestic Violence*, Legal Awareness Programme on Women Related Laws, organized by Law Centre I, Faculty of Law, University of Delhi in collaboration with National Commission of Women, Govt. of India, 3-4 Feb., 2017.

Awekta Verma, presented paper, *Offences against Marriage in India*, Legal Awareness Programme on Women Related Laws, organised by LC-1, Faculty of Law in collaboration with National Commission for Women, Sept. 17, 2016.

K. Ratnabali, talk, *An Introduction to the Act, Statutes and Ordinances of the University*, Four weeks Training Programme for Assistant Registrars/Administrative Officers of the University and its Colleges, held at Conference Centre of the University of Delhi on Jan. 12, 2017.

P.B. Pankaja, presented paper, *Women's Right to Property – Legal Entitlements and Social Barriers*, Seminar on Legal Awareness on Women Related Laws, organised by LC-1, Faculty of Law (sponsored by NCW), Sept. 16, 2016.

Sarbjit Kaur, presented paper, *Liability for Medical Negligence under Law of Torts: Changing Judicial Trends*, National Seminar on Law and Medicine organized by Dr. B.R. Ambedkar Chair, Centre for Human Rights and Social Justice, Dept. of Law, University of Kerala, Kerala, 16-17 Dec., 2016.

Sunanda Bharti, presented paper, *Contours of the Limits to State Intervention: Some Ideas*, First NLU Jodhpur-Centre for Legal Theory Round Table Colloquium on the theme-Should State Enforce Morality?, organized at NLU Jodhpur, April 1, 2016.

Sunanda Bharti, presented paper, *Freedom of Speech in Advertising*, in the CLEA Regional Conference (in collaboration with Law Commission of India) on Freedom of Speech and Expression at Llyods Law College, Greater Noida, Nov. 5, 2016.

Ved Kumari, Resource Person, SAARC Conference organized by Indian Institute of Legal Studies, Darjeeling, West Bengal, 25-26 Feb., 2017.

Ved Kumari, Resource Person, Teaching, Learning Methodology Workshop at Tamil Nadu National Law School, Tiruchirapalli, Tamil Nadu, 10-11 Feb., 2017.

Ved Kumari, Resource Person in Legal Awareness Programme on Women Related Laws, organised by LC-1, Faculty of Law (sponsored by NCW), 3-4 Feb., 2017.

Ved Kumari, Resource Person in National Conference on Child Protection and Child Victims, organized at High Court of Madras, 20-22 Jan., 2017.

Ved Kumari, Resource Person in Workshop on Humanitarian Laws for Judicial Officers organized by International Committee of the Red Cross with Assam Judicial Academy, Guwahati, 27-28 Aug., 2016.

Ved Kumari, Resource Person in the Refresher Training Programme on the Powers and Responsibility of Principal Magistrates, Juvenile Justice Board under Juvenile Justice and Child Psychology, organized by Jharkhand Judicial Academy, Ranchi, June 18, 2016.

Ved Kumari, Resource Person in the Orientation Programme on the new Juvenile Justice Act organized by UP State Commission for Protection of Child Rights with support of National Commission for Protection of Child Rights in collaboration with UNICEF at Lucknow, May 20, 2016.

Ved Kumari, Resource Person in the One Day Workshop for Judicial Officers on Juvenile Justice (Care and Protection of Children) Act 2015, organized by the Institute of Law, Nirma University, Ahmedabad, May 1, 2016.

### **Placement Details**

Students Placed: 6 out of 29 placed (20.6%).

Companies visiting Campus –TRS Law Firm; BSA Law Firm; Manupatra Online; Managium Juris Law Firm

### **Extension and Outreach Activities**

Legal Services Society of Law Centre-I has around 200 dedicated students of law who actively participate in promoting legal awareness among the masses. The society functions independently and also in collaboration with DSLSA (Delhi State Legal Services Authority). Some of the important extension and outreach activities during April 1, 2016 to March 31, 2017 include the following:

Mass Legal Literacy Campaign on prevention of sexual abuse, domestic violence and protection of juvenile rights, organized at different localities of Delhi, 19-25 Oct., 2016.

Traffic Rules and Road Safety Awareness Campaign across Delhi was organized with the help of Delhi Traffic Police, and in collaboration with an NGO BASERA, Oct.25, 2016 till Dec. 7, 2017.

Mass door to door legal awareness campaign was organized in conjunction with the Delhi State Legal Service Authority, in different localities of Delhi on 2-3 Nov., 2016.

An outreach programme offering assistance and information to needy people on right to legal aid was organized at Malka Gunj, North Delhi, Nov. 20, 2016.

The Skit and Play Committee of Legal Services Society organized a skit and street play at Tihar Jail for building awareness among prisoners about their rights and remedies under law, on Nov. 25, 2016.

Para Legal Volunteers (PLVs) from Legal Services Society participated in Lok Adalat organized at Saket District Court. They assisted in proceedings of the Lok Adalat, by answering queries of needy citizens in respect of bill payments, miscellaneous forms and procedure of the Lok Adalat on Dec. 10, 2016.

PLVs participated in Lok Adalat organized at Karkardooma Court Complex. They rendered assistance to needy visitors educating them about the benefits of e- payments, e-wallets, and online transactions, including the use of popular phone apps, such as, Pay TM and BHIM, 9-10 Jan., 2017.

The Society in collaboration DLSA organized a Registration and Digital Literacy Camp at Malkaganj, North Delhi. PLVs answered queries of the needy citizens about the important government documents such as PAN, Aadhar, and Voter ID Cards, apart from informing them about the use and benefits of digital payments, e-wallets and online transactions, taking note of the government's Digital India initiative. 10-11 Jan., 2017

Conducted Mega Community Outreach programme in collaboration with DLSA in the slum communities of Zakhira, West Delhi on Feb. 12, 2017; and at Reshma Camp, Kirti Nagar on March 26, 2017.

### **Faculty Strength**

Permanent – 15

Ad hoc – 30

Guest – 10

### **Other Significant Information**

The Centre in association with Ministry of Parliamentary Affairs, Govt. of India, organized the 13<sup>th</sup> Youth Parliament Competition at Umang Bhawan, LC-I, Faculty of Law, DU, Sept. 24, 2016.

The Centre with the active help of its Sports Committee organized an event on Self Defense Techniques for Women at Umang Bhawan, LC-I, Faculty of Law, DU on March 24, 2017.

Inauguration of LC-I Entrepreneurial Law Clinic, Feb. 16, 2017

The new website of LC-I has been launched.

XIII LC I – NCR Moot Court Competition was inaugurated by Hon'ble Vice Chancellor, Prof. Yogesh Tyagi along with Chief Guest Hon'ble Justice A.K. Patnaik, Judge (Retd.), Supreme Court of India.

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## **LAW CENTRE-II**

### **Major Activities and Achievements**

Law Centre-II conducted Orientation Programme, sent Para-legal volunteers on a Parliamentary visit, organized a National Level Moot Court Competition. It also sent 100 students for participation in International Conference of National Green Tribunal in March, 2017 at Vigyan Bhawan. 25 students participated in National Conference on Bonded Labor organized by NHRC on 24 & 25 Feb., 2017 at Teen Murti Bhawan. Our students participated and secured positions in various moot court competitions, viz. Winner of Delhi NCR Moot Competition 2017 organised by Law Centre-1, University of Delhi; Runner's Up in SGT-Inba National Moot Court Competition-2017 and Best Advocate award in Geeta Institute of Law 7th National Moot Court Competition - 2017.

### **Honours / Distinctions**

Dr. Vageshwari, appointed as Treasurer in the All India Law Teachers Congress Association.

### **Publications**

Abbi, R. (2017). *Indo China Relations*. Delhi: The Reader's Paradise.

Abbi, R. (2017). *United Nations Organization: Its role in development of third world countries*. Delhi: The Reader's Paradise.

Ahuja, V.K. (2017). Marrakesh Treaty to facilitate access to published works for visually disabled: Putting an end to global book famine. In Manoj Kumar Sinha and Vandana Mahalwar (Eds.), *Copyright Law in the Digital World: Challenges and Opportunities*. pp. 97-107. Delhi: Springer and ILL.

Ahuja, V.K. (2017). Right to Education in view of Copyright Protection: Contemporary developments. In T.S.N. Sastry & Durgambini Patel, *Law, Development and Justice*. pp. 223-235. Maharashtra: Pune University.

Ahuja, V.K., Archa, V. (2017) Right to health in India: An analysis of constitutional, human rights and IPR provisions. In Vijender Kumar, et.al. *Law, Judiciary and Governance*. pp. 291-305. Delhi: Universal Lexis Nexis.



- Deswal, V. (2016). Responsibility of legal educators to inculcate sense of Justice among law students. In Dr. Badruddin and Dr. AS Dalal (Eds.) *Legal Education in India and Career in Law*. pp. 9-14. Haryana: MD University.
- Deswal, V. (2016). Female Prostitution and the Law, Module 19, *Women and Law*, Paper 7 for Women Studies, E-pathshala, UGC (NMEICT mission of MHRD), Govt. of India <http://epgp.inflibnet.ac.in/ahl.php?csrno=456>
- Jha, A. (2016). What Fukushima effect on India's Science, Technology (Nuclear Energy) and environmental governance? In Richard Hindmarsh & Rebecca Priestley (Eds.), *The Fukushima Effect: National Histories, Representations and Debates*, pp. 101-120. London & New York: Routledge.
- Mehlawat, S. (2016) Revisiting the no-responsibility for climate change under common but differentiated Responsibility. In Prof. Usha Tandon (Ed.), *Climate Change: Law, Policy and Governance*. pp. 31-45. Delhi: Eastern Book Company.

### **Research Projects**

E-Pathshala (2014-17) for UGC course, Gender Studies on the paper *Women and the Law*. Dr. Kiran Gupta and Dr. Vageshwari Deswal.

### **Seminars Organised**

- Seminar on 125<sup>th</sup> Birth Anniversary of Dr. BR Ambedkar at Vice Regal Lodge, DU, Convenor: Dr. Mahavir Singh, April 14, 2016.
- Five Criminal Law Workshops (one day each) in collaboration with ADYOPANT LEGAL, Organizing committee: Dr. Kiran Gupta and Dr. Vageshwari Deswal, Jan-April 2017.
- National level Workshop on *Restitution of Conjugal Rights* as part of Project awarded to DU by National Commission of Women, Convenor: Dr. Pinki Sharma, March 25, 2017.

### **Conferences Organized**

International Conference, *Socio Economic Justice after seventy years of India's Independence: Domestic and Global Challenges*, Convenors: Dr. Mahavir Singh and Dr. Anupam Jha, 18-20 Nov., 2016.

### **Seminar / Conference Presentations**

- Anupam Jha, presented paper, *Paris Agreement and India: Dalliance or serious alliance*, 45th Annual Conference, Indian Society of International Law, New Delhi, May 7, 2016.
- Anupam Jha, Lecture, *State Succession and State Recognition*, Summer Course, Indian Society of International Law, New Delhi, June 2, 2016.
- Anupam Jha, Lecture, *Extra Judicial Executions and Enforced Disappearances*, at NLU Delhi, Dwarka, New Delhi, April 28, 2016.
- Kiran Gupta, Lecture, *Bharat mai Chunnay: Hindi ki Bhumika aur Chumaav Sudhaar*, Seminar organized by Vidhi Bharti Parishad, March 9, 2017.
- Kiran Gupta, Resource Person, Conference on *Tortious Liability in reference to Motor Accidents: Tort of Negligence in MACT*, at Delhi Judicial Academy, Feb. 18, 2017.
- Kiran Gupta, Resource Person, Workshop on *Muslim Personal Law*, organized by Delhi State Legal Services Authority, Feb. 4, 2017.
- Kiran Gupta, Resource Person, Lecture, *Family Laws in Sri Lanka and India: A Comparative Study*, in Training Programme for Judicial Officers from Sri Lanka, at Delhi Judicial Academy, Dec. 12, 2016.
- Kiran Gupta, Resource Person, *Medical and Consumer Protection*, organized by IIPA on July 27, 2016, Aug. 31, 2016, Nov. 9, 2016, Feb. 8, 2017, Feb. 15, 2017, March 21, 2017 and March 22, 2017.
- Kiran Gupta, Lecture, *Liability of Administration in Tort*, 42<sup>nd</sup> Advanced Professional Programme in Public Administration organized by IIPA, Aug. 31, 2016.
- Kiran Gupta, Lecture, *Issues relating to Inheritance, Matrimonial Property and Maintenance*, at Delhi Judicial Academy, Sept. 16, 2016.

Kiran Gupta, Lecture, *Accountability of Governmental Bodies in Torts*, training programme on Higher Administration & Legal Matters for EEs (Civil & Electrical) of CPWD sponsored by the Central Public Works Dept., Government of India organized by Institute of Public Administration (IIPA), New Delhi, June 21, 2016.

Kiran Gupta, Lectures, *Maintenance and Inheritance Laws and their Interpretations* and *Crime against Women and Women Protecting Laws*, Training programme, Enhancing Professional Competencies of Law Officers (Additional, Assistant and Deputy Advocate General) of the State Government at HIPA, June 18, 2016.

Kiran Gupta, Lectures, *Tortious Liability: An Overview and Government Liability under Torts*, Foundation Course for ITS & BWS Group-A Officers sponsored by National Telecommunication Institute for Policy Research, Innovation & Training, Ministry of Technology, Govt. of India, May 27, 2016.

Kiran Gupta, Lecture, *Medical Negligence and Consumer*, 19<sup>th</sup> Training of Trainers Programme for the Faculty Members of Training Institutions on Consumer Welfare sponsored by the Dept. of Consumer Affairs, Ministry of Consumer Affairs, Food and Public Distribution.

Shabnam Mahlawat, presented paper *Human Rights and Confessions in Police custody*, International Conference of Jurists, Mumbai, March 26, 2017.

Shabnam Mahlawat, Presented paper, *Defamation and Freedom of Press* at the International Conference of Jurists, Mumbai, March 26, 2017.

Shabnam Mahlawat, Special lecture, *Depilation of the Ozone layer*, at Indian Law Institute, New Delhi, Feb. 8, 2017.

Shabnam Mahlawat, Presented paper, *Legitimacy under the Indian Evidence Act*, National Seminar on Socio-legal implications of Live-in relationships, Faculty of Law, Baba Mast Nath University, Rohtak, Sept. 20, 2016.

Shabnam Mahlawat, Twenty lectures on *Environmental and Consumer Awareness*, at Mukti Polytechnic College, Gohana, Haryana, Sept. 2016 and Jan. 2017.

Vageshwari Deswal, presented paper, *Sexual harassment at Workplace in Haryana*, National Conference on Gender and Society organised by CRS Institute of Social and Economic Change, MDU, Rohtak, Dec. 6, 2016.

Vageshwari Deswal, Presented paper, *Rape in case of Live-in-relationships*, National Seminar on Socio-legal implications of Live-in relationships, Faculty of Law, Baba Mast Nath University, Rohtak, Sept. 20, 2016.

Vageshwari Deswal, Presented paper, *Gender Discrimination at Workplace- A Grim Reality*, National Seminar on Corporate Sector in India: Socio-legal issues and Challenges organized by UILMS, Gurgaon, April 27, 2016.

Vageshwari Deswal, Special lecture, *NALSA Scheme for Acid Attack Victims*, at Seminar Organised by DSLSA Ajmer and MDS University, Ajmer, March 2017.

Vageshwari Deswal, Special lecture, *Gender Justice*, during UGC sponsored Refresher course at BPSW University, Khanpur, July 27, 2016.

Vageshwari Deswal, Two lectures, *Roles and Responsibilities of Executive Magistrates*, HCS officers, HIPA, Gurgaon, 9 & 16 Dec., 2016.

Vageshwari Deswal, Invited speaker, subject expert on Lok Sabha Television on *Sexual Harassment of Women and the Law*, in the programme *Faisley*, Jan. 6, 2017.

Vageshwari Deswal, Invited speaker, subject expert, *Law relating to Contempt of Courts in India*, in the programme *Insight*, Feb. 15, 2017

Vageshwari Deswal, Invited speaker, subject expert, *Religion and politics*, in the programme *Faisley*, Jan. 13, 2017.

V.K. Ahuja, Lecture, *Draft Articles of ILC on State Responsibility: Obstacles for its Implementation*, National Seminar on Expanding Horizons of International Law organized by Dept. of Law, Savitribai Phule Pune University, Pune, Sept. 24, 2016.

V.K. Ahuja, Lecture, *Access to Published works for Visually Disabled Persons*, National Workshop on Understanding the Copyright and Related Rights, organized by Indian Law Institute, Nov. 24, 2016.

V.K. Ahuja, Special Lecture, *Geographical Indications*, at Indian Law Institute, New Delhi, April 19, 2016.

V.K. Ahuja, Special Lecture, *Non-Traditional Trade Marks*, at M.P. Law College, Aurangabad, Jan. 27, 2017.

V.K. Ahuja, Special Lecture, *State Responsibility*, at M.P. Law College, Aurangabad, Jan. 28, 2017.

V.K. Ahuja, Special Lecture, *Law of the Sea: An Overview*, at M.P. Law College, Aurangabad, Jan. 28, 2017.

V.K. Ahuja, Lecture, *Right to Health in India*, UGC Refresher Course, Himachal Pradesh University, June 25, 2016.

V.K. Ahuja, Lecture, *Marrakesh Treaty: Ensuring Right of Education*, at VIPS in UGC Refresher Course at Himachal Pradesh University, June 25, 2016.

### **Extension and Outreach Activities**

Legal Aid Society, Law Centre- II and DSLSA organized Mass Legal Literacy Camp at various Government Schools in Delhi amongst students in the age group of 15-18. Ld. Judicial Officers, Lawyers of Bar, Panel Advocates, Advocates, Educators, Legal Academicians, Child Psychologists and Para Legal Volunteers visited from 17-27 Oct., 2017 with an aim to create awareness.

Legal Aid Camp was successfully organized by our PLVs in association with other students of Law Centre-II at Burari, under the patronage of Delhi State Legal Service Authorities, Oct. 31, 2016.

Two days, door to door, Mass Campaign was organized by DSLSA in collaboration with Legal Aid Society, in North East District in which students of Law Centre –II participated in various awareness activities at Bhajanpura and *Nukkad Nataks* were performed at Gokulpuri, 2-3 Nov., 2016.

Legal Aid Camp was successfully organized by Law Centre-II Para Legal Volunteer (PLVs) in association with other students of Law Centre-II at Lado Sarai (near Mehrauli), Nov. 6, 2016.

Para Legal Volunteer (PLVs) Training was organized by DSLSA in collaboration with Legal Aid Society in which 173 students participated and successfully completed, 15-16 Nov., 2016.

Essay Competition was organized at the instance of Legal Services Clinic of Law Centre-II on the topic Effect of Demonetization on Indian Economy, Feb. 1, 2017.

Digital India Campaign at Gopalpur and Princess Park was organized in pursuant to initiation of campaign by our Government for cashless transactions, after demonetization. Legal Services Clinic apprised them of importance of cashless transactions and mode of conducting the same, 7-8 Feb. 2017.

Legal Aid Camp was successfully organized by our PLVs in association with other students of Law Centre-II at Zakir Nagar (near Mehrauli), under the patronage of South East DLSA, Feb. 19, 2017.

DSLSA with PLVs of Legal Aid Society organized visit of 50 PLVs/students from Law Centre-II to Central Jail no. 1, 3 & 7, which enlightened the prisoners about important aspect of Criminal Law, March 3, 2017.

Legal Aid Society organized a *Nukkad Natak* at Sarojini Nagar market to raise awareness, March 15, 2017.

### **Faculty Strength**

Permanent – 9

Ad hoc – 21

Guest – 7

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## **FACULTY OF MANAGEMENT STUDIES**

### **Major Activities and Achievements**

Established in 1954 as a part of the Department of Economics, the Faculty of Management Studies (FMS), became a full-fledged faculty thereafter and was the maiden institute in the country to start a formal Degree Programme in Management Education. Commencing with MBA (Full-Time), its flagship programme in 1967, FMS has been consistently ranked as one of the top five Business Schools in the country. Currently, FMS offers – MBA Executive, MBA Executive (Health Care Administration) and Ph.D. in Management.

Faculty members here are keenly involved in publishing research papers, books, cases; attending international and national conferences and organizing Management Development Programmes for varied organizations with some receiving honors and awards during the period under review.

The students' body, Management Science Association, has been actively organizing guest lectures, academic workshops, seminars, colloquia, and sports competitions for management students from different B-Schools within the country. FMS students also won numerous national and international B-School competitions in academics, business plans as well as case studies organized by other institutions and the corporate sector.

## Publications

- Bardhan, A.K., & Pattnaik, S. (2017). Effect of cross-functional integration between operations and marketing on negative critical incidents, *Total Quality Management & Business Excellence*, 28(11-12), 1357-1377.
- Kaur, H., & Kaur, S. (2017). Climate change, agricultural production and food Security: Econometric evidence for India. *Journal of Business Thought*, 7(April 2016-March 2017), 44-67.
- Kaur, S., & Kaur, H. (2016). Change, food security and water management in South Asia: Implications for regional cooperation. *Emerging Economy Studies*, 2(Issue 1), 1-18.
- Kaur, S. & Malik, S. (2017). *Demonetization: Master Googly or No Ball*. Opinion Article (Op-ed) in Financial Express. Retrieved from <http://www.financialexpress.com/opinion/demonetisation-why-narendra-modis-note-ban-move-was-necessary/507513/>, <http://epaper.financialexpress.com/1070701/Indian-Express/Jan.-14,-2017#page/9/1>
- Nagpal, S. & Gupta, G. (2016). Sustainability through going green: An empirical study of service firms. *Effulgence*, 14(2), 37-48.
- Narain & Rani, A. (2017). The stability of Indian stock market after demonetization. *Business Analyst*, 37(2), 39-56.
- Narain, N., N.K., & Pandey, P. (2016). Behaviour and determinants of implied volatility in Indian market. *Journal of Advances in Management Research*, 13(3), 271-291.
- Rani, A., Narain, & Dhawan, S. (2016). Determinants of leverage decision of Indian firms: An empirical study. *Business Analyst*, 37(1), 19-30.
- Sajeev, A. & Kaur, S. (2017). Examining the fuel-finance nexus in a macroeconomic framework: econometric evidence from India. *South Asian Journal of Socio-Political Studies (SAJOSPS)*, 17(2), (Jan.-June 2017), 87-97.
- Sharma, A.K., Bardhan, A., Goel, V., Sridhar, S., Arora, S., & Ahmad, J. (2016). An integrated approach to understanding the determinants of home births in a resource poor setting. *Indian Journal of Hygiene and Public Health*, 2(1), 11-28.
- Verma, A. & Gupta, G. (2016). Predisposition towards foreign brands and materialism: A quantitative. *Journal of Asia Business Studies*, 11(Issue 1), Special Issue: Branding of Emerging Nations: A Multidisciplinary Perspective, (pre-print version retrieved from, <http://www.emeraldinsight.com/action/showPublications?pubType=journal>)

## Research Projects

*Green Marketing Practices: A Study of Select Firms in Manufacturing Sector*, 2015-16, R&D Grant, Research Council, University of Delhi, Rs. 60,000/-

## Seminar Organized

Bardhan, A.K., Sharma, A., and Kumar, K., *Healthcare Facility Location Model based on Choice Behaviour of Catchment Population*, INFORMS Annual Meeting, in Nashville, Tennessee, U.S.A. (Also Chaired a technical session, Health Care, Public I), 13-16 Nov., 2016.

## Seminar / Conference Presentation

International:

Simrit Kaur, invited by Centre for Policy Dialogue (CPD) Bangladesh to speak as Distinguished Speaker on *Reducing Inequality in South Asia: Critical Issues and Policy Choices* at the Ninth South Asia Economic Summit (SAES IX) in Dhaka, Bangladesh, 15-16 Oct., 2016. The overarching theme of SAES IX was Reimagining South Asia in 2030. (Speaker also converted the talk in a paper which is yet to be published.)

Simrit Kaur, presented paper, *Addressing Financial Challenges of Public Private Partnerships in Infrastructure in Developing Asia*, World Finance Conference 2016, at St. John's University (Manhattan Campus), United States, 29-31 July, 2016.

Bardhan, A.K., Sharma, A., and Kumar, K., Chaired a technical session, Health Care, Public I, INFORMS Annual Meeting, Nashville, Tennessee, U.S.A., 13-16 Nov., 2016.

National:

Simrit Kaur, Speaker, *Institutional Challenges of Big Data*, Conference Doing Business Abroad, organized by Indian Institute of Management, Ahmedabad, March 23, 2017.

Simrit Kaur, Presented paper, *Economics of Mergers and Acquisitions in India's Drugs and Pharmaceutical Industry: Implications for Competition Policy*, National Conference, Economics of Competition Law, held at India Habitat Centre, New Delhi, 2-3 March, 2017.

Simrit Kaur, Panelist, spoke on *Frontiers of Anti-Trust Economics: Digital Markets and Data Driven Innovation*, National Conference, Economics of Competition Law, India Habitat Centre, New Delhi, 2-3 March, 2017.

Simrit Kaur, Invited as Distinguished Faculty, spoke on *The Impact of Economic Reforms on the Productivity and Competitiveness of SOEs*, addressed Executives from Central Public Sector Enterprises at APSE Training Centre, SCOPE Minar, Delhi, 20-25 March, 2017.

Simrit Kaur, Invited as speaker, *Demonetization in India as well as Role of PSUs in the Era of Liberalization*, by SCOPE, Executive Development Programme for Airports Authority of India, held at Aviation Academy, Gurgaon Road, New Delhi, Feb. 27, 2017.

Simrit Kaur, Invited Panelist, *Demonetization*, by Sri Guru Gobind Singh College of Commerce, Feb. 15, 2017.

Simrit Kaur, Invited to speak on *Economy Today*, Live Programme by Doordarshan. Online at <https://youtu.be/09OUcx-DkDQ>, and <https://www.youtube.com/watch?v=09OUcx-DkDQ&index=56&list=UUKwucPzHZ7zCUIf7If-Wo1g>. The discussion was aired on Jan. 27, 2017.

Simrit Kaur, Invited as guest faculty to speak on *Privatization of SOEs in the context of New Economic Reforms*, Executive Development Programme organized by SCOPE Academy of Public Sector Enterprises (SCOPE-APSE) at APSE Training Centre, SCOPE Minar, Delhi, Nov. 28- Dec. 3, 2016.

Simrit Kaur, Invited as guest faculty to speak on *Future of PSUs in the context of New Economic Reforms*, Executive Development Programme organized by SCOPE Academy of Public Sector Enterprises (SCOPE-APSE) at APSE Training Centre, SCOPE Minar, Delhi, July 27, 2016.

Jain, S.K., Gupta, G., & Jain, S., *Influence of Retail Store Characteristics and Service Quality on Customer Satisfaction and Shopping Behaviour: A SEM Analysis*, Indian Retail Conference on Indian Retail: Will it strive or thrive? Ambedkar University, 26-27 Feb., 2016.

Nagpal, S. & Gupta, G., *Green Marketing Practices and Financial Sustainability: An Assessment of Select Service Firms*, International Conference, Sustainable Business Models: Innovative Strategies and Practices, Shyam Lal College, University of Delhi, 16-17 March, 2016.

Verma, A. & Gupta, G., *Purchase Preference for Foreign Brand Names: Insights from an Exploratory Study*, Conference on Brand Management (CBM2016), IIT-Delhi, 16-17 April 2016.

Gupta, G. *Green P's and Sustainability: Performance Assessment of Manufacturing Firms*, 5<sup>th</sup> Annual International Commerce Conference, Startup to Sustainability: Initiatives and Challenges, Dept. of Commerce, University of Delhi, New Delhi, 4-5 Nov.2016.

Gupta, G. *Sustainable Tourism: Understanding the Awareness and Pro-Environment Behaviour of Tourists*, National Conference, Emerging Issues in Marketing and HR in Current Corporate Scenario, Deen Dayal Upadhyay College, University of Delhi, Nov. 8, 2016.

Gupta, G. *Green Marketing Mix: Mantra for Sustainability*, National Conference on Emerging Issues in Marketing and HR in Current Corporate Scenario, Deen Dayal Upadhyay College, University of Delhi, Nov. 8, 2016.

### **National / International MoUs**

National MoU-CAT-2016

### **Placement Details**

Students placed – 418 / 100%

Companies visiting campus for recruitment – 130

### **M.Phil / Ph.D. Awarded**

Ph.D. – 16

### **Faculty Strength – 26**

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## FACULTY OF MATHEMATICAL SCIENCES

### COMPUTER SCIENCE

#### Major Activities and Achievements

The Department is running two post graduate Degree Programmes – MCA & M.Sc. Computer Science. The Department started three year Master of Computer Applications (MCA) programme in the year 1982 & M.Sc. Computer Science course in the year 2004 with the aim to develop core competence in Computer Science and prepare the students to carry out development work, as well as take up challenges in research.

Research: Besides these the Department has strong research interests in diverse branches of Computer Science (Artificial Intelligence, Parallel Computing, Databases, Data Mining, Software Engineering, Computer Graphics, Networking, Web Technologies, Information Security, Algorithms and Bioinformatics) and offers a Doctor of Philosophy (Ph.D.) Programme aimed at producing quality researchers. At present the department has about 53 Ph.D. students and six have been awarded degrees in the year 2016-17. 15 MSc research projects were undertaken, some of which are in various stages of publications.

Placements: Reputed software companies like Amazon, Blackrock, National Instruments, Direct, SumoLogic, Morgan Stanley, Nagarro, Thorogood, Accolite, Aristocrat participated in campus placement process. Minimum and maximum salary packages were Rs. 3.5 LPA and Rs. 16 LPA.

Student Activities: Eleventh edition of the Annual Technical Fest “SANKALAN” Organised by the students of the Department of Computer Science. The festival was attended by 400 students of Computer Science from colleges all over India.

#### Publications

##### Journal Articles:

Jindal, V., Bedi, P. (2017). Reducing waiting time with parallel preemptive algorithm in VANETs. *Vehicular Communications, Elsevier*, 7, 58-65. . (Impact Factor: 5.108)

Jindal, V., Bedi, P. (2017). Preemptive MACO (MACO-P) Algorithm for Reducing Travel Time in VANETs. *Applied Artificial Intelligence*, Taylor and Francis 31(2), 174-196. (Impact Factor: 0.652).

Sharma, C., Bedi, P. (2017). CCFRS - Community based collaborative filtering recommender system, ISTA 2016, *Journal of Intelligent and Fuzzy Systems*, 32(4), 2987-2995. IOS Press, Netherlands (Impact Factor: 1.261).

Gautam, A., Bedi, P. (2017). ISTA 2016, Developing content-based recommender system using hadoop map Reduce. *Journal of Intelligent and Fuzzy Systems*, 32(4), 2997-3008. IOS Press, Netherlands (Impact Factor: 1.261).

Vasishth, P., Bedi, P. (2017). A fuzzy hybrid recommender system, *Journal of Intelligent and Fuzzy Systems*, 1-16. IOS Press. (Impact Factor : 1.261).

Jindal, V. Bedi, P. (2016). High performance adaptive traffic control for efficient response in vehicular ad hoc networks. *International Journal of Computational Science and Engineering*, InderScience Publishers (In Press).

Bedi, P., Agarwal, S., Singh, R. (2016). Trust and reputation based multi-agent recommender system. *International Journal of Computational Science and Engineering*, InderScience Publishers (In Press).

Chawla, S., Srivastava, S., & Bedi, P. (2016). Goals and scenarios based web requirements engineering. *Computer Systems Science and Engineering*, 31(1), 33-51.

Jindal, V., Bedi, P. (2016). Vehicular ad-hoc networks- Introduction, standards, routing protocols and challenges. *International Journal of Computer Science Issues (IJCSI)*, 13(2), 44-55. ISSN: 1694-0814.

Jindal, V., Bedi, P.. (2016). Reducing travel time in VANETs using MACO with CUDA on GPU. *Journal of Network and Innovative Computing (JNIC)*. 4(1), 200-208. ISSN: 2160-2174.

Sharma, N. K., Gaur, V., Bedi, P. (2016). Safeguarding buyers with attack-resilient reputation parameters. *Journal of Theoretical and Applied Electronic Commerce Research (JTAER)*, 11(1), 46-66. ISSN 0718-1876.

Bedi, P., Sharma, C. (2016). Community detection in social networks. *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery*, 6 (3), 115-135. (Impact factor 2.111).

Bhatnagar, V., Kaur, S., Saxena, R., Khanna, D. (2017), Dasc: Data aware algorithm for scalable clustering. *Knowledge And Information Systems*, 50 (3), 851-881 (If: 2.004)

Bhardwaj, M., Bhatnagar, V., Sharma, K. (2016), Cost-effectiveness of classification ensembles. *Pattern Recognition* 57, 84-96, (If: 4.582)

#### Conference Publications:

Bedi, P., Richa, Agarwal, S. K., and Bhasin, V. (2016). ELM Based imputation-boosted proactive recommender systems. In Proceedings ICACCI 2016 - International Conference on *Advances in Computing, Communications and Informatics* , Jaipur, India, Sept. 21-24, 2016: 80-85. USA: IEEE Xplore.

Gautam, A., Chaudhary, P., Sindhwani, K., and Bedi, P. (2016). CBCARS: Content boosted context-aware recommendations using tensor factorization. In proceedings ICACCI 2016 - International Conference on *Advances in Computing, Communications and Informatics* , Jaipur, India, Sept. 21-24, 2016: 86-92. USA: IEEE Xplore.

Singhal, A., Bedi, P. (2016). Local binary pattern operator based steganography in wavelet domain. In proceedings ICACCI 2016 - International Conference on *Advances in Computing, Communications and Informatics*, Jaipur, India, Sept. 21-24, 2016: 831-836. USA: IEEE Xplore.

Jindal, V., Sharma, V., and Bedi, P. (2016). A preemptive hybrid ant particle optimization (HAPO-P) algorithm for smart transportation. In proceedings ICACCI 2016 - International Conference on *Advances in Computing, Communications and Informatics* , Jaipur, India, Sept. 21-24, 2016: 1362-1368. USA: IEEE Xplore.

Richa and Bedi, P. (2016). Parallel context aware recommender system using GPU and Jcuda, In proceedings ICACCI 2016 - International Conference on *Advances in Computing, Communications and Informatics*, Jaipur, India, Sept. 21-24, 2016: 1388-1394. USA: IEEE Xplore.

Bedi, P., Bhasin, V., and Yadav, T. (2016). 2L-DWTS - Steganography technique based on second level DWT, In proceedings ICACCI 2016 - International Conference on *Advances in Computing, Communications and Informatics*, Jaipur, India, Sept. 21-24, 2016: 1548-1553. USA: IEEE Xplore.

Saxena, R., Kaur, S., Bhatnagar, V. (2017), Leveraging hierarchy and community structure for determining influencers in networks. In Proceedings of DaWaK 2017.

Saxena, R., Kaur, S., Dash, D., Bhatnagar, V. (2016) Leveraging hierarchy for scalable network comparison. In Proceedings of DEXA 2016, pp 287-302.

#### Research Projects

UGC; 2013- 2017; *Trustworthy Pro-active Recommender System*; Rs.13,38,800/-

DST (DU-DST PURSE grant); 2014- 2018; *Soft Computing Approach to Multi-Criteria Optimization Models for Component Selection in Designing Fault Tolerant Software Systems*; Rs.6,12,000/-

#### Seminars / Conference Organised

Professor Muhammad Abulaish, Department of Computer Science, Jamia Millia Islamia, Talk, Fusing Content and Structural Information for a Deeper Insight.

#### National / International MoUs

With Indian/Foreign Universities

International Collaboration:

University of Aizu, Japan

Epitech, European Institute of Information Technology (Le Kremlin Bicetre, France)

### **Inter-Institutional Collaboration**

With Indian Research Organization, DRDO

### **Placement Details**

Students Placed – 63 students placed from MCA & M.Sc. Computer Science

Companies visiting campus for recruitment – 25

### **Ph.D. / M.Phil. Awarded**

Ph.D. – 6

### **Faculty Strength**

Permanent – 6

Ad-hoc – 6

### **Other Significant Information**

Students of the Department of Computer Science launched the Sixth edition of the magazine ‘SRIJAN’ both online and in print in the 12th year of Sankalan.

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## **MATHEMATICS**

### **Major Activities and Achievements**

Department offers M.A./M.Sc. programme and M.Phil/Ph.D. programme in Mathematics. The Department is supported by UGC-DSA II, DST-PURSE and DST-FIST grants. Department was ranked 301-400 in QS World University Rankings 2016. The faculty members have more than 50 publications in journals of international repute during 2016-17. Few faculty members are associated with professional societies and grant agencies. Several faculty has been on Advisory committee of Special Assistance Programme of UGC of different universities; and experts on several committees of UGC, DST and CSIR. Apart from regular teaching and research, the Department organises regular seminars, workshops and seminars. During 2015-16, the department Organised National Conference on Algebra, Analysis, Coding and Cryptography in honour of Prof. Bal Kishan Dass on the occasion of his retirement during Oct. 14-15, 2016. Nineteen students were placed, through campus interviews coordinated by Ananya, the Placement Cell of the department, with the average annual package of 6.26 Lakhs..

### **Honours / Distinctions**

Prof. Ajay Kumar, Dean Research (PS & MS), DU (upto Dec 2016); and University Representative on the General Council of Netaji Subash Institute of Technology, 2017-2020.

Prof. V. Ravichandran was appointed as Adjunct Professor at Department of Mathematics under Faculty of Sciences, Shri Mata Vaishno Devi University, J&K for two years from Aug. 2016; and Chairman of the Governing Body, SPM College, Delhi.

### **Publications**

Alarifi, N. M., Ali, R. M., Ravichandran, V. (2017). On the second Hankel determinant for the  $k$ th-root transform of analytic functions. *Filomat*, 31(2), 227-245.



- Ambethkar, V., Kumar M., Srivastava, M. K. (2016). Numerical solutions of 2-D unsteady incompressible flow in a driven square cavity using stream function-Vorticity formulation. *International Journal of Applied Mathematics*, 29 (6), 727-757.
- Bansal, A., Kumar, A. (2016). Heisenberg uncertainty inequality for Gabor transform. *J. Math. Inequal.*, 10(3), 737-749.
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- Chhabra, A., Dass, B. K., Mehta, S. (2016). Multi-stage optional unrelated question RRT model. *J. Stat. Theory Appl.*, 15(1), 80-95.
- Cho, N., Jain, N. K. Ravichandran, V. (2017). Convex combination of analytic functions. *Open Math.*, 15, 331-339.
- Das, P. K., Vashisht, L. K. (2016). On perturbation of binary linear codes, *Math. Appl.(Brno)*, 4(2), 91-99.
- Das, P. K., Vashisht, L. K. (2016). Error locating codes by using blockwise-tensor product of blockwise detecting/correcting codes. *Khayyam J. Math.*, 2(1), 6-17.
- Das, R., Garg, M. (2017). Average chain transitivity and the almost average shadowing property. *Commun. Korean Math. Soc.*, 32(1), 201-214.
- Dass, B. K., Sharma, N., Verma, R. (2017). Perfect codes in poset block spaces. *Asian-Eur. J. Math.*, 10(1), 1750005, 12 pp.
- Dass, B. K., Sharma, N., Verma, R. (2017). Perfect codes in poset spaces and poset block spaces. *Finite Fields Appl.*, 46, 90-106.
- Deepshikha., Vashisht, L. K. (2016). Extension of Weyl-Heisenberg wave packet Bessel sequences to dual frames in  $L^2(\mathbb{R})$ . *J. Class. Anal.*, 8(2), 131-145.
- Deepshikha., Vashisht, L. K. (2017). A note on discrete frames of translates in  $\mathbb{C}N$ . *TWMS J. Appl. Eng. Math.* 6(1) 143-149.
- Deepshikha; Vashisht, L. K. (2017). Necessary and sufficient conditions for discrete wavelet frames. *N. J. Geom. Phys.*, 117, 134 -143.
- Dhingra, M., Lalitha, C. S. (2016). Well-setness and scalarization in set optimization. *Optim. Lett.*, 10(8), 1657-1667.
- Dhingra, M., Lalitha, C. S. (2016). Approximate Lagrangian duality and saddle point optimality in set optimization, *RAIRO-Oper. Res.* doi: 10.1051/ro/2016068.
- Dubey, S., Kumar, A., Mishra, M. M. (2016). The Neumann problem for the Kohn-Laplacian on the Heisenberg group  $\mathbb{H}^n$ . *Potential Anal.*, 45(1), 119-133
- Dubey, S., Kumar, A., Mishra, M. M. (2017). Polyharmonic Neumann and mixed boundary value problems in the Heisenberg group. *Complex Var. Elliptic Equ.* 62(10), 1506-1518.
- Garg, M., Das, R. (2016). Relations of the almost average shadowing property with ergodicity and proximality. *Chaos Solitons Fractals*, 91, 430-433.
- Garg, S., Vashisht, L. K. (2016). On exact frames in topological algebras, *Palest. J. Math.*, 5(1), 131-134.
- Goel, N., Gupta, I., Dubey, M. K., Dass, B. K. (2016/17). Undeniable signature scheme based over group ring. *Appl. Algebra Engrg. Comm. Comput.*, 27(6), 523-535.
- Jain, N. K. & Ravichandran, V. (2016). Radius problems for product and convolution of univalent functions. *Honam Journal of Mathematics*, 38(4), 701-724.
- Jain, N. K., Ravichandran, V. & Sharma, K. (2016). Starlike functions associated with a cardioid, *AfrikaMathematica*, 27(5), 923-939.

- Jena, J., Singh, R. (2016). Evolution of weak waves and central expansion waves in a non-ideal relaxing gas. *Ain Shams Engineering Journal*, 7, 409-413.
- Kaur, J., Singh, H. K., Singh, T. (2016). Circle group action on the product of two projective spaces. *Topology Proc.*, 48, 163-172.
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- Kumar, D., Kumar, S. (2016). Ultimate numerical bound estimation of chaotic dynamical finance model. *Modern Mathematical Methods and High Performance Computing in Science And Technology*, Springer Proc. Math. Stat., 171, Springer, Singapore, 71-81.
- Kumar, S. (2016). Approximate Controllability of Nonlocal Impulsive Fractional Order Semilinear Time Varying Delay Systems. *Nonlinear Dynamics and Systems Theory: An International Journal of Research and Surveys*, 16 (4), 420-430.
- Kumar, S. (2016). Mild solution and fractional optimal control of semilinear system with fixed delay. *Journal of Optimization Theory and Applications*, doi:10.1007/s10957-015- 0828-3
- Kumar, S., Ravichandran, V. (2016). A subclass of starlike functions associated with a rational function. *Southeast Asian Bull.Math.*, 40 (2), 199-212.
- Kumar, S., Nagpal, S., Ravichandran, V. (2016). Coefficient inequalities for Janowskistarlikeness. *Proc. Jangjeon Math. Soc.*, 19(1), 83-100.
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- Pranjali., Gaur, A., Acharya, M. (2016). C-consistency in signed total graphs of commutative rings. *Discrete Math. Algorithms Appl.*, 8(3), 1650041, 14 pp.
- Rajpal, V., Kumar, A. (2016). Arens regularity of projective tensor products. *Arch. Math. (Basel)* 107(5), 531-541.
- Rastogi, S., Srivastava, S. (2016). Quasi-hyperbolicity and delay semigroups. *Abstr. Appl. Anal.* Art. ID 1984874, 6 pp.
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- Sharma, K., Jain, N. K., Ravichandran, V. (2016). Starlike functions associated with a cardioid. *Afr. Mat.*, 27(5-6), 923-939.
- Sharma, K., Ravichandran, V. (2016). Applications of theory of differential subordination of functions with fixed initial coefficient. *J. Class. Anal.*, 8(2), 113-121.
- Sharma, K., Ravichandran, V. (2016). Sufficient conditions for Janowskistarlike functions. *Stud. Univ. Babeş-Bolyai Math.*, 61(1), 63-76.
- Sharma, K., Ravichandran, V. (2016). Applications of subordination theory to starlike functions. *Bull. Iranian Math. Soc.*, 42(3), 761-777.
- Singh, M., Patel, A., Bajargaan, R., (2016). Study of a one-dimensional unsteady gas dynamic problem by Adomian decomposition method. *Int. J. Appl. Math.*, 29(6), 775-794.
- Singh, S. K., Singh, H. K., Singh, T.. (2017). A Borsuk-Ulam type theorem for the product of a projective space and 3-sphere. *Topology Appl.*, 225, 112-129.
- Sinha, K. B., Srivastava, S. (2017). *Theory of semigroups and applications. Texts and Readings in Mathematics*, 74. New Delhi, Hindustan Book Agency.
- Vashisht, L. K., Deepshikha. (2016). Weaving properties of generalized continuous frames generated by an iterated function system. *J. Geom. Phys.*, 110, 282-295.
- Vashisht, L. K., Deepshikha. (2017). On continuous weaving frames. *Adv. Pure Appl. Math.* 8(1), 15-31.
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Ambethkar, V., Kushawaha, D. (2017). Numerical simulations of fluid flow and heat transfer in a four-sided lid-driven rectangular domain. *Int. J. Heat and Technology*, 35( 2), 273-278.

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Ambethkar, V., Kumar, M. (2017). Numerical solutions of 2-D steady incompressible flow in a driven square cavity using stream function-vorticity formulation. *Turk. J. Math. Comput. Sci.*, 6, 10-22.

Ambethkar, V., Srivastava, M.K. (2017). Numerical solutions of a steady 2-D incompressible flow in a rectangular domain with wall slip boundary conditions using the finite volume method. *J.Applied Math.& Comput. Mech*, 16(2), 5-16.

Ambethkar, V., Srivastava, M.K. and Ali, J. C. (2017). Numerical study of coupled fluid flow and heat transfer in a rectangular domain at moderate Reynolds numbers using the control volume method. *Int. J. Industrial Mathematics*. (Accepted)

### Research Projects

R&D grant, University of Delhi, Delhi, Prof. Ajay Kumar, 2015 – 2016, *Uncertainty principles and boundary value problems*, Rs. 1.5 Lakhs.

R&D grant, University of Delhi, Delhi, Prof. C. S. Lalitha, 2015 – 2016, *Scalarization in Set-Valued Optimization*, Rs. 1.3 Lakhs.

UGC, Prof. Ruchi Das, 2013 – 2017, *On dynamical properties and chaotic behavior of maps*, Rs.10.5 Lakhs.

DST Fast Trac, Dr. Sachi Srivastava, 2014 – 2017, *Semigroups on non-commutative  $L_p$  spaces*, Rs.12.3 Lakhs.

R&D grant, University of Delhi, Dr. Lalit Kumar, 2015 – 2016, *Weaving Frames*, Rs.1.3 Lakhs.

R&D grant, University of Delhi, Dr. Arvind Patel, 2015 – 2016, *A study of recent analytic method and their application in solution of fluid flow problems*, Rs.1.3 Lakhs.

R&D grant, University of Delhi, Dr. Atul Gaur, 2015 – 2016, *Hamiltonian property of Maximal Graphs and Chromatic Number of its line graph*,

R&D grant, University of Delhi, Dr. Hemant Kumar Singh, 2015 – 2016, *Indexes of a finitistic space with mod2 cohomology  $RP^m \times S^2$* , Rs.1.4 Lakhs.

R&D grant, University of Delhi, Dr. Anuj Bishnoi, 2015 – 2016, *On Saturated Distinguished Chains and Okutsu Frames*, Rs.1.4 Lakhs.

R&D grant, University of Delhi, Dr. Surendra Kumar, 2015 – 2016, *Controllability of Fractional Semilinear Delay Systems*, Rs. 1.4 Lakhs.

R&D grant, University of Delhi, Dr. Ranjana Jain, 2015 – 2016, *Closed lie ideals for tensor product of Von Neumann Algebras*, Rs. 0.6 Lakhs.

R&D grant, University of Delhi, Dr. Randheer Singh, 2015 – 2016, *Nonlinear wave propagation in non-ideal relaxing gases*, 1.35 Lakhs.

### Seminar Organised

Dr. Tomas Kania, University of Warwick, UK, *Recovering a compact space from the family of its continuous, scalar-valued functions: the old and the new*, Dec. 14, 2016, South Campus.

Prof. Wolfgang A. F. Ruppert, University of Natural Resources and Life Sciences, Wien, Austria, *Weakly almost periodic functions and compactifications*, Dec. 13, 2016, North Campus.

Prof. Frederick K. Dashiell, UCLA & Chapman University, *The Baire classes of a Banach Space*, Dec. 7, 2016, North Campus.

Prof. Frederick K. Dashiell, UCLA & Chapman University, *The bidual of  $C(K)$* , Dec. 6, 2016, South Campus

Prof. Andreas M. Hinz, Department of Mathematic, Ludwig-Maximilians-University, Munich, Germany, *Uncountable!!*, Sept. 27, 2016, North Campus.

Prof. M. K. Kadalbajoo, Department of Mathematics, LNMIIT, Jaipur, *The boundaries of Computability*, July 28, 2016, North Campus.

Prof. Mahendra K. Verma, Department of Physics, IIT, Kanpur, *Dynamical perspectives of phase transitions and its applications*, May 2, 2016, South Campus.

### **Conferences Organised**

National Conference on *Algebra, Analysis, Coding and Cryptography* in honour of Prof. Bal Kishan Dass on the occasion of his retirement, at the Department of Mathematics, University of Delhi, Oct. 14-15, 2016. (Funded by DRDO, DST-PURSE grant, and DU)

Research Scholar's Seminar & Annual Conference of the Society of Mathematical Sciences (Delhi) at the Department of Mathematics, University of Delhi during 1-2 May, 2017. (Funded by UGC-SAP/DST-FIST/DST-PURSE grants)

### **Seminar / Conference Presentation**

C. S. Lalitha, Invited Talk on Well-Posedness in Set Optimization from a Different Viewpoint, at the Conference on Game Theory and Optimization, IIT Madras, June 9-10, 2016.

C. S. Lalitha, Lecture on Stability Aspects in Vector Optimization, in the Workshop on Game Theory and Optimization, IIT Madras, June 6-8, 2016.

Ranjana Jain, Presented a Talk at the Conference on Indian Women and Mathematics at University of Hyderabad during June 29 - July 1, 2016.

Sachi Srivastava, Invited Talk, IWM, Hyderabad, June 29 - July 01, 2016

Randheer Singh, Evolution of breaking of waves in van der Waals gas, in International Conference on Differential Geometry, Algebra and Analysis (ICDCAA-16) Nov. 15-17, 2016, held at Jamia Millia Islamia University, Delhi

Ambethkar, Invited Talk, A Numerical Method to Steady and Unsteady Flow with heat transfer in Driven Square Cavity; NCRAM Department of Mathematics, Kakatiya University, Warangal, Telangana, 13th Aug., 2017.

### **Placement Details**

Students Placed – 19

Companies – 12

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 15

M.Phil. – 18

**Faculty Strength – 23**

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## **OPERATIONAL RESEARCH**

### **Major Activities and Achievements**

Department of Operational Research has established itself as a leading centre for education and research in the area of optimization and data analytics. To ensure a holistic development of the students, apart from regular teaching and research, the department Organises a wide range of scholarly activities every year as mentioned below.

Workshops/Conferences/Seminars: The Department on regular basis Organises both student oriented and research oriented workshops/conferences/seminars. During 2016-17, the department has Organised two workshops on Data Science and Big Data Analysis & Business Analytics and Intelligence. Eminent speakers from industry and academic institutions interacted with students and faculty and delivered lectures.

AURORA (Acknowledgement of the Universal Rendezvous of Operational Research and its Applications): It is the Annual Academic Festival, which is a flurry of activities ranging from Guest Lectures by eminent scholars and professionals to student-centric events like Quizzes, Problem solving, Presentation of Case Studies etc.

Industrial Visit: Every year, the Department Organises a week-long Industrial Visit to a cluster of towns/villages of the country. The trips are aimed at providing students a firsthand experience of industrial processes and functioning in order to gain practical knowledge of the subject and help convert/apply classroom learning.

### **Honours / Distinctions**

Prof. Chandra K. Jaggi, IEOM Outstanding Service Award – In Recognition and Appreciation of Outstanding Support, Service, Contributions, and Global Community Engagement in Industrial Engineering and Operations Management Profession, awarded by Industrial Engineering and Operations Management Society, Detroit, USA., Sept. 23 - 25, 2016.

Prof. Pankaj Gupta:

Visiting Scientist, Norwich Business School, University of East Anglia, Norwich, UK, Jan., 2017.

Short-term Foreign Expert, School of Information, Capital University of Economics and Business, Beijing, China, June-July, 2016.

Dr. Ompal Singh, Conferred with 2017 Highly Commended Award by Journal of Advances in Management Research for the article Unified Approach for Modeling Innovation Adoption & Optimal Model Selection for the Diffusion Process.

Dr. Mukesh Kumar Mehlawat:

Visiting Scientist, Norwich Business School, University of East Anglia, Norwich, UK, Jan., 2017.

Visiting Scientist, School of Information, Capital University of Economics and Business, Beijing, China, June-July, 2016.

Dr. Adarsh Anand, Conferred with 2017 Highly Commended Award by Journal of Advances in Management Research for the article Unified Approach for Modeling Innovation Adoption & Optimal Model Selection for the Diffusion Process.

### **Publications**

Books:

Srivastava, P.W. (2017). *Optimum Accelerated Life Test Models with Time-Varying Stresses*. Singapore: World Scientific Publishing Europe Ltd.

Journal Publications:

Agarwal, M., Aggarwal, D., Anand, A., & Singh, O. (2017). Modeling multi-generation innovation adoption based on conjoint effect of awareness process. *International Journal of Mathematical, Engineering and Management Sciences*, 2(2), 74-84.

Agarwal, V., Govindan, K., Darbari, J. D., & Jha, P. C. (2017). An optimization model for sustainable solutions towards implementation of reverse logistics under collaborative framework. *International Journal of System Assurance Engineering and Management*, 7(4), 480-487.

Aggarwal, A. G., Dhaka, V., & Nijhawan, N. (2017). Reliability analysis for multi-release open-source software systems with change point and exponentiated Weibull fault reduction factor. *Life Cycle Reliability and Safety Engineering*, 6(1), 3-14.

Aggarwal, A. G., Jaggi, C. K., & Nijhawan, N. (2017). Optimal release policy for multirelease software system. *International Journal of Operations Research and Information Systems*, 8(3), 21-38.

Aggarwal, K.K., & Aneja, S. (2016). An EOQ model with inspection error, rework and sales return. *International Journal of Advanced Operations Management*, 8(3), 185-199.

Aggarwal, K.K., & Tyagi, A. K. (2017). Inventory and credit decisions under day-terms credit and stock-dependent demand. *International Journal of Supply Chain and Inventory Management*, accepted (in press).

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- Anand, A., & Bansal, G. (2017). Interpretive structural modelling for attributes of software quality. *Journal of Advances in Management Research*, 14(3), 256-269.
- Anand, A., & Bhatt, N. (2016). Vulnerability discovery modeling and weighted criteria based ranking. *Journal of the Indian Society for Probability and Statistics*, 17(1), 1-10.
- Anand, A., Agarwal, M., Aggrawal, D., & Singh, O. (2016). Unified approach for modeling innovation adoption and optimal model selection for the diffusion process. *Journal of Advances in Management Research*, 13(2), 154-178.
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- Anand, A., Deepika, Singh, O., (2016). Incorporating features enhancement archetype in software reliability growth modeling and optimal release time determination. *International Journal of Computer Applications*, 139(4), 1-6.
- Anand, A., Singh, O., Agarwal, M., Garmabaki, & A.H.S. (2016). Studying product diffusion based on market coverage. *Journal of Marketing Analytics*, 4(4), 135-146.
- Anand, A., Singh, O., Aggarwal, R., & Aggrawal, D. (2016). Diffusion modeling based on customer's review and product satisfaction. *International Journal of Technology Diffusion (IJTD)*, 7(1), 20-31.
- Bao, T. Q., Gupta, P., & Khanh, P. Q. (2017). Necessary optimality conditions for minimax programming problems with mathematical constraints. *Optimization*, 66 (11), 1755-1776.
- Bhatt, N., Anand, A., Yadavalli, V.S.S., & Kumar, V. (2017). Modeling and characterizing software vulnerabilities. *International Journal of Mathematical, Engineering and Management Sciences*, 2(4), 288-299.
- Deepika, Singh, O., Anand, A., & Singh J. N. P. (2017). Testing domain dependent software reliability growth models. *International Journal of Mathematical, Engineering and Management Sciences*, 2(3), 140-149.
- Dhaka, V., Jaggi, C. K., Pareek, S., & Rai, P. K. (2016). A gentle introduction to the bayesian paradigm for some inventory models. In Mandeep Mittal, Nita H. Shah (Eds.), *Optimal Inventory Control and Management Techniques* (pp. 340-359). Unites States of America: IGI Global.
- Govindan, K., Darbari, J. D., Agarwal, V., & Jha, P. C. (2017). Fuzzy multi-objective approach for optimal selection of suppliers and transportation decisions in an eco-efficient closed loop supply chain network. *Journal of Cleaner Production*, 165, 1598-1619.
- Govindan, K., Garg, K., Gupta, S., & Jha, P. C. (2016). Effect of product recovery and sustainability enhancing indicators on the location selection of manufacturing facility. *Ecological Indicators*, 67, 517-532.
- Gupta, A., Aggarwal, S., Kaul, A., & Jha, P. C. (2016). Optimal placement of advertisements on a pixelated web banner. *Journal of Information and Optimization Sciences*, 37(5), 693-716.
- Gupta, A., Sharma, P., Malik, S. C., Agarwal, N., & Jha, P. C. (2016). Productivity improvement in the chassis preparation stage of the amplifier production process: A DMAIC six sigma methodology. *International Journal of Reliability, Quality and Safety Engineering*, 23(6), 1640012.
- Gupta, P., Govindan, K., Mehlawat, M.K., & Kumar, S. (2016). A weighted possibilistic programming approach for sustainable vendor selection and order allocation in fuzzy environment. *International Journal Of Advanced Manufacturing Technology*, 86(5), 1785-1804.
- Gupta, P., Lin, C.T., Mehlawat, M.K., & Grover, N. (2016). A new method for intuitionistic fuzzy multiattribute decision making. *Ieee Transactions On Systems, Man And Cybernetics: Systems*, 46(9), 1167-1179.
- Gupta, P., Mehlawat, M.K., & Grover, N. (2016). Intuitionistic fuzzy multi-attribute group decision-making with an application to plant location selection based on a new extended vikor method. *Information Sciences*, 370-371, 184-203.
- Gupta, P., Mehlawat, M.K., Grover, N. & Chen, W. (2017). Modified intuitionistic fuzzy sir approach with an application to supplier selection. *Journal Of Intelligent & Fuzzy Systems*, 32(6), 4431-4441.
- Gupta, V., & Kumar, R. (2017). An optimal rejuvenation strategy for increasing service reliability of a VOIP system with multiple components. *International Journal of Mathematical, Engineering and Management Sciences*, 2( 4), 231-241.

- Jaggi, C. K., Ali, H., & Arneja, N. (2016). A technical note on periodic inventory model with controllable lead time under service level constraint. *Electronic Journal of Applied Statistical Analysis*, 9(1), 83-94.
- Jaggi, C. K., Cárdenas-Barrón, L. E., Tiwari, S., & Shafi, A. A. (2017). Two-warehouse inventory model for deteriorating items with imperfect quality under the conditions of permissible delay in payments. *Scientia Iranica. Transaction E, Industrial Engineering*, 24(1), 390-412.
- Jaggi, C. K., Khanna, A., & Nidhi, N. (2016). Effects of inflation and time value of money on an inventory system with deteriorating items and partially backlogged shortages. *International Journal of Industrial Engineering Computations*, 7(2), 267-282.
- Jaggi, C. K., Pareek, S., Khanna, A., & Nidhi, N. (2016). Optimal replenishment policy for fuzzy inventory model with deteriorating items and allowable shortages under inflationary conditions. *Yugoslav Journal of Operations Research*, 26(4), 507-526.
- Jaggi, C. K., Tiwari, S., & Goel, S. (2016). Replenishment policy for non-instantaneous deteriorating items in a two storage facilities under inflationary conditions. *International Journal of Industrial Engineering Computations*, 7(3), 489-506.
- Jaggi, C. K., Tiwari, S., & Goel, S. K. (2017). Credit financing in economic ordering policies for non-instantaneous deteriorating items with price dependent demand and two storage facilities. *Annals of Operations Research*, 248(1-2), 253-280.
- Jaggi, C. K., Yadavalli, V. S. S., Sharma, A., & Tiwari, S. (2016). A fuzzy EOQ model with allowable shortage under different trade credit terms. *Appl. Math. Inf. Science*, 10(2), 785-805.
- Jha, P. C., Aggarwal, S., & Gupta, A. (2016). Optimal duration of promotion for durable technology product in a segmented market. *Journal of Promotion Management*, 22(5), 751-771.
- Jha, P. C., Aggarwal, S., Gupta, A., & Sarker, R. (2016). Multi-criteria media mix decision model for advertising a single product with segment specific and mass media. *Journal of Industrial and Management Optimisation*, 12(4), 1367-1389.
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- Kannan, D., Garg, K., Jha, P. C., & Diabat, A. (2017). Integrating disassembly line balancing in the planning of a reverse logistics network from the perspective of a third party provider. *Annals of Operations Research*, 253(1), 353-376.
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- Kapur, P. K., Shrivastava, A. K., & Singh, O. (2017). When to release and stop testing of a software. *Journal of the Indian Society for Probability and Statistics*, 18(1), 19-37.
- Kaul, A., Aggarwal, S., Gupta, A., Dayama, N., Krishnamoorthy, M., & Jha, P. C. (2017). Optimal advertising on a two-dimensional web banner. *International Journal of System Assurance Engineering and Management*. DOI 10.1007/s13198-017-0590-z.
- Khanna, A., Gautam, P., & Jaggi, C. K. (2017). Inventory modeling for deteriorating imperfect quality items with selling price dependent demand and shortage backordering under credit financing. *International Journal of Mathematical, Engineering and Management Sciences*, 2(2), 110-124.
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- Khanna, A., Kishore, A., & Jaggi, C.K. (2017). Inventory modeling for imperfect production process with inspection errors, sales return, and imperfect rework process. *International Journal of Mathematical, Engineering and Management Sciences*, 2(42), 242-258.
- Khanna, A., Kishore, A., & Jaggi, C.K. (2017). Strategic production modeling for defective items with imperfect inspection process, rework, and sales return under two-level trade credit. *International Journal of Industrial Engineering Computations*, 8(1), 85-118.
- Khanna, A., Mittal, M., Gautam, P., & Jaggi, C. K. (2016). Credit financing for deteriorating imperfect quality items with allowable shortages. *Decision Science Letters*, 5(1), 45-60.

- Manik, P., Gupta, A., Jha, P. C., & Govindan, K. (2016). A goal programming model for selection and scheduling of advertisements on online news media. *Asia-Pacific Journal of Operational Research*, 33(2), 1650012.
- Mehlawat, M.K. (2016). Credibilistic mean-entropy models for multi-period portfolio selection with multi-choice aspiration levels. *Information Sciences*, 345, 9-26.
- Mehlawat, M.K., & Gupta, P. (2016). A new fuzzy group multi-criteria decision making method with an application to the critical path selection. *International Journal of Advanced Manufacturing Technology*, 83, 1281-1296.
- Mittal, M., Jaggi, C. K., & Khanna, A. (2017). Retailers ordering policy for deteriorating imperfect quality items when demand and price are time-dependent under inflationary conditions and permissible delay in payments. *International Journal of Procurement Management*, 10(4), 461- 494
- Sachdeva, N., Kapur, P. K., & Singh, O. (2016). An innovation diffusion model for consumer durables with three parameters. *Journal of Management Analytics*, 3(3), 240-265.
- Sachdeva, N., Singh, O., Kapur, P. K., & Galar, D. (2016). Multi-criteria intuitionistic fuzzy group decision analysis with TOPSIS method for selecting appropriate cloud solution to manage big data projects. *International Journal of System Assurance Engineering and Management*, 7(3), 316-324.
- Srivastava, P.W., & Gupta, T. (2017). Optimum modified ramp-stress ALT plan with competing causes of failure. *International Journal of Quality & Reliability Management*, 34(5), 733-746.
- Srivastava, P.W., & Savita (2016). Design of ramp-stress accelerated life test plans for a parallel system with two dependent components. *IJQ*, 241-248.
- Tandon, A., Aggarwal, A. G., & Nijhawan, N. (2016). An NHPP SRGM with change point and multiple releases. *International Journal of Information Systems in the Service Sector*, 8(4), 57-68.
- Tiwari, S., Cárdenas-Barrón, L. E., Khanna, A., & Jaggi, C. K. (2016). Impact of trade credit and inflation on retailers ordering policies for non-instantaneous deteriorating items in a two-warehouse environment. *International Journal of Production Economics*, 176, 154-169.
- Tiwari, S., Cárdenas-Barrón, L. E., Khanna, A., & Jaggi, C. K. (2016). Impact of trade credit and inflation on retailer's ordering policies for non-instantaneous deteriorating items in a two-warehouse environment. *International Journal of Production Economics*, 176, 154-169.

#### **Faculty Serving as Editor(s)/Member(s) of Editorial Board**

Professor Chandra K. Jaggi:

Founder Chief-Editor, *International Journal of Inventory Control and Management*, Published by The Association for the Advancement in Combinatorial Sciences.

Chief-Editor, *International Journal of Scientific Research in Mathematical and Statistical Sciences*, Published by International Scientific Research Organization for Science, Engineering & Technology.

Editor, *International Journal of Systems Assurance Engineering and Management*, Springer.

Associate Editor, *The Gsf Journal of Mathematics, Statistics and Operations Research*.

Member, Editorial Board, *International Journal of Systems Science: Operations & Logistics*, Taylor & Francis.

Member, Editorial Board, *International Journal of Services Operations and Informatics*, Inderscience Publishers Ltd.

Member, Editorial Board, *American Journal of Operational Research*.

Member, Editorial Board, *International Journal of Enterprise Computing And Business Systems*.

Member, Editorial Board, *Research Journal of Management Sciences*, International Science Congress Association.

Prof. Pankaj Gupta:

Associate Editor, *Information Sciences* (Elsevier).

Associate Editor, *IEEE Transactions on Fuzzy Systems* (IEEE Computational Intelligence Society).

Editor, *Applied Soft Computing* (Elsevier).



Dr. Adarsh Anand:

Associate Editor, *International Journal of System Assurance and Engineering Management* (Springer).

Editorial Review Board, *Amity Journal of Operations Management* – An International, Biannual, Refereed Journal of Operations Management.

Editorial Board Member, *International Journal of Mathematical Engineering and Management Science*.

### **Research Projects**

DST-PURSE Phase-II Grant from University of Delhi, 2014-2018, Rs. 25 Lakh.

### **Seminars / Conferences Organised**

Dr. Mukesh Kumar Mehawat, Organizing Secretary, Workshop on Data Science and Big Data Analysis Organised by Department of Operational Research, University of Delhi, Delhi, Feb. 24, 2017.

Dr. Adarsh Anand, Organizing Secretary, Workshop on Business Analytics and Intelligence, held at Department of Operational Research, University of Delhi, Delhi, Feb. 25, 2017.

### **Seminar / Conference Presentation**

Pankaj Gupta, Invited talk, ‘Possibilistic Optimization’ in the Symposium on Mathematical Programming and Game Theory Organised by Indian Statistical Institute, Delhi Centre, 11th Jan., 2017.

Pankaj Gupta, Invited talk, ‘Possibilistic Optimization’ in the International Conference on Frontiers of Science and Technology Organised by KIET, Ghaziabad, India, 7th Jan., 2017.

Pankaj Gupta, Invited talk, ‘Multiple Criteria Decision Making’ Organised by Capital University of Economics and Business, Beijing, China, 5th July, 2016.

Anu G. Aggarwal, Presented paper on ‘Change Point Based Reliability Growth Model for Multi-Release Open Source Software Systems’ in the Joint International Conference on Interdisciplinary Research and 8th International Conference on Quality, Reliability, Infocom Technology and Business Operations held at Amity University, Noida, 2017.

Anu G. Aggarwal, Presented paper on “Optimal Release Time and Warranty Period for a Software System Incorporating Environment Factor” in the Joint International Conference on “Interdisciplinary Research and 8th International Conference on Quality, Reliability, Infocom Technology and Business Operations” held at Amity University, Noida, 2017.

Anu G. Aggarwal, Presented paper on “Multi Release Reliability Growth Modelling for Open Source Software Under Imperfect Debugging” in the Joint International Conference on Interdisciplinary Research and 8th International Conference on Quality, Reliability, Infocom Technology and Business Operations held at Amity University, Noida, 2017.

Anu G. Aggarwal, Presented paper on “Reliability Growth Analysis for MultiRelease Open Source Software Systems with Change Point” in the 49th Annual Convention of Operational Research Society of India and International Conference on Analytics in Operational Research held at BIMTECH, Greater Noida, 2017.

Anu G. Aggarwal, Presented paper on “Ranking B2C E-commerce Websites on the Basis of Success Factors using AHP and TOPSIS” in the 49th Annual Convention of Operational Research Society of India and International Conference on Analytics in Operational Research held at BIMTECH, Greater Noida, 2017.

Aditi Khanna, Talk on “An Integrated model for Deteriorating Items with Price-Sensitive Demand and Preservation Technology under Partial Backlogging” in Vivekananda International Conference VINC’17 on “Building Research Aditi Khanna, Analytics in Sciences, Technology, Operations Research & Management- BRAINSTORM” held at School of Business Studies, Vivekananda Institute of Professional Studies, Delhi during 16-17 March, 2017.

Aditi Khanna, Talk on “Economic Production Quantity model with Defectives, Inspection errors and Imperfect Rework Process” in the National Conference on and Optimization Techniques Organised by Department of Statistics, M.D. University, Rohtak, India during 11-13 Feb., 2017.

Adarsh Anand, International Conference on “Quality Assurance Engineering and Interdisciplinary Research (ICQAEIR 2017)” held at St. Petersburg Polytechnic University, Russia, during Aug. 23-25, 2017.

Adarsh Anand, Talk in the Joint International Conference on Interdisciplinary Research & 8<sup>th</sup> International Conference on Quality, Reliability and Infocom Technology and Business Operations, Amity University, Noida during 8-10 Feb. 2017.

### **M.Phil. / Ph. D. Awarded**

Ph.D. – 06

M.Phil. – 15

### **Faculty Strength – 12**

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## **STATISTICS**

### **Major Activities and Achievements**

The Department of Statistics is involved in carrying out research and teaching in diverse fields of Statistics. It has used the power of Statistics and knowledge of computers to contribute significantly in the area of research. The main thrust of the Department is to conduct basic and applied research and to develop trained manpower in the discipline of Statistics. The Department conducts three degree-oriented programmes, viz. M.A./M. Sc. Statistics, M. Phil. and Ph.D. with a syllabus that incorporates emerging and core areas in different fields of Statistics. The Department also Organises special invited talks by eminent persons from India and abroad. Distinguished Professors visited the Department to deliver Research Talks and interact with the faculty and students. The Department has achieved great success in suitable placement of students in reputed national and international companies/organizations.

### **Publications**

Singh, P., Thapliyal, P and Budhreja, V. (2016). A technique to construct linear trend free fractional design using some linear codes. *International Journal of Statistics and Mathematics*, 3(1), 73-81.

Singh, P., Thapliyal, P. and Budhreja, V. (2016). Construction of linear trend free fractional factorial designs using linear codes. *International Journal of Agricultural and Statistical Sciences*, 12(1), 13-19.

Singh, P., Jha, M.K. and Priyadarshini, G. (2016). Nested crossover designs. *Model Assisted Statistics and Application*, 11, 247–259.

Singh, P., Jha, M.K. and Priyadarshini, G. (2016). Partially balanced cross-over designs for consumer trials. *Sri Lankan Journal of Applied Statistics*, 17(2), 71-85.

Chaturvedi, A and Nandchahal, S. (2016). Shrinkage estimators of the reliability characteristics of a family of lifetime distributions. *Statistica*, LXXVI (1), 1-26.

Chaturvedi, A. and Vyas, S. (2017). Estimation and testing procedures for the reliability functions of exponentiated distributions under censorings. *Statistica*, 77 (1), 13-31.

Chaturvedi, A. and Malhotra, A. (2017). Inference on the parameters and reliability characteristics of three parameter Burr distribution based on records. *Applied Mathematics and Information Science*, 11(3), 1-13.

Chaturvedi, A. and Kumari, T. (2017). Robust Bayesian analysis of generalized half logistic distribution. *Statistics, Optimization and Information Computing*, 5, 158-178.

Chaturvedi, A. and Nandchahal, S. (2017). Shrinkage estimators of the reliability characteristics of generalized half logistic distribution. *International Journal of Linguistics and Computational Applications*, 1, 29-36.

- Swain, P. K., Grover, G., Chakravorty, S., Goel, K., & Singh, V. (2017). Estimation of number of involved lymph nodes in breast cancer patients using bayesian regression approach. *J. Stat. Appl. Pro. Lett. USA*, 4(1), 17-25.
- Grover, G., Goel, K. and Seth, D. (2017). Application of univariate frailty models in modeling survival data with a cured fraction. *Journal of Applied Quantitative Methods, Italy*, 11(4).
- Swain, P. K., Grover, G., and Goel, K. (2016). Mixture and non-mixture cure fraction models based on generalized gompertz distribution under bayesian approach. *Tatra Mountains Mathematical Publications, Slovakia*, 66, 121-135.
- Gupta, V. K., Grover, G., and Arora, M. (2016). Trend in BMI z-score among private schools' students in Delhi using multiple imputation for growth curve model. *Epidemiology, Biostatistics and Public Health*, 13(2), e11836(1-8).
- Grover, G., Gupta, V. K., and Kumar, P. (2016). Estimation of sub-distribution hazard ratio of HIV/AIDS patients for interval censored data with loss to follow up as a competing risk. *J. Commun. Dis.*, 48(3), 22-28.
- Swain, P. and Grover, G. (2016). Determination of predictors associated with HIV/AIDS patients on ART using accelerated failure time model for interval censored survival data. *American Journal of Biostatistics (USA)*, 61, 12-19.
- Saran, J. and Nain K. (2016). Recurrence relations for marginal and joint moment generating functions of generalized order statistics from a new class of Pareto distributions. *Journal of Statistical Theory and Applications*, 15(3), 259-272.
- Saran, J., Pushkarna, N. and Tiwari, R. (2016). Relationships for moments of generalized order statistics from a general class of distributions. *Probst Forum*, 09, 80-87.
- Pandey, R., Yadav, K. and N. S. Thakur (2016). Adapted factor-type imputation strategies. *Journal of Scientific Research*, 8(3), 321-339.
- Pandey, R., Yadav, K. (2016). An alternative class of exponential ratio-product type mean imputation using auxiliary information. *Journal of Applied Probability and Statistics*, 11(2), 125-141.
- Pandey, R. and Yadav, K. (2016). Mean estimation under imputation based on Two-hase sampling design using an auxiliary variable. *Pakistan Journal of Statistics and Operation Research*, 12(4), 639-658.
- Pandey, R and Kumari, N. (2016). A new life time distribution for modeling monotonic decreasing survival patterns. *Journal of Reliability and Statistical Studies*, 9(2), 53-70.
- Pandey, R. and Kaur, C. (2017). Spatial analysis of factors influencing birth patterns in the States of India. *Journal of Scientific Research*, 9(1), 43-56.

### **Seminars Organised (Selected)**

- Prof. R. K. Narendra Singh, Unit of Bio-Statistics, Regional Institute of Mathematical Sciences (RIMS), Imphal, "Identification of research problem and impact Factor of the journals" on Dec. 19, 2016.
- Prof. Subrata Kundu, Department of Statistics, George Washington University, Washington, DC, USA, "A New Approach to Modeling Software Reliability Under Imperfect Debugging" on Jan. 19, 2017.
- Professor R. M. Pandey, Department of Biostatistics, AIIMS Delhi, "Clinical Trials and sample size Determination" on Jan. 23, 2017.
- Professor Ramesh Gupta, Department of Mathematics and Statistics, University of Maine, USA, "General Frailty Model in Survival Analysis" on Feb. 21, 2017.
- Mr. Omkar Rai, Director General, STPI, "Role of Statistics in IT Sector" on Feb. 10, 2017.
- Mr. Raj Nehru, Vice Chancellor, Haryana Vishwakarma Skill University, "Statistics and Analytics" on Feb. 10, 2017.

### **Seminar / Conferences Presentation**

- Ranjita Pandey, Presented Paper, "Exploring Spatial Dimensions of Births in India: 1985-2011" in an International Conference on Mathematical Modeling & Simulation jointly Organised by Department of Statistics, Institute of

Science, Banaras Hindu University, Varanasi and Indian Academy of Mathematical Modeling and Simulation, IIT Kanpur, Aug. 29-31, 2016.

Ranjita Pandey, Presented Paper, “Proposing a model for Births in India” in the 37th Annual Conference of Indian Association for the study of Population Organised by IASP at Institute of Economic Growth, University of Delhi. Dec. 7-9, 2016.

### **Placement Details**

Students Placed – 49 (95%)

Companies visiting campus for recruitment – (24)

### **Extension and Outreach Activities**

Orientation Programme for the new batch.

Orientation Programme for Placements of M.A./M.Sc. students

Knowledge sharing sessions on Jan. 30, 2017.

Cloth Collection Drive from Jan. 10 – Jan. 30, 2017.

Ethnic Day Celebration.

Saraswati Puja / Vasant Panchmi Celebration.

Mock Placement Drive.

Heritage Walk on Feb. 10, 2017.

Personality Development Workshop: Mr. Ronald Pinto.

Ms. Kalpana Mishra, Ministry of Defence, ‘Gender Sensitization and Communication skills’ on Jan. 14, 2017.

### **Ph.D. / M. Phil. Awarded**

Ph.D. – 04

M. Phil.– 01

### **Faculty Strength**

Permanent –05

Ad-hoc –04

### **Other Significant Information**

The Department has its own Placement Cell called Credence, created in 2004, with an objective to provide a platform for the placement of students pursuing M.A./M.Sc. Statistics from University of Delhi. Through Credence, students get an opportunity to interact with organizations in the corporate world. Every year about 75% to 80% of the students get placed through the Placement Cell. In 2016-17, 95% of the students got placed through the Placement Cell. The Department has its own website: [statistics.du.ac.in](http://statistics.du.ac.in). The information about the placement cell, faculty, research scholars and staff of the department, courses run the department, syllabus and other relevant information can be found on the department website.

The Department has two well-equipped fully computerized laboratories with latest computing facilities for the use of students and researchers.

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## FACULTY OF MEDICAL SCIENCES

### ANATOMY (UCMS)

#### Major Activities and Achievements

Dr. Renu Chauhan contributed towards writing a Chapter on Anatomy and Embryology of Placenta for a book on *Placenta Accreta* by Gynaecology and Obstetrics Department of UCMS. She became the Reviewer for the *Journal of Anatomical Society of India*. Cadaveric Oath was taken by the MBBS students of Batch 2016-17 before starting the dissection of Cadavers. This system was started for the first time in UCMS to generate respect in the new entrants for the cadavers. Cadaveric donation in the Department of Anatomy, UCMS is being planned. The museum of Anatomy Department, UCMS, was renovated for the benefit of the students and faculty of UCMS.

#### Publications

Jha, S. (2016). Efficacy of immediate 24 hours versus 48 hours culture method in cytogenetic study of Paediatric Acute Lymphoblastic Leukemia. *International Journal of Anatomy and Research*, 4(4), 3175-78.

Jha, S., Kumar, D., Kaul, J. M., Singh, T., Dubey, A. P. (2017). Cytogenetic pattern profiling in cases of Acute Lymphoblastic Leukemia in Paediatric age group. *Journal of the Anatomical Society of India*, 66, 48-53.

Kalra, S., Thamke, S., Khandelwal, A., Khorwal, G. (2016). Morphometric analysis and surgical anatomy of coracoid process and glenoid cavity. *Journal of the Anatomical Society of India*, 65(2), 114-117.

Khorwal, G., Chauhan, R., Nagar, M. (2017). Effect of cyclophosphamide on liver in albino rats: A comparative dose dependent histomorphological study. *International Journal of Biomedical and Advance Research*, 8(03), 102-107.

Khorwal, G., Kalra, S. (2016). Heterotopic ossification or unusual foramen in radius? *International Journal of Research in Medical Sciences*, 4(12), 5510-5512.

Esakkiammal, N., Khizer Hussain Afroze, M., Chauhan, R., Subramanian, M., Balaji T. K., Shaik, Azmatulla. (2016). Anatomical Variants of Nerve of Kuntz and its Clinical and Surgical Implications. *International Journal of Anatomy and Research*, 4(2), 2502-07.

Esakkiammal, N., Chauhan R. (2016). Clinical significance of presence of accessory foramen transversarium in typical cervical vertebrae. *International Journal of Research in Medicine*, 4(12), 5231-5236.

Nagpal, H., Chauhan, R. (2017). Unilateral duplex collecting system with incomplete duplication of ureter – A case report. *International Journal of Research in Medical Sciences*, 5(5), 2254-2256

Suman, Kalra, S., Tigga, S. R. (2016). Undocumented variant branching pattern of axillary artery. *International Journal of Research in Medical Sciences*, 4(11), 5068-5070.

Thamke, S., Kalra, S., Khandelwal, A. (2016). Morphometric evaluation of dural venous sinuses: Anatomical study with its implications in surgical interventions. *Journal of Morphological Sciences*, 3(2), 83-89.

#### Seminars / Conference Presentation

Renu Chauhan, Speaker at Organum Donum Symposium held at UCMS, Delhi, March 22, 2017.

Sunita Kalra, Poster Presentation on Anatomy of Coracoid process and glenoid cavity a morphometric study at 64th National conference of Anatomical Society of India at AIIMS, Jodhpur on Nov. 29, 2016.

Gitanjali Khorwal, attended Hands on Workshop on Fetal, autopsy and cadaveric skills at Maulana Azad Medical College, Delhi on Feb. 20 -21, 2017.

Rakhee Sharma, Dr. Renu Chauhan., Anomalous origin of Inferior Pancreaticoduodenal Artery: A case Report. Poster presentation in 64th National conference of Anatomical Society of India at AIIMS, Jodhpur on Nov. 29, 2016.

Sharma R, Mishra S., Kaul J. M., A Neurohistological study on development of rostral part of nucleus of the solitary tract (NST) in human fetuses. Oral presentation in Poster presentation in 64 National Conference of Anatomical Society of India at AIIMS, Jodhpur on Nov. 29, 2016.

Workshop on Fetal, autopsy and cadaveric skills at Maulana Azad Medical College, Delhi on Feb. 20- 21, 2017.

Sunita Kalra, Chairperson in a session on Medical education at 64 National Conference of Anatomical Society of India at AIIMS, Jodhpur, Nov. 29, 2016.

### **Faculty Strength**

Professors – 2

### **Other Significant Information**

Academic work for Session 2016-17 for – MBBS; B.Sc. (Physiotherapy); B.Sc. (Radiology); MLT could be successfully managed despite acute shortage of faculty and residents (2 faculty members and 5 Residents) Dr. Renu Chauhan is Faculty Advisor to the Organum Donum body of UCMS.

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## **ANAESTHESIOLOGY (LHMC)**

### **Major Activities and Achievements**

The Department Organises CPR workshops every month; PTT course every year; CME-Ambulatory; scientific presentations in monthly ISA clinical meeting. ACLS course was conducted at LHMC by Department of Anaesthesiology in Oct., 2016.

### **Publications**

Sharma, R. (2017). Use of backward upwards rightwards pressure (BURP) and optimum external laryngeal manipulation (OELM) to confirm tracheal placement of endotracheal tubes in difficult cases. *The Journal of Emergency Medicine*, 52(6), 883.

Sharma, R. (2017). Capnography-Assisted Nasotracheal Intubation Using Cuff Inflation and Gum-Elastic-Bougie. *The Journal of Emergency Medicine*, 53 (1), 139-40.

Sharma, R., Bairagi, S., Das, S., Kumar, J. (2017). Amphotericin induced hypokalemia in a diabetic patient with rhino-orbito-cerebral Mucormycosis. *Anaesthesia Pain and Intensive Care*, 21(1), 90-93.

Sharma, R., Gulia, A. (2017). An unusual cause of dynamic airway obstruction. *The Journal of Emergency Medicine*, Publication stage: In Press, Corrected Proof. Published online. doi: <http://dx.doi.org/10.1016/j.jemermed.2017.04.030>

Sharma, R., Kaushal, V., Tyagi, V., Mittal, A. (2017). Airway management in a child with large supraglottic growth after failed fiber optic intubation. Accepted as clinical communication in paediatric section, *The Journal of Emergency Medicine*, In Press, PubMed: 28874303 doi: 10.1016/j.jemermed.2017.06.036

Sharma, R., Bharthi, V., Bairagi, S., Rani, D. (2017). Tracheostomal Myiasis! A word of caution. *Indian Journal of Anaesthesia*.

Hayaran, N., Sardana, R., Nandinie, H., Jain, A. J. (2017). Unusual presentation of local anaesthetic toxicity. *Journal of Clinical Anaesthesia*, 36, 36-38.

Hayaran, N., Goyal, N., Joy, S., Jain, A. (2017). Coiling of central venous catheter: A rare and preventable complication. *Anaesthesia: Essays and Researches*, 11(3), 773-775.

Faisal, I., Ganjoo, P., Garg, D., Batra, U. B., Srivastava, A. K., Singh, H. (2017). Phenytoin-induced fatal drug reactions in two patients with brain tumors: Need to re-think our routine anticonvulsant usage. *Neurology India*, 65, S95-7.

Kohli, P. (2016). Opioid induced Hyperalgesia. In *Anaesthesia Year Book-6*, 2016 released at ISACON

Singh, R. (2016)., Anaesthetic Challenges in Cleft Palate of Syndromic Babies. In *Anaesthesia Year Book - 6*, 2016 released at ISACON.

## Research Projects

Dr. Usha Saha and Dr. Radhika Agarwala, project, *Postoperative Morbidity in Patients with Pre-Existing Cardiovascular Disease Undergoing Elective Surgeries Under Anaesthesia.*

Dr. Ajay Kumar and Dr. Nitin Hayaran, project, *A Prospective Observational Study of Neurological Complications following Single Shot Brachial Plexus Block.*

Dr. S. K. Sinha and Dr. Rajeev Sharma, project, *A Study of Microbiological Outcomes of Central Venous Catheterization in Patients Undergoing Surgery.* Dr. Radhika Agarwala and Dr. Usha Saha, project, *Awareness during General Anaesthesia in Adult Patients Undergoing Non-Obstetric Surgical Procedures.*

Dr. Pramod Kohli and Dr. Maitree Pandey Banerjee, project, *A Study of Modified Aldrete Score and Fast-Track Criteria For Assessing Recovery From General Anaesthesia after Laparoscopic Surgery in Adults.*

Dr. Maitree Pandey and Dr. Pramod Kohli, project, *Study of Preoperative Risk Scores to Predict Outcome in Neonates after Surgery Under General Anaesthesia.*

Dr. Ranju Singh and Dr. Aruna Jain, project, *Study of Postoperative Pain Relief after Caesarean Delivery under Subarachnoid Block.*

Dr. Ranvinder Kaur and Dr. Usha Saha, project, *Influence of Timing of Intra Venous Fluid Therapy on Maternal Hemodynamics in Patients Undergoing Cesarean Section under Subarachnoid Block.*

Dr. Anshu Gupta and Dr. Maitree Pandey, project, *To Study the Occurrence of Postoperative Hyponatremia in Paediatric Patients.*

Dr. Aruna Jain and Dr. Nishant Kumar, project, *A study of relationship between Bispectral index values and age adjusted Minimum alveolar concentration during the maintenance phase of general anaesthesia in elective surgery.*

Dr. Usha Saha and Dr. Radhika Agarwala, project, *Occurrence of postoperative delirium in patients undergoing elective surgeries under general Anaesthesia.*

Dr. Sunil K. Sinha and Dr. Rajeev K. Sharma, project, *Evaluation of post-operative analgesia in cases of arthroscopic anterior cruciate ligament reconstruction: an observational study.*

Dr. Radhika Agarwala and Dr. Usha Saha, project, *Alteration in kidney function in patients undergoing elective laparoscopic surgery- an observational study.*

Dr. Pramod Kohli and Dr. Anshu Gupta, project, *The study of effect of patient's position on the success rate of subarachnoid block in parturients undergoing caesarean section.*

Dr. Maitree Pandey and Dr. Pramod Kohli, project, *Study of preoperative risk scores and maternal outcomes among obstetric patients posted for emergency caesarean deliveries.*

Dr. Ranju Singh, Dr. Aruna Jain and Dr. Manju Puri, project, *Evaluation of intravenously used anti-hypertensive drugs for preoperative blood pressure control in patients with hypertensive disorders of pregnancy undergoing caesarean delivery.*

Dr. Nitin Hayaran, Dr. Ranju Singh and Dr. Rajiv Chadha, project, *An observational study on chronic post-surgical pain in children following major abdominal surgery.*

Dr. Nishant Kumar and Dr. Aruna Jain, project, *Evaluation of intubating conditions with rocuronium 0.6mg/kg using train of four stimulation in elective surgery.*

Dr. Anshu Gupta, Dr. Usha Saha, project, *Postoperative Cognitive Dysfunction in Patients Undergoing Surgery under Monitored Anaesthesia Care.*

Dr. Pramod Kohli, Maitree Pandey, project, *The Study of Spinal Bony Landmarks as a Predictor of Successful Spinal Tap for Subarachnoid Block.*

Dr. Sunil K. Sinha, Dr. Rajeev Sharma, Dr. Dinesh Kataria, project, *A Hospital Based Observational Prospective Study to Evaluate Depression, Anxiety and Stress Symptoms in Adult Patients Suffering from Chronic Pain."*

Dr. Ranju Singh, Dr. Aruna Jain, Dr. Sushma Nangia, project, *Comparative Study of Vasopressors for Treatment of Hypotension during Spinal Anaesthesia in Non-Elective Caesarean Deliveries.*

Dr. Nitin Hayaran, project, *A Comparative Study to Evaluate Efficacy of Postoperative Analgesia with Either Caudal Epidural Block or Pudendal Nerve Block Following Hypospadias Repair.*

Dr. Usha Saha, Dr. Radhika Agarwala, project, *Preoperative Pulmonary Evaluation in Patients Undergoing Elective Surgical Procedures under General Anaesthesia and Its Correlation with Perioperative Respiratory Morbidity*.

Dr. Maitree Pandey, Dr. Pramod Kohli, project, *Comparative Study of Different Formulae for Prediction of Best First Endotracheal Tube Size in Children*.

Dr. Radhika Agarwala, Dr. Usha Saha, project, *Alteration in Post-Operative Pulmonary Function Tests in Patients Undergoing Laparoscopic Cholecystectomy under General Anaesthesia*.

Dr. Aruna Jain, Dr. Nishant Kumar, project, *Monitored Anaesthesia Care – Comparison of Different Techniques of Conscious Sedation for Fast Track Recovery*.

Dr. Nishant Kumar, Dr. Aruna Jain, project, *Recovery Profile of Desflurane with Air or Nitrous Oxide in Patients Undergoing General Anaesthesia*.

### **Seminars Organised**

Seminar in Anaesthesia on N-M system LA drugs, nerve blocks in Aug., 2017.

### **Conferences Organised**

Dr. Usha Saha Organised CME in Paediatric Anaesthesia at LHMC, March 4, 2017.

### **Seminar / Conference Presentation**

Sinha, attended the Indian Society of Anesthetists 2016 Conference, Delhi branch and delivered a lecture on Paediatric Anaesthesia update conducted by Department of Anaesthesia, LHMC.

Raksha, attended ISACON Conference in Nov., 2016 at Ludhiana and participated in Panel Discussion as faculty. She attended a workshop on research and publication in ISACON 2016 and also attended National Conference of Paediatric Anaesthesia in Feb., 2017.

Nitin, attended ISACON Conference in Nov., 2016 at Ludhiana. He was faculty for USG workshop at ISACON Ludhiana and Faculty at IPSA, Max Saket, Feb., 2017, Delhi.

### **Faculty Strength – 16**

### **Other Significant Information**

The faculty takes undergraduate classes for MBBS students as per schedule.

Postgraduate classes are conducted thrice a week, in the form of seminars, tutorials, case discussions and Journal Clubs.

CPR (BLS) workshops are conducted on a regular monthly basis for students and medical staff.

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## **ANAESTHESIOLOGY (UCMS)**

### **Honours / Distinctions**

Dr. A. K. Saxena:

Awarded Membership of International Association for Study of Pain (IASP), Washington, USA in 2010 and 2016.

Nominated by International Association for Study of Pain (IASP), USA, as a global member of the 'committee of committees' (COC) for 2016-2018 for global issues relevant to the advancement of the therapeutics of chronic pain and cancer pain and for initiatives on the themes for *Global year against pain*.

Awarded Certificate of Appreciation by ISA National for creating extensive public awareness about anaesthesia and pain management on World Anaesthesia Day, Oct. 16, 2016.



Nominated and elected in March, 2017 as the President of ISA Delhi Chapter for 2017-18, nominated as a member of the committee in May 2016 for drafting SOPs (for all 38 government hospitals under Government of Delhi) for Pre Anaesthetic Check-Up, Operation theatres, Post-Anaesthesia Care Unit, Immediate post-operative wards, and Paediatric Anaesthesia;

Nominated in July, 2016 to Bureau of Indian Standards, New Delhi, as subject expert in the field of Anaesthesiology, Pain Medicine and Critical care.

## Publications

Chilkoti, G., Mohta, M., Wadhwa, R., Saxena, A.K., Sharma, C.S., Shankar, N. (2016). Students' satisfaction to hybrid problem-based learning format for basic life support/advanced cardiac life support teaching. *Indian Journal of Anaesthesia*, 60, 821-826.

Chilkoti, G. T., Mohta, M., Duggal, S., Saxena, A. K. (2016). Anaesthetic concerns of a pregnant patient with Pott's spine for spine surgery in prone position. *Indian Journal of Anaesthesia*, 60, 518-9.

Chilkoti, G. T., Mohta, M., Janani, S. (2016). laryngospasm as a cause of unsuccessful placement of laryngeal mask airway proseal, a case report. *American Association of Nurse Anesthetists*. 84(6), 420-422.

Chilkoti, G. T., Mohta, M., Karthik, G., Saxena, A. K., (2017). Absent uvula, what mallampati class? *Indian Journal of Anaesthesia*, 61, 85-6.

Chilkoti, G. T., Mohta, M., Saxena, A. K. (2016). Anaesthetic concerns with intra-myometrial vasopressin during myomectomy. *Ain-Shams Journal of Anaesthesiology*, 09, 452-454.

Chilkoti, G. T., Mohta, M., Saxena, A. K., (2016). Preliminary experience with LMA CTrach for visualization of glottis structures during thyroid Decembertomy. *Anaesthesia Intensive Care*, 44, 785-86.

Chilkoti, G. T., Saxena, A. K. (2016). Anaesthetic management of unstable cervical spine -Is LMA CTrach a right choice? *American Association of Nurse Anesthetists*, 84, 280-282.

Mohta, A., Mohta, M. (2016). Accurate references add to the credibility. *Indian Paediatrics*, 53(11), 1003-1006.

Mohta, M., Aggarwal, M., Sethi, A. K., Harisinghani, P., Guleria, K. (2016). Randomized double-blind comparison of ephedrine and phenylephrine for management of post-spinal hypotension in potential fetal compromise. *International Journal of Obstetrics Anaesthesia*, 27, 32-40.

Mohta, M., Kalra, B., Sethi, A. K, Kaur, N. (2016). Efficacy of dexmedetomidine as an adjuvant in paravertebral block in breast cancer surgery. *Journal of Anaesthesia*, 30(2), 252-260.

Mohta, M. (2016). Social media, mine of opportunities but tread with caution! *Journal of Anaesthesiology Clinical Pharmacology*, 32, 385-6.

Mohta, M., Aggarwal, M. Tackling PACU woes in day care procedures, Sore throat, painful eye, anxiety. In *Souvenir 64th Annual National Conference of Indian Society of Anaesthesiologists* (pp 71-79).

Mohta, M., Chilkoti, G. T. (2016). Anaesthesia outside the operating room, what is optimal? In *Anaesthesia Update Book* (pp. 463-468). New Delhi: The Health Sciences Publisher.

Mohta, M., Khurana, P. (2016). Children with common congenital anomalies requiring surgery. In Ahuja S, Bhattacharya A (Eds.), *Essentials of Paediatric Anaesthesia and Intensive Care* (pp. 131-9). New Delhi: CBS Publishers.

Mohta, M., Mohta, A. (2016). Neonate with common congenital anomalies requiring surgery. In, (pp.131-9) Ahuja S, Bhattacharya A (Eds.), *Essentials of Paediatric Anaesthesia and Intensive Care* (pp. 117-30). New Delhi: CBS Publishers.

Mohta, M. (2016). Child with trauma. In, Ahuja S, Bhattacharya A (Eds.), *Essentials of Paediatric Anaesthesia and Intensive Care* (pp. 182-9). New Delhi: CBS Publishers.

Nasare, N. V., Mediratta, P. K., Banerjee, B. D., Deshmukh, P. S., Saxena, A. K., Bhattacharya, S. N., Ahmed, R. S. (2016). Translational medicine, impact on CYP2D6 polymorphism with respect to Tramadol treatment in post herpetic neuralgia. *World Journal of Pharmacy and Pharmaceutical Sciences*. 5(3), 377-419.

Salhotra, R., Mohta, M., Agarwal, D., Sethi, A. K. (2016). Intrathecal ropivacaine with or without Tramadol for lower limb orthopedic surgeries. *Journal of Anaesthesiology and Clinical Pharmacology*, 32, 483-6.

Saxena, A. K., Chilkoti, G. T., Chopra, A. (2016). Chronic persistent post-surgical pain following staging laparotomy for carcinoma of ovary and its relationship to signal transduction genes. *Korean Journal of Pain*, 29(4), 239-248.

Saxena, A. K., Lakshman, K., Sharma, T., Gupta, N., Banerjee, B. D., Singal, A. (2016). Modulation of serum BDNF levels following an integrated multimodal approach using pulsed radio frequency lesioning of intercostal nerve and pregabalin in thoracic Postherpetic neuralgia, a randomized, double blind controlled study. *Pain Management*, 6(3), 217-27.

Saxena A. K. (2016). Acute Pain Management Guidelines and Protocols, Evidence Based. In S.K. Malhotra (Ed.), *Practice Guidelines in Anaesthesia* (London 1st Edn. 2016, pp. 32-44). New Delhi: Jaypee, The Health Sciences Publisher.

Tyagi, A., Salhotra, R. (2016). Lower tidal volumes through Proseal laryngeal mask airway as compared to endotracheal tube? *Journal of Anaesthesiology and Clinical Pharmacology*, 32, 543-4.

### **Seminars Organised**

EORCAPS by Dr. A. K. Sethi, Sept. 2016.

### **Seminars / Conference Presentation**

Archana, Mohta, M., Radhakrishnan, G. Oral versus intravenous paracetamol for perioperative analgesia in patients undergoing abdominal hysterectomy—a randomized double-blind controlled trial. *In proceedings of 64th Annual Conference of ISA from Nov. 25-29, 2016 at Ludhiana, Punjab.*

AthiphroKayina C., Salhotra R., Sethi A. K., Chandra M., Mohta M. Confirmation of placement of endotracheal tube – comparison of ultrasound based vs. conventional methods, An exploratory study. *In proceedings of 64th Annual Conference of ISA from Nov. 25-29, 2016 at Ludhiana.*

Duggal S., Mohta M., Chilkoti G. Randomized double blind comparison of ephedrine and phenylephrine for management of post- spinal hypotension in preeclampsia patients undergoing caesarean section. *In proceedings of 64th Annual Conference of ISA from Nov. 25-29, 2016 at Ludhiana.*

Salhotra R., Gulati S., Jain A., Agarwal D., Sethi A. K. Failed fiberoptic bronchoscopic removal of a large endobronchial blood clot. *In proceedings of National Airway Conference 2016 from Sept. 16-18, 2016 at Vadodara.*

Saxena A. K., Singh A., Sharma T., Banerjee B. D., Singal A. Exploration of pain genes expression PKA, PKC, ERK and efficacy of Pulsed Radiofrequency application at dorsal root ganglion and pregabalin in Thoracic post herpetic neuralgia, A Randomized Controlled Study. Official Congress proceedings of 16th World Congress on Pain, held at Yokohama, Japan on Sept. 26–30, 2016.

Tyagi A., Sethi A. K., Tyagi A., Kumar M., Salhotra R. Leg compression devices to combat post-spinal hypotension in patients undergoing caesarean section, A randomised controlled trial. *In proceedings of 64th Annual Conference of ISA from Nov. 25-29, 2016 at Ludhiana.*

Chaudhary S., 55th ISACON 2016 held at AIIMS Delhi, April 9 -10, 2016.

Chaudhary S., EORCAPS Delhi, Aug. 26- September 3, 2016.

Chaudhary S., Airway workshop at 26 RSACPCON, Patna Chaired a session and delivered a talk, Oct. 14 -16, 2016.

Chaudhary S., Pre-conference workshop on difficult airway,

Chaudhary S., Chaired a session and delivered a talk at 64th Annual National Conference of ISA held at Ludhiana, Punjab, Nov. 25–29, 2016.

Chaudhary S., RAPACON 2017, Recent advances in Paediatric Anaesthesiology held at Super Specialty Paediatric Hospital and Post-graduate Teaching Institute, NOIDA (UP), Feb. 4, 2017.

Mohta M., 64th Annual National Conference of ISA, held at Ludhiana, Nov. 25 –29, 2016.

Mohta M., RAPACON 2017, Recent advances in Paediatric Anaesthesiology held at Super Speciality Paediatric Hospital and Post-graduate Teaching Institute, NOIDA (UP). Feb. 4, 2017.

Rashmi S., 64th Annual National Conference of ISA, Ludhiana. , Nov. 25 –29, 2016.

Rashmi S., RAPACON, Noida, Feb. 4, 2017.

Saxena A. K., delivered a lecture on Understanding Mosaic of Pain at the Annual National Conference of ISSP, held at Jaipur, Rajasthan, Feb. 03 -05, 2017.

Saxena A. K., moderator and faculty for panel discussion on Complications of Regional Anaesthesia”, during ISACON 2016 held, at Ludhiana, Punjab, Nov. 28 -29, 2016.

R. Salhotra, Invited lecture on Anaesthesia for Uncommon diseases, Muscular Dystrophy during the proceedings of 64<sup>th</sup> Annual Conference of ISA, Nov. 25-28, 2016 Organised by DMC Ludhiana, Punjab.

R. Salhotra, Invited Lecture on Non-Hemorrhagic Collapse, Intensivist’s Perspective during the proceedings of 23 Annual Conference of NARCHI, Delhi Branch Organised by LHMC, Oct. 22-23, 2016.

R. Salhotra, Invited lecture on Anaesthetic considerations for Obstetric Anaesthesia during the proceedings of PG Assembly 2017 Organised by GIPMER and GB Pant Hospital, Delhi on Feb. 25, 2017.

R. Salhotra, Invited Faculty for training of Obstetricians and Gynaecologists in *Maternal Resuscitation* Organised by the Department of Obstetrics and Gynaecology, UCMS and GTB Hospital in Oct., 2016.

R. Salhotra, Invited faculty for training of undergraduate students in Basic Life Support Skills during the proceedings of Prevention and Control of Injury, a teaching module Organised by UCMS in April, 2016.

**Faculty Strength – 9**

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## **BIOCHEMISTRY (MAMC)**

### **Major Activities and Achievements**

The Department is involved in teaching of undergraduate medical students and postgraduate MD training and includes able and qualified faculties, assisted by senior / junior residents and other supporting staff. It operates a 24 hrs clinical biochemistry Lab where various routine and emergency biochemistry parameters are tested using automated Clinical Chemistry analysers. The Department also conducts various special tests like hormone assays, tumor markers, vitamin levels (vit D, Vit B12, Folate) and Iron studies (Ferritin) using Electrochemiluminescence analyzers. It is also involved in research on various clinical aspects like CML, Metabolic syndrome, Atherosclerosis, Breast cancer, Lung Cancer, and Diabetes and is equipped with a cell culture lab for research. A highly specialized molecular diagnostic facility for detection of genetic abnormalities in different hematological malignancies and other solid cancers, viz. BCR-ABL translocation, JAK2 mutation, T315i for resistance of Imatinib for CML patients is functional in the department.

### **Honours / Distinctions**

The Biochemistry department received the prestigious FLEMMING Trophy 2016, for best research work from Dean, MAMC.

Dr. A. Saxena was group leader for Biochemistry in the Ministry of Health and Family Welfare, Government of India, committee for drafting minimum standards for medical diagnostic laboratories; and was nominated by UGC as Member Advisory Committee for Special Assistance Programme DRS-II to Dr. B. R. Centre for Biomedical Research, Delhi University.

### **Publications**

Chinya, A., Ratan, S. K., Aggarwal, S. K., Garg, A., Mishra, T. K. (2017). Association of levels of serum inhibin b and follicle-stimulating hormone with testicular vascularity, volume, and echotexture in children with undescended testes. *Journal of Indian Association of Paediatrics Surgeons*, 22(1), 3-8.

- Dholariya, S., Mir, R., Zuberi, M., Yadav, P., Gandhi, G., Khurana, N., Saxena, A., Ray, P. C. (2016). Potential impact of (rs 4645878) BAX promoter -248G>A and (rs 1042522) TP53 72Arg>pro polymorphisms on epithelial ovarian cancer patients. *Clinical and Translational Oncology*, 18(1), 73-81.
- Gopal, N., Koner, B. C., Bhattacharjee, A., Bhat, V. (2016). Assay of urinary protein-bound sialic acid can differentiate steroidsensitive nephrotic syndrome from steroid-resistant cases. *Saudi Journal of Kidney Diseases and Transplantation*, 27(1), 37-40.
- Goswami, D., Rani, R., Saxena, A., Arora, M. S., Batra, S., Sreenivas, V. (2016). Maternal and neonatal vitamin-D status in twin versus singleton pregnancies. *Journal of Obstetrics and Gynaecology Research*, 42(10), 1250-7.
- Javid, J., Mir, R., Saxena, A. (2016). Involvement of CASP3 promoter polymorphism (-1337 C>G) in the development and progression of non-small cell lung cancer. *Tumour Biology*, 37(7), 9255-62.
- Masroor, M., Javid, J., Mir, R., Yadav, P., Ahmed, I., Zuberi, M., Mohan, A., Ray, P. C., Saxena, A. (2016). Prognostic significance of serum ERBB3 and ERBB4 mRNA in lung adenocarcinoma patients. *Tumour Biology*, 37(1), 857-63.
- Mathur, N. B., Saini, A., Mishra, T. K. (2016). Assessment of adequacy of supplementation of vitamin D in very low birth weight preterm neonates: A randomized controlled trial. *Journal of Tropical Pediatrics*, 62(6), 429-35.
- Mir, R., Najar, I. A., Guru, S., Javid, J., Yadav, P., Masroor, M., Zuberi, M., Farooq, S., Bhat, M., Gupta, N., Ray, P. C., Saxena, A. (2016). A deletion polymorphism in the RIZ gene is associated with increased progression of imatinib treated chronic myeloid leukemia patients. *Leukemia and Lymphoma*, 10, 1-8.
- Mirza, M., Javid, J., Yadav, P., Mohan, A., Ray, P. C., Saxena, A. (2016). Detection of HER2 polymorphism and expression using circulating DNA and RNA as a tool in lung adenocarcinoma patients: a case control study. *Annals of Translational Medicine*, 4(11), 209.
- Mir, R., Masroor, M., Javid, J., Ahamad, I., Farooq, S., Yadav, P., Zuberi, M., Lone, M., Ray, P. C., Saxena, A. (2016). Clinical implications of cytosine deletion of exon 5 of P53 gene in non-small cell lung cancer patients. *South Asian Journal of Cancer*, 5(1), 33-6.
- Mir, R., Bhat, M. A., Javid, J., Shah, N., KuMar, P., Sharma, E., Jhu, C., Basak, S., Amle, D., Ray, P. C., Saxena, A., Banu, S. (2016). Glutathione S-transferase M1 and T1 (rs4025935 and rs71748309) null genotypes are associated with increased susceptibility to coronary artery disease in Indian populations. *Acta Cardiologica*, 71(6), 678-84.
- Ratan, S. K., Sharma, A., Kapoor, S., Polipalli, S. K., Dubey, D., Mishra, T. K., Sinha, S. K., Agarwal, S. K. (2016). Polymorphism of 3' UTR of MAMLD1 gene is also associated with increased risk of isolated hypospadias in Indian children: a preliminary report. *Pediatric Surgery International*, 32(5), 515-24.
- Sablania, P., Batra, S., Saxena, A. (2016). Insulin-like growth factor I receptor (IGF-IR) ligands and BMI in squamous intra-epithelial lesion (SIL) of cervix. *Journal of Clinical and Diagnostic Research*, 10(2), BC11-5.
- Singh, A., Koner, B. C., Ray, P. C., Prasad, S., Jamatia, E., Masroor, M., Singh, V. K. (2016). Effect of CYP1A1 gene polymorphism and psychological distress on seminal analysis parameters. *Reproductive Health*, 13(1), 60.
- Sinha, M., Tripathi, T., Rai, P., Gupta, S. K. (2016). Serum and urine insulin-like growth factor-1 as biochemical growth maturity indicators. *American Journal of Orthodontics and Dentofacial Orthopedics*, 150(6), 1020-7.
- Yadav, P., Mir, R., Nandi, K., Javid, J., Masroor, M., Ahmad, I., Zuberi, M., Kaza, R., Jain, S., Khurana, N., Ray, P. C., Saxena, A. (2016). The c609t (pro187ser) null polymorphism of the nqo1 gene contributes significantly to breast cancer susceptibility in north indian populations: A case control study. *Asian Pacific Journal of Cancer Prevention*, 17(3), 1215-9.
- Yadav, P., Mirza, M., Nandi, K., Jain, S. K., Kaza, R. C., Khurana, N., Ray, P. C., Saxena, A. (2016). Serum microRNA-21 expression as a prognostic and therapeutic bioMarker for breast cancer patients. *Tumour Biol.*, 37(11), 15275-82.
- Yadav, P., Masroor, M., Tanwer, K., Mir, R., Javid, J., Ahmad, I., Zuberi, M., Kaza, R. C., Jain, S. K., Khurana, N., Ray, P. C., Saxena, A. (2016). Clinical significance of TP53 (R72P) and MDM2 (T309G) polymorphisms in breast cancer patients. *Clinical and Translational Oncology*, 18(7), 728-34.
- Zuberi, M., Khan, I., Gandhi, G., Ray, P. C., Saxena, A. (2016). The conglomeration of diagnostic, prognostic and

therapeutic potential of serum miR-199a and its association with clinicopathological features in epithelial ovarian cancer. *Tumour Biol.*, 37(8), 11259-66.

Zuberi, M, Khan, I., Mir, R., Gandhi, G., Ray, P. C., Saxena, A. (2016). utility of serum mir-125b as a diagnostic and prognostic indicator and its alliance with a panel of tumor suppressor genes in epithelial ovarian cancer. *PLoS One.* 11(4), e0153902.

### **Research Projects**

Dr. A Saxena, ICMR funded Research Project (ICMR-SRF) (2016–ongoing), *Molecular mechanism of blast transformation (role of PDGFR) in imatinib treated CML patients.*

Dr. A Saxena, ICMR funded Research Project (ICMR-SRF), *Genetic alterations to understand the biology of epilepsy syndromes.*

Dr. A Saxena, UGC funded Research Project (UGC–Maulana Azad National Fellowship for minorities), *A genetic study to evaluate clinical implication of thrombomodulin and associated proteins in CAD.*

GNCT of Delhi funded project, 2016 -17, *A study of genetic alterations in breast cancer patients.* Rs. 1.5 Lakhs.

Dr. BC Koner: SERB, Department of Science and Technology, Govt. of India funded project, (2014–ongoing), *Effect of pesticides on Insulin signalling in L6 myotubes.* Rs. 41.24 Lakhs.

### **Seminar / Conference Presentation**

Amit Samadhiya, oral presentation Role of miRNA 17 and 19b in determining prognosis in newly diagnosed CML cases at ACBICON-2016 at KMC, Mangalore and Delhi society of hematology 27<sup>th</sup> Annual Conference.

Amit Samadhiya, oral presentation on Role of miRNA 19b in CML at the National Conference of Association of Medical Biochemists of India (AMBICON-2016) held in Nov., 2016 at Guwahati, India.

Alpana Saxena, oral presentation on Circulating ERBB3 and ERBB4 in serum as prognostic Markers in lung cancer patients at 6 ITCRC, Ahmedabad.

Chandni Lamba, oral presentation on Study of KRas gene codon 12 mutation and p53 autoantibodies in epithelial ovarian cancer at the National Conference of Association of Medical Biochemists of India (AMBICON-2016) held in Nov., 2016 at Guwahati, India.

Pratima Verma, oral presentation on Role of serum sclerostin in CAD at the National Conference of Association of Medical Biochemists of India (AMBICON-2016) held in Nov., 2016 at Guwahati, India.

**Ph.D. Awarded – 2**

**Faculty Strength – 8**

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## **BIOCHEMISTRY (LHMC)**

### **Major Activities and Achievements**

The Department is involved in teaching undergraduate medical students and postgraduate MD training. We run a 24 hrs Clinical Biochemistry lab where various organ function tests and hormone assays are done using automated Clinical Chemistry and immunodiagnostic analyzers. We operate routine and emergency biochemistry lab for KSCH. We are in the process of starting more clinical test like tumor markers, new born screening and hormone assays like Insulin, PTH, Vitamin B12 and Folate for paediatric and adult patient care. We also conduct research on tuberculosis, diabetes, atherosclerosis and issues related to maternal and child health care. The Department team includes able and qualified faculty, assisted by Senior / Junior residents and supporting staff. We actively participate in conferences and publish papers in national and international journals.

## Publications

- Balwani, M., Singh, P., Seth, A., Debnath, E. M., Naik, H., Doheny, D., Chen, B., (...), Desnick, R. J. (2016). Acute Intermittent Porphyria in children: A case report and review of the literature. *Molecular Genetics and Metabolism*, 119 (4), 295-299.
- Bherwani, S., Saumya, A. S., Ahirwar, A. K., Sandhya, A. S., Prajapat B., Patel, S., Singh R., Ghotekar, L. H. (2016). The association of folic acid deficiency and diabetic nephropathy in patients with type 2 diabetes mellitus. *Endocrine, Metabolic and Immune Disorders - Drug Targets*, 16(2), 120-123.
- Bherwani, S., Jibhkate, S. B., Saumya, A. S., Patel, S. K., Singh, R., Ghotekar, L. H. (2017). Hypomagnesaemia: a modifiable risk factor of diabetic nephropathy. *Hormone Molecular Biology and Clinical Investigation*, 29(3), 79-84.
- Debnath, E. M., Datta, R. R., Debnath, P. R., Jain, A. (2016). Paediatric constipation; Think beyond thyroid causes. *Journal of Nepal Paediatric Society*, 36(2), 143-146.
- Devi, A., Singh, R., Dawar, R. (2016). Association of cholesteryl ester transfer protein (CETP) gene -629 C / A polymorphism with angiographically proven Atherosclerosis. *Indian Journal of Clinical Biochemistry*, 12291-016-0585-6
- Devi, A., Singh, R., Tyagi, S. (2016). Lecithin cholesterol acyltransferase (LCAT) as biomarkers of angiographically proven Atherosclerosis. *International Journal of Recent Scientific Research*, 7(6), 12177-79.
- Devi, A., Singh, R., Tyagi, S. (2016). Serum uric acid and albumin as risk predictors of angiographically proven atherosclerosis. *International Journal of Agricultural Science and Research*, 1(7), 51-53.
- Devi, A., Singh, R., Tyagi, S. (2016). Apolipoprotein B / A1 Ratio as Risk Predictor of Angiographically Proven Atherosclerosis. *International Journal of Advanced Research*, 4(6), 1324-28.
- Tripathi, S., Arora, M., Saini, V., Jain, A. (2017). Vitamin D deficiency in infertility cases, a pilot study in Delhi. *Indian Journal of Basic and Applied Medical Research*, 6, 130-135.
- Tripathi, S., Ram, S., Singh, K., Singh, R. (2016). Dyslipidemia of T2DM does not include Lp (a), a cross sectional study in North Indian population. *International Journal of Recent Scientific Research*, 7, 11221-11224.
- Dawar, R., Tabassum. (2016). Maternal Vitamin D deficiency: A risk factor for Gestational Diabetes Mellitus in North India. *Indian Journal of Applied Research*, 6(11), 67-69.
- Dawar, R., Sharma, N. (2016). Acquired methemoglobinemia in an infant. *International Journal of Current Research*, 8(8), 36269-36271.
- Ekka, D. C., Jain, A., Puri, M. (2016). Role of hormones in unexplained infertility. *Indian Journal of Medical Biochemistry*, 20(1), 34-37.
- Gogoi, P., Debnath, E., Singh, R., Jain, A. (2017). A comparative study of conventional teaching methods and case discussions among the First Year MBBS Students. *Astrocyte*, 3, 209-12.
- Kumar, M., Vajala, R., Sharma, K., Singh S., Singh R., Gupta, U., Bhattacharjee, J. (2017). First trimester reference centiles of fetal biometry in Indian population. *The Journal of Maternal Fetal and Neonatal Medicine*, 30(23), 2804-2811.
- Kumar, M., Singh S., Sharma, K., Singh R., Ravi V., Bhattacharya, J. (2017). Adverse fetal outcome: Is first trimester ultrasound and Doppler better predictor than bioMarkers? *The Journal of Maternal Fetal and Neonatal Medicine*, 30(12), 1410-1416.
- Kumar, M., Sharma, K., Singh, R., Singh, S., Ravi, V., Singh, K., Gupta, U., Bhattacharya, J. (2016). Role of maternal factors, PAPP-A, and Doppler in screening for early- and late-onset pregnancy hypertension in Asian Population. *Hypertension in Pregnancy*, 35(3), 382-93.
- Kumar, M., Gupta, U., Bhattacharjee, J., Singh, R., Singh, S., Goel, M., Sharma, K., Rehman, M. U. (2016). Early prediction of hypertension during pregnancy in a low-resource setting. *International Journal of Gynaecology and Obstetrics*, 132(2), 159-64.
- Sahu, B., Abbey, P., Anand, R., Kumar, A., Tomer, S., Malik, E. (2017). Severity assessment of acute pancreatitis using CT severity index and modified CT severity index: Correlation with clinical outcomes and severity grading as per the Revised Atlanta Classification. *Indian Journal of Radiology and Imaging*, 27, 152-60.

Sanke, S., Chander, R., Jain, A., Garg, T., Yadav, P. (2016). A comparison of the hormonal profile of early androgenetic alopecia in men with the phenotypic equivalent of polycystic ovarian syndrome in women. *JAMA Dermatology*, 152(9), 986-991.

Soni, S., Singh R., Yadav A., Prakash, A. (2016). Serum Paroxonase levels in Type 2 Diabetes Mellitus: A Marker of Oxidative stress. *International Journal of Current Medical and Applied Sciences*, 10 (3), 133-137

Verma, N., Tripathi, S., Sharma, S. (2016). Drug compliance in children with epilepsy: Cross sectional study, New Delhi. *Indian Journal of Child Health*, 3, 311-313.

Yadav, S., Arora, M., Malik, E., Sandhu, R., Hasija, S., Jain A. (2016). Association of ferritin and endothelin -1 as risk factor in patients of gestational diabetes mellitus (GDM). *Indian Journal of Applied Medical Research*, (6), 523-28.

### **Research Projects**

Dr. Anju Jain, project, *A randomized control trial to compare the efficacy of N acetyl cysteine, metformin or placebo therapy on clinical, hormonal, metabolic and oxidative stress profile of infertile women with polycystic ovary syndrome along with clomiphene citrate.*

Dr. Ritu Singh, Dr. J. Bhattacharjee, Dr. Rajni Dawar, project sanctioned by DHR-MohFw: Study with G B Pant Hospital on *Study of Proteomic and Genetic bioMarkers of inflammatory and matrix remodelling pathways having significance in myocardial infarction.*

### **Seminar / Conference Presentation**

Anju Jain, Invited Talk, Organised by NIOH at Ahmedabad, International Conference on reproductive health at NIOH, Ahmedabad from Feb. 18-20, 2016 (Follicle stimulating hormone receptor gene polymorphism (ser680asn) in polycystic ovarian syndrome).

Anju Jain, Delegate, Organised by SGRH, Feb. 6, 2016.

Anju Jain, Chairperson, Organised by IABS, IABS

Anju Jain, Distinguished lecture at 27 Feb., 2016 at IHC.

Anju Jain, Chairperson, Organised by DC-ISAR RML & PGIMER, Symposium of Delhi Chapter ISAR 2016 on 6 Aug., at PGIMER – Dr RML Hospital New Delhi, on Preventing Atherosclerosis – Nutrition and Lifestyle.

Anju Jain, Convener and speaker, Organised by AMBICON Guwahati Medical College, Symposium on How to write a good scientific paper at 24 AMBICON Gawhati from Nov. 17- 20, 2016.

Jayashree Bhattacharjee, Invited Talk, Organised by AMBICON, Guwahati, Assam, Nov., 2016.

Jayashree Bhattacharjee, Invited Talk, Organised by ISAR, Aster Medcity, Kochi, Nov., 2016.

Jayashree Bhattacharjee, Invited Talk, Organised by ACBICON, Mangalore, Dec. 13-16, 2016.

Ritu Singh, Invited Talk on 'Modification of LDL in ischaemic heart disease' Organised by ISAR, Aster Medcity, Kochi in Nov., 2016.

Ritu Singh, Invited Talk on 'Role of Inflammation and MMP-9 in vascular stability and Coronary Artery Disease' Organised by AMBICON, Gawhati, Assam in Nov., 2016.

Ekta Debnath, Delegate, Organised by PGIMER & RML, Anorectal malformations on Feb., 2016.

Ekta Debnath, Oral Presentation, Organised by IAPSCON-2016,

Ekta Debnath, Oral presentation, Paediatric constipation- think beyond thyroid causes in Sept., 2016.

Ekta Debnath, Delegate, CME Organised by Department of Obstetrics and Gynaecology LHMC, Diabetes in pregnancy on 19 Nov., Medical Education Cell, LHMC.

Ekta Debnath, Delegate, Organised by Paediatric Surgery KSCH, CME on advancement in paediatric Surgery centenary celebration March 2016.

Ekta Debnath, Delegate, Organised by DC-ISAR, PGIMER-RML, Symposium of Delhi Chapter ISAR 2016 on 6 Aug. at PGIMER-Dr. RML Hospital New Delhi, on Preventing Atherosclerosis –Nutrition and Lifestyle.

Smita Tripathi, Invited Talk, Organised by ISARCON, Aster Medicity, Kochi.

Rajni Dawar, Oral Presentation, Organised by AMBICON Guwahati Medical College, Assam, Guwahati Assam (Nov. 17-20, 2016) in 24th Annual National Conference of Association of Medical Biochemists of India. (Hyperthyroidism in Gestational Trophoblastic Disease).

Rajni Dawar, Delegate, Organised by Molecular Biology Division NICPR, Noida (Formerly ICPO), Basic Molecular Biology Techniques relevant to cancer Research-Hands on Training on National Institute of Cancer Prevention and Research (NICPR) Dec. 6-9, 2016.

Rajni Dawar, Delegate, Organised by DC-ISAR, 2 Symposium of Delhi Chapter ISAR 2016 on 6 Aug. at PGIMER-Dr. RML Hospital New Delhi, on Preventing Atherosclerosis –Nutrition and Lifestyle.

Parijat Gogoi, Delegate, Organised by Department of Obstetrics and Gynaecology, LHMC, CME on Diabetes in Pregnancy Nov. 19, 2016 in Medical Education Cell, S. J. Auditorium Complex, LHMC, New Delhi.

Parijat Gogoi, Delegate, Organised by Department of Psychiatry, CME on Violence in Clinical Psychiatry, Seminar Room, KSCH, Feb. 27, 2016.

### **Inter-Institutional Collaboration**

GB Pant as in project sanctioned by DHR-MohFw: Study with G B Pant Hospital on *Study of Proteomic and Genetic bioMarkers of inflammatory and matrix remodelling pathways having significance in myocardial infarction.*

**Ph.D. Awarded** – 1

**Faculty Strength** – 8

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## **BIOCHEMISTRY (UCMS)**

### **Major Activities and Achievements**

Department of Biochemistry has made significant progress in undergraduate and post graduate training and research. One student was awarded Ph.D. and currently there are 16 students registered under various faculty members. Many faculty members were invited for presenting research papers at reputed national and international conferences. Many of them are also holding eminent positions in various national and international expert/technical/reviewer committees. Currently there are four ongoing projects and one new project has been sanctioned. Faculty members have published more than thirty research articles in peer reviewed International/National journals of high impact factor. The Department of Biochemistry has contributed significantly in the field of bronchial asthma, lung fibrosis and carried out studies on adenosine deaminase levels in COPD patients. The faculty is actively involved in providing diagnostic services for patient care; teaching, supervising M.D. Medical Biochemistry students, Ph.D. Medical Biochemistry students and imparting training to students of other institutes.

### **Honours / Distinctions**

Second prize to Manoj Kumar (Ph.D. student) for Young Scientists Oral Presentation, Changes in erythrocyte membrane protein profile in asthma at 6th Annual CME of Clinical Biochemistry–2017 Trace Elements – The Forgotten Essentials Organised by Department of Biochemistry, Sir Ganga Ram Hospital, New Delhi and Association of Clinical Biochemists of India (Delhi Chapter & North Zone) held on March 17, 2017 at Sir Ganga Ram Hospital, New Delhi.

Appreciation prize to Dr. Bhagwan Singh Patidar ((MD student) for Young Scientists Oral Presentation, Alteration in the activity of adenosine deaminase and its isoenzymes in serum, lymphocytes and erythrocytes of COPD patients at 6th Annual CME of Clinical Biochemistry–2017 Trace Elements – The Forgotten Essentials Organised by Department of biochemistry, Sir Ganga Ram Hospital, New Delhi and Association of Clinical Biochemists of India



(Delhi Chapter & North Zone) held on March 17, 2017 at Sir Ganga Ram Hospital, New Delhi.

## Publications

Agarwal, R., Kumari, R., Mehndiratta, M., Radhakrishnan, G., Faridi, M.M., Chandra, N. (2016). Pregnancy-associated plasma protein a levels in late first trimester pregnancies with small-for-gestational age neonates: A prospective case–control study. *The Journal of Obstetrics and Gynecology of India*, 1-6.

Aiman A. Jafri, Suman B. Sharma, Usha R. Singh, Kalpana Luthra. (2016). Herbal anti- hyperglycemic compound improves glycemic control and insulin sensitivity in diabetic rats. *J Diabetes Obes.*, 3(2), 1-6.

Gautam, A., Gupta, S., Mehndiratta, M., Sharma, M., Singh, K., Kalra, O.P., Agarwal, S., Gambhir, J. K. (2017). Association of NFKB1 gene polymorphism (rs28362491) with levels of inflammatory biomarkers and susceptibility to diabetic nephropathy in Asian Indians. *World Journal of Diabetes*, 8(2), 66.

Gupta, G., Sharma, S. B., Gupta, R., Gupta, S., Singh, U. R. (2016). Assesment of prophylactic effect of *Senna auriculata* (L.) Roxb. leaves on alcohol induced pancreatitis in rat model. *Ind. Jr. of Experimental Biology*, 54, 612-614.

Halder, S., Kar, R., Mehta, A. K., Bhattacharya, S. K., Mediratta, P. K, Banerjee, B. D. (2016). Quercetin modulates the effects of chromium exposure on learning, memory and antioxidant enzyme activity in f1 generation mice. *Biol Trace Elem Res*, 171(2), 391-398.

Kumar, M., Singh, R., Meena, A., Patidar, B. S., Prasad, R., Chhabra, S. K., Bansal, S. K. (2017). An improved 2-dimensional gel electrophoresis method for resolving human erythrocyte membrane proteins. *Proteomic Insights*, 8: 1-7.

Mahto, S., Sharma S. B., Dwivedi, S., Sethi, M., Saxena, R. (2016). Potential role of apolipoprotein B / A1 ration in Obese and non –obese female patients of coronary artery disease. *Asian Jr of Medical Sciences*, 7(3), 18-22.

Neogi, S. S., Mehndiratta, M., Gupta, S., Puri, D. (2016). Pre-analytical phase in clinical chemistry laboratory. *J Clin. Sci. Res.*, 5, 171-8.

Pal, G., Rohil, V., Akhtar, R., Behl, T., Sudha, B., Swain, T. R., Mohammed, I., Jena J. (2017). Pharmacological and Biochemical modulation of stress Marchkers by L-NAME and L-Ascorbic Acid in chronic restraint model in Wistar rats, *Asian Journal of Medical Sciences*, 8 (1), 15-20.

Rohii, V., Vijayan, V. K., Kumar, R., Joshi, R., Pavani, P., Paul, S., Sharma, A., Rahman, M. U. (2017). A study on the correlation of Matrix Metalloproteinase MMP1 in COPD and Smoking in the North Indian Population, *Asian Journal of Medical Sciences*, 8(1), 5-14.

Sharma, A., Rohil, V., Paul, S., Kumar, A., Joshi, R., Kumar A. P., Bhattacharjee, J. (2017). Anticancer activity of ellagic acid peracetate in human lung cancer A549 cell line, *International Journal of Current Medical and Pharmaceutical Research*. 3(2), 1341-1347.

Sharma, M., Gupta, S., Singh, K., Mehndiratta, M., Gautam, A., Kalra, O. P., Shukla, R., Gambhir, J. K. (2016). Association of glutathione-S-transferase with patients of type 2 diabetes mellitus with and without nephropathy. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, 31, 10(4), 194-7.

Sharma, M., Mehndiratta, M., Gupta, S., Kalra, O. P., Shukla, R., Gambhir, J. K. (2016). Genetic association of NAD (P) H quinone oxidoreductase (NQO1\* 2) polymorphism with NQO1 levels and risk of diabetic nephropathy. *Biological Chemistry*, 1, 397(8), 725-30.

Tanwar, R. S., Sharma, S. B., Prabhu, K. M. (2016). In vivo assessment of antidiabetic and antioxidative activity of natural phytochemical isolated from fruit-pulp of *Eugenia jambolana* in streptozotocin-induced diabetic rats. *Redox Rep.*, 21,1-7.

## Research Projects

Dr. Mohit Mehndiratta, ICMR funded project, for 2.5 years,, *Role of vitamins (A, C, D and E) telomere biology and keapl – Nrf2-ARE pathway in the development of idiopathic preterm prelabour rupture of membranes*, Rs.22,31,260/-

Dr. Rajarshi Kar, DBT ICMR funded project, for 3 years,, *Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study*, Rs. 23,57,000/-

Dr. S. K. Bansal, Dr. D.S. Kothari, Post Doctoral Fellowship funded project, for 3 years,, *Erythrocytic Membrane Proteins: Expression proteomics and their significance in bronchial asthma*, Rs.19,54,000/-

Dr. S. K. Bansal, DBT-SRF funded project, for 5 years,, *Studies on erythrocyte membrane protein profile and oxidant and antioxidant status of blood in bronchial asthma*, Rs.17,26,000/-

Dr. S. K. Bansal, UGC-SRF funded project,, *Role of innate immune response mechanisms in development of bleomycin induced lung fibrosis*, Rs.19,00,000/-

Dr. S. K. Bansal, ICMR-JRF funded project,, *A study on CRHR1 and GR gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population*, Rs. 21,00,000/- Lakhs.

Dr. Seema Garg, DHR (under MRU, UCMS) funded project, (ongoing), 3 years,, *Interplay between platelet activating Factor-Acetyl Hydrolase (PAF-AH), inflammation and oxidative stress in metabolic syndrome*, Approx Rs. 8,00,000/-

Dr. Vishwajeet Rohil, DBT funded project, for 3 years,, *To Investigate The Role of Calreticulin Transacetylase Mediated Histones Hyperacetylation Induced Epigenetic Modulation By Polyphenolic Acetates In Genes Implicated In Lung Tumorigenesis*, Rs. 32,16,000/-

Dr. Vishwajeet Rohil, MRU (ICMR) funded project,, *To elucidate the role of Ellagic acid and its derivative via CRTAase in the gene expression profile of lung carcinogenesis*, Rs. 3,00,00,000/-

## Conferences Organised

Seminar on Systemic Hypoxia and Organ Dysfunction at V.P. Chest Institute / DIPAS / INASS & Delhi Chapter, ACBI on July, 18, 2016.

Genetically engineered Vaccine against Anthrax: From Clone to Clinical Trial at Vallabhbhai Patel Chest Institute, University of Delhi, on Aug. 5, 2016.

ICAAICON2016 – Golden Jubilee Conference at Vallabhbhai Patel Chest Institute, University of Delhi, on Oct. 22-25, 2016.

## Seminar / Conference Presentations

Bansal S.K., Delivered a Lecture, Stem Cell Therapy in Asthma at ICAAICON-2016 - Golden Jubilee Conference VPCI, DU, Delhi, Oct. 22- 25, 2016.

Bansal S.K., Chaired Prof. Suresh C. Tyagi Award session (Young Faculty) Recent Advances in Cardiovascular Research: Impact on Health and Disease - 9th Annual Conference of International Academy of Cardiovascular Sciences (India Section) at VPCI, DU, Delhi, Feb. 9-11, 2016.

Mehndiratta, Mohit., Poster presentation at 46th Annual Conference-ESICON 2016, held at New Delhi, India, Oct. 21- 23, 2016.

Mehndiratta, Mohit., Participated in 12<sup>th</sup> International Conference of the Asian clinical oncology society and 35 Annual convention of Indian association for cancer research, New Delhi, India, April 08 – 10, 2016.

Mehndiratta, Mohit., Participated in a symposium – Advances in cardiac bioMarkers: an update, held at GIPMER, New Delhi, April 23, 2016.

Mehndiratta, Mohit., Attended and participated in DC-ISAR symposia 2016-Preventing atherosclerosis – nutrition and life style at PGIMER, Dr. RML Hospital on, New Delhi, Aug. 6, 2016

Mehndiratta, Mohit., Participated in MAX MEDICON 2017, held at New Delhi, Jan. 21 - 22, 2017.

Garg, Seema., Symposium – Advances in cardiac biomarkers: an update, held at GIPMER, New Delhi, April 23, 2016.

Garg, Seema., DC-ISAR Symposia 2016- Preventing atherosclerosis – nutrition and lifestyle, at PGIMER, Dr. RML Hospital, New Delhi, Aug. 6, 2016.

Garg, Seema., Structural Bioinformatics and Molecular Docking on May 5, 2016 at Paintal Memorial Golden Jubilee Auditorium, V.P. Chest Institute, University of Delhi, Delhi-7.

Garg, Seema., Poster Presentation at 46 Annual Conference-ESICON 2016, held at New Delhi, India, Oct. 21 – 23, 2016.

Kar, Rajarshi., 12<sup>th</sup> Conference of the Asian Clinical Oncology Society and 35 Annual Convention of Indian Association for Cancer Research & Mid-Term Conference of IASO, New Delhi, April, 8-10, 2016.

Kar, Rajarshi., Advances in Cardiac BioMarkers: An Update, April 23, 2016.

Kar, Rajarshi., DC-ISAR Symposium 2016: Preventing Atherosclerosis – Nutrition and Lifestyle”, Aug. 6, 2016.

Kar, Rajarshi., 46th Annual Conference of Endocrine Society of India, Oct. 21 – 23, 2016

Kar, Rajarshi., 24th Annual Conference of Association of Medical Biochemists of India, 2016, Nov. 18 – 20, 2016.

Puri, Dinesh., 24th Annual Conference of Association of Medical Biochemists of India, Nov. 18 – 20, 2016.

Puri, Dinesh., Invited lecture at 43rd Annual Conference of Association of Clinical Biochemists of India held at Mangalore, Dec. 12<sup>th</sup> - 15, 2016.

Rohil Viswajeet, delivered a Plenary Lecture, Therapeutic Potential of Polyphenol Acetates in Lung Cancer through a Novemberel Mechanism via Epigenetic Modulation in the plenary session of 2nd SBMLS Scholar’s meet Organised by The Society of Biomedical Laboratory Scientists (SBMLS).

Sharma, Suman Bala., Chairing/Orations, IABSCON, 2017, International Conference on recent advances on Biomedical Sciences, Bhavnagar, Gujarat, Jan., 5 - 8, 2017.

Sharma, Suman Bala., Chairing/Orations, Isarcon 2016 at Aster Medcity, Kochi, Oct. 21 -23, 2016.

Sharma, Suman Bala., Chairing/Orations, DC-ISAR, Preventing Atherosclerosis – Nutrition and life style held at RML Hospital, New Delhi, Aug. 6, 2016.

### **Inter-Institutional Collaboration**

Completed Project in collaboration with other institutes on Nov. 30, 2016 and submitted final report Project Title: To Investigate the Role of Calreticulin Transacetylase Mediated Histones Hyper acetylation Induced Epigenetic Modulation by Polyphenolic Acetates in Genes Implicated in Lung Tumorigenesis funded by Department of Biotechnology (DBT), Ministry of Science & Technology.

Institutes: Vallabhbbhai Patel Chest Institute, University of Delhi, India and Vardhman Mahavir Medical College and SafdarJung Hospital, New Delhi, India. (Co-Investigator: Prof. Jayashree Bhattacharjee, Director Professor and Principal, Vardhman Mahavir Medical College and SafdarJung Hospital, New Delhi.) Principal Investigator and Coordinator: Dr. Vishwajeet Rohil, Clinical Biochemistry, Department of Biochemistry, V. P. Chest Institute, University of Delhi,

### **M.Phil / Ph.D Awarded**

Ph.D. – 1

UCMS – 2

VPCI – 1

### **Faculty Strength**

UCMS: 7

VPCI: 2

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## BIOCHEMISTRY (VPCI)

### Major Activities and Achievements

VPCI provides diagnostic services for patient care; is actively involved in Research, Teaching, and Supervising M.D. Medical Biochemistry students (Pursuing: 1), Ph.D. Medical Biochemistry students (Pursuing: 2); and has imparted training to students (8) of other prestigious institutes. Diagnostic services are provided to indoor and outdoor patients, samples analyzed by AU 480 Auto-Analyzer, Beckman Coulter. New Clinical Biochemical parameters were added under the supervision of Dr. V. Rohil: Total Cholesterol, LDL, HDL, VLDL, Triglycerides, Glycated haemoglobin. The number of tests from April 1, 2016 to March 31, 2017 is 52,627. Completed and submitted final report of the multi-institutional DBT Project and one MRU (ICMR) Project is ongoing with Dr. V. Rohil as P.I. of both. In the ongoing MRU Project – 4(ii), the Human Non-Small Cell Lung (A549) cell line has been maintained and transient transfection of CALR gene in A549 cell-line, IC50 of Ellagic Acid and Valproic Acid, functional assay of H3-Histone, Melt-Curve analysis of Lung Cancer associated genes by RT-PCR were performed.

### Honours / Distinctions

Manoj Kumar (Ph.D. student) won second prize for the Young Scientists Oral Presentation, Changes in erythrocyte membrane protein profile in asthma at 6 Annual CME of Clinical Biochemistry-2017. Trace Elements - The Forgotten Essentials Organised by Department of biochemistry, Sir Ganga Ram Hospital, New Delhi and Association of Clinical Biochemists of India (Delhi Chapter & North Zone) held at Sir Ganga Ram Hospital, New Delhi, March 17, 2017.

Dr. Bhagwan Singh Patidar ((MD student) won the Appreciation prize for Young Scientists Oral Presentation, Alteration in the activity of adenosine deaminase and its isoenzymes in serum, lymphocytes and erythrocytes of COPD patients at 6th Annual CME of Clinical Biochemistry – 2017 Trace Elements – The Forgotten Essentials Organised by Department of Biochemistry, Sir Ganga Ram Hospital, New Delhi and Association of Clinical Biochemists of India (Delhi Chapter and North Zone) held at Sir Ganga Ram Hospital, New Delhi, March 17, 2017.

Dr. Vishwajeet Rohil:

External Expert by DIPAS to attend the meeting on Project Monitoring And Review Committee Meeting To Review The Progress of XIIFYP Projects held at Defence Institute of Physiology and Allied Sciences (DIPAS), Defence Research and Development Organisation (DRDO), Ministry of Defence, Govt. of India on Sept. 29, 2016, Dec. 14, 2016, March 16, 2017 and March 17, 2017.

Was awarded Scientist Of The Year 2016 for his outstanding contribution and recognition in the field of Medical Biochemistry on the occasion of BIOMEDCON 2016 Organised by The Society of Biomedical Laboratory Scientists (SBMLS), India held on Dec. 16, 2016 at Gandhi Peace Foundation, New Delhi.

Certificate of Excellence for delivering a Plenary Lecture and for Chairing the session during 2nd Annual Scholar's Science Meet of SBMLS Organised by The Society of Biomedical Laboratory Scientists (SBMLS), India held on Dec. 16, 2016 at Gandhi Peace Foundation, New Delhi

### Publications

Kumar, M., Singh, R., Meena, A., Patidar, B. S., Prasad, R., Chhabra, S. K., Bansal, S. K. (2017). An improved 2-dimensional gel electrophoresis method for resolving human erythrocyte membrane proteins: *Proteomic Insights*, 8, 1-7.

Pal, G., Rohil, V., Akhtar R., Behl T., Bharati S., Swain, T. R., Imran, M., Jena, J. (2017). Pharmacological and biochemical modulation of stress Markers by L-NAME and L-Ascorbic Acid in chronic restraint model in Wistar rats. *Asian Journal of Medical Sciences*, 8(1), 15-20.

Rohil, V., Vijayan, V. K., Kumar, R., Joshi, R., Pavani, P., Paul S., Sharma, A., Rahman, M. (2017). A study on the correlation of Matrix Metalloproteinase MMP1 in COPD and smoking in the north Indian population. *Asian Journal of Medical Sciences*, 8(1), 5-14.

Sharma, A., Rohil, V., Paul, S., Kumar, A., Joshi, R., Prasad, A K., Bhattacharjee, J. (2017). Anticancer activity of ellagic acid peracetate in human lung cancer A549 cell line. *International Journal of Current Medical and Pharmaceutical Research*, 3(2), 1341-1347.

Agarwal, M. K., Bansal, S. K. (2016). *Immune response and IGE- Mediated type-I allergic respiratory disorders*. In Raj Kumar (Ed.), *Allergy and immunotherapy manual* (pp1-12). Publisher: National Centre of Respiratory Allergy Asthma & Immunology.

Agarwal, M. K., Bansal, S. K. (2016). *Immune response and IGE- Mediated Type-I Allergic respiratory disorders*. In Shankar NPS, Gaur SN, Raj Kumar (Eds.), *Allergen testing and immunotherapy - Workshop book* (pp. 45-58). Mumbai: Advanced Multispecialty Hospital, Homeopathic Medical College Campus.

### Research Projects

Prof. S. K. Bansal, Prof. R. Prasad, Prof. S. K. Chhabra, project funded by Dr. D. S. Kothari Post Doctoral Fellowship (Dr. Rajendra Singh as PDF), April 18, 2013 (the project was over on April 17, 2016),, *Erythrocytic Membrane Proteins: Expression proteomics and their significance in bronchial asthma*. Rs. 19.54 Lakhs.

Prof. S. K. Bansal, Prof. Rajendra Prasad, Prof. S. K. Chhabra, project funded by DBT-SRF (Mr. Manoj Kumar), April 18, 2011 (for five years),, *Studies on erythrocyte membrane protein profile and oxidant and antioxidant status of blood in bronchial asthma*. Rs.17.26 Lakhs.

Prof. S. K. Bansal, Dr. Ritu Kulshrestha, project funded by UGC-SRF, July 2, 2012, *Role of innate immune response mechanisms in development of bleomycin induced lung fibrosis*. Rs.19.00 Lakhs.

Prof. S. K. Bansal, Prof. S. K. Chhabra Dr. B. K. Menon, project funded by ICMR-JRF, Jan. 28, 2014,, *A study on CRHR1 and GR gene polymorphism and their correlation with the expression of various inflammatory cytokines in asthma in North Indian population*. Rs. 21.00 Lakhs.

Dr. Vishwajeet Rohil, (Completed) project funded by DBT, (Sept. 26, 2013- Nov. 30, 2016),,: *To Investigate The Role of Calreticulin Transacetylase Mediated Histones Hyperacetylation Induced Epigenetic Modulation By Polyphenolic Acetates In Genes Implicated In Lung Tumorigenesis*. Rs. 32.16 Lakhs.

Dr. Vishwajeet Rohil, Principal Investigator, project funded by MRU (ICMR), commenced in Sept., 2016, project title: *To elucidate the role of Ellagic acid and its derivative via CRTAase in the gene expression profile of lung carcinogenesis*.Rs. 3.00 Crores.

### Conferences Organised

Dr. S. K. Bansal, Member, Organizing Committee, V. P. Chest Institute/DIPAS/INASS & Delhi Chapter, ACBI, Systemic Hypoxia and Organ Dysfunction, at Paintal Memorial Golden Jubilee Auditorium, V. P. Chest Institute, University of Delhi, July 18, 2016.

Dr. S. K. Bansal, Genetically engineered Vaccine against Anthrax: From Clone to Clinical Trial, at Vallabhbai Patel Chest Institute, University of Delhi, Aug. 5, 2016.

Dr. S. K. Bansal, Joint Secretary (Member, Executive Council), Chairman of Accommodation, Sub Committee Member of Local Advisory Committee, V. P. Chest Institute, ICAAICON-2016 - Golden Jubilee Conference, at Paintal Memorial Golden Jubilee Auditorium, V. P. Chest Institute, University of Delhi, Oct. 22- 25, 2016.

Dr. S. K. Bansal, Participated as Vice President of ACBI, SGRH & ACBI Delhi Chapter & North Zone, Clinical Utility of In Vitro Allergy Diagnosis & Nov. Approach in Diagnosis of Autoimmune Disorders, at Sir Ganga Ram Hospital, Karol Bagh, Delhi, Jan. 25, 2017.

Dr. Vishwajeet Rohil, Member, Organizing Committee of ICAAICON 2016. Conference,,: ICAAICON 2016, Oct. 22 – 25, 2016, Funding agency, support: Organised by V. P. Chest Institute, University of Delhi (India) under the aegis of Indian College of Allergy, Asthma & Applied Immunology (ICAAI).

Dr. Vishwajeet Rohil, Member, Organizing Committee of 9 Annual IACS –India Meeting. Conference title: International Conference on Recent Advances in Cardiovascular Research: Impact on health and disease, 9 Annual IACS-India Meeting, Feb. 9 -11, 2017.Funding agency, support: Organised by V. P. Chest Institute, University of Delhi in collaboration with the Academy of Cardiovascular Sciences (International Academy of Cardiovascular Sciences - India Chapter).

### **Seminar / Conference Presentation**

S. K. Bansal, delivered a lecture, Stem Cell Therapy in Asthma Organised by- V. P. Chest Institute. Seminar, ICAAICON-2016 - Golden Jubilee Conference, V. P. Chest Institute, University of Delhi, Oct. 22-25, 2016.

S. K. Bansal, Chaired Prof. Suresh C. Tyagi Award session (Young Faculty), Organised by V. P. Chest Institute, Seminar, Recent Advances in Cardiovascular Research: Impact on Health and Disease-9 Annual Conference of International Academy of Cardiovascular Sciences (India Section), V. P. Chest Vallabhbai Patel Chest Institute, University of Delhi, Oct. 9, 2011.

Vishwajeet Rohil, (Plenary Lecture; 2016, Dec.). Therapeutic Potential of Polyphenol Acetates in Lung Cancer through a Novemberel Mechanism via Epigenetic Modulation, The Society of Biomedical Laboratory Scientists (SBMLS), BIOMEDCON 2016 Abstract book, pp.31-33.

Vishwajeet Rohil, Poster Presentation at DC – ISAR 2016, Organised by Department of Biochemistry, PGIMER - RML Hospital, New Delhi, 2 Symposia of the Delhi Chapter – ISAR on ‘Preventing Atherosclerosis Nutrition and Lifestyle’ on 6 Aug. 2016 from 12 to 5 pm. Venue: Auditorium, PGIMER - RML Hospital. Topic: Evaluation of PAPP-A and MMP-9 for early prediction of Preeclampsia. Authors: Karuna Sharma, Ritu Singh, Vishwajeet Rohil, Manisha Kumar, Usha Gupta, Jayashree Bhattacharjee.

Vishwajeet Rohil, Plenary Lecture, Therapeutic Potential of Polyphenol Acetates in Lung Cancer through a Novemberel Mechanism via Epigenetic Modulation in the Plenary session of 2nd SBMLS Scholar’s meet Organised by The Society of Biomedical Laboratory Scientists (SBMLS) and the same has been published in the BIOMEDCON 2016, Abstract Book.

### **Inter-Institutional Collaboration**

Collaboration with Vardhman Mahavir Medical College and SafdarJung Hospital, New Delhi, for a Project funded by DBT, Ministry of Science & Technology.dia

### **M. Phil / Ph.D. Awarded – 1**

### **Faculty Strength – 2**

### **Other Significant Information**

A letter of permission was submitted by Dr. Subhradip Karmakar (AIIMS) to the Dean Research, AIIMS for inclusion of Dr. Vishwajeet Rohil as a Co-Investigator in 2 DST funded Research Projects (AIIMS), the Principal Investigators of the two Projects being Dr. Subhradip Karmakar (AIIMS) and Dr. Jeevan Singh Titiyal (AIIMS) respectively. The projects are:

Regulation of TET2 protein by Erythropoietin (EPO) during erythrocyte differentiation in human and to investigate its role in acute myeloid leukemia.

Identification of Novemberel transcripts and non-coding RNA in Fuchs’ Endothelial Corneal Dystrophy (FECD).

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## **COMMUNITY MEDICINE (MAMC)**

### **Major Activities and Achievements**

The Department has organised nine training programmes/ seminars/ workshop/ conferences during the period in addition to routine MBBS, MD, Ph.D. training programmes. Eight MD theses were completed, one Ph.D. thesis was submitted, and two ICMR studentship projects completed. Five projects funded by ICMR/MAMC are currently being carried out in the department. 40 publications and 4 books/chapters were contributed by the faculty.. Faculty members attended several conferences/workshops/seminars as Chairperson, invited speaker, or presented papers. Department provided OPD services to 25,386 patients in four health centres, immunized children and provided contraceptives to women; and organised several health talks, skits, plays in the community.

## Honours / Distinctions

Dr. M. M. Singh was awarded the Best Public Health Expert in National Health Awards Organised by Double Helical at Hotel Ashoka, New Delhi on March 19, 2016.

Dr. Suneela Garg was awarded Best Doctor, achievement in Community Medicine in National Health Awards Organised by Double Helical at Hotel Ashoka, New Delhi on March 19, 2016.

Dr. Suneela Garg was invited to WHO Headquarters, Geneva for ad-hoc consultation and stakeholder's meeting for prevention and control of deafness, July 3 -6, 2016.

Dr. P. Sharma awarded Fellowship by Indian Public Health Association (IPHA) to in March, 2016.

## Publications

Ahlawat, P., Singh, M. M., Garg, S., Ramalingam, A. (2016). prevalence of post menopausal symptoms, health seeking behaviour and associated factors among postmenopausal women in an urban resettlement colony of Delhi. *IJHSR*, 6(4), 51-56.

Dash, R., Singh, M. M. (2016). Strengthening role of health sectors in gender based violence. *Int. J Community Med. Public Health*, 3(6), 1341-1347.

Devi, R., Kapoor, B., Singh, M. M. (2016). Effectiveness of self-learning module on the knowledge and practices regarding foot care among type II diabetes patients in East Delhi, India. *Int. J Community Med. Public Health*, 3(8), 2133-2141.

Devi, R., Kapoor, B., Singh, MM. (2016). Prevalence of self-reported Type 2 diabetes mellitus and associated socio-economic-demographic factors among adults above 20 years in a residential area of Delhi. *Asian Journal of Medical Sciences*, 7(4), 6-13.

Dhuria, M., Sharma, N., Chopra, K. K., Chandra, S. (2016). Universal access to DOTS in Delhi Prisons: Where do we stand? *Indian Journal of Tuberculosis*, doi: 10.10.16/j.ijtb.2016.01.05

Garg, S., Basu, S., Ramalingam, A. (2016). The hidden wastage of anti-rabies vaccine and rabies immunoglobulins in India due to excess vaccination. *Indian Journal of Communicable Diseases*, 2(1), 87-90.

Garg, S., Anand, T., Singh, R. (2016). Rural training of medical interns or post graduate to address medical manpower deficiency in India-A dilemma. *Amity Journal of Healthcare Management*, 1(1), 51-56.

Garg, S., Kohli, C. (2016). Malaria Need for addressal and future challenges. *Indian Journal of Communicable Diseases*, 2(1), 71-75.

Garg, S., Ramalingam, A., Singh, M. M., Sriram, T. (2016). Strategies to combat congenital Rubella Syndrome: An overview. *Indian Journal of Communicable Diseases*, 2(1), 29-32.

Garg, S., Chakravarti, A., Singh, R., Goyal, R. C., Chaturvedi, R. M., Rajesh, J. G., Ganguly, E., Ramesh Masthi, N. R., Sharma, N., Singh, M. M., Nealon, J., Moureau, A., Ferreira, G., Ojha, S. (2016). Dengue serotype - specific seroprevalence among 5-10 year old children in India: A community based cross sectional study. *International Journal of Infectious Diseases*. <http://authors.elsevier.com/sd/article/S1201971216312140>

Garg, S., Mangla, V., Singh, M. M. (2016). *Vicious Virus*. Retrieved from [http://www.doublehelical.com/wp-content/uploads/2016/11/DH\\_Oct.-2016\\_web.pdf](http://www.doublehelical.com/wp-content/uploads/2016/11/DH_Oct.-2016_web.pdf)

Kohli, C., Bhaskaran, U., Garg, S., Sharma, N. (2016). Burden of ear morbidities among children in primary care setting in Delhi. *Clinical Epidemiology and Global Health*. doi:10.1016/j.cegh.2016.08.010

Kumar, P., Mehra, A., Inder, D., Sharma, N. (2016). Organizational commitment and intrinsic motivation of regular and contractual primary health care providers. *J. Family Med. Primary Care*, 5, 94-100.

Singh, M. M., Garg, S., Dash, R., Kumar, R., Jain, N., Sharma, N., Anand, T. (2016). Study on awareness regarding gender based violence among group D workers in public hospitals of Delhi – A gender perspective. *Int. J Community Med. Public Health*, 3(6), 1510-1515.

Sandhu, S., Singh, M. M., Chauhan, R., Mazta, S. R., Prashar, A. (2016). Risk factor profile for non-communicable diseases in public institutions of Shimla, Himachal Pradesh, India. *Int. J Community Med. Public Health*, 3(11), 3063-3067.

Singh, M. M., Duhan, S., Sandhu, S., Devi, R. (2016). Positive thinking and health status among adults in a tertiary care hospital of Delhi, India. *Int. J. Community Med Public Health*, 3(12), 3511-3514.

- Singh, M. M., Devi, R. (2016). *Teaching medical ethics*. Retrieved from <http://www.bmj.com/content/355/bmj.i6415/rr-3>
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- Singh, M. M., Devi, R., Mangla, V. (2016). *Need for vitamin D supplementation in Indian population*. Retrieved from <http://www.bmj.com/content/355/bmj.i6183/rr-7>
- Singh, M. M., Devi, R. (2016). *General Practitioners: An integral part of health care in developing countries*. Retrieved from <http://www.bmj.com/content/355/bmj.i5698/rr>
- Singh, M. M., Devi, R. (2016). *Tackling air pollution: Indian context*. Retrieved from <http://www.bmj.com/content/355/bmj.i5620/rr>
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- Singh, M. M., Devi, R. (2016). *Surrogate mothers under proposed new law in India*. Retrieved from <http://www.bmj.com/content/354/bmj.i4669/rr>
- Singh, M. M., Devi, R. (2016). *Better use of public health facilities in India could improve kala-azar diagnosis, say researchers*. Retrieved from <http://www.bmj.com/content/350/bmj.h1769/rr-0>
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- Sharma, N., Dhaked, S., Vankhuma, C., Kohli, C., Anand, T., Singh, MM. Smoke free Delhi: Status of implementation of anti-smoking legislation and its perception in educational institutions. *Accepted for publication in MAMCJ Med Sci*.
- Sharma, P., Rathi, A., Taneja, D. K., Garg, S. (2016). Implications of IPV introduction in National Immunization Schedule and strategies to combat shortages. *International Journal of Vaccine Research, Review Article*.
- Udhay, B., Sharma, N., Madhan, V. K., Kohli, C. (2016). Epidemiology of childhood illnesses in an urban resettlement colony of Delhi. *Clinical Epidemiology and Global Health Post Graduate Medical Research: Special Issue*. doi 10.1016/j.cegh
- Garg, S. Ear and hearing care: Situation analysis tool. *In WHO Manual*.
- Garg, S. Development of WHO survey tool for ear and hearing care: Planning and monitoring of national strategies: A manual. *In WHO Manual*.



## **Research Projects**

Dr. Suneela Garg, project funded by ICMR,, *Prospective study of Magnitude of Domestic Violence in Pregnancy, it's Associated Factors, Related Maternal Health and Birth Outcomes in Delhi.*

Dr. Suneela Garg, project, *Status of ear and hearing care in South East Asian region by WHO and SSHI.*

Dr Nandini Sharma, project, *TB Intervention Targeting Mobile Population (Truck Drivers and Helpers).*

Dr. M. M. Singh, project funded by ICMR,, *Healthcare facility preparedness and knowledge, attitude and practices among healthcare providers regarding gender based violence in Delhi.*

Dr. Pragya Sharma, project funded ICMR, *Knowledge, attitude, practices about emergency contraceptives in sexually active married women and reasons of its non-use among Abortion Seekers in Delhi.*

## **Seminars / Workshops Organised**

A Workshop on Field testing of the WHO ear and hearing survey protocol in India was held on Nov. 10-11, 2016 with Dr. Suneela Garg as Chair and Dr. G. S. Meena and Dr. M. M. Singh as Convenor.

A Symposium on Otitis Media: Total Solutions; Primary to Tertiary was held on July 30, 2016 with Dr. Suneela Garg and Dr. M. M. Singh, Dr. Passey and Dr. A. K. Agarwal as co-ordinators.

A Workshop on dissemination of report – Health care Facility Preparedness and Knowledge, Attitude and Practices among Healthcare Providers regarding Gender – Based Violence in Delhi with Dr. M. M. Singh as co-ordinator and Dr. Suneela Garg as Chair on Sept. 17, 2016.

A Technical Session on Harm Reduction Strategies for Tobacco control was held with Dr. Suneela Garg and Dr. M. M. Singh as co-ordinators in collaboration with Reason Foundation.

Workshop on Breast awareness for doctors organised by Dr. M. M. Singh, March 7, 2017.

Workshop on Breast awareness for nurses organised by Dr. M. M. Singh, March 3, 2017

Workshop on Breast awareness for medical interns organised by Dr. M. M. Singh, March 17, 2017

Workshop on Non communicable diseases for doctors organised by Dr. Bratati Banerjee, March 1, 2017.

Workshop on Non communicable diseases for health staff organised by Dr. Bratati Banerjee, March 9, 2017.

## **Seminar / Conference Presentation**

Suneela Garg, Presented Paper on Gender: science and technology during National Summit organised by Department of Science and Technology on March 8 -10, 2017.

Suneela Garg, Presented Paper on Air pollution and lung function impairment in Delhi during International Summit on Air pollution-Health advisories on March 10, 2017.

Suneela Garg, on Knowledge Related to Gender Based Violence and Attitudes towards Gender stereotypes among Antenatal clinic attendees of a Tertiary Case Teaching Hospital in Delhi at IPHA, Jodhpur, Feb. 24 -26, 2017.

Suneela Garg, Delivered a talk on NPPCD case study from India: Multi country ear and hearing care situation analysis tool and infant hearing and case situation analysis tool at IPHA, Jodhpur from Feb. 24 -26, 2017.

Suneela Garg, Presented Epidemiology of otitis media during the symposium on Otitis Media: Total Solutions; Primary to Tertiary was held July 30,2016.

Suneela Garg, Presented Ear and hearing care situation analysis tool workshop on Field testing of the WHO ear and hearing survey protocol in India, Nov. 10 -11, 2016.

Suneela Garg, Presented Paper on Breast cancer- screening during Workshop on Breast awareness for doctors, March 7, 2017.

Suneela Garg, Presented paper on Breast cancer- screening during Workshop on Breast awareness for nurses, March 16, 2017.

Suneela Garg, Presented paper on Breast cancer- screening during Workshop on Breast awareness for medical interns, March 17, 2017.

Nandini Sharma, Presented paper in IAPSM Annual conference Gandhinagar, Jan. 7 -9, 2016. Burden of CAD in adults in India Awarded 2 prize in Poster.

Nandini Sharma, Presented paper in NATCON Lucknow, Feb. 19-21, 2016. Barriers and challenges in treatment seeking in paediatric TB patients attending DOTS centers in urban areas of Delhi.

Nandini Sharma, Presented paper in IPHA 46 Annual conference Dehradun March 4-6, 2016. Epidemiology and treatment outcomes in paediatric TB patients attending DOTS centers in urban areas of Delhi.

Nandini Sharma, Presented paper in Annual Public Health symposium on Universal Health Coverage Organised by School of public health PGI Chandigarh, March 9 -10, 2016. Root causes underlying the challenges in health care delivery at a Primary Urban Health Centre, Delhi. Awarded 1st prize in Poster.

Bratati Banerjee, Chaired a session on Non Communicable diseases at the 43rd Annual National Conference of Indian Public Health Association at Dehradun, UP from March 4 -6, 2016.

Bratati Banerjee was Co-Author for oral presentation on A community based cross-sectional study to assess quality of life and associated factors using WHO QOL BREF scale among geriatric population of an urban area of Dehi, India presented by Dr. Amit Ujjainia at MMHS, Melbourne, Nov. 5 -6 , 2016.

Bratati Banerjee was co-Author for oral presentation on Assessment of mental health literacy in school-going adolescents presented by Dr. Malvika Sharma at 2nd International Conference on Public Health, Colombo, Sri Lanka, July 28 -29 2016.

M. M. Singh, Presented paper on Epidemiology of breast cancer during Workshop on Breast awareness for doctors March 7, 2017.

M. M. Singh, Presented paper on Epidemiology of breast cancer during Workshop on Breast awareness for nurses March 16, 2017.

M. M. Singh, Presented paper on Epidemiology of breast cancer during Workshop on Breast awareness for medical interns March 17, 2017.

Rajesh Kumar presented paper on A Comparative Study of Maternal and Child Health components of an Underdeveloped state of India from 1992-2015 at IPHA, Jodhpur from Feb. 24 -26, 2017.

S.V. Singh was the Chairperson in the Session Theme 6 (oral session 6) - chemical and radiation exposure and water pollution. In 3rd International Conference on Occupational & Environmental Health.

### **Extension and Outreach Activities**

Department provides primary health care in four centres: Gokulpuri, Barwala, Delhi Gate and BVK, New Delhi.

### **M.Phil / Ph.D Awarded**

M.D – 8

**Faculty Strength – 10**

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## **COMMUNITY MEDICINE (LHMC)**

### **Major Activities and Achievements**

The Department undertakes undergraduate theory and practical teaching of MBBS students from 1st to 7th Semester. A batch of 200 students joins the course every year. In addition, Post-graduate teaching is imparted for students admitted for MD in Community Medicine (sanctioned strength – 8 students per year). The Department also Organises and coordinates Internship of MBBS students with all Departments of LHMC & Associated Hospitals. Orientation training of all PG students is also Organised on protocol development and analysis of research projects. The Department has been designated as the Regional Vaccine Store for Pulse Polio Abhiyan and participated in all

rounds of Pulse Polio Immunization during year 2016-17. The Department also coordinates surveillance for Vector Borne Diseases. Provision of comprehensive health care services in the community is done through Urban Health Centre (Kalyanpuri), Primary Health Centre (Palam), Primary Health Centre (Mehrauli) and Child Health Promotion Centre, KSCH, New Delhi.

### Honours / Distinctions

Number of MD degrees awarded, MD (Community Medicine) –5 (2016-17).

### Publications

Acharya, A. S., Acharya, A. (2016). Dengue fever: The monsoon menace. *Indian Journal of Medical Specialities*, 7, 139-41.

Bhatt, A., Ray, T. K., Vibha, J.K. Sahni. (2016). Health seeking behavior and practices for ear diseases among underprivileged children of Delhi. *Indian Journal of Youth and Adolescent Health*, 3(1), 27-30.

Arora, S., Ray, T. K. (2016). Ebola Infection – A rising public health challenge. *The Indian Practitioner*, 69 (7), 31-39.

Bhatt, A., Ray, T. K., Vibha, Sahni, J K. (2016). Hearing loss in children of underprivileged community of Delhi. *Indian Journal of Community & Family Medicine*, 2(2), 53-56.

Dahiya, N., Acharya, A. S., Bachani, D., Goel, M. K. (2016). Strategies for reducing risk of cervical cancer in adolescents in developing countries- A view point. *Indian J Med Specialties*, 7, 35-8.

Dahiya, N., Bachani, D., Acharya, A.S., Sharma, D. N., Gupta, S., Haresh, K. P. (2016). Socio-demographic, reproductive and clinical profile of women diagnosed with advanced cervical cancer in a tertiary care institute of Delhi. *J Obstet. Gynaec. of India*, 67(1), 53-60.

Dahiya, N., Bachani, D., Acharya, A. S., Sharma, D. N., Gupta, S., Haresh, K. P., Rath, G. K. (2016). Quality of life of patients with advanced cervical cancer before and after chemo-radiotherapy. *Asian Pacific J Cancer Prevention*, 17, 3095-9.

Dabar, D., Das, R., S Nagesh, Yadav, V., Mangal, A. (2016). A community-based study of growth and development of under-five children in an urbanized village of south Delhi. *J Trop. Ped.*, 1-11.

Nonita, D., Khandekar J, Bachani, D., Mahto, D. (2016). Thalassaemia Major: How do we improve quality of life? *Springer Plus*, 5, 1985, 1-6.

Dindi, K., Bachani, D. (2016). Factors influencing the utilization of janani suraksha yojana: A study in Arunachal Pradesh. *International J. Preventive, Curative & Community Medicine*, 2(3-4), 55-60.

Prasuna, J. G., Mathur, M.. Road map to adolescent health in India: A Government of India initiative. *NARCHI*, Delhi chapter special issue on Adolescent Health.

Kaur, R., Acharya, A.S., Yadav, V., Dabar, D. (2016). Male involvement in family planning: a qualitative study of perceptions and practices. *Int. J. Preven. Curat. Comm. Med.*, 2(3&4), 30-36.

Kumar, G., Prasuna, G. J. (2016). Knowledge and attitude of men and women for menarche and menstruation- A reproductive health issue. *Indian Journal of Basic and Applied Medical Research* (2), 508-514.

Kumar, G., Prasuna, G. J. (2016). Social audit: Current need in Public Health Care sector. *International Journal of Community Medicine and Public Health*, 1(1), 703-708.

Goel, Ray, T. K., V. Yadav, A. Kumar. (2016). Appraisal of functioning of janani suraksha yojna: A safe motherhood intervention in rural blocks of Haryana. *The Indian Practitioner*, 69(5), 38-42.

Goel, M K., M. K. Ray, T. K., Goyal, I., et al. (2016). Framing research question and formulating hypothesis for testing: Critical step in research. *Indian Journal of Youth and Adolescent. Health*, 3(1), 36-39.

Sahu, M. Prasuna, J. G. (2016). Twin studies: A unique epidemiological tool, *Indian Journal of Community Medicine*, 41(3), 177-182.

Singh T, Nagesh S, Ray T K, Sharma S. (2017). Geriatric women: An unheard voice. *Journal of Comprehensive Health*, Jan., 5(1), 76-86.

- Suri, S., Das, R. (2016). Occupational health profile of workers employed in the manufacturing sector in India. *Nat Med Jour Ind*, 29(5), 277-81.
- Suri, S and Acharya, A. S. (2016). Sub-clinical vitamin A deficiency among under-five children: Current scenario and future perspectives. *Indian Journal of Medical Specialities*, 7 (2), 83-87
- Thakur A, Ray T. K., Goel, M. K. (2016). E-waste management practices in India. *Epidem. Int.*, 1(3), 21- 25.
- Verma, D., Acharya, A. S., Bachani, D., Seth, A. (2016). Clinico-social and immunological profile of antiretroviral naive children living with HIV in tertiary care hospital, Delhi; *SAARC J TB, Lung Dis. and HIV/AIDS*, 13(1), 32-8.
- U. Shrivastava, A., Misra, V., Mohan, R., Unnikrishnan and D. Bachani. (2016). Obesity, Diabetes and Cardiovascular diseases in India: Public health challenges. *Current*, 12(4), 1-16.
- Rasania, S. K.. Introductory chapter. In National Training Modules for Adolescent Health, for Medical Officers and ANMs under RKSK Programme, Ministry of Health & Family Welfare.
- Prasuna, J. G.. Adolescent Friendly Health Services. In Revised and Design of National Training Modules for Adolescent Health, for Medical Officers and ANMs under RKSK Programme, Ministry of Health & Family Welfare.
- Prasuna, J. G.. Teaching AIDS for global undergraduates: A need of the Hour. Under RKSK, WHO sponsored for competency based skill development to First Contact Physician.
- Acharya, A. S. (2017). Citing and referencing: Why and how to do it? In Munjal Y.P., Prakash A., Pangtey G.S. (Eds.) *Pearls on Scientific Paper Writing*.
- Ray, T. K. (2016). Chapter on Food poisoning, Typhoid and Cholera. In *Health Education Manuals for Students of class III-X*. Published by Directorate General of Health Services, Ministry of Health and Family Welfare, Government of India.

### **Research Projects**

Dr. D. Bachani (Investigator), Dr. S. K. Rasania, Dr. J. Khandekar, Dr. A. Acharya (Co-Investigator), sponsored by ICMR, *Health Accounting Scheme: Empowering people for health care through multi-sector coordination- An Operational Evaluation*, Approx. Rs. 30 Lakh (under process).

### **Seminar / Conference Organised**

World Health Day Celebration of 2016. Best Diabetes: Seminar, Debate, Quiz and Poster competitions were Organised.

World Aids Day Celebration of 2016: Hands up for HIV Prevention; CME, Poster.

Competition, Hand painting Competition, Matka painting competition & Essay writing Competition.

Orientation training among school children on Dengue Prevention & Control. Organised in Primary school LHMC on 19 July, 2016 in collaboration of Dengue surveillance team NDMC.

### **International Conferences**

Global Healthcare Summit 2016, Dec. 29, 2016 AIIMS, New Delhi

3rd International Conference on Occupational & Environmental Health at NIHF New Delhi, Sept. 23 -25, 2016.

### **National Conferences**

61st Annual National Conference of Indian Public Health Association (IPHA) at AIIMS Jodhpur, Rajasthan, Feb. 24-26, 2017

44 Annual National Conference, IAPSM at Science City Kolkata, Feb. 10 -12, 2017.

### **Inter-Institutional Collaboration**

Students enrolled for Post Graduate Diploma in Maternal & Child Health (PGDMCH) from IGNOU (as a Programme Study Centre).

B.Sc. (H) Nursing students of College of Nursing of LHMC (epidemiology and other public health related topics) and Training for M.Sc. in Public Health Nursing.

Collaborating with the NDMC for Surveillance and Vector Control in the college premises.

RVS in-charge and Nodal officer for IPPI activities in collaboration with NPSP India for polio eradication activities

## Faculty Strength –11

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## COMMUNITY MEDICINE (UCMS)

### Honours / Distinctions

Dr. Chaturvedi S:

Temporary Advisor, Evaluation of WHO Collaborating Centers in South East Asia Region, 2016-2018, WHO.

EcoHealth Research Core Group Member, IDRC, PERIMILK study on Bovine Tuberculosis and level of antibiotics in dairy milk in India, 2014-2017, Canada-ILRI- PHFI-IVRI,

Central Coordinating Team Member, WHO, Exploring potential association of all cause death and hospitalization with routine UIP vaccinations administered to a cohort of infants in Kerala and Tamil Nadu states of India, 2013-2017.

Central Coordinating Team Member, Evaluation of HBNC and HBNC+ in Madhya Pradesh, 2013-2017, GoI-NIPI-INCLN,

EcoHealth Research Core Group Member, IDRC, PERIMILK study on Bovine Tuberculosis and level of antibiotics in dairy milk in India, 2014-2017, Canada-ILRI- PHFI-IVRI

Convenor, GNCTD Steering Committee on Dengue Prevention and Control, 2016.

Dr. Khan A. M, awarded the Fellowship of Foundation for Advanced International Medical Education and Research at CMC, Ludhiana, FAIMER Regional Institute in Feb., 2017.

Dr. Sharma A. K., Best Paper Award at ESRI User Conference, Jan. 19-20, 2017.

### Publications

Chatterjee, P., Kakkar, M., Chaturvedi, S. (2016). Integrating one health in national health policies of developing countries, India's lost opportunities. *Infect, Dis. Poverty*, 5(1), 87.

Chaturvedi, S., Ramji, S., Arora, N.K., Rewal, S., Dasgupta, R., Deshmukh, V., for INCLN Study Group. (2016). Time-constrained mother and expanding market, emerging model of under-nutrition in India. *BMC Public Health*, 16, 632.

Gupta, G., Sharma, A. K., Chaudhary, T. (2017). Assessment of undernutrition in children below 5, using composite index of Anthropometric Failure. *Indian J Community Hlth.*, 29(1), 1-4.

Kakkar, M., Dhole, T. N., Rogawski, E. T., Chaturvedi, S. (2016). Public health laboratory surveillance and diagnosis of Japanese encephalitis, time to revisit. *Indian Pediatr.*, 53, 33-35.

Khan, A. M., Siddarth, R. (2016). Reporting statistics in biomedical research literature, the numbers say it all. *Indian Pediatr.*, 53, 811-4.

Khan A. M., Sharma, R., Majhi, J., Sharma, K., Gupta. A. (2016). Prevalence of underweight and its predictors among under-five children in an urbanized village of East Delhi. *Indian Journal of Community and Family Medicine*, 2(1), 83-88.

Kumar, R., Indrayan, A., Chhabra, P. (2016). Evaluation of quality of multivariable logistic regression in Indian Medical Journals using multilevel modeling approach. *Indian J Public Health*, 60, 99-106.

- Mehta, M., Faridi, M. M. A., Sharma, S., Singh, O., Sharma, A. K. (2016). A prospective study of iron status of exclusively breastfed infants weighing 1800 – 2499 g at birth and correlation with breakmilk lactoferrin. *Intnl. J Paed. Child. Hlth.*, 4, 42-51.
- Harne, P., Khan, A.M. (2016). Awareness and usage of emergency contraceptive pills among working women, a hospital based survey from north India. *Int J Reprod Contraept Obstet. Gynecol.*, 5(4), 1202-1206.
- Raja, J. D., Bhasin, S. K. (2016). Sleep quality of call handlers employed in international call centres in national capital region of Delhi, *India Int J Occup Environ Med.*, 7, 207-214.
- Ravikumar, R., Rajoural, O. P., Sharma, R., Bhatia, M. S. (2017). A study of Emotional Intelligence among postgraduate medical students in Delhi. *Cureus*, 9(1), e989. doi: 10.7759/cureus.989.
- Sharma, S., Agarwal, A., Khan, A. M., Ingle, G. K. (2016). Prevalence of dog bites in rural and urban slums of Delhi, A community-based study. *Annual Med. Health Sci. Res.*, 6(2), 115-119.
- Somdatta, P., Upadhyay, M., Chhabra, P., (2016). Awareness of cervical cancer and willingness to participate in screening program, public health policy implications. *Journal of Cancer Research and Therapeutics*.
- Neelima, T., Chhabra, P., Dadhich, J. P., Gupta, A., Chandola, V. (2016). To assess the prevalence and factors determining timely initiation of breastfeeding among the mothers in resettlement colony in Delhi. *Indian J Child Health*, 3, 147-53.
- (2016). Associate Ed., *Textbook of Community Medicine*. Piyush Gupta, Amir Maroof Khan (Eds.), Delhi: CBS Publishers
- Khan A. M. and Shah, D. (2016). Concept of community paediatrics. In OP Misra, Shakuntala Prabhu and Surjit Singh (Eds.), *Nelson's Essentials of Paediatrics* (First South Asia Edn. Chapter 5). Delhi: Elsevier Publishers
- Khan, A. M. (2016). Child health in India. In OP Misra, Shakuntala Prabhu and Surjit Singh (Eds.), *Nelson's Essentials of Paediatrics* (First South Asia Edn. Chapter 6). Delhi: Elsevier Publishers
- Khan, A. M. (2016). Public health care delivery system. In OP Misra, Shakuntala Prabhu and Surjit Singh (Eds.), *Nelson's Essentials of Paediatrics* (First South Asia Edn. Chapter 7). Delhi: Elsevier Publishers
- Khan, A. M. (2016). Child health programmes in India. In OP Misra, Shakuntala Prabhu and Surjit Singh (Eds.), *Nelson's Essentials of Paediatrics* (First South Asia Edn. Chapter 8). Delhi: Elsevier Publishers
- Khan, A. M. and Gupta, P. (2016). (Eds.), *Health and Disease in the Community. Textbook of Community Medicine*. Delhi: CBS Publishers
- Kumar, A. and Khan, A. M. Systems of Health and Medicine. In Piyush Gupta, Amir Maroof Khan (Eds.), *Textbook of Community Medicine*. Delhi: CBS Publishers.
- Gupta, P. Khan, A. M. Global disease burden, health indicator and initiatives . In Piyush Gupta, Amir Maroof Khan (Eds.), *Textbook of Community Medicine*. Delhi: CBS Publishers.
- Chatterjee, P., Chaturvedi, S. (2017). Street children. In Gupta P, Menon PSN, Ramji S, Lodha R, (Eds.), *Postgraduate Textbook of Paediatrics* (2nd Edn. pp. 2777-2781). New Delhi: Jaypee Brothers
- Chaturvedi, S., (2017). (Section Ed.) Vulnerable children. In, Gupta P, Menon PSN, Ramji S, Lodha R, (Eds.), *Postgraduate textbook of Paediatrics* (2nd Edn. pp. 2776-2795). New Delhi: Jaypee Brothers .
- Khan, A. M. (2017). Progress, programs and policies for prevention and control of severe acute malnutrition in India. In *Severe Acute Malnutrition*, Delhi: CBS Publishers.
- Raghavendra, A. H., Chhabra, P., Sharma, A. K., Madhu, S. V. (2016), Prevalence of diabetes mellitus in an urbanized village of east Delhi. *National Journal of Community Medicine*, 7, 302-306.
- Thankur, N., Gupta, A., Chhabra, P., Dadhich, Jai, P. A. (2016). Study of determinants of infant feeding practices in a resettlement colony of Delhi, India. *Int J Community Med Public Health*, 3(12), 3357-3363.

## Research Projects

Dr. Chhabra P, ICMR funded projects, *Prevalence of menopausal symptoms and quality of life after menopause in women above 40 years of age in an urban resettlement colony of east Delhi* STS 2016, Rs.10,000/-.

Dr. Patra S, ICMR funded projects, Facilitated short term studentship (STS) project awarded by ICMR for an undergraduate student, 'A study on Elder Abuse in an Urban Resettlement Colony of Delhi', 2016, Rs. 10,000.

Dr. Upadhyay M, ICMR funded projects, Supervisor for short Term Studentship Project, *Knowledge and Attitude towards Organ Donation amongst Patients' Attendants at a Tertiary care Hospital in Delhi*, 2016, Rs. 10,000.

Dr. Chaturvedi S, ICMR-INCLIN funded projects, Foundational Work for a *Brain to Society Surveillance System for Innovation in Behavioural, Public Health and Cross Sector Strategy to Prevent Childhood Obesity and Other Lifestyle Related Health Problems*, A Canada-India Collaboration to Set a Life Course of Healthy Eating at Local, National and Global Level. Canadian Institute for Health Research-McGill University, Canada. (Completed)

Dr. Sharma A. K., Ministry of H & FW, GOI, *Spatio-Temporal Epidemiology of Chronic Respiratory Illness in Urban Indian Settlements (STEP CRUISE) HIV vulnerability assessment study for selected female migrant populations in India*, Dept. of Health Research, Ministry of Health & Family Welfare, GOI National AIDS Control Organization, Rs. 31,45,233.

### **Seminars / Conferences Presentation**

Das, P., Chhabra, P., Maroof, K.A., Health insurance coverage and usage among women who had a childbirth. In proceedings of the 42nd Annual National Conference of Indian Association of Preventive and Social Medicine (IAPSMCON 2016) Feb. 9, 2017 to Feb. 11, 2017, at Kolkata.

Doley, M., Chhabra, P., Patra, S., Bhatia, M.S. Pattern of sleep quality in women after childbirth in an urbanized village of east Delhi. In proceedings of the 42nd Annual National Conference of Indian Association of Preventive and Social Medicine (IAPSMCON 2016) Feb. 9, 2017 to Feb. 11, 2017 at Kolkata.

Doley, M., Chhabra, P., Patra, S., Bhatia, M.S. 'Prevalence of Postpartum depression and its determinants in an urbanized village of East Delhi. In proceedings of the Annual National Conference of the 61st Indian Public Health Association held at Jodhpur from Feb. 24, 2017 to Feb., 26, 2017.

Gupta, G., Updhyay, M. Sleep hygiene and patterns of sleep in under graduate medical students of North-east Delhi, at the 61 Annual National Conference of Indian Public Health Association at AIIMS, Jodhpur – Feb., 2017.

Agrawal, K., Patra, S., Singh, M., Aalia, S. Assessment of perceived air pollution among residents of East Delhi, a cross-sectional study, 61st Annual Conference of Indian Association of Public Health, Feb. 24-26, 2017.

Agrawal, K., Patra, S., Kumar, V. Awareness about oral cancer among residents of an urban resettlement colony, 61st Annual Conference of Indian Association of Public Health, Feb. 24-26, 2017.

Vaish, K., Patra, S., Chhabra, P. A study on Assessment of Body Mass Index among geriatric population of East Delhi. 61st Annual Conference of Indian Association of Public Health, Feb. 24-26, 2017.

Dugg, P., Chhabra, P., Sharma, A.K. Fertility desires among HIV Positive women attending ART center in East Delhi in proceedings of the 61st Indian Public Health Association held at Jodhpur from Feb. 24 - Feb., 26, 2017.

Titoria, R., Gupta, G. Adherence to Recommended Anti-Rabies Vaccine Schedule, A Rabies Clinic Based Study.

Titoria, R., Gupta, G. Parental acceptance of inactivated polio vaccine, A cross sectional study. In proceedings of Annual National Conference of the 61st Indian Public Health Association held at Jodhpur from Feb. 24 - Feb. 26, 2017.

Shyambhavee, Chhabra, P., Rajoura, O. P. Women and risk factors cardiovascular disease – A review. In proceedings of Annual National Conference of the 61 Indian Public Health Association held at Jodhpur from Feb. 24 -Feb., 26, 2017.

Upadhyay, M., Sahu, M., Azad, S., Dugg, P. Assessment of health related quality of life in cancer patients undergoing treatment at tertiary care hospital in East Delhi at the 61st Annual National Conference of Indian Public Health Association at AIIMS, Jodhpur, Feb, 2017.

Bhasin S. K., 60<sup>th</sup> Annual Conference of IPHA held Himalayan Institute of Medical Sciences, Dehradun and acted as a chairperson for one technical session, March 4 -6, 2016.

Chhabra P., Workshop in Connection with Swachhta Pakhwada on The topic 'Personal Hygiene and Environmental Sanitation and Nutrition' in the Department of Community Medicine, UCMS in association with CFNEU, Food and Nutrition Board., March 10, 2017.

Chaturvedi S., Joint Working Group Meeting of Bill and Melinda Gates Foundation-INCLEN on Childhood Pneumonia in India, New Delhi, March 27, 2017.

Chaturvedi S., vEvaluation Meeting for Bill and Melinda Gates Foundation-INCLEN project on Childhood Pneumonia in India, SKIMS, Srinagar, March 15 -16, 2017.

Chaturvedi S., Application of Qualitative Research Methodology in Health Research, An Evidence Based ICMR-INCLEN Workshop, New Delhi, March 3 -5, 2017.

Chaturvedi S., Evaluation of NAMS CME on Healthcare Leadership, AIIMS, Jodhpur., Feb. 23, 2017.

Chaturvedi S., Evaluation Meeting for Bill and Melinda Gates Foundation-INCLEN project on Childhood Pneumonia in India, AIIMS New Delhi, Feb. 4, 2017.

Chaturvedi S., Evaluation of HBNC and HBNC+ Program, AIIMS-Bhopal., Dec. 17, 2016.

Chaturvedi S., Consultation on Evaluation of WHO Collaborating Centres in South East Asia Region, New Delhi, Oct. 20-21, 2016.

Chaturvedi S., Workshop on Role of Medical Colleges in NUHM, New Delhi, Oct. 25, 2016.

Chaturvedi S., National Dissemination Meeting on Human-Animal-Environment Interface, PHFI, New Delhi, Sept. 20, 2016.

Chaturvedi S., Technical Advisory Group Meeting for Qualitative Study on AEFI, Satara, Aug. 8-12, 2016.

Chaturvedi S., Steering Group Meeting for Mainstreaming of One Health Curricula in South East Asia., July 22 -23, 2016.

Chaturvedi S., Expert Committee Meeting to revise PGDMCH program in IGNOU, New Delhi, July 5, 2016

Chaturvedi S., National Consultation on UNICEF Time and Motion Study of Frontline Workers, Hyderabad, June 29-30, 2016.

Chaturvedi S., Invited lecture on Societal and environmental drivers of Childhood Obesity in India. In National Seminar on Anthropology of Cardio-metabolic Adversities, Delhi, Sep 25, 2016.

Khan A. M., Presented a paper in the 60 National Annual Conference of Indian Public Health Association, held at Himalayan Institute of Medical Sciences, Doiwala, Dehradun, Uttarakhand, March 4 –6, 2016.

Khan A. M., Presented a paper in the UG Sponsored National Conference on Latest Trend in Health and Physical Education, Organised by University College of Medical Sciences, Delhi, Feb. 14 –15, 2017.

Khan A. M., Presented a paper in the 61 National Conference of Indian Public Health Association and 1 State Chapter conference of IPHA held at AIIMS Jodhpur., Feb. 24 –26, 2017.

Khan A. M., Guest faculty, 5 National conference of Consortium Against Rabies, CARCON 2017 at Integral Institute of Medical Sciences and Research, Lucknow., March 4 –5, 2017.

Khan A. M., Resource Faculty for a Workshop on Research Methodology Organised by Indian Paediatrics in collaboration with IAP research in Child Health Group and Department of Paediatrics LHMC and KSCH, New Delhi at Lady Hardinge Medical College and Kalawati Saran Children Hospital, New Delhi, Sept. 16 –18, 2016.

Khan A. M., Participated and contributed in the workshop Disarming Dialogues, Reviving Humanities in Medical Education, held from at the University of Chicago Delhi Center, New Delhi, Nov. 2-4, 2016.

Khan A. M., Chairperson for research presentations on the theme Communicable diseases during the 61 National Conference of Indian Public Health Association held from at AIIMS, Jodhpur, Feb. 24 -26, 2017.

Khan A. M., Meeting and training of Nodal officers and Trainers of National Rabies Control Program (NRCP) at National Centre for Disease Control (NCDC), Delhi., March 2, 2017.

Khan A. M., Attended the 3rd Session of Fellowship course of Foundation for Advancement of International Medical Education and Research (FAIMER), held at CMC Ludhiana., Feb. 6-11<sup>th</sup>, 2017.

Khan A. M., National Orientation cum Review Workshop on MAA Programme Organised by the Ministry of Health and Family Welfare on 11<sup>th</sup> and 12<sup>th</sup> Jan., 2017 at Hotel Lalit, New Delhi, Jan. 11<sup>th</sup> -12<sup>th</sup>, 2017

Patra S., Training Course on Scientific Writing at National Institute of Health and Family Welfare (NIHFW), Munirka, Delhi, Feb. 22-26, 2016.



Rajoura O. P., Annual National Conference of IAPSM & Joint Gujrat State Conference of IAPSM & IPHA (XXIII) and IPHA (V), Gandhi Nagar, Gujrat, Sept. 7-9, 2016.

Rajoura O. P., Chaired Scientific paper session in 3rd International Conference on Occupational & Environmental Health, held at National Institute of Health & Family Welfare, New Delhi, Sept. 23<sup>th</sup>-25, 2016.

Sharma A. K., 17<sup>th</sup> ESRI India User Conference held at Delhi, Jan. 19-20, 2017.

Sharma A. K., 44<sup>th</sup> Annual National Conference of the IAPSM held at Kolkata, Feb. 9-12, 2017.

Sharma A. K., 61<sup>th</sup> National Conference of Indian Public Health Association held from at AIIMS, Jodhpur, Feb. 23-26, 2017.

Sharma A. K., Pre-conference Workshop on 'Application of GIS in Public Health' at the IAPSM Conference held Kolkata from Feb. 9-12<sup>th</sup>, 2017.

Sharma A. K., Pre-conference Workshop on 'Hands on training in Application of GIS in public Health' at the IPHA Conference held in Jodhpur from Feb. 23 to 26, 2017.

Upadhyay M., 61<sup>st</sup> Annual National Conference of Indian Public Health Association at AIIMS, Jodhpur, Feb. 24 - 26, 2017.

Doley, Migom., Best Paper Award for paper presentation on Prevalence of Postpartum depression and its determinants in an urbanized village of East Delhi in proceedings of the Annual National Conference of the 61 Indian Public Health Association held at Jodhpur, Feb. 24-26, 2017.

Dugg, Preeti., Best paper award for paper presentation on 'Fertility desires among HIV Positive women attending ART centre in East Delhi' in proceedings of the 61<sup>st</sup> Indian Public Health Association held at Jodhpur, Feb. 24-26, 2017.

**Faculty Strength – 10**

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## DERMATOLOGY (UCMS)

### Publications

Bisherwal, K., Pandhi, D., Singal, A., Guleria, K., Mishra, K. (2016). Evaluation of cervical and anal intraepithelial neoplasia in women attending a sexually transmitted infection clinic. *Indian J Dermatol Venereol Leprol*, 82, 498-504.

Bisherwal, K., Pandhi, D., Singal, A., Sharma, S. (2016). Infantile bullous pemphigoid following vaccination. *Indian Pediatr.*, 53, 425-6.

Bisherwal, K., Singal, A., Pandhi, D., Sharma, S. (2017). Hypopigmented mycosis fungoides: Clinical, histological, and immunohistochemical remission induced by narrow-band ultraviolet B. *Indian J Dermatol.*, 62(2), 203-206.

Daulatabad, D., Grover, C., Tanveer, N., Bansal, D. (2016). Granular cell tumor in a child: An uncommon cutaneous presentation. *Indian Dermatol Online J*, 7(5), 390-392.

Daulatabad, D., Pandhi, D., Singal, A. (2016). BCG vaccine for immunotherapy in warts: Is it really safe in a tuberculosis endemic area? *Dermatol Ther*, 29, 168-72.

Dhawan, A. K., Bisherwal, K., Grover, C., Diwaker, P. (2016). Annular atrophic plaque over the arm. *Indian Dermatol Online J*, 7(4), 340-2.

Dhawan, A. K., Bisherwal, K., Grover, C., Sharma, S. (2016). An asymptomatic inguinal swelling: Lymphatic filariasis. *Indian J Dermatol Venereol Leprol*, 82(4), 446-8.

Grover, C., Kashyap, B., Daulatabad, D., Dhawan, A., Kaur, I. R. (2016). Significance of anti-cyclic citrullinated peptide autoantibodies in immune-mediated inflammatory skin disorders with and without Arthritis. *Indian J Dermatol*, 61(5), 510-4.

Pandhi, D., Bisherwal, K., Singal, A., Guleria, K., Mishra, K. (2016). P16 immunostaining as a predictor of anal and cervical dysplasia in women. *Indian J Sex Transm Dis.*, 37, 151-156.

- Pandhi, D., Singal, A., Wadhwa, N. (2016). Lichen Scrofulosorum: Yet another disease manifesting the Koebner phenomenon? *Int J Dermatol.*, 55, 809-10.
- Saxena, A. K., Lakshman, K., Sharma, T., Gupta, N., Banerjee, B. D., Singal, A. (2016). Modulation of serum BDNF levels in postherpetic neuralgia following pulsed radiofrequency of intercostal nerve and pregabalin. *Pain Manag.*, 6(3), 217-27.
- Singal, A., Daulatabad, D., Grover, C. (2016). Graying severity score: A useful tool for evaluation of premature canities. *Indian Dermatol Online J*, 7(3), 164-7.
- Singal, A., Gogoi, P., Pandhi, D., Bhatt, S. (2016). Subungual fibro-osseous pseudotumour of the digit: a rare occurrence. *International J Dermatol.*, 56, e11-13.
- Singal, A., Pandhi, D., Kataria, V., Arora, V. K. (2017). Tuberculosis of the glans penis: an important differential diagnosis of genital ulcer disease. *International J STD AIDS*, 956462417703027. doi: 10.1177/0956462417703027
- Singal, A., Daulatabad, D., Pandhi, D., Arora, V. K. (2016). Facial Basal Cell Carcinoma Treated with Topical 5% Imiquimod Cream with Dermoscopic Evaluation. *J Cutan Aesthet Surg.*, 9(2), 122-5.
- Singal, A., Vohra, S., Sharma, R., Bhatt, S. (2016). Blue Rubber Bleb Nevus Syndrome with Musculo-skeletal Involvement and Pulmonary Stenosis. *Indian Pediatr.*, 53(6), 525-7.
- Singal, A., Daulatabad, D. (2017). Nail tic disorders: Manifestations, pathogenesis and management. *Indian J Dermatol Venereol Leprol.*, 83, 19-26.
- Singal, A., Daulatabad, D., Grover, C. (2016). Graying severity score: A useful tool for evaluation of premature canities. *Indian Dermatol Online J*, 7(3), 164-7.
- Sonthalia, S., Singal, A. (2016). Smegma pearls in young uncircumcised boys. *Pediatr. Dermatol.*, 33(3), e186-e189.
- Daulatabad, D., Grover, C., Singal, A. (2016). Quality of life and psychological impact of premature canities: A study from North India. *Pigment Int.*, 3, 24-8.
- Singal, A. (2016). Conference Report European Nail Society (ENS) 2016 Annual Meeting, 28 Sept. 2016, During 25 EADV Congress, 28 Sept. - 2 Oct., 2016, Vienna (Austria). *ONYCHOSCOPE*, 6(1), Jan 2017.
- Pahwa, M., Grover, C. (2016). Advances in Nail Surgery. In Majid I, (Ed.), *IADVL Recent advances in Dermatology*. Delhi: Jaypee Brothers Medical Publishers.
- Sardana, K., Tejasvi, T. R., Pandhi, D., Arora, R., Menon, R. (2016). Biologicals. In Sardana K. (Ed.), *Systemic Drugs in Dermatology*, 1st Edn. (pp 266-303) New Delhi: Jaypee Publishers.
- Vishwanath, V., Pandhi, D. Autoimmune connective tissue diseases. In Chatterjee M, Vasudevan B (Eds.), *IADVL Atlas of Dermatology* (1st Edn, pp. 103-32). New Delhi: Jaypee Publishers.

### **Seminar / Conference Presentations**

- Grover, C., Invited Faculty for the session Treatment of Nail Disorders: Chemical Peelings during the proceedings of the 21 Annual Conference of Council for Nail Disorders, held at Hotel Hilton, Orlando, Florida, USA on March 2, 2017.
- Grover, C., Invited Panelist for Treatment of Acne Scars, during the proceedings of 2 Acne India Summit Organised at Sir Ganga Ram Hospital, Delhi on the Feb. 19, 2017.
- Grover, C., Invited Faculty for the session Summary and Conclusion, during the proceedings of the Thesis Writing Workshop-2017, held at UCMS, Delhi on Jan 31 and Feb. 2, 2017.
- Grover, C., Invited Chairperson for the session Surgical Management of Scars, during the proceedings of the 45 National Conference of IADVL, held at Science City, Kolkata, West Bengal on Jan. 13-15, 2017.
- Grover, C., Invited Panelist for Management of Nail Diseases, a Panel Discussion during the proceedings of CME, 45th National Conference of IADVL, held at Science City, Kolkata, West Bengal on Jan. 12, 2017.
- Grover, C., Invited Faculty for Surgical Management of Nail Tumors, a Video Demonstration during the Workshop on Nail Surgery, as a part of 5 ONYCHOCON, Annual National Conference of Nail Society of India, held at Hotel Clarks Amer, Jaipur, Rajasthan on Dec. 17, 2016.

Grover, C., Invited Faculty for In-vivo nail diagnosis: Onychoscopy during the proceedings of 5th ONYCHOCAN, Annual National Conference of Nail Society of India, held at Hotel Clarks Amer, Jaipur, Rajasthan on Dec. 17-18, 2016.

Grover, C., Invited Faculty for Periungual warts- Management, during the proceedings of 5th ONYCHOCAN, Annual National Conference of Nail Society of India, held at Hotel Clarks Amer, Jaipur, Rajasthan on Dec. 17-18, 2016.

Grover, C., Invited Faculty for Injectable therapies on Nail Diseases, during the proceedings of 5th ONYCHOCAN, Annual National Conference of Nail Society of India, held at Hotel Clarks Amer, Jaipur, Rajasthan on Dec. 17-18, 2016.

Grover, C., Invited Faculty for Non-melanocytic Nail Tumors during the proceedings of 5th ONYCHOCAN, Annual National Conference of Nail Society of India, held at Hotel Clarks Amer, Jaipur, Rajasthan on Dec. 17-18, 2016.

Grover, C., Invited Faculty for Interesting Nail Cases, a panel discussion during the proceedings of Annual Cuticon-IADV L Delhi State Branch, held at Hotel Le Meridien, Delhi on Nov. 20, 2016.

Grover, C., Invited Faculty for Onychoscopy during the proceedings of Pre-Conference Workshop on In-vivo Diagnostic Dermatology and Annual Conference of Dermatopathology Society of India, held at the Govt Medical College and Hospital, Sector 32, Chandigarh, on Nov. 11, 2016.

Grover, C., Invited Faculty for Basic Nail Surgery; and Advanced Nail Surgery during the proceedings of ACS(I) North Zone Dermatotomy Workshop 2016 held at the Hotel Eros, New Delhi on Nov. 13, 2016.

Grover, C., Invited Faculty for Nail Disorders during the proceedings of ACSICON-2016, 14th National Conference of Association of Cutaneous Surgeons (I) held at the Mahabaleshwar, Maharashtra, from April 21-23, 2016. Delivered a talk on Nail Biopsy Techniques.

Grover, C., Invited Faculty for Onychoscopy in the Workshop on Dermatoscopy held during proceedings of Asian Dermatological Congress-2016 held at the Mumbai, Maharashtra, from Oct. 13-16, 2016. Delivered a talk on Onychoscopy.

Grover, C., Invited Faculty for Paediatric Dermatology Update, held at the New Delhi on 9 Oct., 2016. Delivered a talk on Management of Infantile Hemangiomas- Current Practice during the proceedings.

Grover, C., Coordinator and Resource Faculty for IADV L-Torrent Dermatotomy Workshop-2016 Organised on 11<sup>th</sup> Sept., 2016 at Government Medical College and Rajindra Hospital, Patiala. Lead Faculty for Nail Surgery Techniques.”

Grover, C., Invited Faculty for moderating a session on Eruptions of Senescence: Growths and Neoplasms during the proceedings of 1st Geriatric Dermatology Symposium held at the Medanta, Gurgaon on Sept. 4, 2016.

Grover, C., Coordinator and Resource Faculty for Protocol Writing Workshop-2016 Organised from 12-20 Aug., 2016. Lead faculty for Formulate a title and Facilitator for Aim and Objectives, Outcome measures and Convert the plan into a protocol using a template. Present a protocol.

Grover, C., Invited Faculty for How I manage periungual warts during the proceedings of 3 Dermatology and Allied Specialties Summit, held at the New Delhi from July 1-3, 2016.

Grover, C., Invited Faculty for Dermatoscopy- Workshop during the proceedings of 3 Dermatology and Allied Specialties Summit, held at the New Delhi from July 1-3, 2016. Delivered a talk on Introduction to Dermatoscopy and Onychoscopy- a practical guide

Grover, C., Invited Faculty for Mid Year Cuticon-2016 Organised by IADV L-DSB at Delhi on May 15, 2016. Delivered a talk on What's new in Dermatology.”

Grover, C., Invited Faculty for Nail Disorders at Jaipur, May 7, 2016. Delivered a talk on Injectable therapies in Nail Disorders and Nail biopsy- when and how to do?

Pandhi, D., Invited lecture, Rituximab in Pemphigus, is it time to bid adieu to pulse therapy, at the 3rd Dermatology and Allied Specialties (DAAS) Summit Organised at New Delhi from July 1-3, 2017

Pandhi, D., Invited Panelist for panel discussion on, 'Management of Vesicobullous disorders' during 2nd 'CLINICON 2017' held in Jaipur on March 18- 19, 2017.

Pandhi, D., Invited speaker for Talk, Newer trends in the management of vesiculobullous disorders at the 2nd Clinicon held at Jaipur, March 18-19, 2017.

Pandhi, D., Invited panelist, Acne-myths and facts at the 2 Acne India Summit held at New Delhi on Feb. 19, 2017.

Pandhi, D., Invited Moderator for panel discussion, STD and HIV at the 45 National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Kolkata Jan. 11-15, 2017.

Pandhi, D., Invited speaker, Non infectious mucocutaneous manifestations of IRIS in AIDS at the 45 National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Kolkata Jan. 11-15, 2017.

Pandhi, D., Invited panelist, Connective Tissue Disease at the 45 National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Kolkata Jan. 11-15, 2017.

Pandhi, D., Invited lecture, Contact & Occupational Dermatoses of nails at the 5th National Onychocon 2016 at Jaipur Dec. 17 -18 2016.

Pandhi, D., Invited as a panelist on Management of Onychomycosis at the 5 National Onychocon 2016 at Jaipur Dec. 17 -18, 2016.

Pandhi, D., Invited lecture, HIV / AIDS and the burden of cutaneous and genital malignancies - Emerging issues at the 10 Asian Dermatological Congress [ADC 2016] at Mumbai, India from Oct. 13-16, 2016.

Pandhi, D., Invited lecture, Staying Alive-Who Decides at the AN ICPR SPONSORED NATIONAL CONFERENCE On Exploring the Meeting Ground of Moral, Medical and Legal aspects of Social Dilemmas in Public Interface at New Delhi from Oct. 21-23, 2016

Pandhi, D., Guest Speaker, Approach to a child with Fever and Rash at the Dermazone North India 2016 at Chandigarh from July 15-17, 2017.

Pandhi, D., Invited as a Judge for free paper session at National Pigmentarycon at New Delhi from April 2 -3, 2016.

Pandhi, D., Invited Speaker, How I manage Warts in Children at the Paediatric dermatology Update by IADVL (Delhi branch) on Oct. 9, 2016.

Singal, A., Invited speaker on, 'Hair Cleansers' during HYGIENE MATTERS, the 1st Multi-speciality National Conference of Community Dermatology Society (CDS) held at NIMHANS Bangalore during March 25 -26, 2017.

Singal, A., Invited panelist, 'Hair and Nail Care; Myths and facts' during HYGIENE MATTERS, the 1 Multi-speciality National Conference of Community Dermatology Society (CDS) held at NIMHANS Bangalore during 25 -26 March, 2017.

Singal, A., Invited panelist, 'Personal Hygiene Products' during HYGIENE MATTERS, the 1 Multi-speciality National Conference of Community Dermatology Society (CDS) held at NIMHANS Bangalore during March 25 -26, 2017.

Singal, A., Invited speaker on, 'Cutaneous tuberculosis; Interesting Perspective' during 'CLINICON 2017' held in Jaipur on March 18, 2017.

Singal, A., Invited speaker on 'Nail; Adverse Drug Reactions' during the symposium on 'Urticaria & Cutaneous Adverse Drug Reactions' at PGI Chandigarh on March 5, 2017.

Singal, A., Invited Expert Speaker, Session: The current epidemic of Topical Steroid abuse during 1 monthly CME of IADVL DSB 2017, in AIIMS, Delhi.

Singal, A., Invited speaker on, 'Paediatric Alopecia; diagnosis and management' during Derma Academy meeting, Organised by Reddy's Pharmaceutical in Delhi on Feb. 25, 2017.

Singal, A., Moderator for the panel discussion on 'Challenges in the management of Leprosy' during CME on Leprosy organised by IADVL DSB in MAMC, Ahilyabai Auditorium, on Jan. 28, 2017.

Singal, A., Moderator for the panel discussion on Nail Diseases; Nailing the nail problems in practice at the 45 National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Kolkata during Jan. 12<sup>th</sup> to 15, 2016.

Singal, A., Moderator for the panel discussion on Disorders of keratinization; Ichthyosis and Palmo Plantar Keratoderma at the 45 National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Kolkata during Jan. 12 to 15 2016.

Singal, A., Invited panelist, Epidermolysis bullosa at the 45 National Conference of Indian Association of Dermatologists, Venereologists and Leprologists (IADVL) held at Kolkata during 12<sup>th</sup> to 15 Jan, 2016.

Singal, A., Invited Faculty for Nail As a reflection of internal disease during the proceedings of '5 ONYCHOCON, Dec. 17 -18 2016 Organised by Nail Society of India and Jaipur Dermatology Group, Jaipur (Rajasthan).

Singal, A., Invited Speaker for Interesting nail cases during the proceedings of '5 ONYCHOCON, 17 -18 Dec. 2016 Organised by Nail Society of India and Jaipur Dermatology Group, Rajasthan.

Singal, A., Invited panelist Onychomycosis; How do I manage during the proceedings of '5 ONYCHOCON, 17 -18 Dec. 2016 Organised by Nail Society of India and Jaipur Dermatology Group, Jaipur (Rajasthan).

Singal, A., Resource person for the workshop on Surgical management of Ingrown toenail during 5 ONYCHOCON, 17 -18 Dec. 2016 Organised by Nail Society of India and Jaipur Dermatology Group, Jaipur (Rajasthan).

Singal, A., Invited speaker on 'Dengue and Chikungunya associated Skin manifestations' during Annual CUTICON, Organised by IADVL Delhi State Branch on 20 Nov., 2016 at Hotel Le Meridian, Delhi.

Singal, A., Session planner for the session on 'Tropical Dermatology' and speaker on, 'Hidden Mycoses' during 10 Asian Dermatological Congress (ADC) held during 13-16 Oct., in Mumbai, India.

Singal, A., Invited Panelist for the session on 'Nail Diseases' during 10th Asian Dermatological congress (ADC) held during 13-16 Oct., in Mumbai, India.

Singal, A., Invited speaker on, 'Paediatric Alopecia; Spectrum and Management'during Paediatric dermatology Update Organised by IADVL, DSB on 9 Oct., 2016 at hotel Le Meridian, New Delhi.

Singal, A., Invited speaker on, 'Tropical Nail Disorders' in the European Nail Society Meeting (ENS) Scientific Meeting held during 25<sup>th</sup> European Academy of Dermatology and Venereology Congress (EADV), Vienna (Austria) held during 28 Sept. to 2 Oct. 2016.

Singal, A., Invited speaker on, 'Hidden Mycoses' during 25 European Academy of Dermatology and Venereology Congress (EADV), Vienna (Austria) held during 28 Sept. to 2 Oct 2016.

Singal, A., Invited panellist for the sessions, 'Infections in Children and Atopic Dermatitis' during Paediatric Dermatology session organised by IAP, Delhi Chapter in Sir Ganga Ram Hospital on Sept. 7, 2016.

Singal, A., Invited panellist for the session, 'Pruritus in elderly' during Geriatric Dermatology conference organised by SIG Geriatric Dermatology & IADVL Haryana State Branch on 4 Sept., In Medanta Hospital, Gurgaon.

Singal, A., Invited Jury and Moderator for TYSA Quiz 2016, West Zone, organised by Torrent Pharma in association with IADVL, in Mumbai on Aug 21, 2016.

Singal, A., Invited speaker on 'Therapeutic Indications Of Nail Surgery' during 2nd PGCON & DERMAZONE NORTH' organised by IADVL Punjab, Chandigarh and Himachal Pradesh Branch on July 15 -17, 2016.

Singal, A., Invited Moderator for the case presentation session on 'Diffuse Hair Loss in Women' during 2nd PGCON & DERMAZONE NORTH' organised by IADVL (Punjab, Chandigarh and Himachal Pradesh Branch on July 15 -17, 2016.

Singal, A., Invited speaker on 'Non Infective Nail Disorders; Diagnostic Nail Changes' during National Symposium Of Clinical Dermatology & Bedside Investigations, Organised by IADVL Karnataka Branch on 11 and 12 June, 2016.

Singal, A., Invited Panelist for the session, 'Interesting cases in Dermatology'during Mid-summer CUTICON, Organised by IADVL Delhi State Branch, at Hotel Le Meridian, Delhi, May 15, 2016.

Singal, A., Invited speaker on, 'Relevance of Nail Examination in Dermatology' during symposium on NAIL SURGERY Organised by Jaipur Dermatology Group in Jaipur, May 8, 2016.

Singal, A., Invited speaker on, 'Management of Ingrown Toe Nail' during symposium on NAIL SURGERY Organised by Jaipur Dermatology Group in Jaipur May 8, 2016

Singal, A., Invited faculty for the debate, 'Should Dermatologists treat PCOS or refer' during DECEMBERODE, controversies in Dermatology, Organised in association with Maharashtra State Branch, in Mumbai during April 30-May 1, 2016.

Singal, A., Invited speaker on, 'Nail matricectomy' during 14 Annual Conference of Association of Cutaneous Surgeon (ACSICON) at Mahabaleshwar from April 21 - 23, 2016.

**Faculty Strength – 5**

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## FORENSIC MEDICINE (UCMS)

### Honours / Distinctions

Dr. N. K. Aggarwal, Member of the National Advisory Board of IAMLE 2016, held at Hyderabad.

Dr. N. K. Aggarwal, Member of the Editorial Committee, *Delhi Psychiatry Journal*, Published by Delhi Psychiatric Society.

Dr. A. Kohli, Member International Editorial Board of the *Journal of Forensic Medicine & Toxicology*

Dr. A. Kohli, Managing Editor of the *International Journal of Medical Toxicology & Legal Medicine*.

Dr. S. K. Verma:

Member, Editorial Board, *Delhi Psychiatric Journal*.

Member, Advisory Board, *Journal of Indian Academy of Forensic Medicine*.

Member, International Advisory Board, *Journal of Forensic Medicine and Toxicology*.

Member, Editorial Board, *Journal of Dentistry & Oral Disorders*, Austin Publishing Group, USA.

### Publications

Kumar, M., Kumar, M., Kohli, A., Tyagi, A. K., Kumar, A., Gupta, S. K. (2017). Prediction of survival using TRISS in train accident victims in tertiary care hospital, Delhi. *J Forensic Chem. Toxicol.* 3(1), 5-10.

Setty, S., A. K., Kumar, A., Aggarwal, N. K., Kumar, A. (2016). Poisoning death trends in north-east Delhi – A retrospective study. *J Indian Acad. Forensic Med.*, 38 (2), 213-6.

Verma, S.K. Medicolegal issues in health practice. In, Gupta, P., Khan, A.M. (Eds.), *Textbook of Community Medicine*. New Delhi: CBS Publishers and Distributors Pvt, Ltd.

**Faculty Strength – 5**

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## MICROBIOLOGY (MAMC)

### Major Activities and Achievements

The Department of Microbiology at Maulana Azad Medical College is at the forefront of teaching the principle and art of clinical microbiology to undergraduate (MBBS, BDS, B.Sc. Nursing), postgraduate (M.D. Microbiology) and Ph.D. students. The faculty members in the Department oversee the provision of diagnostic and prognostic laboratory services to patients referred from Lok Nayak Hospital, New Delhi, apart from fulfilling their teaching and research obligations. The laboratories are well equipped with latest equipment, such as vitek-2 compact system, bac/t alert system, DNA sequencer, cobas taqman 48 analyzer, BD-FACS count system and fully automated ELISA processor. The HIV laboratory in the Department functions as a State Reference Laboratory (SRL) for HIV under the aegis of National Aids Control Organization (NACO). The NABL accreditation of the HIV laboratory was renewed in the field of Microbiology & Serology in accordance with the international standard ISO 15189:2012, from Aug 12, 2016, for two years.

## Publications

- Ashraf, A., Chakravarti, A., Roy, P., Kar, P., Siddiqui, O. (2016). Frequency Of nucleotide sequence variations in the internal ribosome entry site region of hepatitis C virus Rna isolated from responding and non-responding patients with hepatitis C virus genotype 3 infection. *Virus Disease*, 335-337.
- Ashraf, A., Chakravarti, A., Roy, P., Kar, P., Siddiqui, O., Goel, S. (2016). Hcv-Ns5a region and response to pegylated-interferon alpha plus ribavirin therapy: Mutational analysis in patients with chronic Hcv infection. *International Journal of Current Research*, 8, 38114-38123.
- Ashraf, A., Chakravarti, A., Roy, P., Siddiqui, O., Goel, S., Kapoor, N., Kar, P. (2016). Revisiting the utility of biochemical profile in the diagnosis and management of hepatitis C virus infection: A study from India. *J Pharm Biomed. Sci.*, 6(09), 502–507.
- Chakravarti, A., Chauhan, M.S., Banerjee, S. And Roy, P. (2016). Comparison of multiples Rt-Pcr and Real-time hybprobe assay for serotyping of dengue virus using reference strains and clinical samples from India. *Indian Journal of Pathology and Microbiology*, 59 (3), 330-334.
- Chakravarti, A., Roy, P., Malik, S., Siddiqui, O., Thakur, P. (2016). A study on gender-related differences in laboratory characteristics of dengue fever. *Indian Journal of Medical Microbiology*, 34(1): 82-84.
- Chaurasia, S., Sankar, M. J., Agarwal, R., Yadav, C. P., Arya, S., Kapil, A., Gaiind, R., Vishnubhatla, S., Chellani, H., Ramji, S., Kumar, S., Deorari, A. K., Paul, V. K., Aggarwal, K. C., Deb, M., Prakash, S. K., Gupta, N., Thukral, A., Natarajan, C. K. (2016). Delhi Neonatal Infection Study (Denis) Collaboration. characterization and antimicrobial resistance of sepsis pathogens in neonates born in tertiary care centres in Delhi, India: A cohort study. *Lancet Glob Health*, 4: E752–760.
- Deepa Pandey, C.P. Baveja, Vinay Kamal, H. S. Hira. (2016). Diagnostic comparison of two staining techniques in sputum samples of pulmonary tuberculosis cases. *International Journal Of Current Research*, 8(6), 32644-32648.
- Garg, S., Chakravarti, A., Singh, R., Masthi, N. R. R., Goyal, R. C., Jammy, G. R., Ganguly, E., Sharma, N., Singh, M. M., Feriera, G., Moureau, A., Ojha, S., Nealon, J. (2016). The Dng10 study group. dengue serotype specific seroprevalence among 5 to 10-year-old children in India: A community based cross-sectional study. *International Journal Of Infectious Diseases*, 10.030.
- Kumar, S., Saigal, S. R., Sethi, G. R., Kumar, S. (2016). Application of serology and nested polymerase chain reaction for identifying chlamydomphila pneumoniae in community-acquired lower respiratory tract infections in children. *Indian J Pathol Microbiol.*, 59, 499-503.
- Lawrence, Madhumita Debbarma, C. P. Baveja, Surinder Kumar, Ashwani Khanna, Joseph Sapriina (2016). Comparative evaluation of fluorescent staining with ziehl-neelson and kinyoun staining in diagnosis of clinically suspected cases of pulmonary tuberculosis. *International Journal Of Contemporary Medical Research*, 3(7), 1970-1974.
- Malhotra, R., Urs, A.B., Chakravarti, A., Kumar, S., Gupta, V. K., Mahajan, B. (2016). Correlation of cyfra 21-1 levels in saliva and serum with ck19 mrna expression in oral squamous cell carcinoma. *Tumour Biol*.
- Roy, A., Baveja, C.P., Kumar, S. (2016). Comparison of recoveries of mycobacterium tuberculosis using the automated bactec,mgit 960 system and lowenstein – jensen medium in clinically suspected cases of tubercular meningitis in children. *International Journal Of Biomedical And Advance Research*, 7(2), 94-96.
- Siddiqui, O., Chakravarti, A., and Abhishek, K. S. (2016). Dengue: Lessons of an outbreak. *J Clin. Diagn. Res*.
- Thakur, P., Chakravarti, A., Aggarwal, S., Uppal, B., Bhalla, P. (2016). Elevated levels of vascular endothelial growth factor in adults with severe dengue infection. *Virus Disease*, 27(1), 48-54.

## Research Projects

- Integrated Counseling and Testing Centre (ICTC) For HIV under the Aegis of Naco and Dsacs.
- State Reference Laboratory (SRL) For HIV under the Aegis of Naco and Dsacs.
- Laboratory for Enumeration CD4 T-Lymphocyte by Flow Cytometry under the Aegis of Naco & Dsacs.
- National Staphylococcal Phage Typing Centre under the Aegis of Govt. of NCT, Delhi.
- Regional STI Reference, Research and Training Centre Laboratory.

### **Seminars Organised**

Conducted Workshop On Staphylococcal Phage Typing For Final Year M.D. (Microbiology) Students of Delhi University on Jan. 12, 2017.

Organised Two Workshops on External Quality Assessment Scheme For HIV Serology For Laboratory Technicians of Linked Ictcs and Pptcts on Feb. 20, 2017 & March 17, 2017.

Organised Two Naco-Bd Cd4 Good Laboratory Practices (Glp) Training Programs For Laboratory Technicians Of CD4 Testing Laboratories Nominated By Naco on Aug. 08-09, 2016 and on 10 Nov. 2016.

### **Faculty Strength – 05**

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## **MICROBIOLOGY (UCMS)**

### **Honours / Distinctions**

Dr. Das S.:

Best Publication – Satish Chandra Memorial Award in IAMM-Delhi Chapter, Nov. 19, 2016.

Nominated as President of IAMM- DELHI for 2017

Executive Member at IAMM National Body for 2016-2019.”

Dr. Kumar A.:

Dr. B. C. Roy Memorial Award for Eminent Medical Teacher for the year 2014, March 28, 2017.

MCI representative for University of Delhi. Member of Executive Committee and sub-committee Finance.

Dr. Ramachandran V.G.:

Consultant, Technical Resource Group - NACO - Department of AIDS, Control, Govt. of India.

Member, Research Committee, Amity Institute of Virology and Immunology, AUUP, Noida.

Expert – Area Advisory Board, Amity University, Noida.

Reviewer for Journals – *Clinical Orthopedics and Related Research; Indian Paediatrics; and Indian Journal of Orthopedics.*

Member, Project Review Committee, DBT, DST, Govt. of India.

Dr. N.P. Singh:

Selection Committee Expert for the post of Professor/Associate professor, Microbiology at AMU, Aug. 5, 2016.

Judge for prestigious award Mumbai Belgaum best paper in Bacteriology

Selection Committee Expert for the post of Professor/Associate professor, Microbiology at Pt. B. D. Sharma University of Health sciences, Rohtak, Dec. 6, 2016 & Feb. 8, 2017.

Nominated expert in technical committee at Superspeciality paediatric hospital and post graduate teaching institute, Noida Expert, Feb. 2, 2017.

Expert in selection board at ESI Medical College, Faridabad, 31 March, 2017.

### **Publications**

Arora, P., Malik, M., Sachdeva, R., Saxena, L., Das, J., Ramachandran, V. G., Pal, R. (2016). Innate and humoral recognition of the products of cell death, differential antigenicity and immunogenicity in lupus. *Clinical and Experimental Immunology*, Epub ahead of print, doi: 10.1111/cei.12889

Bansal, D., Sharma, S., Agarwal, S., Saha, R., Gupta, N. (2016), Detection of *Helicobacter pylori* in nasal polyps. *Head and Neck Pathology*, 699-704.

Dar, S., Haque, S., Mandal, S., Singh, R., Wahid, T., Jawed, M., Panda, A., Aditya, Naseem, N., Mohtashim, L., Mohammed, A., Rai, G., Datt, S., Bhattacharya, S. N., Ramachandran, V. G., Vishnampettai, Das. S. (2016).



Interleukin-6 -174G>C (rs1800795) Polymorphism distribution and its association with rheumatoid arthritis, a case-control study and meta-analysis. *Autoimmunity GAUT-0034.R2*.

Dar, S. A., Haque, S., Mandal, R. K., Singh, T., Jawed, M. W. A., Panda, A. K., Akhter, N., Lohani, M., Areeshi, M. Y., Rai, G., Datt, S., Bhattacharya, S. N., Ramachandran, V. G., Das, S. (2016). Interleukin-6-174G>C (rs1800795) polymorphism distribution and its association with rheumatoid arthritis, a case control study and meta-analysis. *Auto Immunity*, 1-12. <http://dx.doi.org/10.1080/08916934.2016.1261833>

Das, S., Saha, R., Roy, P., Hada, V., Kaur, I. R., Muktesh, G., Madhu, S. V. (2016). A case of fibrocalculous pancreatic diabetes (FCPD) with pelvic and scrotal abscess caused by *Candida glabrata*. *Indian Journal of Medical Specialities*, 7, 90-92.

Goyal, N., Kashyap, B., Singh, N. P., Kaur, I. R. (2016). Comparative diagnostic utility of Neopterin and IFN- $\gamma$  / IL-2 in extrapulmonary tuberculosis. *Ind. J. Clin. Biochem.*, 1-6. doi,10.1007/s12291-016-0624-3.

Goyal, N., Kashyap, B., Singh, N.P., Kaur, I. R. (2016). Comparative diagnostic utility of Neopterin and IFN- $\gamma$ /IL-2 in extrapulmonary tuberculosis. *Ind. J. Clin. Biochem.*, doi,10.1007/s12291-016-0624-3.

Goyal, N., Kashyap, B., Singh, N. P., Kaur, I. R. (2016). Neopterin and oxidative stress markers in the diagnosis of extrapulmonary tuberculosis. *Biomarkers*, 1-20.

Grover, C., Kashyap, B., Daulatabad, D., Dhawan, A., Kaur, I. R. (2016). Significance of anti-CCP auto-antibodies in immune mediated inflammatory skin disorders with and without arthritis. *Indian J Dermatol*, 61(5), 510-4.

Gupta, C., Jongman, M., Das, S., Sneha, K., Bhattacharya, S. N., Seyedmousavi, S., van Diepeningen A. D. (2016). Genotyping and In Vitro Antifungal Susceptibility Testing of *Fusarium* Isolates from Onychomycosis in India. *Mycopathologia*, 181(7-8), 497-504.

Gupta, P., Narang, M., Saha, R. (2016). Effect of Quinine and Artesunate combination therapy on platelet count of children with severe malaria. *Paediatr. Int. Child Health*.

Gupta, S., Kashyap, B. (2016). Bacteriological profile and antibiogram of blood culture isolates from a tertiary care hospital of north India. *Tropical J Med. Res.*, 19(2), 94-99.

Jain, C., Das, S., Ramachandran, V. G., Saha, R., Bhattacharya, S. N., Dar, S. (2017). Malassezia Yeast and Cytokine Gene Polymorphism in Atopic Dermatitis. *Journal of Clinical and Diagnostic Research*, 11(3), 1-5.

Jain, C., Das, S., Saha, R., Ramachandran, V. G., Bhattacharya, S. N., Dar, S. (2017). Detection of phospholipase production by EGG Yolk-Agar in malassezia isolates from diseased and healthy human host. *International Journal of Medical Science and Public Health*. doi, 10.5455 / ijmsph.

Jain, S., Das, S., Saha, R., Ramachandran, V. G., Bhattacharya, S. N., Dar, S. (2017), Malassezia Yeast and cytokine gene polymorphism in atopic dermatitis. *Journal of Clinical and Diagnostic Research*, 11(3).

Kashyap, B., Deewan, P., Kashyap, A., Kaur, T., Faridi, M. M. A., Kaur, I. R. (2017). Effect of birth weight on immunogenicity of Hepatitis B vaccine amongst NICU graduates. *Tropical J Med. Res.*, 20(1), 31-35.

Kashyap, B., Gupta, S., Goyal, N., Sarin, Y. (2016). Device-associated infection rates with microbiological profile and antibiogram pattern from an adult medical-surgical ICU of a tertiary care hospital. *Indian J. Med. Specialities*, 8(1), 25-30.

Kashyap, B., Gupta, S., Sarin, Y. K. (2016). Device-associated infection rates with microbiological profile and antibiogram pattern from an adult medical-surgical ICU of a tertiary care hospital. *International J. Infectious Dis.*, 45, 300

Kashyap, B., Gupta, S. (2016). Awareness towards occupation exposure among health care workers of a tertiary care hospital, A KAP Survey. *International J. Hospital Res.*, 5(1), 1-6.

Kashyap, B., Kusumakar, K., Sarin, Y. K. (2016). Fatal neonatal peritoneal candidiasis mimicking mucormycosis – A case report and review of literature. *J. Tropical Paediatrics*, 62(5), 425-8.

Kaushik, S., Saha, R., Das, S., Ramachandran, V. G., Goel, A. (2016). SSUrRNA target amplification of intestinal microsporidia, a sensitive diagnostic tool for accurate estimate of its prevalence. *J. Gastrointestinal Infections*, 6(1), 50-53.

Kirti, N., Rumpa, S., Ramachandran, V. G., Bhattacharya, S. N., Das, S., Mogha, N. S. (2016). Co-infection of HSV in gonococcal urethritis patients. *J Commun. Dis.*, 48(3), 19-21.

- Kirti, N., Rumpa, S., Ramachandran, V. G., Bhattacharya, S. N., Das, S., Mogha, N. S. (2017). Multiple acquisitions of STIs, invitations to clinical care and summons to intangibles in laboratory diagnosis. *J Biomed Sci.*, 3(1), 3-10.
- Kirti, N., Saha, R., Ramachandran, V. G., Bhattacharya, S. N., Das, S. (2016). Resistance in *Neisseria gonorrhoeae*, a cause of concern? *Int J Curr Microbiol App Sci*, 5(11), 140-144.
- Malik, M., Arora, P., Sachdeva, R., Sharma, L., Ramachandran, V. G., Pal, R. (2016). Elucidation of the potential disease-promoting influence of IgM apoptotic cell-reactive antibodies in lupus, *Lupus*. pii, Epub ahead of print., 0961203315624023
- Mishra, P.K., Kaur, I.R., Manchanda, V., Batra, P., Singh, N.P. (2016). Utility of real time PCR in culture negative acute bacterial meningitis in paediatric age group. *IJCR*, 08(05), 30636-30639.
- Mishra, P. K., Singh, N. P., Batra, P., Kaur, I. R. (2016). Bacteriological profile of acute pyogenic meningitis in paediatric age group from a tertiary care hospital of east Delhi. *J Pharm. Biomed. Sci.*, 6(3), 174–178.
- Nirmal, K., Saha, R., Ramachandran, V. G., Bhattacharya, S. N. (2016). Resistance in *Neisseria gonorrhoeae*, a cause of concern? *International Journal of Current Microbiology and Applied Sciences*, 5(11), 140 -144.
- Nirmal, K., Saha, R., Ramachandran, V. G., Das, S., Bhattacharya, S. N., Mogha, N. S., Kaur, I. R. (2016). Co-infection of HSV in Gonococcal Urethritis patients. *Journal of Communicable Diseases*, 48(3), 19-21.
- Nirmal, K., Saha, R., Ramachandran, V. G., Sambit, N., Bhattacharya, S. N., Das, S., Narendra, S., Mogha, N. S. (2016). Multiple acquisitions of STIs, invitation to precision in clinical care and summons to intangibles in laboratory diagnosis. *Journal of Biomedical Sciences*. 3(1), 3-8.
- Panda, P.S., Kashyap, B., Prasad, S. (2016). Microbiological profile of cervix of females attending in-vitro fertilization clinic of a tertiary care hospital, North India. *J Reproductive Health Med.*, 2(1), S7-S10.
- Rai, S., Rani, M., Choudhury, D. D., Singh, N. P., Gupta, A., Manchanda, V. (2016). Failure to Decolonize mupirocin and linezolid resistant MRSA from a patient with necrotizing soft tissue infection. *J Infect. Public Health*, 9(5), 667-9.
- Ramachandran, V. G., Das, S., Roy, P., Hada, V., Mogha, N. S. Chikungunya, a reemerging infection spreading during 2010 dengue fever outbreak in National Capital Region of India. *Virus Dis.*, doi: 10.1007/s13337-016-0314
- Ramachandran, V. G., Roy, P., Das, S., Mogha, N. S., Bansal, A. K. (2016). Empirical model for calculating dengue incidence using temperature, rainfall and relative humidity, a 19-year retrospective analysis in East Delhi, India. *Epidemiology and Health*, doi: 10.4178 / epih.e2016052.
- Ramachandran, V. G., Das, S., Roy, P., Hada, V., Mogha, N. S. (2016). Chikungunya, a reemerging infection spreading during 2010 dengue fever outbreak in National Capital Region of India. *Virus Disease*, doi: 10.1007 / s13337-016-0314-z
- Ronsard, L., Ganguli, N., Singh, V. K., Mohankumar, K., Rai, T., Sridharan, S., Pajaniradje, S., Kumar, B., Rai, D., Chaudhuri, S., Kumar, C., Coumar, M. S., Ramachandran, V. G., Banerjee, A. C. (2017). Impact of genetic variations in HIV-1 Tat on LTR-mediated transcription via TAR RNA interaction. *Frontiers in Microbiology*, doi: 10.3389/ fmicb.2017.00706.706
- Roy, P., Das, S., Singh, N. P., Saha, R., Kajla, G., Sneha, K., Gupta, V. P. (2017). Changing trends in fungal and bacterial profile of infectious keratitis at a tertiary care hospital, a six-year study. *Clin. Epidemiol. Glob. Health*, 5, 40-45.
- Saha, R., Ramachandran, V.G., Roy, P., Das, S., Chatterjee, R., Kaushik, S., Ahir, M., Mogha, N.S. (2017), Needle stick injury among health care workers and its aftermath in a tertiary care hospital in east Delhi, India. *Journal of Communicable Diseases*, 49(1), doi, 10.24321/0019-5138.20170214-20
- Saha, R., Roy, P., Das, S., Chatterjee, R., Kaushik, S., Ahir, M., Maroof, K. A., Ramachandran, V. G., Mogha, N. S. (2017). Needle stick injury and health care workers, exposure and aftermath. *J Communicable Dis*, 49(1), 14-20.
- Saha, R., Roy, P., Das, S., Kaur, I. R. (2016). Emerging trends in the etiology and antimicrobial susceptibility pattern of enteric pathogens in north India. *Int. J Current Res. Academic Rev.*, 4, 80-84.
- Saha, R., Roy, P., Das, S. (2016). Anticysticercus antibody detection in saliva as a potential diagnostic tool for neurocysticercosis. *Annals of Indian Academy of Neurology*. 14.139.60.131
- Singh, N. P., Rani, M., Gupta, K., Sagar, T., Kaur, I. R. (2017). Changing trends in antimicrobial susceptibility pattern of bacterial isolates in a burn unit. *Burns*, S0305-4179(17)30031-1

Singh, N. P., Sagar, T., Nirmal, K., Kaur, I. R. (2016). Pyogenic Liver abscesses caused by *Acinetobacter Lwoffii*, a case report. *J Clin Diagn. Res.* 10(6), DD01–DD02.

Singh, T., Das, S., Ramachandran, V. G., Maroof, K. A., Rai, A. (2016). Antimicrobial resistance, Phylogenetic distribution and molecular docking of integrons in multidrug resistant Diarrheagenic *E.coli* isolates from children under five in Delhi, India. *International Journal of Infectious Diseases*, 45, 68-69.

Singh, T., Das, S., Ramachandran, V. G., Saha, R., Rai, A. (2016). Typical and atypical enterpathogenic *E. coli* in diarrhoea and their role as carrier in healthy children under five. *IJMR*.

Singh, T., Das, S., Ramachandran, V. G., Wani, S., Shah, D., Maroof, K. A., Sharma, A. (2017). Distribution of Integrons and phylogenetic groups among enteropathogenic *Escherichia coli* isolates from children. *Frontiers in Microbiology*.

Singh, T., Ramachandran, V. G., Shah, D., Wani, S., Maroof, K. A., Sharma, A., Das, S. (2017). Distribution of integrons and phylogenetic groups among enteropathogenic *Escherichia coli* isolates from children less than five years of age in Delhi, India. *Frontiers in Microbiology*, doi:10.3389/fmicb.2017.00561

Vishnampettai, G., Ramachandran, V. G., Roy, P., Das, S., Mogha, N. S., Bansal, A. K. (2016). Empirical model for estimating dengue incidence using temperature, rainfall, and relative humidity, a 19-year retrospective analysis in East Delhi. *Epidemiology and Health*, (8), 1-8.

Ramachandran V. G. (2017). Immunization, Japanese Encephalitis vaccine. In Piyush Gupta, PSN Menon, Siddarth Ramji, Rakesh Lodha Vipin M. Vashishta, *Post Graduate Text Book of Paediatrics* (Chapt. 23.15). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. (In Press)

Ramachandran V. G. (2017). Epidemiology of infectious diseases. In PSN Menon, Siddarth Ramji, Rakesh Lodha Vipin M. Vashishta, *Post Graduate Text Book of Paediatrics* (Chapt. 27.1). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. (In Press)

Ramachandran V. G. (2017). Natural history of bacterial infections. In PSN Menon, Siddarth Ramji, Rakesh Lodha Vipin M. Vashishta, *Post Graduate Text Book of Paediatrics* (Chapt. 29.1). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd. (In Press)

Ramachandran V. G. (2017). Epidemiology of viral infections. In PSN Menon, Siddarth Ramji, Rakesh Lodha Vipin M. Vashishta, *Post Graduate Text Book of Paediatrics* (Chapt. 31.1). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd., (In Press)

Ramachandran V. G. (2017). Epidemiology of parasitic infections. In PSN Menon, Siddarth Ramji, Rakesh Lodha Vipin M. Vashishta, *Post Graduate Text Book of Paediatrics* (Chapter 32.1). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd., (In Press)

Ramachandran V. G. (2017). Fungi. In PSN Menon, Siddarth Ramji, Rakesh Lodha Vipin M. Vashishta, *Post Graduate Text Book of Paediatrics* (Chapt. 33.1). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd., (In Press)

## Research Projects

Dr. Das S., DST, 4 yrs, *Th17 and Treg cell differentiation and their in-vitro functional responses in Pemphigus vulgaris*, Rs. 50 Lakhs.

DHR-ICMR, 1 yr, *Study of Expression profile of miRNA in progressive autoimmune skin disease & its role in modulating host – immune response*, Rs. 2 Lakhs.

Vyomme BioSciences, Delhi, 2 years, *Collaborative studies on developing new topical formulation against Trichophyton species*, Rs. 2 Lakhs.

Dr. Ramachandran V. G., IMRG, *Determination of Elisa Reactive Mumps IgG antibodies in MMR Vaccine recipients and MMR Vaccine naïve children, A cross sectional Study*, Rs. 25,000.

State Reference laboratory, HIV / AIDS, Since Apr 1991, NACO, Govt.of India, Rs. 2, 90, 000

Dr. Das S, Epidemiology, DBT, *pathogenomics, and system biology of A. flavus infections in India - an integrative approach*, Rs. 37 Lakhs.

DBT, *Antifungal susceptibility testing and genotyping of clinically isolated cryptococcus strains from Delhi and other parts of India*, Rs. 15 Lakhs.

Dr. Ramachandran V. G., DBT, *Transcriptome analysis for identification of novel biomarker for disease progression in Dengue patients*, Rs.1 Crore & 39 Lakhs.

### **Conferences Organised**

International seminar on 'Antibiotic Resistance, Renewed fears' jointly Organised by UCMS & AIIMS, New Delhi., Sept. 10, 2016. Dr. Ashwani Kumar, Organizing Secretary.

National seminar on NABL: Essential for excellence Organised by NABL and UCMS, March 11, 2017. Dr. Ashwani Kumar, Organizing Secretary.

CPCSEA, Committee for purpose of control and supervision of experiments on animals, April 28-Sept. 28, 2016.

Training of Laboratory Technicians in External Quality Assurance in HIV Testing, Nov. 10, 2016. State Reference Laboratory – HIV/AIDS – UCMS, Sponsored by DSACS/NACO, Govt.of India., March 29, 2017. Dr. VG Ramachandran,

One day Workshop on LAMP at UCMS and GTB Hospital, Nov. 18, 2016. Dr. VG Ramachandran,

### **Seminar / Conference Presentation**

R. Saha, HISICON 2017 the XIVth National Conference of Hospital Infection Society of India at Guwahati Medical College, Guwahati, Feb. 9 -11, 2017.

R. Saha, Attended Meeting / Workshop on Updation of Dnb Curriculum of Microbiology at NBE, Delhi on Feb. 10 and 27, 2017.

R. Saha, MICROCON 2016, XXXVIII National Conference of Indian Association of Medical Microbiologists, at PGIMER Chandigarh, Nov. 25 -27, 2016.

R. Saha, American Society of Microbiology CME on Antibiotic Resistance, Renewed Fears at India Habitat Centre, Delhi, Sept. 10, 2016.

R. Saha, Regional Workshop on Capacity Building of Faculty in Medical Colleges/Research Institutes by DHR & ICMR at NICPR, Noida, Sept. 19 -21, 2016.

R. Saha, As Guest Faculty attended ICCMID Course Organised by Indian Society of Critical Care Medicine (ISCCM) at India Habital Centre Delhi, Sept. 9-10, 2016.

R. Saha, IAMM DC Annual Conference & Pre Conference CME at India Habitat Centre, Delhi. , Nov. 19, 2016.

V. G. Ramachandran, Variations in HIV-1 nef, its functional consequence and pathogenetic implications.

V. G. Ramachandran, VIROCON - 2016. International Conference on Global Perspectives in Virus Disease Management Indian Institute of Horticulture Research [ICAR], Bengaluru, Dec. 7-10, 2016.

V. G. Ramachandran, Oral presentation on The significance of Neopterin as a circulating diagnostic biomarker in extrapulmonary tuberculosis at MICROCON 2016, 40th Annual Conference of Indian Association of Medical Microbiologists (Nov. 23 to 27, 2016) at PGIMER, Chandigarh.

V. G. Ramachandran, Guest speaker at Galgotia University, Greater Noida, on Immunology Day, April 29, 2016.

V. G. Ramachandran, Guest Speaker at Association of Practicing Pathologist at IHC-Delhi, Sept. 25, 2016.

V. G. Ramachandran, Invited Speaker at 40th Annual conference - IAMM/Microcon Nov., 2016,

V. G. Ramachandran, PGIMER- Chandigarh, Nov. 26, 2016.

V. G. Ramachandran, Invited Speaker at Pathcon & Lab expo 2016- IHC-Delhi, Dec. 17, 2016.

V. G. Ramachandran, Invited Speaker at Immunocon 2016, GITAM University, Vishakhapatnam, Feb. 16-18, 2017.

V. G. Ramachandran, Workshop by POSHCA society, March 3, 2017. Dr. VG Ramachandran,

V. G. Ramachandran, International Conference on Global Perspectives in Virus Disease Management Indian Institute of Horticulture Research [ICAR], Bengaluru, Dec. 7 -10, 2016.

V. G. Ramachandran, IAMM- Delhi Chapter, Indian Habitat Centre-Delhi., Nov. 19, 2016.

N.P. Singh, Guest speaker, CME cum Workshop on Emerging Infections in India Organised by ASM at AIIMS. Topic, Linezolid resistance *Staphylococcus aureus*, An emerging concern, April 21, 2016.

N.P. Singh, Chairperson, Diagnosis of the viral infections, An Enigma at Micro-con 2016, 8th Annual Conference IHC, Delhi, Nov. 19, 2016.

N.P. Singh, (Oral) in Microcon 2016, Annual Conference of IAMM at PGIMER, Chandigarh Nov. 25-27, 2016.

N.P. Singh, Chair person, UP-UK Microcon 2017 Theme – Vector borne diseases, Feb. 12-13, 2017.

#### Faculty Strength – 6

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## MICROBIOLOGY (VPCI)

### Major Activities and Achievements

Department of Microbiology at VPCI is actively involved in diagnostics, teaching and research. A number of diagnostics pertaining to Bacteriology, Anaerobic bacteriology, Mycobacteriology, Virology & Mycology are being carried out. Higher end facilities like gene-expert, MGIT, Gene sequencer and MALDI-TOFF are available for identifying the pathogens. Medical Mycology, laboratory has gained a mile-stone by becoming one of the collaborative centre of European Society of Clinical Microbiology and Infectious Diseases. Medical Mycology has published first de-novo whole genome sequence of *Candida auris*, a multi-drug resistant pathogen emerging in Indian hospitals. Research in antibiotic resistance mechanisms in Multidrug resistant bacterial pathogens, their molecular characterization and typing, drug resistance profiling and molecular typing of *M. Tuberculosis* isolates, Ethambutol resistance mechanisms, role of efflux pumps in drug resistance of *M. Tuberculosis*, newer diagnostic techniques are actively pursued. Virology is actively involved in influenza virus diagnostics and viral research.

### Honours / Distinctions

Dr. Mandira Varma Basil: Secretary, Indian Association of Mycoplasmologists and Member Ethics committee Rajan Babu Institute of Pulmonary Medicine and Tuberculosis.

Astha Giri (Ph.D. student): Best free Poster Award, Indian Association of Medical Microbiologists (IAMM) Delhi Chapter, March 25, 2017, AIIMS, New Delhi.

Dr. Madhu Khanna: Travel award by International Society for Influenza and other Respiratory viruses (ISIRV)-Antiviral Group (isirv-AVG) to attend Novel Antiviral Therapies for Influenza and Other Respiratory Viruses: Bench to Bedside Conference at University of Texas, Austin, USA (2- 4 June, 2015).

Dr. Anuradha Chowdhary, Fellow (Elected) European Confederation of Medical Mycology, 2017.

### Publications

Abhimanyu, Bose, M., Varma-Basil M, Jain, A., Sethi, T., Tiwari, P. K., Agrawal, A., Banavaliker, J. N., Bhowmick, K. T. (2016). Establishment of elevated serum levels of IL-10, IL-8 and TNF- $\beta$  as potential peripheral blood biomarkers in tubercular lymphadenitis: A prospective observational cohort study. *PLoS One*, 19, 11(1), e0145576. doi: 10.1371/journal.pone.0145576. eCollection. Impact Factor: 3.234.

Chang, H., Ashu, E., Sharma, C., Kathuria, S., Chowdhary, A., Xu, J. (2016). Diversity and origins of Indian multi-triazole resistant strains of *Aspergillus fumigatus*. *Mycoses*, 59, 450-466.

Chander, J., Singla, N., Kundu, R., Handa, U., Chowdhary, A. (2017). Phaeohyphomycosis caused by *Rhytidhysterion rufulum* and review of literature. *Mycopathologia*, 182, 403-407.

Chowdhary, A., Voss, A., Meis, J. F. (2016). Multidrug-resistant *Candida auris*: 'New kid on the block' in hospital-associated infections? *J Hosp. Infect.*, 94, 209-212.

- Girard, V., Mailler, S., Chetry, M., Vidal, C., Durand, G., van Belkum A, Colombo, A. L., Hagen, F., Meis, J. F., Chowdhary, A. (2016). Identification and typing of the emerging pathogen *Candida auris* by matrix-assisted laser desorption ionisation time of flight mass spectrometry, *Mycoses*, 59, 535-538.
- Gonçalves, S. S., Souza, A. C., Chowdhary, A., Meis, J. F., Colombo, A. L. (2016). Epidemiology and molecular mechanisms of antifungal resistance in *Candida* and *Aspergillus*. *Mycoses*, doi: 10.1111/ myc.12469
- Khanna, M., Nandi, T., Roy, S. and Saini, S. (2016). Zika virus: A brief overview. *Austin Virol. and Retrovirology*, 3(2), 1021.
- Khanna, M., Agrawal, N., Gupta, S., Saini, S., Kumar, B., Kumar, J., Kumar, H., Malini, S. and Saini, S. (2016). Prevalence of respiratory viruses in exacerbation of chronic obstructive pulmonary disease. *Austin Virol. and Retrovirology*, 3(1), 1018.
- Kumar, A., Prakash, A., Singh, A., Kumar, H., Hagen, F., Meis, J. F., Chowdhary, A. (2016). *Candida haemulonii* species complex: An emerging species in India and its genetic diversity assessed with multilocus sequence and amplified fragment-length polymorphism analyses. *Emerg. Microbes Infect.*, 25, 5:e49.
- Lockhart, S. R., Etienne, K. A., Vallabhaneni, S., Farooqi, J., Chowdhary, A., Govender, N. P., Colombo, A. L., Calvo, B., Cuomo, C. A., Desjardins, C. A., Berkow, E. L., Castanheira, M., Magobo, R. E., Jabeen, K., Asghar, R. J., Meis, J. F., Jackson, B., Chiller, T., Litvintseva, A. P. (2017). Simultaneous emergence of multidrug-resistant *Candida auris* on 3 continents confirmed by Whole-Genome Sequencing and epidemiological analyses. *Clin. Infect. Dis.*, 64, 134-140.
- Masih, A., Singh, P. K., Kathuria, S., Agarwal, K., Meis, J. F., Chowdhary, A. (2016). Identification by molecular methods and matrix-assisted laser desorption ionization-time of flight mass spectrometry and antifungal susceptibility profiles of clinically significant rare *Aspergillus* species in a referral chest hospital in Delhi, India. *J. Clin. Microbiol.*, 54, 2354-64.
- Meis, J. F., Chowdhary, A., Rhodes, J. L., Fisher, M. C., Verweij, P. E. (2016). Clinical implications of globally emerging azole resistance in *Aspergillus fumigatus*. *Philos. Trans. R Soc. Lond. B Biol. Sci*, 5, 371(1709). Pii, 20150460.
- Mehta, P. K., Singh, N., Dharra, R., Dahiya, B., Sharma, S., Sheoran, A., Gupta, K. B., Chaudhary, D., Mehta, N., Varma-Basil M. (2016). Diagnosis of tuberculosis based on the detection of a cocktail of mycobacterial antigen 85B, ESAT-6 and cord factor by immuno-PCR. *J Microbiol. Methods*, 127, 24-7.
- Raj, A., Singh, N., Gupta, K. B., Chaudhary, D., Yadav, A., Chaudhary, A., Agarwal, K., Varma-Basil M, Prasad, R., Khuller, G.K., Mehta, P.K. (2016). Comparative evaluation of several gene targets for designing a multiplex-PCR for an early diagnosis of extrapulmonary tuberculosis. *Yonsei Med J*. 57(1),88-96.
- Rathor, N., Garima, K., Sharma, N. K., Narang, A., Varma-Basil M, Bose, M. (2016). Expression profile of *mce4* operon of *Mycobacterium tuberculosis* following environmental stress. *Int. J. Mycobacteriol*, <http://dx.doi.org/10.1016/j.ijmyco.2016.08.004>
- Shariff, M., Aditi. (2016). Antimicrobial resistance: Challenges and the way forward. *Ind J Chest Dis. Allied Sci.*, 58,157-159.
- Saini, N. K., Sinha, R., Singh, P., Sharma, M., Pathak, R., Rathor, N., Varma-Basil M, Bose, M. (2016). Mce4A protein of *Mycobacterium tuberculosis* induces pro-inflammatory cytokine response leading to macrophage apoptosis in a TNF- $\alpha$  dependent manner. *Microb. Pathog.*, 100, 43-50.
- Schelenz, S., Hagen, F., Rhodes, J. L., Abdolrasouli, A., Chowdhary, A. Hall, A., Ryan, L., Shackleton, J., Trimlett, R., Meis, J. F., Armstrong-James D, Fisher, M. C. (2016). First hospital outbreak of the globally emerging *Candida auris* in a European hospital. *Antimicrob Resist. Infect. Control*, 5, 35. Collection, 2016.
- Singh, A., Singh, P. K., Kumar, A., Chander, J., Khanna, G., Roy, P., Meis, J. F., Chowdhary, A. (2017). Molecular and matrix-assisted laser desorption ionization-time of flight mass spectrometry characterization of clinically significant melanized fungi in India. *J Clin. Microbiol.*, 55, 1090-1103
- Sharma, C., Kumar, N., Pandey, R., Meis, J. F., Chowdhary, A. (2016). Whole genome sequencing of emerging multidrug resistant *Candida auris* isolates in India demonstrates low genetic variation. *New Microbes and New Infect*, 13, 77-82.

Shrivastava, K., Garima, K., Narang, A., Bhattacharyya, K., Vishnoi, E., Singh, R. K., Choudhary, A., Prasad, R., Bose, M., Varma-Basil M. (2017). Rv1458c: A new diagnostic marker for identification of M. Tuberculosis complex in a novel duplex PCR assay. *J Med. Microbiol.*

Varma-Basil, M., Narang, A., Chakravorty, S., Garima, K., Gupta, S., Sharma, N., Giri, A., Zozio, T., Couvin, D., Hanif, M., Bhatnagar, A. K., Menon, B. K., Niemann, S., Rastogi, N., Alland, D., Bose, M. (2016). A snapshot of the predominant Single nucleotide polymorphism cluster groups of *Mycobacterium tuberculosis* clinical isolates in Delhi, India. *Tuberculosis*, 100, 72-81.

National Journals subscribed (Online+ paper back) – 1+11

International Journals subscribed (Online+ paper back)– 14+ 22

### Research Projects

Dr. Malini Shariff, DBT funded project (March 2015-2 years), *Microbiome of Human lung in COPD patients attending Vallabhshai Patel Chest Institute, Delhi.* – Rs. 17.8 Lakhs (Completed)

Dr. Malini Shariff, ICMR funded project (March 2017-3 years), *Isolation and Characterization of Anaerobic Bacteria causing Lower Respiratory Tract Infections in Patients attending VP Chest Institute, Delhi.*

Dr. Mandira Varma, ICMR funded project (2014-2017) *Phenotypic and Genotypic Indicators of drug resistant Tuberculosis: Can they be used as early warning systems for MDR and XDR Tuberculosis?*

Dr. Mandira Varma, DST and CSIR funded project (2014-2017), project, *Point of care diagnostic assay for Tuberculosis*

Dr. Madhu Khanna, CSIR funded project (2013-2016), project, *To study the heterosubtypic immunity provided by pandemic influenza A H1N1 (2009) virus infected cells.* Rs. 30 Lakhs (Completed)

Dr. Madhu Khanna, AYUSH funded project (2014 to 2017), project, *Evaluation of antiviral activity of medicinal plants against influenza A virus.*” - Rs. 25.23 Lakhs (Completed)

Dr. Madhu Khanna, APACHI funded project (2013 to 2016), *Profile of antibody responses and duration of protection following influenza vaccination for adults >65 years old.*” 30,604 USD (Completed)

Dr. Madhu Khanna, DST-SERB funded project (2016-2019), *Aptamer-mRNA Chimera – The Next Generation RNA Vaccine*”, Rs. 39 Lakhs

### Seminar / Conference Presentation

Anuradha Chowdhary, Pradeep Kumar Singh, presented a poster, Evaluation of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for identification of clinically significant filamentous basidiomycetes. European Society of Clinical Microbiology and Infectious Diseases. 26th European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands, Sept.12, 2016.

Anuradha Chowdhary, Cheshta Sharma presented a lecture,, Prevalence of azole resistance in clinical *Aspergillus flavus* isolates: presence of novel S196F, A324P, N423D and V465M substitutions in *cyp51C* gene. European Society of Clinical Microbiology and Infectious Diseases. 26th European Congress of Clinical Microbiology and Infectious Diseases, Amsterdam, Netherlands, Sept. 12, April, 2016.

Anuradha Chowdhary, Presented a lecture,, Emergence and spread of azole resistant *Aspergillus* at ISHAM / European Confederation of Medical Mycology ARS working group, 1 ISHAM / European Confederation of Medical Mycology ARS working group meeting, Nijmegen, the Netherlands, Jan. 20-21, 2017.

Anuradha Chowdhary, Presented a guest lecture, Emerging filamentous basidiomycetes at International Society for Human and Animal Mycology and Gilead. FORUM on Fungal Infections in the Middle East, Dubai, UAE, April 22 -23, 2016.

Anuradha Chowdhary, Presented a Guest lecture,, Molecular Characterization and Antifungal Susceptibility profile of Black Fungi in diverse Clinical entities in India at International Society for Human and Animal Mycology Working Group Black Yeasts and Relatives. 6 Meeting of the ISHAM Working Group Black Yeasts and Relatives, Viterbo, Italy, Sept. 15-17, 2016.

Anuradha Chowdhary, Presented a Guest lecture,, Epidemiology of azole resistance in *Aspergillus* Name of the Organisers- International Society for Human and Animal Mycology Working Group at 2 Duden Conference / 1 ISHAM / European Confederation of Medical Mycology ARS working group meeting, Jan. 20 -21, 2017, Nijmegen, the Netherlands.

Anuradha Chowdhary, Presented a lecture, Spectrum and antifungal susceptibility profiling of candida species in vulvovaginal candidiasis by molecular methods and MALDI-TOF MS at Indian Association of Medical Microbiologists, Chandigarh, Nov. 23-27, 2016.

Anuradha Chowdhary, Presented a lecture, Molecular characterization and genotyping of global *Candida africana* isolates at annual conference of Indian Association of Medical Microbiologists. Chandigarh, Nov. 23 -27, 2016.

Anuradha Chowdhary, Presented a lecture,, Characterization by Matrix Assisted Laser Desorption Ionization-Time of Flight Mass spectrometry (MALDI-TOF MS) of *Candida* species causing candidemia in tertiary care hospitals, India at annual conference of Indian Association of Medical Microbiologists. Chandigarh, Nov. 23 -27, 2016.

Kamal Shrivastava, Poster Presentations, Clinical significance of Nontuberculous Mycobacteria isolated in a mycobacteriology laboratory in Delhi, India. 47th Union World Conference on Lung Health Liverpool, UK, Oct. 26-29, 2016.

Mandira Varma Basil, Lack of Association of *ubiA* mutations with Ethambutol resistance in clinical isolates of *Mycobacterium tuberculosis* from North India 47th Union World Conference on Lung Health, Liverpool, UK Oct. 26-29, 2016.

Madhu Khanna, 5th ISIRV-AVG Conference, Prevention and Treatment of RVI's: Antivirals, Traditional Therapies and Host- Directed Interventions 12 to 13 June 2016 Shanghai, China.

Madhu Khanna, Apaci Influenza workshop, Oct. 24, 2016, at Kuala Lumpur, Malaysia.

Malini Shariff, 2nd Quarterly Meet of IAMM Delhi and NCR Chapter held at Medanta Hospital on Aug. 20, 2016.

Malini Shariff, 8th Annual Conference of IAMM Delhi and NCR Chapter between Nov. 17-19, 2016 on Newer challenges in Viral infections at India Habitat center, New Delhi.

Malini Shariff, 31st Quarterly meet of IAMM Delhi and NCR Chapter held at All India Institute of Medical Sciences, New Delhi on March 25, 2017.

Malini Shariff, Aditi, Oral Presentation, From the Hospital Environment. MICROCON 2016 (Annual Conference of Indian Association of Medical Microbiologists) between Nov. 17-19, 2016. India Habitat Centre.

Aditi, Malini Shariff, Oral Presentation, Clinically significant uncommon non-fermenters isolated from respiratory specimens. MICRO-D-CON 2106 (Annual conference of Indian Association of Medical Microbiologists – Delhi Chapter). between Nov. 17-19, 2016. India Habitat Centre.

Aditi, Malini Shariff, Poster Presentation, Resistance profile of commensal *Pseudomonas aeruginosa* isolates. ASM CME on Antibiotic Resistance: Renewed Fears (2016). Sept. 10, 2016 India International centre.

Anuradha Chowdhary, Ashutosh Singh, presented a poster,, Molecular Characterization and Antifungal Susceptibility Profile of Clinical Isolates of *Fusarium* species in Delhi, India at annual conference of Indian Association of Medical Microbiologists Chandigarh, Nov. 23 -27, 2016.

Anuradha Chowdhary, Shalini Upadhyay, presented a poster, Trends in MIC distribution of *Candida species* isolated from Patients with Bloodstream Candidiasis at annual conference of Indian Association of Medical Microbiologists. Chandigarh, Nov. 23-27, 2016.

Kamal Srivastava, (Ph.D. student), Isolation and antimicrobial susceptibility testing of clinically relevant rapidly growing mycobacteria in a mycobacteriology laboratory, Indian Association of Medical Microbiologists – Delhi Chapter, March 25, 2017, AIIMS, Delhi

Naresh Kumar Sharma, (Oral Presentation), Differential expression of mycolic acid in *M. tuberculosis* from patients of pulmonary and lymph node tuberculosis under surface stress, 40 Annual Conference of Indian Association of Medical Microbiologists. Chandigarh, India, Nov. 23 -27, 2016

Pooja Singh, (Poster Presentations) Increased accumulation of lipids due to overexpression of cholesterol import gene in *M. tuberculosis* H37Rv. Indian Association of Medical Microbiologists – Delhi Chapter, March 25, 2017, AIIMS, Delhi.



Astha Giri, (Poster Presentations) Polymorphism upstream to embA lead to high-level ethambutol resistance in clinical isolates of *Mycobacterium tuberculosis* from North India. Indian Association of Medical Microbiologists – Delhi Chapter, March 25, 2017, AIIMS, Delhi.

Chanchal Kumar, (Poster Presentations) Comparison of an in-house Duplex PCR assay with the MGIT TBcID assay for identification of *Mycobacterium tuberculosis* complex. Indian Association of Medical Microbiologists – Delhi Chapter, March 25, 2017, AIIMS, Delhi.

### **Inter-Institutional Collaboration**

Department of Biochemistry, MDU, Rohtak.

**PhD / M.Phil Awarded – 6**

**Faculty Strength –04**

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## **MEDICINE (UCMS)**

### **Honours / Distinctions**

Dr. Aggarwal A, Fellowship of American College of Physicians, 2016

### **Publications**

Aggarwal, A., Bansal, N., Aggarwal, R. (2016). Nonketotic hyperglycemia presenting as monoballism. *Journal of Emergency Medicine*, 50, e133-134.

Aggarwal, A., Srivastava, S., Gupta, A. (2016). Management of heart failure with preserved ejection fraction. In, Mathur PC (Ed.), *Clinical medicine update 2016* (pp 215-222). Gwalior, India: Indian Academy of Clinical Medicine Publication

Aggarwal, A., Srivastava, S., Gupta, A. (2016). Nanomedicine. In Mathur PC (Ed.), *Clinical Medicine Update 2016* (pp. 67-80). Gwalior, India: Indian Academy of Clinical Medicine Publication.

Aggarwal, A., Srivastava, S., Velmurugan, M. (2016). Newer perspectives of coronary artery disease in young. *World Journal of Cardiology*, 26, 728-734.

Aggarwal, A. (2017). Writing an effective conclusion. In Munjal YP (Ed.), *Pearls of Scientific Paper Writing*. (pp. 46-48), Delhi, India: Physicians Research Foundation

Aggarwal, R., Agarwal, M. P., Avasthi, R. (2017). Assessment of glycemic status in patients with acute ischemic stroke. *Indian Journal of Endocrinology and Metabolism*, 21, 33. (Abstract).

Bansal, R., Yadav, A., Raizada, A., Sharma, S., Goel, A. (2016). Can malaria trigger systemic lupus erythematosus? *Trop Doctor*, pii, 0049475516655071

Bhagat, R., Agarwal, M. P., Agarwal, A. (2016). Ethylene Dibromide poisoning–ingestion. *Santosh University Journal of Health Sciences*, 2, 45-46.

Gupta, N., Giri, S., Rathi, V., Ranga, G. S. (2016). Flow mediated dilatation, carotid intima media thickness, ankle brachial pressure index and pulse pressure in young male post myocardial infarction patients in India. *J Clin. Diagn. Res.*, 10, OC35-OC39.

Malik, S., Giri, S., Madhu, S. V., Rathi, V., Banerjee, B. D., Gupta, N. (2016). Relationship of levels of vitamin D with flow-mediated dilatation of brachial artery in patients of myocardial infarction and healthy control, A case-control study. *Indian J. Endocrinol. Metab.*, 20, 684-689.

Mukherjee, S., Thawani, R., Roy, P., Aggarwal, A., Das, S., Goel, A. (2017). Interaction with patients in understanding medical students' role as health care providers. *Pharm Biomed Sci.*, 7, 40-45.

Srivastava, S., Aggarwal, A., Gupta, A. (2016). Insulin use in Type 2 diabetes mellitus. In Mathur PC (Ed.), *Clinical Medicine Update 2016*. (pp.119-124). Gwalior, India: Indian Academy of Clinical Medicine Publication.

Sundaram TG, Agarwal MP, Kumar A, Narang S. (2016). *Indian J Gastroenterol.*, 35 (Suppl 1), A64-65. (Abstract).

### **Seminar / Conferences Presentation**

M. P. Agarwal, XI National Stroke Conference of Indian Stroke Association (INSC 2017), Amritsar, March 17 -19, 2017.

A. Aggarwal, 24<sup>th</sup> Annual Conference on Diabetes DIABECON 2016, New Delhi, April 9 -10, 2016.

A. Aggarwal, Rheumatology Update 2016, Noida , May 8, 2016.

A. Aggarwal, DC-ISAR Symposium 2016, New Delhi, Aug. 6, 2016,

A. Aggarwal, CME, Dialogues in Diabetes, Noida, Aug. 28, 2016.

A. Aggarwal, 11<sup>th</sup> World Congress on Clinical, Preventive Cardiology and Imaging (WCCPCI 2016), Abu Road, Rajasthan, Sept. 22 -25, 2016.

A. Aggarwal, 29<sup>th</sup> Annual Conference of Indian Society for Atherosclerosis Research and International symposium on Atherosclerosis, Kochi, Kerala., Oct. 21 -23, 2016.

A. Aggarwal, 15<sup>th</sup> Annual Conference of Uttar Pradesh Diabetes Association, Ghaziabad, U. P., Oct. 1 -2, 2016.

A. Aggarwal, 27<sup>th</sup> Annual Conference of API Delhi State Chapter, New Delhi, Oct. 15 -16, 2016.

A. Aggarwal, 12<sup>th</sup> Annual Conference of RSSDI Delhi Chapter, New Delhi, Oct. 9, 2016.

A. Aggarwal, 24<sup>th</sup> Annual Conference of Indian Academy of Clinical Medicine, Gwalior, M. P., Nov. 4 -6, 2016.

A. Aggarwal, 17, Annual Conference of East Delhi Physicians' Association, New Delhi, Dec. 11<sup>th</sup> 2016.

A. Aggarwal, Annual Conference of API Haryana State Chapter, Gurugram, Haryana, Dec. 24 -25, 2016.

A. Aggarwal, Annual Conference of Association of Physicians of India, Noida Chapter, Noida, Feb. 12<sup>th</sup>, 2017.

A. Aggarwal, 2<sup>nd</sup> National Conference on Latest Trends in Health and Physical Education, Delhi, Feb. 14 -15, 2017.

A. Aggarwal, Rheumatology Update 2017, New Delhi, Feb. 12<sup>th</sup>, 2017.

A. Aggarwal, Annual Neurocritical Care Update 2017, Gurugram, Haryana, March, 24 -25, 2017.

A. Aggarwal, 31<sup>st</sup> Annual Conference of Cardiological Society of India Delhi Branch, New Delhi, March 25 -26, 2017.

A. Aggarwal, Workshop on Tobacco Control and Health Informatics, NICPR, Noida, U. P., March 29 -30, 2017.

### **Faculty Strength – 14**

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## **MEDICAL EDUCATION UNIT (UCMS)**

### **Publications**

Dhaliwal, U. (2017). My favorite person. *Med Humanities*, doi: 10.1136/medhum-2016-011182, Published Online, Feb. 03, 2017.

Dhaliwal, U., Supe, A., Gupta, P., Singh, T. ( 2017). Producing competent Doctor - The art and science of teaching clinical skills. *Indian Pediatr*, pii, S097475591600040. [Epub ahead of print].

Gupta P., Khan A. M. (2016). (Eds.), *Textbook of Community Medicine* (1e). New Delhi: CBS Publishers, ISBN,9788123929736

Joshi, A., Singh, S., Jaswal, S., et al. (2016). Concept maps, a tool for knowledge management and synthesis in web-based conversational learning. *Int J Appl Basic Med Res*, 6(3), 151-56.

Kalra, J., Singh, S., Badyal, D., Barua, P., Sharma, T., Dhasmana, D. C., Singh, T. (2016). Poetry in teaching pharmacology, Exploring the possibilities. *Indian J Pharmacol.*, 48 (S1), 61-4.

- Khan, A. M., Ramji, S. (2016), Reporting statistics in biomedical research literature, The numbers say it all. *Indian Pediatr.*, 53(9), 811-814.
- Khetarpal, A., Singh, S. (2016). Reintroducing differences linguistically! *Indian J Med Ethics*, 1(3), 162-66.
- Kumar, H. B., Khan, A. M., Arora, V. K., Singh, N. (2017). Fine needle aspiration biopsy, An entrustable professional activity in cytopathology postgraduate training. *J Cytol.*, 34, 84-89.
- Mahajan, R., Anshu, Gupta, P., Singh, T. (2017). Practice-based learning and improvement (PBLI) in postgraduate medical training, milestones, instructional and assessment strategies. *Indian Pediatr.*, pii, S097475591600042. [Epub].
- Mahajan, R., Badyal, D.K., Gupta, P., Singh, T. (2016). Cultivating lifelong learning skills during graduate medical training. *Indian Pediatr.*, 53(9), 797-804.
- Mishra, D., Gupta, P., Singh, T. (2017). Teaching for reducing diagnostic errors. *Indian Pediatr.*, 54(1), 37-45.
- Modi, J. N., Anshu, Chhatwal, J., Gupta, P., Singh, T. (2016). Teaching and assessing communication skills in medical undergraduate training. *Indian Pediatr.*, 53(6), 497-504.
- Singh S. (2017). Perseverance pays. In Halder, S and Assaf, L (Eds.), *Inclusion, Disability and Culture, an Ethnographic Approach Traversing Abilities and Challenges*. Springer (in press). ISBN 978-3-319-55223-1
- Singh, S. (2016). Editorial, Embracing brokenness. *RHiME*, 3, 39-41.
- Singh, S., Barua, P., Dhaliwal, U., Singh, N. (2017). Harnessing the medical humanities for experiential learning. *Indian J Medical Ethics*, <http://ijme.in/articles/harnessing-the-medical-humanities-for-experiential-learning/?galley=html>.
- Singh, T., Modi, J. N., Kumar, V., Dhaliwal, U., Gupta, P., Sood, R. (2017). Admission to undergraduate and postgraduate medical courses, looking beyond single entrance examinations. *Indian Pediatr.*, 54(3), 231-238. Epub.

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## **OBSTETRICS & GYNAECOLOGY (MAMC)**

### **Major Activities and Achievements**

The Department of Obstetrics and Gynaecology provides tertiary care for patients and conducts teaching, training and research programmes in Obstetrics and Gynaecology. It is involved in teaching 250 undergraduate students and 20 postgraduates per year, fellowship of National Board of two students each in Reproductive medicine and High risk pregnancy. The Department has special clinics on Infertility and IVF, High risk pregnancy, Fetal Medicine, Gynaecologic Endocrine, Gynaecologic Oncology and Mid-life Health. The Department conducted the 19th practical course & CME in OBGY in Oct., 2016. In this course, more than 300 postgraduate students came from all over India and the entire faculty gave lectures and case discussions. A book, Evidence Based Gynecology was published from the department. Training of Trainers (TOTs) for family planning and PPIUCD is done regularly in the department. There were 300 cases of IVF procedure, which were conducted in the Department with a success rate of 42-45%.

### **Honours / Distinctions**

Dr. A. Tempe received Appreciation Award from Delhi Government for preparation of SOPs in Obstetrics and Gynaecology for all hospitals in Obstetrics and Gynaecology.

The Department received prizes for most number of sterilizations and PPIUCD insertion for Central District Delhi.

### **Publications**

Research Articles in indexed International Journals:

Bhatnagar, G., Sharma, S., Kumar, A., Prasad, S., Agarwal, S., Kar, P. (2016). Reduced glutathione in hepatitis E infection and pregnancy outcome. *J Obstet. Gynaecol. Res.*, 14. doi: 10.1111/jog.12986 (Epub ahead of print)

- Bhilwar, M., Lal, P., Sharma, N., Bhalla, P., Kumar, A. (2016). Prevalence of induced abortions and use of contraceptive use among married women in an urban slum of Delhi, India. *Int. J Gynecol. Obstet.*, 1-4.
- Goswami, D., Rani, R., Saxena, A., Arora, M. S., Batra, S., Sreenivas, V. (2016). Maternal and neonatal vitamin-D status in twin versus singleton pregnancies. *J Obstet. Gynaecol. Res.*, 42(10), 1250-1257.
- Gupta, B., Arora, P., Khurana, N., Tempe, A. (2017). A case report on Mucinous cystadenocarcinoma of ovary in 14 year old girl of Obstetrics *Gynaecol. Sci.*, 60(2), 227-31.
- Kumar, A. (2016). Caesarean section surgical techniques: 3 year follow-up of the CORONIS fractional, factorial, unmasked, randomized controlled trial. *Lancet*, doi.org / 10.1016 / S0140-6736 (16)30355-5
- Sahu, L., Rani, R., Rathore, A. M. (2016). Cardiomyopathy complicating pregnancy. Outcome of 25 cases and Review of Literature. *European J of Biomedical & Pharmaceutical Sciences*, 3(9), 357-363.
- Sahu, L., Thakur, P., Gandhi, G., Agarwal, K. (2016). A randomized comparative study to compare the efficacy of oxytocin, misoprostol, 15-methyl PGF<sub>2a</sub>, Methylergometrine in active management of third stage of labor. *European J of Biomedical & Pharmaceutical Sciences*, 3(5), 273-278.
- Singh, S., Karra, V. K., Daga, M. K., Kumar, A., Husain, S. A., Choudhary, S., Hazam, R. K., Gumma, P. K., Polipalli, S. K., Kar, P. (2016). Association of Alu I polymorphism in estrogen receptor beta gene with adverse pregnancy outcome in HEV infection. *International Journal of Bioassays*, 5(11), 5016-5020.
- Tempe, A., Sing, N., Bajaj, J (2016). Pregnancy with multiple sclerosis – the obstetrician’s approach. *MAM J of Medical Science*, 2, 1062-8.
- Research Articles in indexed Indian journals:
- Bhilwar, M., Lal, P., Sharma, N., Bhalla, P., Kumar, A. (2016). Prevalence of induced abortions and use of contraceptive use among married women in an urban slum of Delhi, India. *Int J Gynecol Obstet.*, 1–4.
- Kumar, A., Kaur, S. (2017). Calcium: A nutrient in pregnancy. *J Obstet. Gynecol. India*, doi:10.1007/s13224-017-1007-2
- Kumar, A., Sharma, K. A., Mittal, S., Kumar, G. (2016). The relationship between bodymass index and bone mineral density in premenopausal and postmenopausal north Indian women. *J Obstet. Gynaecol.*, India, 66(1), 52-56. doi:10.1007/s13224-014-0629-x
- Kumar, A. (2017). Tao brush. *J Obstet. Gynecol.*, 67(4), 304-305.
- Sharma, S., Kumar, A., Kar, P., Agarwal, S., Ramji, S., Husain, S.A., Prasad, S., Sharma, S. (2017). Risk factors for vertical transmission of hepatitis E virus infection. *J Viral Hepat.*, doi: 10.1111/jvh.12730 (Epub ahead of print)
- Sharma, S., Kumar, A., Prasad, S., Sharma, S. (2016). Current scenario of vitamin D status during pregnancy in north Indian population. *J Obstet. Gynaecol.*, 66(2), 93-100.
- Research Articles in non-indexed journals:
- Ayesha., Jha, V., Goswami, D. (2016). Premature Ovarian Failure: An association with autoimmune diseases. *J Clin Diag Res.*, 10(10), QC10-QC12.
- Beniwal, S., Makkar, B., Batra, S., Gandhi, G., Goswami, D., Zutshi, V. (2016). Comparison of vaginal versus oral Estradiol administration in improving the visualization of transformation zone (TZ) during Colposcopy. *J Clin. Diag. Res.*, 10(7), QC18.
- Rana, A., Agarwal, K. (2017). Safety of delayed Umbilical Cord clamping in preterm neonates less than 34 weeks gestation. *Indian J Pediatr.*, 84(5), 414. doi:10.1007/s12098-016-2289-6
- Tempe, A., Singh, N., Bajaj, J. (2016). Pregnancy with multiple sclerosis – The Obstetricians approach, *MAMCJ Med. Science*, 2, 1062 - 8.
- Verma, S., Agarwal, K., Gandhi, G. (2016). Pregnancy at 65, risks and complications. *J Hum. Reprod. Sci.*, 9(2), 119-20.

## Research Projects

Dr. Sudha Prasad, ICMR funded project,, *To study the effect of counseling with Yoga based stress management on the clinical pregnancy rate and uterine artery flow parameters in women undergoing assisted reproduction.*

Dr. Ashok Kumar, UGC funded project, *Vitamin-D supplementation in pregnancy*.

Dr. Ashok Kumar, ICMR funded project, *Development of prediction model for preeclampsia in diabetic pregnant women*.

### **Conferences Organised**

Infertility and Assisted Reproduction conference on Feb. 5, 2017.

2nd MAMC-Maternal Fetal Medicine Workshop on FETAL GROWTH RESTRICTION – Feb. 18, 2017.

National Conference of ISCCP March 5-7, 2017.

### **Seminars / Conference Presentations**

Tempe A, Khandey P., Effect of intrauterine instillation of human chorionic gonadotropin hormone before embryo transfer on in vitro fertilization cycles. 22nd IFFS World Congress, 2016.

Tempe T, Khandey K., Osteogenesis imperfect in pregnancy: Management issues. NARCHI – 2016.

Moderator, panelist and chairperson at Haryana Chapter of Obstetrics and Gynaecology and Endoscopic conference at Sonipat in April, 2016.

Pure Gesican, 2016 panelist and chairperson on 'Diabetes in pregnancy' and Infertility session in June, 2016.

Attended MAMCOAANA Medical Graduates from MAMC in America gathering in July, 2016 at Minnesota as faculty, Sept., 2016,

Chairing of a session on Postpartum Hemorrhage with Dr. Anil Kumaran at G. B. Pant Auditorium in a CME on Maternal Fetal Medicine. Aug., 2016.

Conducted a session on IUGR in a PG Update.

Three Lectures in AOGD meeting, Failed induction; Low or no sperm count; and Cardiac disease in pregnancy Nov., 11-14, 2016, Hotel Ashok, Delhi on.

Chaired a session and panelist on Diabetes mellitus in pregnancy in a CME held at LHMC.

Chaired a session on 'Critical care in pregnancy' at Safdarjung Hospital in Nov., 2016.

Organizing chairperson for Practical Course in Obstetrics and Gynaecology for Postgraduates in Oct., 2016 at MAMC, conducted session on Hypertension in pregnancy and Adnexal mass

A Panelist on Male Infertility session; and Two papers presented at the International Conference IFFS at Greater Noida in Sept., 2016.

Panelist, Infertility updates organizing chairperson and conducted male infertility and Mullerian Agenesis Session at MAMC. Feb. 5, 2017

Maternal Fetal Medicine: Organizing Chairperson for CME on IUGR in MAMC Feb. 18, 2017.

A Kumar, Management of Diabetes in Pregnancy. CME on Controversies in Obstetrics organised by Deen Dayal Upadhyay Hospital, New Delhi on April 8, 2016.

A Kumar, Antihypertensives in Pregnancy- An Update. 3 GOAL Conference, 'Controversies to Consensus in Obstetrics & Gynecology' Organised by ICOG and FOGSI on April 9 -10, 2016 at Delhi.

A Kumar, Gynae Instrument; Gurukul Classes: DNB Forum 2016, May 25-26 2016. Institute of Obstetrics and Gynaecology, Sir Ganga Ram Hospital, New Delhi.

A Kumar, Iron and Female Pelvic Health. Iron Summit: Organised by UPHA (Uropevic Health Association of India) on June, 3 2016, Chandigarh and on 4 June, 2016, Gurgaon.

A Kumar, Iron Sucrose. Iron Summit: Organised by UPHAI (Uropevic Health Association of India) on 4 June, 2016, Gurgaon.

A Kumar, Multiple Pregnancy–Long Case Discussion; Bangalore Society of Obstetrics & Gynecology CME 2016, 15-19 June 2016. Bengaluru

A Kumar, Progesterone in AUB. Progesterone Summit: Organised by UPHAI (Uropevic Health Association of India) on 18 June, 2016, New Delhi

A Kumar, Previous Cesarean section, Long Case Discussion; AOGD –PG Update, Aug. 13-14, 2016, by Association of Obstetricians & Gynecologists of Delhi, Delhi

Moderator of panel discussion:

Postpartum Thyroiditis. CME on Endocrinological Disorders of women; 20 Aug. 2016, by Association of Obstetricians & Gynaecologists of Delhi. Delhi.

Breech Presentation- Case Discussion; Antepartum Haemorrhage in pregnancy - Case Discussion; FOCUS 2016 – All India PG Training Programme; Aug. 22 – 26 2016. Jubilee Mission Medical College, Thrissur, Kerala

Recurrent Pregnancy Loss: BOH and Antepartum Haemorrhage Long Case Discussion; Quest 2016: PG Training Programme, Oct. 18 –21, 2016. Calcutta.

Role of Conservative management in Placenta previa accreta. 23 Annual Conference of NARCHI National Association for Reproductive & Child Health of India, Delhi Branch. Oct. 22 & 23, 2016. Delhi.

Moderator of panel discussion:

Anemia during Pregnancy: Known Enemy. 60 All India Congress of Obstetrics & Gynaecology, Jan. 25-29, 2017, Ahmedabad.

Member of panel discussion: Antenatal Care (Frequently asked Questions). CME on IMA Consensus Statement on Antenatal Care (Knowledge Partner: Association of obstetricians & Gynaecologists in Delhi). Feb. 15 2017, New Delhi.

Member of panel discussion: Challenging cases of jaundice in pregnancy. CME on Liver in Pregnancy - Dilemmas for practicing obstetricians by Multidisciplinary Committee of AOGD. March 1, 2017, New Delhi.

Member of panel Discussion in Scientific Session-IV: Health Advisories in Air Pollution in International Summit on Air Pollution – Health Advisories Organised by Indian medical Association with Confederation of Medical Associations in Asia and Oceania (CMAAO) on 10 March 2017, New Delhi.

Member of panel discussion: Case scenarios in FGR. 19 Annual Gynae Update by IMA, Janak Puri under the aegis of AOGD on March 26, 2017, New Delhi.

Papers presented in 38th Annual Conference of Association of Obstetricians and Gynecology's of Delhi, Nov. 11-14, 2016:

A Setia, A Tempe, N Singh, G Kumari., A case report of carcinoma cervix presenting as predominant lesion of uterine corpus: posing diagnostic and management dilemma.

A Tempe, P Khandey, N Singh., Does intrauterine instillation of Human Chorionic Hormone (HCG) before embryo transfer (ET) improves pregnancy outcomes in intro fertilization (IVF) cycles.

Aheibem B, Sharma R, Prasad S., Comparative analysis of use of contraceptive methods by women in a tertiary care hospital.

Anoosha K Ravi, Krishna Agarwal, Ramji S, Gandhi G., Fetal growth in non- affluent population ATA tertiary care teaching hospital and its comparison with intergrowth- 21 standards: a cohort study.

Aron A, Tripathi, Tyagi S., Pelvic floor dysfunction in postpartum women: Problem statement.

Arora D, Kumar A, Gupta M, Garg S, Chandra L., Fetal and maternal outcomes in women with hepatitis E Virus infection in pregnancy.

Bhandari A, Rathore A, Sahu L., Evaluation of spot urinary protein creatinine ratio for quantification of proteinuria in women with hypertension in pregnancy: a prospective observational study.

Chhikara U, Sahu L, Rathore A. Neonatal outcome of twins according to birth order, presentation and mode of delivery.

Chhikara U, Sahu L, Rathore A., Tb vulva masquerading as ca vulva: NARCHI 2016.

Dhiman N, Gupta V and Chaturvedi J., Correlates of family planning methods among women of reproductive age group: a hospital based study.

Goswami D., presented Screening Guidelines at the Annual Zonal Conference (North Zone) with the theme Preventive Oncology of The Indian Menopause Society on 28 May, 2016 in Delhi.

Goswami D., Thyroid Gland in Pregnancy: Physiology and Complications in the CME: Endocrinological Disorders in Women. And Role of Selective Progesterone Receptors Modulators.

Gupta P, Gupta M. Maternal, foetal and placental risk factors of stillbirths: experience at a tertiary care Centre, presented in 38th Annual Conference of Association of Obstetricians and Gynecology of Delhi, Nov. 11-14, 2016.

K Bhatia, Y M Mala, Tripathi R., Validation of a scoring model for the prediction of peripartum complications in patients with placenta previa.

Kashyap P, Prasad S., A study showing knowledge, attitude and practices for use of family planning services among married women of reproductive age group in semi urban areas of Delhi..

Kaur S, Kumar A, Begum N, Prasad S, Sharma S., Regular antenatal care of women with recurrent pregnancy loss reduces adverse pregnancy outcomes

Kumar A. Safe prevention of primary caesarean: Revisiting indications for Breech. Preconference Workshop: Safe Motherhood.

Meena S, Dhiman N, Sethi C, Gupta M, Kumar A., A rare case of malignant mixed Mullerian tumour.

Meeno S, Tripathi R, Mala YM, Tyagi S, Ramji S., Role of phosphorylated insulin growth factor binding protein – 1 (phigfbp -1) in cervical secretion and transvaginal cervical length to predict preterm birth in patients with threatened preterm labor.

Nag S, Kaur S, Dhiman N, Sethi C, Madhavi M. G., Kumar A., Takayasu arteritis in pregnancy: case report.

Nandal S, Gandhi G. Management of residual caesarean scar implantation products.

Pal A, Tripathi R, Tyagi S. Maternal dyslipidemia in fetal macrosomia.

S Kashyap, Y.M. Mala, R. Tripathi. High grade endometrial stromal sarcoma (ESS).

S Khushboo. Evaluation of revised active phase of labor with obstetric outcome.

S Pathak, G Gandhi, S L Jain, K Agarwal, Colposcopic evaluation of postmenopausal women with cervical cytology showing inflammation of epithelial cell abnormalities.

Sahare A, Singh N, Mishra P, Kumar D, Tempe A. A rare case of congenital warfarin syndrome leading to neonatal demise.

Sareen B, Gupta S, Prasad S, Garg A, Tanwar R. Comparative study of transvaginal scan and digital examination in predicting successful labor.

Sharma R, Sachdeva P. Prevalence of preeclampsia and eclampsia in booked and unbooked mothers in a tertiary care Centre in India.

Singh N, Tempe A, Sethi N, Sahare A. Analysis of patient feedback regarding their experience in a tertiary care government hospital in Delhi.

Sonowal C, Prasad S, Gandhi G. Caesarean scar pregnancy – a diagnostic and therapeutic dilemma: a case report.

Sonowal S, Goswami G, Gandhi G: The effect of hormone replacement therapy on lipid profile in women with primary ovarian insufficiency.

Taneja C, Sharma P, Singh N, Tempe A, Kumar D. Case of a young girl with pelvic mass posing diagnostic dilemma.

Tempe A, Sonia, Singh N, Mishra P. Management of placenta accrete: Two case reports.

**Faculty Strength – 17**

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## **OBSTETRICS & GYNAECOLOGY (UCMS)**

### **Major Activities and Achievements**

Department of Obstetrics & Gynecology, UCMS & GTB Hospital is academically active despite heavy clinical load of running a 325 bedded department with a daily OPD attendance of 500-600 patients and delivery rate close to 20,000 per year. Despite this the department has to its credit several publications in peer reviewed indexed journals. The department is involved in National programmes, JSY, JSSK, Thalassaemia screening programme,

PPTCT, PMSMY and MAA. It regularly holds CMEs & Workshops for updating knowledge and skills of gynecologists. Faculty and residents have received awards and prizes in various national conferences for best paper and poster presentations. The prestigious R. D. Pandit award for best thesis writing in Obstetrics and Gynaecology (awarded by FOGSI) won consecutively fifteen times by this department (2016-17). For many years the Dr. Kusum Pandit Award – for best postgraduate thesis in UCMS & GTB Hospital has been awarded to postgraduate students of the department.

### **Honours / Distinctions**

Alpana Singh, won a Second prize in round table conference and Third prize for poster presentation at North Zone Yuva FOGSI, April 1-3 2016.

Vasudha Gupta, Second prize in IFFS World Congress, Sept. 21 - 25, 2016.

Kumari Anukriti, Guide - Kiran Guleria, RD Pandit FOGSI Award for best All India Postgraduate Thesis, 2016-17

Mepong Bengia, Guide - Kiran Guleria, Kusum Pandit Award, 2016-17.

Singh Khushboo, Rajaram S, Gupta Bindiya, II prize in Miscellaneous Category Paper Presentation. 23rd Annual Conference of NARCHI, Delhi Branch, Oct 22 & 23, 2016.

Bhartiya Vishnu, 2nd Prize- Poster at 23rd Annual Conference of NARCHI at Lady Hardinge Medical College, Delhi, 22 & 23 Oct., 2016

Gupta Bindiya, Rajaram Shalini, Gupta Jyotsna, Jain Sandhya, 2nd Prize, 7 National Conference, AOGIN India 2016, Patna, India, Oct., 2016,

Priyadarshini Varsha, Alpana Singh, Gold medal for Paper Presentation in 38th Annual Conference of AOGD held at New Delhi, 11 -14 Nov., 2016

Anukriti Kumari, Kiran Guleria, Silver medal for Competition Paper at 38th Annual AOGD Conference Delhi. , Nov., 11-14, 2016

Singh Khushboo, Rajaram S. Gupta Bindiya, Bronze medal for Competition Paper 38th Annual Conference of Association of Obstetricians and Gynecologists of Delhi, New Delhi, Nov. 11<sup>th</sup> – 14 2016

Gupta Jyotsna, Bindiya Gupta, Shalini Rajaram, Sandhya Jain, Gold Medal for Best Paper in Oncology at 38th Annual Conference of Association of Obstetricians & Gynecologists of Delhi., 11<sup>th</sup>-14 Nov2016,

Richa Sharma, Dr Suneeta Mittal's Gold Medal on Population Stabilization at 38th Annual Conference of AOGD Nov 12-13 2016

Richa Sharma, FOGSI – IPAS Young Talent Promotion and MTP Committee Award at 60th AICOG at Ahmedabad, 25 -29 Jan. 2017

Department of Obs. & Gynae. UCMS & GTB Hospital, SN Mukherjee Rotating Trophy 2016-17 of AOGD for best clinical meeting amongst teaching and corporate hospitals of Delhi, Nov. 2016.

Shruti Jain, Kiran Guleria, Amita Suneja, Neelam B. Vaid, Sharmila Ahuja, John J. Sciarra IJGO Prize Paper Award for Best Clinical Research Article from a Low/Middle-Income Country, 2017

### **Publications**

Amrita, Jain, S., Sharma, S., Rajaram, S., Gupta, B. (2016). Oxidized cellulose: an unusual cause of post hysterectomy hemorrhage. *Int J Reprod Contracept Obstet Gynecol*, 5(8), 2866-2868.

Bhartiya, V., Sharma, R., Kumar, A., Srivastava, H. (2016). Admission cardiotocography: A predictor of neonatal outcome. *Journal of Obstet Gynecol*, 66(S1), S321-S329.

Chawla, S., Jain, S., Sharma, S., Rajaram, S., Goel, N. (2016). Retained fetal bones: An unusual cause of abnormal uterine bleeding. *Int J Reprod. Contracept. Obstet. Gynecol.*, 5(6), 2032-2033.

Chawla, S., Jain, S., Suneja, A., Guleria, K. (2016). Degloving injury of bowel: An unheard complication of surgical abortion. *J Clinl Diagn. Res.*, 10(5), QD01-QD02



- Gupta, B., Sneha Sree, Rajaram, S., Goel, N. (2016). Genital tuberculosis: Unusual presentations *International Journal of Mycobacteriology*, doi 10.1016 / j.ijmyco.2016.06.017
- Gupta, B., Pathre, A., Rajaram, S., Goel, N. (2017). A rare collision tumor of uterus- squamous cell carcinoma and endometrial stromal sarcoma. *Journal of Clinical and Diagnostic Research*, 11(2), 20-22
- Gupta, J., Jain, S., Rajaram, S., Goel, N., Gupta, B. (2017). Facial dysmorphism: An unreported teratogenicity with levetiracetam. *J Clin Diagn Res*, 11(1), QD08-09.
- Joseph L. Mathew., Gupta, B., Chawla, D. (2016). Tenofovir for prevention of mother-to-child transmission of Hepatitis B. *Indian Paediatrics*, 53(10),907-911 (Journal club)
- Jain, S., Sharma, S., Chawla, S., Vaid, N., Kalra, N., Suneja, A., Guleria, K., Kaur, L. (2016). Periodontal disease as a risk factor for preterm delivery in Indian women. *J. Evolution Med. Dent. Sci.*, 5(88),6565-6569. DOI 10.14260/Jemds/2016/ 1484
- Jain, S., Sharma, S. (2016). Partogram –Time for new words for the new world! *Ind Obstet. Gynecol.*, 6(4), 20-24.
- Jain, S., Varshney, K., Vaid, N. B., Guleria, K., Vaid, K., Sharma, N. A. (2016). Hospital-based study of intimate partner violence during pregnancy. *Int J Gynecol Obstet*, DOI: 10.1002/ijgo.12086
- Jain, P., Rajaram, S., Gupta, B., Srivastava, H. (2016). Randomised controlled trial of thermal balloon ablation versus vaginal hysterectomy for leiomyoma induced heavy menstrual bleeding *IJGO*, doi 10.1016/j.ijgo.2016.04.020
- Jain, S., Guleria, K., Vaid, NB., Suneja, A., Ahuja, S. (2016). Predictors and outcome of obstetric admissions to intensive care unit: a comparative study. *Indian Journal of Public Health*. 60(2), doi: 10.4103/0019-557X.184575
- Meena, P., Jain, S., Lakha, V., Rajaram, S., Goel, N. (2016). Pregnancy in patients with thalassemia intermedia: A rare case report. *Obg Rev: J Obstet Gynecol*, 2(2).
- Priya, K., Rajaram, S. (2016). Is idiopathic chronic pelvic pain a treatable entity: A comment. *Reprod. Syst. Sex Disord.*, 5, 199. doi: 10.4172/2161-038X.1000199
- Pandey, G., Rajaram, S., Goel, N., Kumar, M. (2016). Comparison of laparoscopic versus vaginal salpingo-oophorectomy during vaginal hysterectomy. *Journal of Gynecologic Surgery*, 32(4), 220-225. doi:10.1089/gyn.2015.0036
- Priya, K., Rajaram, S., Goel, N. (2016). Comparison of combined hormonal vaginal ring and low dose combined oral hormonal pill for the treatment of chronic pelvic pain: a randomised trial. *Eur. J Obstet. Gynecol. Reprod Biol.*, 207, 141-46.
- Rajaram, S., Gupta, P., Gupta, B., Goel, N. (2016). Laparoscopy in the diagnosis of tuberculosis in chronic pelvic pain. *International Journal of Mycobacteriology* doi: 10.1016/j.ijmyco.2016.06.016
- Singla, A., Shree, S., Mehta, S. (2016). Pregnancy with pemphigoid gestationis: A rare entity. *J Clin. Diagn. Res.*, 10(7),QD06–QD07.
- Singla, A., Huang, K.G. (2016). Laparoscopic excision of bladder peritoneal endometriosis. *Gynecol. Min. Invasive*. <http://dx.doi.org/10.1016/j.gmit.2016.06.005>.
- Singla, A., Mundhra, R., Phogat, L., Mehta, S., Rajaram, S. (2016). Emergency peripartum hysterectomy: indications and outcome in a tertiary care setting. *J Clin. Diagn. Res.*, doi: 10.7860/JCDR/2016/19665.0000
- Sharma, R., Radhakrishnan, G., Radhika, A.G., Singla, A. (2016). Paraneoplastic Cerebellar degeneration-A rare presentation of ovarian malignancy. *J Obstet Gynaecol India*, 66(2), 686-689.
- Sharma, R., Guleria, K., Suneja, A., Bhartiya, V. (2016). Post-Caesarean drain placement - minor procedure leading to major complication. *J Clinl Diagno Res.*, 1, QD03-QD04.
- Sharma, R., Radhakrishnan, G., Mehdiratta, A., Gupta, R. (2017). Awareness, attitude and acceptability for abortion law among MTP seekers at a tertiary centre of East Delhi. Accepted in *Journal of South Asian Federation of Obstetrics and Gynaecology*.
- Singh, A., Shree, S., Mishra, V., Radhakrishnan, G. (2016). Müllerian duct cyst misdiagnosed as ovarian cyst: a rare case report. *Int J Reprod Contracept. Obstet. Gynecol.*, 5(4), 1260-1262.

- Singh, A., Singh, S., Radhakrishnan, G., Radhika, A. G., Sharma, R. (2016). An unusual presentation of dengue in postoperative case: A challenge in management. *Tropical Doctor*, 46(2), 115-117.
- Singh, A., Jahan, N., Radhakrishnan, G., Banerjee, B. D. (2016). To evaluate the efficacy of combination antioxidant therapy on oxidative stress parameters in seminal plasma in the male infertility. *Journal of Clinical and Diagnostic Research*, 10(7), QC14-QC17.
- Singh, A., Vats, G., Radhika, A.G., Meena, P., Radhakrishnan, G. (2016). Cervical xanthogranuloma in a case of postmenopausal pyometra: A rare case report. *Obstet Gynecol Sci*, 59(5), 411-414.
- Singh, A., Meena, P., Radhakrishnan, G., Rutela, M. (2016). A knowledge, attitude and practice study on awareness and acceptance of contraception in postpartum women in a tertiary care hospital. *Int. J Reprod. Contracept. Obstet. Gynecol.*, 5, 1921-4.
- Singh, A., Chawla, S., Pandey, D., Jahan, N., Anwar, A. (2016). Fetomaternal outcome in cases of pre-eclampsia in a tertiary care referral hospital in Delhi, India: A retrospective analysis. *Int J Sci. Stud.*, 4(2), 100-103.
- Srivastava, H., et.al. (2016). Ruptured Renal Artery Aneurysm: A rare cause of shock in pregnancy. *Int. J Curr. Res.*, 8(7), 35266-35268,
- Singh, A., Guleria, K., Vaid B., Neelam, Jain, S., (2016). Evaluation of maternal early obstetric warning system (MEOWS chart) as a predictor of obstetric morbidity: a prospective observational study. *European Journal of Obstetrics, Gynecology, and Reproductive Biology*.
- Tyagi, N., Suneja, A., Mishra, K., Jain, S., Vaid, N. B., Guleria, K. (2017). Comparison of keyes punch biopsy instrument with cervical punch biopsy forceps for diagnosing cervical lesions. *Gynecol. Obstet. Invest.*, 82(2), 157-162.
- Tanveer, N., Gupta, B., Pathre, A., Rajaram, S., Goel, N. (2017). A rare collision tumour of uterus- squamous cell carcinoma and endometrial stromal sarcoma. *Journal of Clinical and Diagnostic Research*, 11(2), ED20-ED22.
- Yadav, P., Singla, A., Sidana, A., Suneja, A., Vaid, N. B.(2017). Evaluation of sonographic endometrial patterns and endometrial thickness as predictors of ectopic pregnancy. *Int. J Gynaecol. Obstet.*, 11, 136(1), 70-75.
- Goel, N., Srivastava, H., Gupta, B. (Eds.) (2016). *Contraception*. New Delhi: CBS Publishers.
- Jain, S., Guleria, K., Suneja, A., Vaid, N.B., Ahuja, S. (2016). *International Journal of Gynecology and Obstetrics* 132, 332-336.

### Research projects

- Dr. Amita Suneja, Dr Kiran Guleria (Co-investigator) project funded by Medicem International,, *International Observational E-Registry on the use of Dilapans/Dilasoft osmotic dilators for cervical ripening prior to induction of labor*. Rs. 2.5 Lakhs
- Dr. A. G. Radhika, Project funded by WHO-GOI,, *Ferrous Sucrose in Pregnant Anemic Women in India (FeSPA)* – An open label randomised controlled trial. Nov. 2015-Nov., 2017, Rs.1.6 Lakhs.
- Dr. Bindiya Gupta Co-investigator, funded by DBT (Department of Biotechnology), Project, *Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study*. with Dr. Rajarshi Kar, Department of Biochemistry. 2016-18. Grant Rs. 23.57 Lakhs.

### Seminars Organised

- Clinico Pathologic Meeting Organised on Oct. 26, 2016.
- Guest Faculty, Dr. Nutan Aggarwal, AIIMS, Delhi.

### Conferences Organised

- Advanced Gynae Oncology video workshop by the Department of Obstetrics and Gynaecology at Hotel Ashok, Delhi under aegis of AOGD. Nov. 11, 2016

CME on maternal resuscitation at GTB Hospital, Sept. 10, 2016.

CME on Non scalpel vasectomy under the aegis of DFW, Nov. 28, 2016.

CME cum Workshop on IUI by the Department of Obstetrics and Gynaecology under aegis of IFS, March 26, 2017.

### **Seminar / Conference Presentations**

S. Rajaram, AOGIN Singapore, Guest Lectures: BioMarkers in Cervical Cancer Screening: India Forum at AOGIN India: Prevention of Cervical Cancer: Delhi, India, Aug. 12 -14, 2016.

S. Rajaram, Moderator, Panel Discussion Uterine Sarcoma, Annual Conference of the Indian Society of Medical and Paediatric Oncology, Delhi, Nov. 5, 2016.

A. Singh, Presented a paper in International Federation of Fertility Societies (IFFS) at Delhi, NCR on Comparison of metformine and N-acetylcysteine on metabolic parameters in women with polycystic ovarian syndrome, Sept. 15 -21, 2016.

H. Srivastava, Paper presentation on Association of Single nucleotide polymorphism in Adiponectin gene in Gestational Diabetes and pregnancy outcomes at 38 Annual Conference of AOGD at New Delhi., Nov. 12<sup>th</sup>- 13<sup>th</sup>, 2016.

Suneja Amita, Panelist for Panel Discussion on Challenges in Ovarian Cancer Management during CME on Preventive Gynae Oncology & Beyond Sant Parmanand Hospital, Delhi, September10 to 11<sup>th</sup> 2016.

Suneja Amita, Guest lecture on HPV Vaccine Update during world congress NARCHICON 2016 at Jaipur, Sept. 23 - 25 2016.

Suneja Amita, Guest lecture on Management of CIN – VIDEOS during Riding waves in menopause and oncology held at PGIMER, at Chandigarh, Oct. 15 -16, 2016.

Suneja Amita, Moderator for Panel Mullerian Tract Anomalies - Case based discussion during 23 Annual conference of NARCHI at LHMC, Delhi, Oct. 22 – 23 2016.

Suneja Amita, Panelist in Panel on Risk reducing strategies in endometrial and ovarian cancer", during 38 Annual Conference of AOGD at Ashoka Hotel New Delhi., Nov. 12<sup>th</sup> 2016

Suneja Amita, Guest Lecture on Management of CIN during Meeting of northern chapter of obstetrics & gynaecological society of northern india on current trends in obstetrics & gynaecology at DUMRA DMCH Ludhiana., Nov., 20 2016.

Suneja Amita, Guest lecture on Diagnosis and Management of Ectopic pregnancy for fellows of IFS fellowship held at KJIVF & Delhi, Nov. 22 2016.

Suneja Amita, Guest Lecture on Management of CIN during Max Medicon – Current concepts in Obst & Gynae at Delhi, Jan. 22, 2017.

Rajaram Shalini, International, AOGIN Singapore, Guest Lectures: Biomarkers in Cervical Cancer Screening India Forum at AOGIN India: Prevention of Cervical Cancer: Delhi, India, August12 -14, 2016.

Rajaram Shalini, Moderator, Panel Discussion on Oncofertility: Need of the hour, International Gynecologic Cancer Congress 2017, Bridging Innovations and Practices in Gynecologic Oncology, Dharamshila cancer Hospital, Feb. 18 & 19, 2017.

Rajaram Shalini, 11<sup>th</sup> Annual Conference of Indian Society of Colposcopy & Cervical Pathology (ISCCP), Delhi, March, 4 & 5, 2017.

Rajaram Shalini, 7<sup>th</sup> National Conference AOGIN India 2016, Patna, October14 – 16, 2016.

Rajaram Shalini, Moderator for Panel Discussion, ‘Hormone therapy after Gynecologic Cancers & Hormones for Gynecologic Cancers’ AGOICON 2016, Gurgaon, India. , Dec. 2 - 4, 2016.

Rajaram Shalini, Moderator, Panel Discussion, ‘Challenges in Ovarian Cancer Management’ Preventive Gynae Oncology & Beyond, Sant Parmanand Hospital, Civil Lines, Delhi under aegis of ISCCP & Oncology Committee of AOGD, September10 and 11, 2016.

Rajaram Shalini, Guest Lecture, Controversies in the Management of Carcinoma Cervix Stage 1B2, FOGSI Gyn Oncology Conference, Goa, India, July 29 – 31, 2016.

Rajaram Shalini, Guest Lecture: Fertility sparing surgery when tackling 'large' pelvic tumors, Fertiprotect 2016, Annual Conference of the Fertility Preservation Society of India, Bengaluru, India, Aug. 27 & 28, 2016.

Rajaram Shalini, Guest lecture: Endometrial Carcinoma: Risk factors and Prevention, Annual Zonal Conference of Indian Menopause Society, Delhi, May 28 & 29 2016.

Rajaram Shalini, Moderator, Panel Discussion Uterine Sarcoma, Annual Conference of the Indian Society of Medical and Paediatric Oncology, Delhi, Nov. 5 2016.

Rajaram Shalini, Moderator, Live Endoscopy Workshop, ENDOFERT-2016, Endoscopy & Infertility- Basic & Advanced, Gynae Endocrine Society of India (GESI) in, JNL Auditorium, AIIMS, Delhi, Aug. 5 2016.

Rajaram Shalini, Panelist, Panel Discussion, 'Gynae Endoscopy: Where is the limit?' ENDOFERT-2016, Endoscopy & Infertility- Basic & Advanced, Gynae Endocrine Society of India (GESI) in, JNL Auditorium, AIIMS, Delhi, Aug. 5 2016.

Rajaram Shalini, Guest Lecture, Breast cancer risk with use of hormonal contraception and contraception in breast cancer survivors, CME on Hormonal Contraception Update- Lesser Known Facts", Max Hospital, Delhi, Nov. 22 2016.

Rajaram Shalini, Guest lecture, Increasing Accessibility to Treatment in India, High Level Convening - Cervical Cancer Prevention and Control in India and Beyond: A Comprehensive Approach towards Elimination', Global Health Strategies Meeting, Delhi, Oct. 16-18 2016.

Rajaram Shalini, Panelist for Panel Discussion: Implementation of sustainable cervical cancer screening program, Tata Memorial Hospital, Evidence Based Medicine, Mumbai, Feb., 24 2017.

Rajaram Shalini, Expert, The Core Committee meeting for Cervical Cancer Screening and Vaccination, 24 Feb. 2017, Tata Memorial Hospital, Evidence Based Medicine 2017, Mumbai, Feb. 24 2017.

Guleria Kiran, Health and Hygiene issues of Female Cops at Assocham Women Foundation & Delhi Police Special Workshop For Women Police Personnel, SMARCHT Policing Training Academy, Mother Teresa Crescent Road, New Delhi., May 10, 2016.

Guleria Kiran, OS Tightening- Newer Modalities at NARCHICON-2016, 13<sup>th</sup> World Congress & 21 Indian Conference of NARCHI, at Jaipur, Sept. 24, 2016.

Guleria Kiran, Panelist- Averting complications in Pre-eclampsia at 23 Annual Conference of NARCHI, Delhi branch. LHMC, Delhi, Oct. 22 -23, 2016.

Guleria Kiran, Difficult delivery of fetal head at AOGD Postgraduate at Hotel Vikram, New Delhi, Aug. 14 2016.

Guleria Kiran, Post Hysterectomy VVF repair: Simple solution to a dreaded complication at CME cum Workshop on fetal medicine, Obstet & Gyne Society of Northern India, IGMC, Shimla, Aug. 20-21 2016.

Guleria Kiran, Workshop on PPH-Balloon Tamponed (Convener) at RCOG AOGD workshop at MAMC, Delhi, Sept. 10 2016.

Guleria Kiran, OS Tightening - Newer Modalities at NARCHICON-2016, 13<sup>th</sup> World Congress & 21 Indian Conference of NARCHI, at Jaipur, Sept. 24, 2016.

Guleria Kiran, Contraception Panel & AUB- case discussion Expert in 19 postgraduate Practical course & CME. MAMC, New Delhi, Oct. 14-16, 2016.

Guleria Kiran, Panelist- Antepartum fetal surveillance in high risk pregnancies.at Pre-Congress NARCHI workshop on Fetal Medicine, SGRH Delhi., Oct. 21 2016.

Guleria Kiran, Panelist- Averting complications in Pre-eclampsia at 23 Annual Conference of NARCHI, Delhi branch. LHMC, Delhi, Oct., 22-23 2016.

Guleria Kiran, Panelist- Time for inverting the pyramid of antenatal care at 38 Annual Conference of AOGD, Hotel. The Ashok, New Delhi., Nov., 12<sup>th</sup> 2016.

Guleria Kiran, Management of TORCH infections in Pregnancy- at North Zone FOGSI CME, DMC Ludhiana, Nov. 20 2016.

Guleria Kiran, Adherent Placenta: an obstetrician's nightmare- at ICOG- CME- 2016 by GOGS Ghaziabad., Dec. 18 2016.

Guleria Kiran, Panelist- Case Scenario's in FGR at 2 MAMC-MFM Workshop on Fetal Growth Restriction, Delhi, Feb. 8 2017.

Guleria Kiran, Vaginoplasty & VVF repair at Annual conference of North Zone FOGSI at PGIMER, Chandigarh, March 26 2017.

Guleria Kiran, Relevance of hepatitis serology testing in pregnancy- at CME The Liver and Pregnancy: Dilemmas for practicing obstetricians by AOGD.

Guleria Kiran, Multidisciplinary Committee & VMMC & SJH, Delhi, March 1 2017.

Jain Sandhya, Symptom Index for detection of ovarian malignancy in Indian Women- A hospital based observational study at All India conference of Obstetricians and Gynecologists (AICOG) conference at Ahmedabad, Jan. 28 2017.

Jain Sandhya, Oxidized cellulose: an unusual cause of post hysterectomy hemorrhage. Poster Presentation at AICOG conference at Ahmedabad, Jan. 28 2017.

Jain Sandhya, Rare giant vulvu tumours: a case series. Poster presentation in Association of Obstetrician and Gynecologists Delhi (AOGD) at Hotel Ashok, Delhi, Nov. 12<sup>th</sup> 2016.

Jain Sandhya, Symptom Index for detection of ovarian malignancy in Indian Women- A hospital based observational study. 13<sup>th</sup> Indian Conference of Narchi World Congress, Jaipur, Sept. 23-25 2016.

Jain Sandhya, Poster presentation at European Society of Contraception and Reproductive Health (ESHRE), Basel, Switzerland A randomised controlled trial comparing the efficacy, acceptability and side-effect profile of intravaginal contraceptive ring (Nuvaring®) with oral combined estrogen and progesterone preparation in dysfunctional uterine bleeding", May 4-7 2016.

Jain Sandhya, Panelist in workshop on Critical care in Obstetrics at MAMC, Delhi, Sept. 2016.

Srivastava Himsweta, Paper presentation on Association of Single nucleotide polymorphism in Adiponectin gene in Gestational Diabetes and pregnancy outcomes at 38 Annual Conference of AOGD at New Delhi., Nov. 12 & 13, 2016; and Panelist at Pre-congress Workshop at North Zone Yuva Fogsis 2016 held at Ghaziabad, April 1, 2016.

Bindiya Gupta, Guest Lecture on HPV as a precursor of cervical cancer NARCHICON 2016 13th World Congress of National Association of Reproductive and Child Health of India, Jaipur, September 23 2017

Bindiya Gupta, Moderator of Panel discussion: Case Interaction by experts and participants on Colposcopy. NARCHICON 2016 the 13<sup>th</sup> World Congress and 21 Indian Conference of National Association of Reproductive and Child Health of India Jaipur, 2016,

Bindiya Gupta, Moderator: Round Table Making of Management check list at North Zone Yuva FOGSI Conference.

Bindiya Gupta, Guest lecture, Cancer in women-Indian Scenario CME on Preventive Gynaecology & Beyond held at Sant Parmanand Hospital, under aegis of ISCCP & Oncology Committee of AOGD, Sept. 10 -11th 2016.

Bindiya Gupta, Panelist in Panel discussion Atypical Case Situations (The Fear Some & Foursome for 4 T's) At North Zone Yuva FOGSI conference, April 1-3 2016.

Bindiya Gupta, Guest lecture on Fetal growth restriction: placental abnormalities in FOGSI National conference on save motherhood SAVMA conference, Allahabad, U. P., April 1-3 2016.

Bindiya Gupta, Moderator of panel on Genital warts and Vulvar disease for the practicing gynaecologist: case based discussion at 7 National Conference of AOGIN, India), at Patna, Oct. 25 2016.

Bindiya Gupta, Lecture on Cervical cancer – burden, risk factors and symptoms in Community Screening Workshop at AOGIN Patna, Oct. 2016.

Bindiya Gupta, Lecture on Developing a community awareness plan at Community Screening Workshop AOGIN, Patna.

Bindiya Gupta, Video Demonstration (Cervical sample collection techniques – PAP / HPV; VIA), Role: Video Presenter, Community Screening Workshop AOGIN, Patna, Oct. 2016.

Bindiya Gupta, Co-moderator, panel discussion on Hormones and gynaecological cancers: HRT after gynaecological cancers/Hormonal therapy for gynaecological cancers at AGOICON in Dec., 2016.

Bindiya Gupta, Faculty at Annual conference of ISCCP, lecture on Colposcopy: What's new? 2016.

Bindiya Gupta, Chairperson in video session ENDOFERT-2016, organized by Gynae Endocrine Society of India (GESI) in association with Endometriosis, Endoscopy and Uro-gynaecology Committees of FOGSI, 7 Aug., 2016.

Bindiya Gupta, Sathija P K, Shalini Rajaram, Vinod K Arora. Annual Conference of AOGIN, Aug. 13-14, 2016. Singapore. Poster presentation Role of biomarkers p16ink4a/ki-67 in cervical cytology smears for diagnosis of cervical precancerous lesions

Rajaram S, Gupta B, Reddy A, Goel N, et al. Clinicopathological correlates and need for adjuvant radiotherapy in early stage carcinoma cervix. AOGIN 2016 Main Congress, Singapore, Aug. 13-14, 2016.

Co-author in Poster on Vulvovaginal Manifestations of Lichen Planus: A Rare Case Report and Review of Literature at AOGIN 2016, Patna, Bihar

Bindiya Gupta, Rajashri Kar, Neelam Wadhwa, Shalini Rajaram. Paper presented at Young Gyne Oncology session in Nov., 2016, North Zone Conference of AGOI in Lucknow Establishment of Primary Culture of Epithelial Ovarian Cancer and Determination of IC 50 Doses of Carboplatin and Paclitaxel. Paper was the selected for YGOG presentation in Annual Conference in Gurgaon.

Astha Srivastava, Bindiya Gupta, Shalini Rajaram, Neerja Goel, poster, Life threatening haemorrhage in second trimester: two unusual cases. at AOGD conference Nov. 11-13, 2016.

Sonia Chawla, Sandhya Jain, Bindiya Gupta, Shuchi Lakhanpal, Anshuja Singla, Shalini Rajaram, Neerja Goel. Rare Giant Vulval Tumors: A case series, at AOGD Conference Nov. 11-13, 2016.

Rashmi, paper presentation on Case report: giant uterine neoplasm in adolescent – a rare presentation at 38 Annual Conference of AOGD at New Delhi, Nov. 12 & 13, 2016; and panelist for panel discussion on Mullerian tract anomalies: Case based discussion at 23 Annual Conference of NARCHI, Delhi branch, at LHMC, New Delhi, Oct. 22 at 23, 2016.

Shruti Jain, Kiran Guleria, Amita Suneja, Neelam B. Vaid, Sharmila Ahuja. Use of the Sequential Organ Failure Assessment score for evaluating outcome among obstetric patients admitted to the Intensive Care Unit, 2017.

### **Extension and Outreach Activities**

Cervical Cancer Screening Camp in East Delhi.

Faculty delivers Radio talk on AIR.

### **Faculty Strength – 17**

### **Other Significant Information**

Department is academically very active despite heavy clinical load and has many publications in renowned journals. Department is actively involved in National programmes & keeps holding CMEs & Workshops for updating knowledge & skill enhancement. Faculty of the Department is invited as experts in various academic bodies namely MCI, UPSC, DMC, NBE, FOGSI, AOGD, AOGIN and the Department has run the office of various associations namely AOGIN India, NARCHI & AOGD. The faculty has held prime positions in these associations and discharged their duties with great responsibility. The faculty is also invited nationally to deliver lectures and share their expertise in various academic conferences of repute. UCMS is the first choice of the Postgraduates during the counseling.

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## **ORTHOPAEDICS (MAMC)**

### **Major Activities and Achievements**

The department of Orthopaedics, Maulana Azad Medical College has continued to maintain a high standard of medical education in the field of Orthopaedics for both undergraduate and post graduate students. The department has continued to publish numerous articles of a high academic standard and these have been published in peer

review international journals of repute and have contributed to chapters in books of repute. The faculty members have delivered guest lectures and presented papers in international and national conferences and have been invited as guest faculty and expert in various courses and forums across the country.

The department continued to successfully conduct the popular Post Graduate instructional course in Orthopaedics which attracted more than 300 Post Graduate students across the country. Most of the faculty members have been invited as examiners at various universities and involved with the Medical Council of India and DNB and contributed towards medical examination.

## Publications

Thora, A., Bhatnagar, N., Tiwari, A., Lingaiah, P., Rustagi, N. (2017). Use of henna as a durable pre-operative skin marker for accurate localization of vertebral level in spine surgery. *Int J Res Orthop.*,3(3)

Thora, A., Bhatnagar, N., Tiwari, A., Lingaiah, P., Rustagi, N. (2017). Non-operative management of spontaneous epidural hematoma in hemophilia. *Int. J Res. Ortho.*, 3(2)

Tiwari, A., Bhatnagar, N., Karkhur, Y., Aslam, A., Sharma, A. (2017). Tuberculosis of calcaneum. A case series and review of literature. *Int J Res. Orthop.*, 3(4), 761-765

Mukherjee, A., Sharma, A., Garg, V., Maini, L., Bajaj, P. (2017). Role of posterior tibial slope in ACL deficient Indian population. *Journal of Arthroscopy and Joint Surgery*. Online

Main, L., Kumar, S., Batra, S., Gupta, R., Arora, S. (2016). Evaluation of the muscle morphology of the obturator externus and piriformis as the predictors of avascular necrosis of the femoral head in acetabular fractures. *Strategies Trauma Limb Reconstr.*, (2), 105-11.

Maini, L., Sharma, A., Jha, S., Sharma, A., Tiwari, A. (2016) Three-dimensional printing and patient-specific pre-contoured plate: future of acetabulum fracture fixation? *Eur J Trauma Emerg Surg*.

Bhatnagar, N., Lingaiah, P., Tiwari, A., Mahajan, N., Arora, S., Dhal, A. (2016). Primary leiomyosarcoma of femur. *Journal of Clinical Orthopaedics and Traumatology*, 7(s), 125-127.

Bhatnagar, N., Lingaiah, P., Arora, S., Dhal, A. (2016). Plantar fibromatosis masquerading as liposarcoma : a case report and review of literature. *Journal of Bone and Soft Tissue Tumor*, 2(2), 25-29.

Bhatnagar, N., Lingaiah, P., Lodhi, J., Karkhur, Y. (2017). Pathological fracture of femoral neck leading to a diagnosis of Wilson's disease: a case report and review of literature. *Journal of Bone Metabolism*, 24(2): 135-139.

Gautam V.K, Saini, R., Sharma, S. (2017). Effectiveness of leucocyte esterase as a diagnostic test for acute septic arthritis. *Journal of Orthopaedic Surgery*, 25(1), 1-6.

Yugal Karkhur, Anurag Tiwari, Nishit Bhatnagar. (2017). Monteggia fracture dislocation with ipsilateral distal radius-ulna fracture in a child. *Journal of Orthopaedic Trauma and Surgery*, 12(2), 16-22

Sharma, A., Tiwari, A., Verma, T., Maini, L. (2016). Non-union fracture neck femur in a toddler: Reconstructed by valgus osteotomy - A minimally invasive approach. *J Clin Orthop Trauma*, (Suppl 1):8-11.

Verma, T., Sharma, A., Sharma, A., Maini, L. (2016). Customized iliac prosthesis for reconstruction in giant cell tumour: A unique treatment approach. *J Clin Orthop Trauma*, (Suppl 1)

Karkhur Y, Tiwari, A., Verma, T., Maini, L. (2017). Unusual presentation of chondroblastoma mimicking Trevor's disease. *J Postgrad. Med.*, PMID: 28272066

Sural, S. Review of *Orthopaedics and fractures Standard treatment Guidelines*. (Edn. 4). Special Edition for the State of Odisha: Wolters Kluwer.

## Research Projects

Dr. Anil Dhal, project, *Anatomical variation of 1, 2 ICSRA based vascularized bone graft in Indian population- a cadaveric study*.

Dr. Ajay Gupta, project, *Intra thecal pressure variation following cerebrospinal fluid drainage and surgical decompression in patients of acute spinal cord injury of dorsal spine fractures: A prospective randomized trial*.

Dr. V K Gautam, project, *Comparative evaluation of peri-articular infiltration of two cocktail regimens for analgesia in post-operative patients of total knee replacement.*

Dr. Manoj Kumar, project, *Evaluation of extracorporeally irradiated / inactivated autograft prosthesis composite in locally aggressive bone tumors - a pilot study.*

Dr. Vinod Kumar, project, *The effect of remnant preservation on clinic-radiological outcomes in arthroscopic ACL reconstruction using hamstring autograft- a prospective comparative study.*

Dr. Sumit Sural, project, *Randomized controlled study comparing the outcome of decompression with or without instrumentation in thoracic spinal tuberculosis.*

Dr. Lalit Maini, project, *Evaluation of patient specific acetabular jig for cup placement in total hip arthroplasty.*

*Comparative study of anterior and posterior approaches for bipolar cemented hemi-arthroplasty in fracture neck of femur, ongoing Study, 2016-18*

*Z corrective osteotomy in malunited extra-articular fractures of distal radius, Ongoing Study 2016-18*

*Evaluation of accuracy of computer assisted designing of plate on contra-lateral hemi-pelvis for acetabular fracture fixation, ongoing study, 2016-18*

*A prospective study to evaluate the endoscopic calcaneoplasty using 3 port techniques as surgical treatment for Haglund's disease, ongoing study, 2016-18*

*Comparative study of hemiarthroplasty versus DHS in unstable fracture intertrochanteric femur, ongoing study, 2016-18*

*Functional evaluation of early neurolysis in peripheral neuropathy in Hansen's disease, ongoing study, 2016-18.*

*Evaluation of open wedge high tibial osteotomy with distal tuberosity osteotomy in medial compartment varus osteoarthritis of knee, ongoing study, 2016-18.*

### **Conferences Organised**

XVII Post Graduate Instructional Course in Orthopaedics, 1 to 4 Feb., 2017 with Dr.V. K. Gautam as the Course Director and Dr. Sumit Sural as Organizing Secretary.

### **Seminar / Conference Presentation**

Sumit Sural:

Guest Lecture on Clinical, radiological and laboratory diagnosis of spinal tuberculosis. At the Quarterly meeting of the Delhi Orthopaedic Association at Sir Ganga Ram Hospital, New Delhi on Feb. 18, 2017.

2nd CME Workshop on 'Improving Availability and Rational Use of Medicines in Public Health Facilities in Delhi' on March 7-10, 2017 at MAMC, New Delhi.

Zonal Task Force Workshop (North Zone) for involvement of Medical colleges for Comprehensive Tuberculosis Control through RNTCP on Feb. 25-26, 2017 at Shimla.

### **Inter-Institutional Collaboration:**

Post graduate Diploma course in Geriatric Medicine: Dr.Anil Dhal, Dr.V.K.Gautam, Dr. Sumit Sural (Principal & Co Investigators), IGNOU (Sponsoring Organization).

Collaborating a research to develop patient specific pre-contoured plates for fixation of fracture acetabulum. Dr.Sunil Jha (Principal Investigator), Department of Mechanical IIT Delhi, sponsored by Department of Mechanical IIT Delhi.

**Faculty strength – 15**

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## ORTHOPAEDICS (UCMS)

### Honours / Distinctions

Dr. Jain AK, Awarded Late Col. Sangham Singh Memorial oration National Academy of Medical Sciences for Outstanding contributions in Orthopaedics-2017, Mar 25, 2017.

Dr. Jain A.K, Late TP Shrivastava Varanasi oration UPORTHOCON, 2017, Gorakhpur.

Dr. Rehan Ul Haq, Commonwealth Academic Fellowship tenable in United Kingdom, Nov, 2016 to May, 2017.

### Publication

Jain, A.K. (2016), Current state of orthopaedic education in India. *Indian J Orthop.*, 50 (4) 341-4.

Ul Haq, R., Kumar, J., Dhammi, I., Jain, A.K. (2016). Posterior dislocation of hip with ipsilateral intertrochanteric fracture: A report of two cases. *Indian Journal of Orthopaedics.* 50(5), 571-576. Impact Factor 0.64

Srivastava, A., Jain, A.K., Dhammi, I.K., Haq, R.U. (2016). Posttraumatic progressive cubitus varus deformity managed by lateral column shortening: A Novemberel surgical technique. *Chin J Traumatol.* 19(4), 229-30.

Jain, N., Saini, N. S., Kumar, S., Rajagopalan, M., Chakraborti, K.L., Jain, A.K. (2016). Correlation of diffusion tensor imaging parameters with neural status in Pott's spine. *SICOT J.* doi: 10.1051/sicotj/2016014 Impact Factor 2.110.

Jain, A.K. (2016). Tuberculosis of spine: Research evidence to treatment guidelines. *Ind. J Orthop.*, 50(1), 3-9.

Srivastava, A., Aggarwal, A.N., Mishra, P., Bhateja, D. (2016). Femoral fracture acting as an ominous masquerade in a 7-year-old child. *J Clin. Orthop. Trauma*, 7(Suppl 1), 27-29.

Pathrot, D., Ul Haq, R., Aggarwal, A.N., Nagar, M., Bhatt, S. (2016), Assessment of the geometry of proximal femur for short cephalomedullary nail placement: An observational study in dry femora and living subjects. *Indian J Orthop.* 50(3), 269-76

Jain, A. K. *Tuberculosis of Bone, Joint and Spine.* New Delhi: CBS Publishers.

### Seminar / Conferences Presentation

Chadha M, Annual Conference of the Delhi Orthopaedic Association (DOACON 2016) New Delhi, Nov. 27, 2016.

Chadha M, Annual Conference of the Association of Spine Surgeons of India, (ASSICON-2017)) Hyderabad, Jan. 26 -29, 2017.

Jain A K, Agra Spine Symposium, Agra, April 30, 2016.

Jain A K, J & K Medical Science Congress 2016, May 21, 2016.

Jain A K, MPIOACON, 2016 Jabalpur, Oct. 15-16, 2016.

Jain A K, Indian Orthopaedics Association (IOACON) at Kochi-2016., Dec. 13-17, 2016.

Jain A K, Annual Conference of the Association of Spine Surgeons of India, (ASSICON-2017) Hyderabad, Jan. 26-29, 2017.

Jain A K, Annual Conference of the Delhi Orthopaedic Association (DOACON 2016) New Delhi, Nov. 26, 2016.

Jain A K, Annual Conference of West Bengal Orthopaedic Association WBOACON 2017, Feb. 11, 2017.

Jain A K, PG Course, Indore KEM Hospital Mumbai, Feb. 24 -26, 2017.

### Other Significant Information

Dr. A K Jain contributed to the National Programme for Developed Bone and Joint Tuberculosis guidelines as Team Leader, Ministry of Health and Family Welfare.

Faculty – 9

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## OPHTHALMOLOGY (LHMC)

### Major Activities and Achievements

The Department started as a combined single department with ENT department. It became a separate department in 1972. At present, there are five faculty members and five Senior Residents. In addition, four postgraduate students pursuing MS in Ophthalmology are admitted every year. The department imparts training to undergraduates pursuing MBBS course and to B.Sc. Nursing Students. Interns undergo a compulsory 15 days practical training in Ophthalmology. It also provides Comprehensive Ophthalmic Services and also specialized services in various fields, i.e. phacoemulsification, glaucoma, Oculoplasty, squint, retina, paediatric ophthalmology including ROP Screening & Management. The faculty members and residents of the department have been attending various national and international conferences from time to time and presenting free papers and posters. They have also won awards at these national and international conferences.

### Publication

Chaudhuri, Z., Demer, J. L. (2016). Graded vertical rectus tenotomy for small-angle cyclovertical strabismus in sagging eye syndrome. *Br J Ophthalmol.*, 100(5), 648-51(IF:2.9)

Chaudhuri, Z., Puncholothu, A.K., Sharma, A., Demer, J.L. (2016). Orbital morphology in isolated craniosynostosis and its implications in management. In, Lee JC (Ed.), *Craniosynostosis and Rare Craniofacial Clefts: Diagnosis, Treatment and Outcome*. New York: November Science Publishers.

Gupta, V., Gupta, S. & Chaudhuri, Z. (2016). Diplopia in high myopia. *Expert review of Ophthalmology*, 11(3), 191-200

Madan, S., Chaudhuri, Z. (2016). Shifting paradigms in the etio-pathogenesis of congenital cranial dysinnervation syndrome. *JSM Ophthalmology*, 4(1), 1042-49 32.

Nagpal, M., Chaudhuri, Z. (2016). Ocular anomalies in static encephalopathy: A review. *Current Indian Eye Research*, 3, 13-20

### Research Projects

Dr. Rajiv Garg, Dr. Sarita Beri, Dr. Sumaiya, project, *Evaluation of amniotic membrane with low dose mitomycin C in pterygium surgery.*

Dr. Zia Chaudhuri, Dr. Rajesh Jain, Dr. S. Aneja, Dr. Rajinder K Dhamija, project, *Functional visual parameters in acquired cerebral visual impairment in children & adults."*

Dr. Rajesh Jain, Dr. Sarita Beri, Dr. Anju Sethi, project, *Ocular Profile of children with congenital hypothyroidism.*

Dr. Om Prakash, Dr. A. Chakravarti, project, *Role of routine nasal examination before and after lacrimal sac massage in patient with congenital dacryo cystitis.*

Dr. Zia Chaudhuri, Dr. Om Prakash, Dr. Suvasini Sharma, project, *Colour vision in a cohort of children with duchenne muscular dystrophy.*

Dr. Rajiv Garg, Dr. Sarita Beri, Dr. Anju Jain, project, *Clinicobiochemical profile of tear fluid in patients of priMarchy open angle glaucoma.*

Dr. Sarita Beri, Dr. Sushma Nangia, Dr. Sunita Sharma, project, *Role of fetal hemoglobin and other risk factors in the development of ROP.*

Dr. Rajesh Jain, Dr. Sarita Beri, Dr. Anju Sethi, project, *Ocular profile in children with type 1 diabetes mellitus of more than 5 years duration.*

### Confrences Organised

Eye Donation Workshop held at LHMC for MBBS students, Aug. 26, 2016.

One day Orientation Programme on eye donation held at LHMC with help of MOHFW, Sept. 2, 2016.

### **Seminar / Conference Presentations**

R. Garg., Chaired a session on Glaucoma and General Ophthalmology at AIIMS – RPC Golden Jubilee Ophthalmology Congress, March 10 -12, 2017.

S. Beri., Chaired a Session on Glaucoma and general Ophthalmology at AIIMS –RPC Golden Jubilee Ophthalmology Congress March 10 -12, 2017.

Shweta C., Garg R. & Beri S., Sonographic assessment of optic disc cupping and its diagnostic performance in glaucoma. AIOC, 2017.

O. Prakash, Free paper presentation in AIOS 2017 Jaipur: Effect of steep meridian incision in patient with 1 D Astigmatism after phacoemulsification cataract surgery.

Chaudhuri Z, John, Aneja S, Thelma BK., Pedigree analysis of concomitant horizontal strabismus in Northern India. Oral presentation at the 38th Meeting of the European Strabismological Association at Budapest, Hungary, Sept. 28 - Oct. 1, 2016.

Chaudhuri Z, Demer JL., Post-surgical recurrences of strabismus in the sagging eye syndrome. Oral presentation at the 38th Meeting of the European Strabismological Association at Budapest, Hungary, Sept. 28- Oct. 1, 2016.

Chaudhuri Z, Pancholotho AK, Sharma A., Profile and distribution of strabismus in craniosynostosis. Oral presentation at the 38th Meeting of the European Strabismological Association at Budapest, Hungary Sept. 28- Oct. 1, 2016.

Chaudhuri Z, Nagpal, M, Jain R., Strabismus indicates severity of motor impairment in cerebral palsy. Oral presentation at the 38 Meeting of the European Strabismological Association at Budapest, Hungary, Sept. 28- Oct. 1, 2016.

Chaudhuri Z, Prakash P, and Jain R., Changes in objective torsion (OT) after horizontal rectus muscle surgeries (HRMS) for horizontal strabismus. Oral presentation at the AAPOS-SPOSI Intercontinental Perspective Meeting at Jaipur, Dec. 2 -4, 2016.

Shandil A, Prakash O, Chaudhuri Z., Unilateral congenital nasolacrimal duct obstruction (CNLDO) presents with refractive errors. Oral presentation at the 75th All India Ophthalmological Society Conference at Jaipur, Feb. 16 -19, 2017.

### **National / International MoUs signed**

MOU with National Eye Bank, Hospital Corneal Patients Programme (HCRP) of the NPCB Government of India at LHMC & SSK Hospital, Aug. 1, 2016.

### **Inter-Institutional Collaboration**

The Department has been chosen as an arm in the ICMR project of Congenital Rubella Syndrome Surveillance.

### **Community services**

Community Outreach Services are provided at the Urban Health Centre Kalyanpuri on Thursdays.

### **Faculty Strength – 5**

### **Other Significant Information**

The Department participates in the Govt. Sponsored Programme under NPCB, NCT of Delhi and also participates in screening of patients at various eye camps in Delhi.

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## OPHTHALMOLOGY (UCMS)

### Honours / Distinctions

Dr. Gupta V.P.:

Best Lacrimal paper Award, by All India Ophthalmological Society (for best FP-1378 Comparison of the cosmetic and functional results of subciliary Ext. DCR versus conventional EXT. dcr), Feb, 2017.

Dr. P.K. Jain Memorial Oration 2017 awarded by Delhi Ophthalmological Society.

Nominated Governing Council Member, DSCI.

Nominated Governing Council Member, IHBAS.

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## OTORHINOLARYNGOLOGY (UCMS)

### Major Activities and Achievements

The Department is approved as a Centre for Advanced Bionic Cochlear Implants and Bone Anchored Hearing Aids. The department has been doing the maximum number of middle ear implants in Delhi. The department has added the facility for sialendoscopy and navigation system in endoscopic surgery for skull base, nose and paranasal sinuses. The department Organises Advanced Course on Recent Advances in Ear Surgery, each year. Recently an International Course on Middle Ear Reconstruction was held and it was well attended and appreciated by the delegates.

### Honours / Distinctions

Dr. N Gupta, Member, Governing Body, Neuro-equilibrimetric Society of India.

Dr P. P Singh:

Elected as Governing Body Member of Indian Society of Facial Plastic and Reconstructive Surgery.

Executive Member as the past President of Neuro-otological and Equilibrimetric Society of India.

Editorial Member of *Asian Journal of Ear, Nose, Throat*.

Dr. H. C Taneja, Elected as Secretary to Neuroequilibrimetric Society of India.

Dr. Laxmi Vaid, Member of *Indian Journal of Otolaryngology and Head and Neck Surgery*.

Dr. Laxmi Vaid, Member Governing Body of NES, India.

### Publications

Bhatia, K., Vaid, L., Taneja, H.C. (2016). Effect of Type 1 tympanoplasty on the quality of life of CSOM patients. *International Journal of Otolaryngology Head Neck Surgery*, 68(4), 468-474.

Gupta, N., Kaur, R., Rai, A., Wadhwa, N., Singh, P.P. (2016). Neurofibroma of the cheek and Nasal dorsum: a Case Report and a Mini review. *International Journal of Otolaryngology*, 8(2), 62-64.

Hummel, T., Whitcroft, K.L., Andrews, P., Altundag, A., Cinghi, C., Costanzo, R.M., Damm, M., Frasnelli, J., Gudziol, H., Gupta, N. (2017). Position paper on Olfactory dysfunction. *Rhinology*, 54(26),1-30.

### Research Projects

Dr. Vipin Arora, project, *Clinicopathological Evaluation of Cytokeratin 18 In orgal squamous cell carcinoma*.

### **Seminars / Conferences Presentation**

P. P Singh, Invited panelist for a Symposium on Acoustic Neuroma Therapy in Annual Conference of Neuro-Otological and Equilibriometric Society of India, New Delhi.

Vipin Arora, Organizing Secretary, National Symposium on Thyroid Cancer, Sept. 24, 2016.

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## **PAEDODONTICS & PREVENTIVE DENTISTRY (UCMS)**

### **Major Activities and Achievements**

The services provided by the Department encompass a plethora of dental treatment modalities such as endodontic therapy, orthodontic correction of irregular teeth and major oral surgical procedures apart from the routine day to day services like tooth extractions, intra-oral radiography, scaling and oral prophylaxis. The department is collaborating with other specialities in providing interdisciplinary patient care such as immediate prophylaxis and treatment for oncology patients, molds for cases undergoing vaginoplasty in the Obs & Gynea department and providing temporary obturators for patients from the ENT Department. The department is striving to develop a Paedodontic Centre which is in the pipeline. On the research front, projects have been undertaken on the facial characteristics for thalassaemic patients, dental characteristics in patients with Papillon Lefevre Syndrome, preemptive analgesics in dental surgery and a working module of the day care anaesthesia in paediatric dental patients. Computerized digital radiography has also been set up.

### **Honours / Distinctions**

Prof. Namita Kalra appointed as Chair of Programme Committee for UNESCO supported integration of Bioethics into dental curriculum.

Prof. Namita Kalra Elected member of National Academy of Medical Sciences based on contribution to profession.

### **Publications**

Godhi, B., Tyagi, R. (2016). Success rate of MTA pulpotomy on vital pulp of primary molars – 3 years observational study. *Int J Clin Pediatr Dent*, 9(3), 222-27.

Kalra, N., Tyagi, R., Khatri, A., Poswal, A., Panwar, G., Garg, K. (2016). Double lip: An atypical facial anomaly. Two case reports. *Int J Clin Pediatr Dent*.

Khatri, A., Kumar, S., Kalra, N., Tyagi, R. (2016). Fragment reattachment of a complicated crown-root fracture in primary maxillary central Incisor and 1 year follow-up. *SRM J Res Dent Sci.*, 7, 124-7.

Garg, K., Kalra, N., Tyagi, R., Khatri, A., Panwar, G. (2017). Prosthetic rehabilitation of an insidiously enlarged traumatic palatal perforation after orotracheal intubation in young diabetic child. *Journal of Clinical and Diagnostic Research*, 11(4), 38-9.

### **Seminar / Conference Presentations**

Namita Kalra, delivered a guest lecture in Manav Rachna Dental College, Faridabad, Haryana.

Namita Kalra, participated in 'Core Committee Meeting of Bioethics' in London as National Dental Chairperson.

### **Other Significant Information**

Post Graduate Programme in Paedodontics & Preventive Dentistry is running successfully since five years.

Passed out PGs are employed fruitfully in India and abroad.

Thesis published in Pub Med Index Journals.

Major cases like Naso alveolar Moulding with Plastic surgery department and case series on Natal & Neonatal teeth extraction and Management with Paediatric department are being done.

Traumatic injury repair of nose with the help of nasal stent as an assisted method to the Plastic Surgery started

**Faculty Strength** – 04

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## **PATHOLOGY (MAMC)**

### **Major Activities and Achievements**

The department of Pathology provides a wide range of services to more than one third of Delhi's population and also the surrounding states. It provides excellent diagnostic, research and undergraduate and postgraduate teaching facilities. The department provides histopathological, cytological, hematological, clinical pathology and genetic diagnostic facilities. In a year over 15,000 biopsies, 7000 cytological samples and 9,000 hematological samples are reported upon. A number of super specialty facilities are also provided by the department – Nephropathology, Cytogenetic, immunology, Coagulation Studies, Frozen Sections etc. Clinical Path Lab (centralised) handles around 254,000 blood samples, 65,000 urine samples, 9000 cytology samples, 3000 semen analysis & 200 Elisa tests.

### **Honours / Distinctions**

**Dr. Shyama Jain:**

External Examiner for PhD thesis at KGMC Lucknow, Jan. 2016.

Internal Examiner for Supplementary 2nd MBBS at Maulana Azad Medical College, March, 2016.

External Expert for Selection Committee for Faculty positions at ESI Faridabad and Dwarka, in Feb., March, April, Aug., 2016.

External examiner for MBBS exam at HIMSR Delhi, March 2016.

External Expert for Selection Committee for Faculty positions at BSAH Delhi, Sept. 2016.

Member Advisory Committee for B Vocational and Community College Program under UGC at Jamia Milia Islamia, Delhi, Sept. 2016.

Panel Member/Subject Expert and Advisor for UPSC.

Committee member for Protocol presentation for MD Thesis at MAMC, Sept. 2016.

Subject Expert and Committee member for protocol presentation of Research project at CSIR Delhi, Oct. 2016.

Subject Expert and Committee member for Interviews for Selection of Senior residents at LNJP Hospital, Oct., 2016.

Internal Examiner for MD Pathology Exam (supple), Oct., 2016.

Subject Expert for evaluation of Post graduate and Post doctoral Thesis from AIIMS Delhi, Lucknow (UP), PGIMER and GMC Chandigarh, Orissa.

Paper setter for Under-graduate/ Post-graduate Pathology Examination for Various state universities: UP, Orissa, Gujarat.

Paper setter and Internal Examiner for Annual Practical and Theory exam of 2 MBBS Pathology Dec., 2016.

**Dr. Nita Khurana:**

External examiner for DNB Pathology examination held at R&R Army Hospital, 2016.

External Examiner for MD Pathology 2016 examination at Subharti University, Meerut.

Internal Examiner for BDS Pathology 2016 Annual and Supplementary.

Expert in the Board of studies for MD Pathology curriculum at Subharti Medical College, Meerut.

Expert for the revision of DNB Pathology curriculum, National board of Examination, Curriculum Committee.

Internal examiner for MD Pathology Annual examination Delhi university

Dr. Sarika Singh, Internal Examiner for MBBS annual, Dec., 2016

Dr. Richa Gupta, Internal Examiner for MBBS annual, Dec., 2016

Dr. Shramana Mandal, Internal Examiner for MBBS annual, Dec., 2016

## Publications

Arora, P., Sardana, K., Madan, A., Khurana, N. (2016). An old woman with a lump. *Indian Journal of Dermatology*, 61(6), 697-699.

Bohara, S., Agarwal, S., Khurana, N., Pandey, P. N. (2016). Primary intraosseous atypical inflammatory meningioma presenting as a lytic skull lesion: Case report with review of literature. *Indian Journal of Pathology and Microbiology*, 59(3), 386-8.

Gupta, A., Jain, S., Khurana, N., Kakar, AK. (2016). Expression of p63 and Bcl-2 in malignant thyroid tumors and their correlation with other diagnostic immunocytochemical markers. *Journal of Clinical and Diagnostic Research of Doctors*, 10(7), EC04-8.

Gupta, A., Gupta, P., Manaktala, U., Khurana, N. (2016). Clinical, radiological, and histopathological analysis of paraovarian cysts. *Journal of Mid-life Health*, 7(2), 78-82.

Gupta, A., Singh, M., Rani, P., Khurana, N., Anurag. (2017). Primary Sarcomas of thyroid gland- Series of three cases with brief review of spindle cell lesions of thyroid. *Journal of Clinical and Diagnostic Research*, 11(2), ER01-ER04.

Gupta, A., Singh, M., Rani, P., Jain, S., Khurana, N., Latika, S. (2017). Malignant mixed mullerian tumor of ovary-scrape cytology: findings with review of literature. *Journal of Cytology*, 34(2), 125-126

Gupta, B., Yadav, S., Khurana, N., Sharma, M. (2016). Juvenile Xanthogranuloma in Vulva of a 10-Year-Old Child. *Journal of Clinical and Diagnostic Research of Doctors*, 10(11), ED 21-22.

Gupta, D., Rathore, PK., Chauhan, A., Khurana, N. (2016). Unusual presentation of chordoma in nose. *Indian Journal of Otolaryngology- Head Neck Surgery*, 68(3), 380-3.

Jaiswal, A., Mallya, V., Singh, V., Walia, M., Khurana, N. (2017). Hemophagocytic lymphohistiocytosis due to multiple infections- case report of rare entity. *Indian Journal of Pathology and Microbiology*, 60, 137-38.

Khuraijam, B., Sobti, P., Shangpliang, D., Khurana, N. (2016). Extramedullary haematopoiesis in a case of Pilomatricoma. *Journal of Clinical and Diagnostic Research*, 10(6), ED17-8.

Khangar, B., Mallya, V., Khurana, N., Sachdeva, P., Kashyap, S. (2017). Coexisting leiomyomata peritonealis disseminata and ovarian leiomyoma. *Journal of Mid-Life Health*, 8, 45-47.

Maheshwari, B., Roy, M., Agarwal, S., Devi, S., Singh, A., Khurana, N., Gupta, S. (2016). Umbilical cord ulceration: An underdiagnosed entity. *Obstet Gynecol Sci.*, 59(5), 388-92.

Rani, P., Rathi, R., Gupta, AJ., Mandal, S., Khurana, N., Tripathi, R. (2016). Therapy-related acute myeloid leukemia in a patient of vaginal carcinoma post-chemoradiation with latency of 15 months: Case report. *Journal of Obstetric Gynaecol.*, 6, 1-2.

Rani, P., Sobti, P., Jain, Gupta., Arora, P., Singh, M., Jain, S., Rathore, A. (2017). Filarial worm residing in ovarian papillary serous adenocarcinoma – a rare case report. *Publication in Diagnostic cytopathology*, 44(11), 952-954

Sharma, M., Mallya, V., Khurana, N., Kumar, P., Duggal, R. (2017). Lymphaticovenous malformation- A report of two cases. *Journal of Clinical and Diagnostic Research*, 11, ED03-04.

Sharma, M., Khangar, B., Mallya, V., Khurana, M., Gupta, S. (2017). Coexisting Brenners tumour and endometrial carcinoma – A case report. *Journal of Mid-Life Health*, 8, 80-91.

Singh, S., Yadav, S., Khurana, N., Singh, C. B. (2016). A rare case of gastric gangrene in a young patient. *European Journal of Pharmaceutical and Medical Research*, 3(10), 325-326.

Yadav, P., Mirza, M., Nandi, K., Jain, S. K., Kaza, R. C., Khurana, N., Ray, P.C., Saxena, A. (2016). Serum microRNA-21 expression as a prognostic and therapeutic biomarker for breast cancer patients. *Tumour Biology*, 37(11), 15275-15282.

### **Research Projects**

Dr. Perna Arora, project, *Institutional Project Distribution of interstitial cells of Cajal (ICC) in Hirschsprung disease: An Immunohistochemical study.*

Dr. Reena Tomar, project, *Role of Cancer Stem cell markers CD44, CD133 and CD49f in Triple negative breast cancers and their association with histological grade, proliferation index, angiogenesis and metastasis.*

Dr. Richa Gupta, Arora P, Jain S, Gupta N, project, *Prevalence of CD 38 and Zap 70 in Indian CLL / SLL patients and its correlation with other prognostic factors.*

Dr. Sarika Singh, Dr. Shyama Jain, Dr. Perna Arora, Dr. A Vindal, project, *Genotypic Subclassification of Diffuse Large B Cell Lymphoma by Expression of Myc, Bcl2 and Bcl6 at Tertiary Health Care Centre.*

Dr. Shramna Mandal, project, *Correlation of p16 and galectin 1,3 and 9 expression in dysplasias and squamous cell carcinomas of buccal mucosa.*

Dr. Shramna Mandal, project funded by ICMR STS, *Correlation of PSA levels with Gleasons score in Prostatic Adenocarcinoma.*

Dr. Varuna Sipayya, project, *Morphological and Immunohistochemical study of fallopian tubes in ovarian serous tumors.*

### **Conferences Organised**

Quarterly meeting of Delhi Chapter of Indian Academy of Pathology and Microbiology in Aug., 2016 by Department of Pathology

### **Seminar / Conference Presentations**

Reena Tomar, Oral paper Presentation, International Conference on Cytology and Histopathology at Las Vegas, USA on 10-12th Aug., 2016.

Sarika Singh, Oral Paper Presentation, in Cytocon 2016.

Varuna Mallaya, Oral Paper presented in Cytocon 2016.

Meeta Singh, Poster presented in Cytocon 2016.

Sarika, Presented Cases in Lymphoma workshop as faculty in Haematocon, Jaipur.

### **Extension and Outreach Activities**

Dr. Reena Tomar Organised YOGA DAY at MAMC on June 19-21, 2016.

### **Faculty Strength – 10**

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## **PATHOLOGY (UCMS)**

### **Major Activities and Achievements**

Histopathology section of the department has an annual output of over 84,000 investigations. Facilities of histochemical and immune-histochemical test, phenotyping of tumours and ultra-structural studies are available. Autopsy services consist mostly of neonatal autopsies. Cytopathology section has an output of over 46,000 specimens comprising fine-needle aspiration gynaecologic and other exfoliative material. The research activities include cancer specific markers, histopathology in leprosy and hepatocarcinogenesis, morphologic changes in



tuberculous lymph-nodes in patients on DOTS and genetic profiling of Wilm's tumor. The other areas of interest are leukemia and coagulation disorders. The department has several projects funded by agencies like WHO, UNICEF, ICMR, UGC and CSIR.

### Honours / Distinctions

Dr. Arora T, Dr. Bansal D, Dr. Diwaker P, Dr. Halder A, Dr. Jain M, Dr. Mishra K, Dr. Wadhwa N, Nalinibai Thakkar Award in Cytocon, 2016 for 'Evaluation of *H-terc* gene expression in cervical cytology specimens as marker of histologic grade of cervical intra-epithelial neoplasia.' in 46th Annual National Conference of Indian Academy of Cytologists, Nagpur, Nov., 19-20, 2016.

Dr. Bansal D, Dr. Diwaker P, Dr. Halder A, Dr. Wadhwa N, Dr. Mishra K, Best Oral Paper for '*hTERT* gene expression in cervical cytology specimens is a potential marker of high grade cervical intraepithelial neoplasia' in 7th Annual National Conference of Asia Oceania Research Organization on Genital Infections and Neoplasia, India, Oct. 14-16, 2016.

Dr. Devi LN, Dr. Gogoi P, Dr. Kumar C, Dr. Singh UR, Dr. Tanveer N, Third prize in Best Poster category Xanthogranulomatous Oophoritis presenting as Ovarian Masses, Report of three cases.(Abstract) in Proceedings of International Conference of Surgical Pathology PATHSURGE 2016 organised by Sri Balaji Medical College and Hospital, Barath University, Chennai. Pg112, PA-44.(), Aug. 22th-24, 2016.

Dr. Kotru M, Dr. Pathre A, Dr. Sikka M, Third prize in Case Series category, 27th Annual Conference of Delhi Society of Hematology Organised by Dr. BL Kapur Memorial Hospital, *Serum transferrin receptor in the diagnosis of IDA in children.*, Sept. 25, 2016.

The Blood Bank was accredited by NABH in Sept. 2016..

### Publications

Bansal, R., Yadav, A., Raizada, A., Sharma, S., & Goel, A. (2016). Can malaria trigger systemic lupus erythematosus? *Tropical doctor*.

Barman, S., Diwaker, P., Bansal, D., Wadhwa, N., & Singh, G. (2016). Aneurysmal bone cyst: An uncommon secondary event in calcaneal chondroblastoma. *Journal of clinical and diagnostic research: JCDR*, 10(6), ED14.

Himani, B., Meera, S., Abhimanyu, S., & Usha, R. (2016). Ki-67 Immunostaining and its correlation with microvessel density in patients with multiple myeloma. *Asian Pac. J Cancer Prev.*, 17, 2559-2564.

Bhatt, S., Verma, P., Meena, N., Tandon, A., Tanveer, N., & Bansal, D. (2017). Glomus vagale tumour, can it be diagnosed only on sonography?. *Journal of Ultrasound*, 20(1), 73-79.

Bisherwal, K., Pandhi, D., Singal, A., & Sharma, S. (2016). Infantile bullous pemphigoid following vaccination. *Indian Pediatr.*, 53(5), 425-6.

Bisherwal, K., Singal, A., Pandhi, D., & Sharma, S. (2017). Hypopigmented mycosis fungoides: Clinical, histological, and immunohistochemical remission induced by narrow-band ultraviolet B. *Indian Journal of Dermatology*, 62(2), 203.

Chahar, D., Sreenivasan, R., Chawla, A., Barman, S., Tanveer, N., & Pankaj, A. (2016). Tuberculosis: An unusual etiology of Baker's cyst. *Journal of Arthroscopy and Joint Surgery*, 3(2), 78-82.

Dhawan, A. K., Bisherwal, K., Gandhi, V., Kawthekar, P., & Diwaker, P. (2016). Aquagenic syringal acrokeratoderma. *Indian Dermatology Online Journal*, 7(4), 327.

Dhawan, A. K., Bisherwal, K., Grover, C., & Diwaker, P. (2016). Annular atrophic plaque over the arm. *Indian Dermatology Online Journal*, 7(4), 340.

Dhawan, A. K., Bisherwal, K., Grover, C., & Sharma, S. (2016). An asymptomatic inguinal swelling: Lymphatic filariasis.

Daulatabad, D., Grover, C., & Tanveer, N. (2017). Nevoid hypertrichosis in a pre-adolescent girl. *Indian Dermatology Online Journal*, 8(2), 143.

- Daulatabad, D., Grover, C., Tanveer, N., & Bansal, D. (2016). Granular cell tumor in a child: An uncommon cutaneous presentation. *Indian Dermatology Online Journal*, 7(5), 390.
- Goel, A., Gaur, M. K., Sharma, S., & Garg, P. K. (2017). Skin lumps and leg humps: An unusual presentation of a common visceral malignancy. *Journal of Gastrointestinal Cancer*, 1-3.
- Goyal, A., Tanveer, N., & Sharma, P. (2017). WhatsApp for teaching pathology postgraduates: A pilot study. *Journal of Pathology Informatics*, 8.
- Gomber, S., Jain, P., Sharma, S., & Narang, M. (2016). Comparative efficacy and safety of oral Iron Chelators and their novel combination in children with Thalassemia. *Indian Pediatr.*, 53(3), 207-10.
- Kotru, M., Munjal, SS., Mutreja, D., Kumar, G., Singh, M., Seth, T., Pati, HP. Severity of anemia and hemostatic parameters are strong predictors of outcome in postoperative neurosurgical patients. *Asian J Neuro. Surg.*, in press.
- Kotru, M., Mutreja, D., Purohit, A., Tyagi, S., Mahapatra, M., Saxena, R., & Pati, H. P. (2016). Mild bleeders: Diagnosis is elusive in large number of patients. *Mediterranean Journal of Hematology and Infectious Diseases*, 8(1).
- Kumar, A., Aggarwal, K., Agrawal, H., Sharma, S., Garg, PK. (2016). Unicentric castleman disease: An unusual cause of an isolated neck mass. *Malaysian Journal of Medical Sciences*, 23(4), 86-9.
- Kumar, H., Tanveer, N., Gupta, N., & Mishra, K. (2016). Large cell calcifying sertoli cell tumour of testis-A rare case report. *Journal of Clinical and Diagnostic Research*, 10(11), ED03.
- Narang, N., Kotru, M., Rao, K., Sikka, M. (2016). Megaloblastic anemia with ring sideroblasts. Not always MDS. *Turkish Journal of Hematology*. doi: 10.4274 /tjh.0090. Epub ahead of print.
- Parihar, A., & Sharma, S. (2016). Bilateral Xanthogranulomatous Orchiepididymitis in a diabetic patient. *Journal of Clinical and Diagnostic Research, JCDR*, 10(7), EL01.
- Patnaik, N., Diwaker, P., Singh, B., Arora, V. K. (2016). Cytomorphological features of oncocytic variant of papillary thyroid carcinoma with lymphocytic thyroiditis: A case report. *Asian J. Oncol.*, 2, 85-7.
- Puri, V., Burman, S., Sharma, S., Sikka, M. (2016). Congenital acute myeloid leukemia with pseudo chediak higashi like granules: A case report. *Journal of Clinical and Diagnostic Research*, 10, 19-20.
- Puri, V., Gandhi, A., & Sharma, S. (2017). Renal biopsy in paroxysmal nocturnal hemoglobinuria: An insight into the spectrum of morphologic changes. *Indian Journal of Nephrology*, 27(4), 284.
- Rathore, R., Arora, D., Agarwal, S., Sharma, S. Correlation of FOXL2 with Inhibin and Calretinin in the diagnosis of ovarian sex cord stromal tumors. *Turkish Journal of Pathology*, 33(2), 121-128.
- Rathore, R., Sharma, S., & Arora, D. (2016). Spectrum of childhood and adolescent ovarian tumors in India: 25 years experience at a single institution. *Open access Macedonian Journal of Medical Sciences*, 4(4), 551.
- Rawat, A., Diwaker, P., Gogoi, P., Singh, B. (2016). Prevalence and changing trends of transfusion transmitted infections amongst blood donors in a regional blood transfusion centre. *Indian Journal of Medical Research*.
- Sehgal, V. N., Aggarwal, A., Syed, N. H., Rasool, F., Verma, P., & Sharma, S. (2016). Palmoplantar keratoderma as a variant of lichen planus. *Skinmed*, 14(1), 56-60.
- Sharma, A., Gogoi, P., Kumar, S. (2016). Primary hydatid cyst of spleen: A case report. *International Journal of Scientific Research*, 5(6).
- Sharma, A., Sikka, M., Bhankar, H., Gomber, S., Sharma, S. Haematologic parameters and screening tests of haemostasis in children with sepsis: results from an Indian tertiary care centre. *Malaysian Journal of Pathology*.
- Sharma, A., Sikka, M., Bhankar, H., Gomber, S., Sharma, S. Markers of fibrinolysis in children with sepsis. *Iranian Journal of Pathology*.
- Sharma, A., Singh, U. R., & Sihag, P. (2016). Frontal bone hemangioma in an 8-year-old female: A common tumor in a rare location. *Journal of Neurosciences in Rural Practice*, 7(1), S91.
- Sikka, M., Rawat, A., Rusia, U., Guleria, K. (2016). Antiphospholipid Antibodies in Indian women with spontaneous, recurrent fetal loss. *Indian Journal of Hematology and Blood Transfusion*. 32(1), S249-S250.
- Singh, K., Sharma, S., Singh, UR., Bhattacharya, SN. (2016). A comparison of vertical and transverse sections in the histological diagnosis of alopecia areata scalp biopsy specimens. *Int. J Tricho.*, 8(3), 111-5.

Soni, K., Kotru, M., Dewan, P., Meena, P. (2016). Presentation. *International Journal of Laboratory Hematology*, doi: 10.1111/ijlh.12613.

Srivastava, R., Wadhwa, N., Razdan, U., Gupta, S. (2016). Nasal polyp – an incidental paraganglioma. *Turk Patoloji Derg*, 32, 196-9.

Tanveer, N., Gupta, B., Pathre, A., Rajaram, S., Goyal, N. (2017). A rare collision tumor of uterus- squamous cell carcinoma and endometrial stromal sarcoma. *Journal of Clinical and Diagnostic Research*, 11(2), ED20-22. PMID: 28384878

Tanveer, N. (2017). Social media: The new frontier for pathologists. *Indian Journal of Pathology and Microbiology*, 60, 143-4. PMID: 28195121

Tanveer, N., Soni, K. (2016). Bone marrow tuberculosis: A diagnosis not to be missed. *Journal of Applied Hematology*, 7, 81-2.

Wadhwa, N., Gupta, S., Aggarwal, S., Mishra, K. (2016). Clinico-pathologic correlates of Helicobacter pylori in gastric mucosa. *Appl. Immunohistochem. Mol. Morphol.*, epub ahead of print.

Goyal R, Kotru M, Sharma S.(2016). Defects in semen analysis with normal and abnormal sperm counts. *Ind J Pathol Spectrum of qualitative Microbiol.* (suppl).

### **Research Projects**

Dr. Priyanka Gogoi, project funded by STS Project – (ICMR) Ref. Code – 2016-06453, April 2016, *Evaluation of iron stores in regular repeat voluntary blood donors in North India*. Rs.10, 000/-

Dr. Sonal Sharma, project funded by UGC, April 2016, *To study the role of Type I regulatory T cells in skin in patients with Pemphigus vulgaris during acute disease and remission*. Rs. 14,20,000/-

Dr. Neelam Wadhwa, project funded by DST Budget, (Completed), *Characterization of dysfunctional angiogenesis in pre-eclampsia-quantification and localization of critical regulating proteins*. Rs. 39,30,000/-

### **Conference Organised**

Quarterly Meet of Delhi Society of Hematology, 10 Dec., 2016.

27th Annual Conference of Delhi Society of Hematology.

57th National Conference of Indian Society of Hematology and Blood Transfusion, Jaipur, Nov., 2016.

National Medical Book Author's Workshop at All India Institute of Medical Sciences, New Delhi.

5th Annual Conference of Delhi Chapter of Indian Academy of Cytologists at PGIMER, Dr. RML Hospital, New Delhi.

5th Annual Conference of Delhi Chapter of Indian Academy of Cytologists at PGIMER, Dr. RML Hospital, New Delhi.

27th Annual Conference of Delhi Society of Haematology Changing Paradigms in Haematology Practice Organised by BLK Super Speciality Hospital, New Delhi.

### **Seminar / Conferences Presentations**

Bhardawaj N, Sharma S, Madhu SV, Sikka M., Endothelial Nitric oxide synthase gene polymorphism in diabetic patients with and without nephropathy, in Annual Meeting of American society of Nephropathology Nov., 2016 at Chicago, USA.

Meera Sikka, Regional Workshop on Capacity Building of the faculty/Researchers in the Medical Colleges/Research Institutions held by Department of Health Research, ICMR at National Institute for Cancer Prevention & Research (NICPR), Noida; and Seminar on NABL, Essential for Excellence; National Accreditation Board for testing and calibration. India International Centre, New Delhi, March 11, 2016.

Mrinalini Kotru, Regional Workshop on Capacity Building of the faculty / Researchers in the Medical Colleges / Research Institutions held by Department of Health Research, ICMR at National Institute for Cancer Prevention & Research (NICPR), Noida.

Mrinalini Kotru, 5th Annual Conference of Delhi Chapter of Indian Academy of Cytologists at PGIMER, Dr RML hospital, New Delhi.

Mrinalini Kotru, 19th Annual CME (IAP-ID) Image guided Biopsy Interpretation: Lessons Learned in Practice at P D Hinduja Hospital and Medical Research Centre, Mumbai.

Mrinalini Kotru, Seminar on NABL: Essential for Excellence Organised by University College of Medical Sciences and National Accreditation Board for Testing and Calibration Laboratories at Multipurpose Hall, India International Centre, New Delhi.

Preeti Diwakar, Four Day Training Programme on Quality Management Systems and Internal Audit in Medical Laboratories as per ISO 15189:2012 held at Paschim Vihar, New Delhi.

Preeti Diwakar, Seminar on Prevention of TTI: Future Direction Organised by the Indian chapter of Asian Association of Transfusion Medicine held at Le Meridian Hotel, Gurgaon..

Preeti Diwakar, 65th Annual Conference of Indian Association of Pathologists and Microbiologists, APCON 2016 held at B.M. Birla Auditorium, Jaipur.

Preeti Diwakar, Workshop on NABH Blood Bank held at GTB Hospital & UCMS, Delhi.

Preeti Diwakar, 32nd Annual Conference of Indian Association of Pathologists & Microbiologists, DAPCON 2017 held at Lady Hardinge Medical College, New Delhi, March 26, 2017.

Priyanka Gogoi, Training on 'Sensitisation for Prevention of Sexual Harassment at Workplace' conducted by the Directorate of Training: Union Territories Civil Services, Govt. of N.C.T of Delhi.

Satendra Sharma, Annual Conference of ISHTM, Hematocon 2016, Jaipur, Nov. 11-13, 2016.

Satendra Sharma, 5th Annual Conference of Delhi Chapter of Indian Academy of Cytologists at PGIMER, Dr RML hospital, New Delhi

Satendra Sharma, 65th Annual Conference of Indian Association of Pathologists & Microbiologists, Jaipur, Rajasthan.

Satendra Sharma, International Academy of Pathology – Indian Division. Annual Conference 2016. Jaipur, Rajasthan, Dec. 2-4, 2016

Satendra Sharma, Asian Dermatological Congress 2016, Mumbai, India.

Satendra Sharma, 3rd International Renal Pathology Conference, AIIMS, New Delhi.

Satendra Sharma, CME in Dermatopathology, India Habitat Centre, New Delhi

Ahuja S, Sharma A, Diwaker P, Wadhwa N, Arora VK., Acinic cell carcinoma with lymphoid stroma: Report of a case with cytologic diagnosis on FNAC in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-101.

Arora T, Wadhwa N, Aggarwal D, Diwaker P, Arora VK., Myopericytoma - an unusual pericytic tumor in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-106.

Arora T, Wadhwa N, Pandhi D, Arora VK, Diwaker P, Jain M, Halder A., Spectrum of anal cytology and gene expression status of telomerase enzyme (HTERT) in cases of anal squamous dysplasia. International CME in pathology (Histopathology & Cytopathology), Feb. 2-4, 2017, Goa.

Bansal D, Arora T, Diwaker P, Wadhwa N, Mishra K, Rajaram S, Jain M, Halder A., Evaluation of hTERC gene expression in cervical cytology specimens as a marker of histologic grade of cervical intraepithelial neoplasia. Cytocon 2016 held at Nagpur from Nov. 19-20, 2016.

Bansal D, Diwaker P, Wadhwa N, Mishra K, Rajaram S, Halder A., Evaluation of hTERC gene expression in cervical cytology specimens as a marker of histologic grade of cervical intraepithelial neoplasia. AOGIN India 2016 held at Patna from Oct. 14-16, 2016.

Bansal D, Diwaker P, Wadhwa N, Mishra K, Rajaram S, Halder S. Htrec gene expression in cervical cytology specimens is a potential marker of high grade cervical intra-epithelial neoplasia, Delhi Chapter of Indian Academy of Cytologists, Delhi, Sept., 2016.

Bansal T, Singh UR, Sharma S, Tanveer N., Expression of YB-1 in breast carcinoma and its correlation with prognostic and predictive markers – A manual tissue microarray study.(Abstract) in Proceedings of 32 Annual

Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists-2017, held at Swarn Jayanti Hall, Lady Hardinge Medical College, Delhi on March 26, 2017. Pg14.PP-12.

Chaurasia Z, Sharma S, Bhardwaj N., Epithelioid Hemangioendothelioma presenting as Ileo-colic intussusceptions: A case report. 32nd Annual Conference APCON-Delhi Chapter 2017, March 26, 2017.

Chaurasia Z, Sharma S, Sharma P, Garg PK., Pseudoglandular schwannoma; a case report. 32nd Annual Conference APCON-Delhi Chapter 2017, March 26, 2017.

Chhabra S, Diwaker P, Gogoi P, Bansal D, Sharma S., Aplastic anaemia associated with Multidrug Therapy for Leprosy. Delhi Society of Haematology 27th Annual Conference Changing Paradigms in Haematology Practice, 2016 organised by BLK Super Speciality Hospital, New Delhi.

Dawar S, Gogoi P, Diwaker P, Aggarwal P, and Singh, B., Prevalence of Weak D among antenatal cases: Implications & Future Strategies: A Hospital based Study. 57th Annual Conference of Indian Society of Hematology & Blood Transfusion, 2016, Jaipur. Poster code TM 21 and abstract published in Indian Journal of Hematology & Blood Transfusion; 32(2):S490.

Diwaker P, Wadhwa N, Arora VK, Rashmi., ER alpha and its key interacting molecules are deranged in inflamed endometrium in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26 2017. Poster code PP-32.

Diwaker P, Wadhwa N, Gogoi P, Arora VK, Singh N., Unusal presentation of Lepromatous Leprosy with Lucio's Phenomenon: A Case Report. APCON 2016, 65th annual conference of IAPM, Dec. 1-4, 2016, Jaipur. Poster code- PP 108.

Dixit S, Chopra N, Tanveer N., Alveolar Soft Part Sarcoma with atypical presentation-A case report.(Abstract) in Proceedings of 32 Annual Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists-2017-held at Swarn Jayanti Hall,Lady Hardinge Medical College,Delhi on March 26, 2017. Pg 108, PP-104.

Goyal A, Pathak P, Sharma P, Sharma S., Role of FNAC in diagnosing lesions in hand and wrist. 32 Annual Conference APCON-Delhi Chapter 2017, March 26, 2017.

Jain P, Wadhwa N, Diwaker P, Arora VK. Altered protein expression in gastric adenocarcinoma. APCON 2016, 65th Annual Conference of IAPM, Dec. 1-4 2016, Jaipur. Poster code- PP 162.

Jain P, Wadhwa N, Diwaker P, Arora VK. Evaluation of her 2 neu immunoexpression in gastric adenocarcinoma in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26 2017. Poster code PP-28.

Kumar C, Devi LN, Gogoi P, Tanveer N, Singh UR., Xanthogranulomatous Oophoritis presenting as Ovarian Masses: Report of three cases. (Abstract) in Proceedings of International Conference of Surgical Pathology PATHSURGE 2016 organised by Sri Balaji Medical College and Hospital, Barath University, Chennai on Aug. 22-24, 2016. Pg.112, PA-44.

Kumari A, Diwaker P, Gogoi P, Wadhwa N, Arora VK, Garg PK., Primary extraneural ependymoma of the broad ligament: A rare entity in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-103.

Maru P, Niharika N, Diwaker P, Gogoi P, Wadhwa N, Arora VK., Primary Renal Aspergillosis in an Immunocompetent Patient: A Case Report in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26 2017. Poster code PP-114.

More S, Sharma S., Histological and direct immunofluorescence correlation in cutaneous vasculitis, 32 Annual Conference APCON-Delhi Chapter 2017, March 26 2017.

Murry WT, Diwaker P, Gogoi P, Singh B., Analysis of Donor Deferral Pattern in a Regional Blood Transfusion Centre in Delhi. 57th Annual Conference of Indian Society of Hematology & Blood Transfusion, 2016, Jaipur. Poster code TM 12 and abstract published in Indian Journal of Hematology & Blood Transfusion; 32(2), S487.

Murry WT, Gogoi P, Diwaker P, Sikka M., Hereditary Elliptocytis – A Case Report. Delhi Society of Haematology 27th Annual Conference Changing Paradigms in Haematology Practice, 2016 Organised by BLK Super Speciality Hospital, New Delhi.

Paswan V, Sharma S, Singh UR, Bhattacharya SN. Direct immunofluorescence of outer root sheath in anagen hair in pemphigus; can it replace biopsy? 32nd Annual Conference APCON-Delhi Chapter 2017, March 26 2017.

Ranjan K, Devi NGL, Malik DK, Diwaker P, Wadhwa N, Arora VK., Primary Leiomyosarcoma Of The Orbit: A Rare Case Report in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-112.

Saini K, Yadav A, Arora T, Wadhwa N, Diwaker P, Arora VK. Blue black coloured cutaneous metastases are pathognomic of malignant melanoma in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-115.

Sharma P, Sharma S., Cytomorphological spectrum of scalp lesions in the population of a developing country-a retrospective study. 32nd Annual Conference APCON-Delhi Chapter 2017- March 26, 2017.

Sharma S, Girotra V. Cytological spectrum of palpable abdominal wall lesions. 32nd Annual Conference APCON-Delhi Chapter 2017, March 26 2017.

Sharma S, Gogoi P, Diwaker P, Sharma A, Kotru M, Sikka M, Pathak R., Congenital Methemoglobinemia: A Rare Entity. 57th Annual Conference of Indian Society of Hematology & Blood Transfusion, 2016, Jaipur. Poster code BHL 33 and abstract published in Indian Journal of Hematology & Blood Transfusion; 32(2):S402.

Shastri M, Singh A, Diwaker P, Gogoi P, Wadhwa N, Arora VK., Primary Malignant Mixed Mullerian Tumor Of Cervix: A Rare Entity in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-113.

Singh A, Bhardwaj N, Diwaker P, Gogoi P, Wadhwa N, Arora VK., Lymph Node Metasasis Is a Rare Event in Gastro-Intestinal Stromal Tumor, in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi on March 26, 2017. Poster code PP-111.

Sinha P, Tanveer N, Bansal T, Arora VK. Cytohistological correlation in a rare case of lymphoepithelioma like carcinoma of parotid gland. (Abstract) in Proceedings of 32nd Annual Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists-2017-held atLady Hardinge Medical College, Delhi on March 26, 2017.Pg109, PP-105.

Verma A, Gogoi P, Diwaker P, Sharma S D. Suman, Acne Keloidalis Nuchae – A case report in Sovenior & Proceedings of APCON 2017 conducted by LHMC, Delhi on March 26 2017. Poster code PP-109.

N Bhardawaj, S Sharma, SV Madhu, M Sikka. Endothelial Nitric oxide synthase gene polymorphism in diabetic patients with and without nephropathy in Annual Meeting of American Society of Nephropathology, Nov. 2016, Chicago, USA

Aditi Goyal, Priya Pathak, Pooja Sharma, Sonal Sharma., Role of FNAC in diagnosing lesions in hand and wrist. 32nd Annual Conference APCON- Delhi Chapter 2017, March 26, 2017

C Kumar, LN Devi, P Gogoi, N Tanveer, UR Singh., Xanthogranulomatous Oophoritis presenting as Ovarian Masses : Report of three cases.(Abstract) in Proceedings of International Conference of Surgical Pathology.

Divya Bansal Tanvi Arora, Preeti Diwaker, Neelam Wadhwa, Kiran Mishra, Shalini Rajaram, Manish Jain, Ashutosh Halder., Evaluation of hTERC gene expression in cervical cytology specimens as a marker of histologic grade of cervical intraepithelial neoplasia. Cytocon 2016 held at Nagpur, Nov. 19 -20, 2016.

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Kiran Saini, Ashish Yadav, Tanvi Arora, Neelam Wadhwa, Preeti Diwaker, Vinod Kumar Arora., Blue black coloured cutaneous metastases are pathognomic of malignant melanoma in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi, March 26, 2017. Poster code PP-115.

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Preeti Diwaker, Neelam Wadhwa, Priyanka Gogoi, Dr.Vinod K. Arora, Navjeevan Singh., Unusal presentation of Lepromatous Leprosy with Lucio's Phenomenon: A Case Report. APCON 2016, 65th Annual Conference of IAPM, Dec. 1 -4, 2016, Jaipur. Poster code – PP 108.

Pragya Jain, Neelam Wadhwa, Preeti Diwaker, Dr.Vinod K. Arora., Altered protein expression in gastric adenocarcinoma.APCON 2016, 65 Annual Conference of IAPM, Dec. 1 -4, 2016, Jaipur. Poster code – PP 162

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P Sinha, N Tanveer, T Bansal, VK Arora. Cytohistological correlation in a rare case of lymphoepithelioma like carcinoma of parotid gland. (Abstract) in Proceedings of 32 Annual Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists-2017, held at Lady Hardinge Medical College, Delhi, March 26 th, 2017. Pg109,PP-105.

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Sana Ahuja, Abhimanyu Sharma, Preeti Diwaker, Neelam Wadhwa, Vinod Kumar Arora., Acinic cell carcinoma with lymphoid stroma: Report of a case with cytologic diagnosis on FNAC in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi, March 26, 2017. Poster code PP-101.

S Dixit, N Chopra, N Tanveer., Alveolar Soft Part Sarcoma with atypical presentation –A case report.(Abstract) in Proceedings of 32 Annual Conference of Delhi Chapter of Indian Association of Pathologists and Microbiologists-2017, held at Lady Hardinge Medical College, Delhi, Marchth, 2017. Pg 108, PP-104.

Satendra Sharma, Priyanka Gogoi, Preeti Diwaker, Asha Sharma, Mrinalini Kotru, Meera Sikka, Rajesh Pathak., Congenital Methemoglobinemia: A Rare Entity. 57th Annual Conference of Indian Society of Hematology & Blood Transfusion, 2016, Jaipur. Poster code BHL 33 and abstract published in *Indian Journal of Hematology & Blood Transfusion*, 32(2), S402.

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Shilpa Chhabra, Preeti Diwaker, Priyanka Gogoi, Divya Bansal, Satendra Sharma., Aplastic anaemia associated with Multidrug Therapy for Leprosy. Delhi Society of Haematology 27 Annual Conference Changing Paradigms in Haematology Practice, 2016 organised by BLK Super Speciality Hospital, New Delhi.

Shilpi More, Sonal Sharma., Histological and direct immunofluorescence correlation in cutaneous vasculitis. 32 Annual Conference APCON- Delhi Chapter 2017, March 26 th, 2017.

Sonal Sharma, Vaibhav Girotra., Cytological spectrum of palpable abdominal wall lesions. 32 Annual Conference APCON- Delhi Chapter 2017, March 26 th, 2017.

Tanvi Arora, Neelam Wadhwa, Deepika Pandhi, Dr.Vinod K. Arora, Preeti Diwaker, Manish Jain, Asgutosh Halder., Spectrum of anal cytology and gene expression status of telomerase enzyme (HTERT) in cases of anal squamous dysplasia. International CME in pathology (Histopathology & Cytopathology), Feb. 2 -4, 2017, Goa.

Tanvi Arora, Neelam Wadhwa, Divya Aggarwal, Preeti Diwaker, Vinod K. Arora., Myopericytoma – an unusual pericytic tumor in Sovenior & Proceedings of DAPCON 2017 conducted by LHMC, Delhi, March 26 , 2017. Poster code PP-106.

Vinita Paswan, Sonal Sharma, Usha Rani Singh, Sambit Nath Bhattacharya., Direct immunofluorescence of outer root sheath in anagen hair in pemphigus: Can it replace biopsy? 32 Annual Conference APCON- Delhi Chapter 2017, March 26, 2017.

Wonchibeni T. Murry, Priyanka Gogoi, Preeti Diwaker, Meera Sikka., Hereditary Elliptocytis – A Case Report. Delhi Society of Haematology 27th Annual Conference Changing Paradigms in Haematology Practice, 2016 Organised by BLK Super Speciality Hospital, New Delhi.

Wonchibeni T. Murry, Preeti Diwaker, Priyanka Gogoi, Bharat Singh., Analysis of Donor Deferral Pattern in a Regional Blood Transfusion Centre in Delhi. 57 Annual Conference of Indian Society of Hematology & Blood Transfusion, 2016, Jaipur. Poster code TM 12 and abstract published in *Indian Journal of Hematology & Blood Transfusion*, 32(2), S487.

Zini Chaurasia, Sonal Sharma, Pooja Sharma, Pankaj Kumar Garg., Pseudoglandular schwannoma: a case report. 32 Annual Conference APCON- Delhi Chapter 2017, March 26th, 2017

Zini Chaurasia, Sonal Sharma, Nishu Bhardwaj., Epithelioid Hemangioendothelioma presenting as Ileo-colic intussusception: A case report. 32 Annual Conference APCON- Delhi Chapter 2017, March 26, 2017.

### **Extension and Outreach Activities**

The Department participates in National Thalassemia Screening Programme of pregnant women; provides laboratory support to Thalassemia day care centre and Hemophilia care centre

### **M.Phil / Ph. D Awarded**

MD (Path) –12

### **Faculty Strength –12**

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## **PAEDIATRICS (MAMC)**

### **Major Activities and Achievements**

All Faculty members were actively involved in UG & PG Teaching & published many papers in various national & international Journals and also organised many workshops and Symposia. Many were involved in Ph.D. programs and are also a part of various advisory groups in government health programmes.

### **Honours / Distinctions**

Dr. K. Rajeshwari was awarded Ph.D. in Microbiology from Delhi University for her research on *A study of paediatric diarrhea with special reference to Enteropathogenic Escherichia coli infection.*

Dr. D. Mishra was conferred the 'Fellowship of Indian Academy of Paediatrics' at the 54th Pedicon at Bangalore, Jan., 2017.



S. Kapoor, appointed Member of the External Standing-cum-Screening Committee (ESSC) of the DBT for the sections- Biotechnology Based Programme for Women Biotechnology based Programme for Rural sections and Biotechnology based Programme for SC / ST

Dr. Chandrawati Kumari was awarded Ph.D. in Paediatrics from Delhi University for her research on *Evaluation of solid phase and solvent phase extraction procedures for urinary organic acids and molecular characterization of Methylmalonic academia* under the guidance of Dr. Seema Kapoor.

## Publication

Deepak, K., Garima, G., Jhamb, U. (2015). Bilateral acute neonatal suppurative parotitis: A rare finding in neonatal age. *Journal of Neonatal -Perinatal Medicine*, 8, 63-65.

Deepak, K., Garima, G., Jhamb, U. (2016). Prune belly syndrome associated with anorectal malformation and acyanotic congenital heart defect: A rare finding. *Scholars Academic Journal of Biosciences*, 4(3A), 228-229.

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Kaur, R., Katariya, P., Dhakad, M. S., Mehra, B., Jhamb, U., & Dubey, A. P. (2016). An unusual case of cystic fibrosis associated pneumocystis jiroveci pneumonia in an infant. *Case Reports in Infectious Diseases*, 2016.

Ajj, M., Shambhavi., Patra, B., Singh, A., Kapoor, S. (2016). Pendred syndrome in a newborn with neck swelling: A case report. *Journal of Tropical Paediatrics*, 62(4), 338-40.

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Polipalli, S.K., Karra, V.K., Jindal, A., Puppala, M., Singh, P., Rawat, K., Kapoor, S. (2016). Cytogenetic analysis for suspected chromosomal abnormalities: A five years experience. *Journal of Clinical and Diagnostic Research*, 10(9), GC01-GC05.

Ratan, S.K., Sharma, A., Kapoor, S., Polipalli, S.K., Dubey, D., Mishra, T.K., Sinha, S.K., Agarwal, S.K. (2016). Polymorphism of 3' UTR of MAMLD1 gene is also associated with increased risk of isolated hypospadias in Indian children: a preliminary report. *Paediatric Surgery International*, 32(5), 515-24.

Sarkar, T., Singh, N.P., Kar, P., Husain, S.A., Kapoor, S., Polipalli, S.K., Kumar, A., Garg, N. (2016). Does angiotensin-converting enzyme-1 (ACE-1) gene polymorphism lead to chronic kidney disease among hypertensive patients? *Renal Failure*, 38(5), 765-9.

Sharma, R., Seth, A., Chandra, J., Gohain, S., Kapoor, S., Singh, P., Pemde, H. (2016). Endocrinopathies in adolescents with thalassaemia major receiving oral iron chelation therapy. *Paediatrics and International Child Health*, 36(1), 22-7.

Singh, A., Bryan, M.M., Roney, J.C., Cullinane, A.R., Gahl, W.A., Khurana, N., Kapoor, S. (2016). A clinical report of Chediak-Higashi syndrome in infancy with a novel genotype from the Indian subcontinent. *International Journal of Dermatology*, 55(3), 317-21.

Singh, A., Prasad, R., Gupta, A.K., Sharma, A., Alves, S., Coutinho, M.F., Kapoor, S., Mishra, O.P. (2016). I cell disease (mucopolidosis ii alpha/beta): From screening to molecular diagnosis. *Indian J Paediatrics*.

Singh, A., Prasad, R., Singh, R., Kapoor, S., Bhuiyan, Z.A., Mishra, O.P. (2016). Genetic analysis of jervel and lange nielsen syndrome with a novel mutation in KCNQ1 Gene. *Indian Journal of Paediatrics*, 83(9), 1038-9. doi: 10.1007/s12098-016-2072-8.

Singh, A., Schanze, D., Agarwal, N., Prasad, R., Mishra, O.P., Singh, R., Kapoor, S., Zenker, M. (2016). Transmission of Barber-Say syndrome from a mosaic father to his child in an Indian family. *Clinical Dysmorphology*, 25(4), 81-5.

Kumar A, Juneja M, Mishra D. (2016). prevalence of autism spectrum disorders in siblings of indian children with autism spectrum disorders. *Journal of Child Neurology*, 31(7), 873-8.

- Nikunj, N. K., Mishra, D., & Talukdar, B. (2016). Etiology and short-term outcome of first seizure in hospitalized infants. *Indian Paediatrics*, 53 (10), 924-926.
- Kumar, A., Juneja, M., Mishra, D. (2016). Prevalence of autism spectrum disorders in siblings of Indian children with ASD. *Journal of Child Neurology*, 31:873-8.
- Choudhary, S.K., Agarwal, A., Mandal, R.N., Grover, R. (2016). Hemophagocytic lymphohistiocytosis associated with hepatitis A and hepatitis E co-infection. *Indian Journal of Paediatrics*, 8(6), 607-608.
- Sharma, S., Agarwal, A., Khan, A.M., Ingle, G.K. (2016). Prevalence of dog bites in rural and urban slums of Delhi: A community-based study. *The Annals of Medical and Health Sciences Research*, 6(2), 115-9.
- Kumar, A., Juneja, M., Mishra, D. (2016). Prevalence of autism spectrum disorders in siblings of Indian children with ASD. *Journal of Child Neurology*, 31, 873-8.
- Mishra, D., Gupta, P., Singh, T. (2017). Teaching for reducing diagnostic errors. *Indian Paediatrics*, 54, 23-32.
- Khalil, S., Mishra, D., Mishra, R., Gupta, S. (2017). Factors affecting subsequent full-text publication of papers presented at the national conference of Indian Academy of Paediatrics. *Indian Paediatrics*, 54, 128-31.
- Nikunj, NK., Mishra, D., Juneja, M., Talukdar, B. (2016). Etiology and short-term outcome of first seizure in hospitalized infants. *Indian Paediatrics*, 53, 924-6.
- Khalil, S., Mishra, D. (2016). Sharing clinical experience with the scientific community: How to write a case-report. *Indian Paediatrics*, 53, 513-6.
- Singh, J., Verma, R., Tiwari, A., Mishra, D., Singh, HP. (2016). Retinopathy as a prognostic marker in cerebral malaria. *Indian Paediatrics*, 53, 315-7.
- Mantan, M., Grover, R., Kaur, S., Batra, V. (2016). Collapsing glomerulopathy associated with hepatitis B infection: A case report. *Indian Journal of Nephrology*, 26(4), 291-3.
- Singh, M., Sethi, GR., Mantan, M., Khanna, A., Hanif, M. (2016). Xpert® MTB / RIF assay for the diagnosis of pulmonary tuberculosis in children. *International Journal of Tuberculosis and Lung Disease*, 20(6), 839-43.
- Mantan, M., Grover, R., Kaur, S., Batra, V. (2016). Collapsing glomerulopathy associated with hepatitis B infection: A case report. *Indian Journal of Nephrology*, 26(4), 291-3.
- Gupta, A., Mantan, M., & Sethi, M. (2016). Nutritional assessment in children with chronic kidney disease. *Saudi Journal of Kidney Diseases and Transplantation*, 27(4), 733.
- Singh, M., Sethi, G. R., Mantan, M., Khanna, A., & Hanif, M. (2016). Xpert® MTB / RIF assay for the diagnosis of pulmonary tuberculosis in children. *The International Journal of Tuberculosis and Lung Disease*, 20(6), 839-843.

## Research Projects

- Dr. S Yadav, *A seamless, sequential Phase III, randomized, multi centre single-blind study to evaluate immunogenicity, safety, reactogenicity of liquid ROTAVAC 5C formulation of the live attenuated rotavirus vaccine as a 3-dose series when compared with ROTAVAC® in infants.*
- Dr. U Jhamb & Dr. Deepak, project funded by CSIR, *comparison of spontaneous breathing trial with slow weaning in ventilated patients.*
- Dr. M. Juneja, funded by ICMR., *Comparison of caregiver administered behavioural intervention program with weekly versus six-weekly training sessions for children with autism: A randomized trial.*
- Dr. Seema Kapoor, project funded by Govt. of NCT, Delhi., *Antenatal screening of women for thalassaemia status.*
- Dr. Seema Kapoor, *A novel feasibility study of newborn screening for treatable disorders and epidemiologic data generation for inborn metabolic errors in Delhi state.*
- Dr. Seema Kapoor, *Multicentric Collaborative study of the clinical, biochemical and Molecular Characterization of Lysosomal storage disorders in India-The initiative for research in Lysosomal Storage Disorders and Web designing and quality assurance for collaborative study on quality assurance.*
- Dr. Mukta Mantan, (Co- Principal Investigator) for the trial *A seamless, sequential Phase III, randomized, multi center single-blind study to evaluate immunogenicity, safety, reactogenicity of liquid ROTAVAC 5C formulation of the live attenuated rotavirus vaccine as a 3-dose series when compared with ROTAVAC® in infants.*

Dr. D. Mishra, *Comparison of caregiver administered intervention program with weekly versus 6 weekly training sessions for children with autism: A randomized trial.*

### **Seminar / Conference Presentation**

S. Yadav, attended talk (by video-conferencing) on Genetic Cholestatic Disorders in Children by Professor Benjamin Schneider, Chief of Gastroenterology, Hepatology and Nutrition Service, Texas Children's Hospital and Professor of Paediatrics at Baylor College of Medicine, March 5, 2016.

S. Yadav, Assessment and Accreditation of the University by NAAC Self Study Report (SSR) and Evaluative Report (ER) meeting of University of Delhi held on April 12, 2016.

S. Yadav, Presented two Posters at 55 Annual Meeting of the European Society of Paediatric Endocrinology, Sept. 10-12th, 2016, Paris, France.

S. Yadav, Participated in the Adolescent Counselling Workshop at ADOLESCON 2016, Agra, Sept., 2016.

S. Yadav, Organiser and Faculty, How to Write a Scientific Paper, Feb. 10, 2016.

S. Yadav, Chairperson and Faculty, Research Methodology for the Clinician, March 12-13, 2016. Presented Introduction –Why Research Methodology.

S. Yadav, Acute Flaccid Paralysis (AFP) Workshop held on March 31, Departmental Seminar.

S. Yadav, Department of Paediatrics, in association with IAP DELHI organised Nutrition Education Programme on, May 7, 2016.

S. Yadav, Organised as Chairperson Paediatrics Instructional course update Feb. 18 - 20, 2017.

S. Yadav, Chairperson for session on Bedside Neurology at Childneurocon 2017, Feb. 4, 2017

S. Yadav, Organised as Chairperson Workshop on At Risk Adolescent at MAMC, New Delhi, Dec. 2, 2016.

S. Yadav, Chairperson Workshop on New Born screening March, 2017.

S. Yadav, Panelist for Rare disease day as 28 Feb., 2017.

S. Yadav, Invited Guest speaker at Vaccindicon Measles/ MR/MMR – Why and when April 2016 Kolkata.

S. Yadav, Invited Faculty for Thyroid Day Disorders Presented Talk on Thyromegaly, Delhi, May 2016.

S. Yadav, Invited Guest speaker at NEPAS, Kathmandu Presented 2 talks on Vulnerability of Children in Disaster Situations and Growth and Puberty.

S. Yadav, Invited Guest speaker at Vaccindicon, Jaipur, July 2016.

S. Yadav, Invited Guest speaker at Vaccindicon made presentation on Polio End Game Strategy, Aug. 2016.

S. Yadav, Invited Guest faculty Implications of Growth and Puberty at ADOLESCON 2016 at Agra, Chairperson for session on Growth in Adolescents. Judge for Poster session, Conducted.

S. Yadav, Moderator for session on HEADDSSS at PCNI Dec., 2016

S. Yadav, Invited speaker, Newer Emerging Vaccines at 54 National Conference of Indian Academy of Paediatrics (PEDICON 2017), Bengaluru, Jan. 17, 2017

S. Yadav, Invited speaker, for the session on Meet The Experts Unravelling the mysteries What is efficacy, Immunogenicity and Phase I, II and III Trials at 54 National Conference of Indian Academy of Paediatrics (PEDICON 2017), Bengaluru, Jan. 22, 2017.

S. Yadav, Invited talk, on National cyclone mitigation project at the DMG Symposium Theme: Reducing impact of disasters- Leaving no stone unturned! Trials at 54 National Conference of Indian Academy of Paediatrics (PEDICON 2017), Bengaluru, Jan. 22, 2017.

S. Yadav, Chairperson for session on Bedside Neurology at Childneurocon 2017, Feb. 4, 2017.

S. Yadav, Faculty and Chairperson for VI Practical Paediatric Endocrine workshop, Kanpur, Feb. 25- 26, 2017

S. Yadav, Panelist for Rare Disease Day as Feb. 28, 2017.

S. Yadav, Panelist for Clinical Scenarios Paediatric Liver Diseases, Organised by Institute of Liver and Biliary Sciences, March 4, 2017.

S. Yadav, Expert for Paediatric Faculty interview at BR Ambedkar Hospital, March 2017.

S. Yadav, Expert Faculty for Faculty interview at North Delhi Medical College, March 2017.

S. Yadav, Lecture on Monitoring of ventilated patient in Workshop on Mechanical Ventilation at Hindu Rao Hospital, Delhi, March 20, 2016.

S. Yadav, Faculty for simulation based training in emergency paediatrics (STEP) workshop of paediatric intensive care society at Berkeley Health education on July 9& 11th, 2016. Talk on management of acute Asthma in emergency, Simulation stations on Asthma management, difficult communications, Traumatic brain injury.

D. Mishra, Invited Faculty for 2-day 'Art & Science of Paper Writing', Workshop Organised by Indian Paediatrics at Apollo Hospital, Delhi (Sept., 2016) and SGRD Medical College, Amritsar (Dec., 2016).

D. Mishra, Invited Faculty for 3-day 'Thesis Writing and Research Methodology' Workshops for Faculty conducted by National Board of Examination at Delhi (April, 2016), Hyderabad (Aug., 2016) and Pune (Sept., 2016).

D. Mishra, Invited Faculty for 3-day 'Research Methodology' Workshops conducted by Indian Paediatrics at Lady Hardinge Medical College, Delhi, on 16-18 Sept., 2016.

A. Agarwal, Extended Essential Vaccinology course, at Hotel Westin Sohna, 19- 22, Feb..

A. Agarwal, Organised 11 Monthly Clinical Meetings IAP Delhi 2016.

A. Agarwal, IAP Derma Summit held at Sir Ganga Ram Hospital, New Delhi, attended by 65 delegates, May 22, 2016.

A. Agarwal, Nutrition Education Program (NEP) held at Mata Chanan Devi Hospital, New Delhi, attended by 40 delegates, Sunday, June 12, 2016.

A. Agarwal, Development for all-Cradle to Crayons & beyond Workshop held at Jaipur Golden Hospital, Rohini, July 31, 2016.

A. Agarwal, FBNC at Bhopal Jan. 5- 8, At Ranchi Jharkhand 7-10 May, Safdurjung Hospital 15-18 May, Jabalpur 1-4 Sept.

A. Agarwal, NRP at Kolkata, 8 June.

A. Agarwal, CME on Rabies prevention at Hedgwar hospital, April 27; Oct. 25, Mewat Medical College.

A. Agarwal, U. Jhamb, Lecture on Management of shock on paediatric surgery update (25-28.2.16) at LNH, Feb. 25, 2016.

M Juneja, Talk on Autism – Diagnosis in India at 7 AOCN Conference, Lucknow, Feb., 2016.

M Juneja, Talk on ADHD & ASD: Indian Screening Tools for Office Practice at Paediatric Conference of North India 2016, Dec. 2016.

M Juneja, Talk on 'Pharmacotherapy of ADHD 'during Childneurocon , Annual Conference of Association of Child Neurology, Delhi, Feb. 4, 2017.

M Juneja, Lecture on Slow child – early diagnosis, Management and counseling in Video Conference, Feb. 6, 2017 as per the invite from National Training Academy Employees' State Insurance Corporation.

M Juneja, Moderated a Panel discussion on Mucopolysaccharidosis during the celebration of 'Rare Disease Day' organised by genetics unit, department of Paediatrics, MAMC, Feb. 28, 2017.

M Juneja, Faculty for Paediatric Update , Organised by Deptt of Paediatrics, MAMC, Feb. 16-18, 2017 Cases on CP, TBM, and Panelist on Basic Neuro-physiology.

M Juneja, Talk on Genetics Education for Undergraduate medical education in Asia in the conference and being Organised by 13th International Congress of Human Genetics ICHG 2016, Kyoto, April 3-7, 2016.

M Juneja, Talk in UP Pedicon in Meerut on the occasion of 37 Annual conference of the IAP, Uttar Pradesh on IEM simplified- treatable ones and Hope Oct. 16, 2016.

M Juneja, Talk on the eve of NAARCHI on Newborn Screening, Oct. 23, 2016.

M Juneja, Talk on 8 National Thalassemia Conference in association with Department of Haematology, A.I.I.M.S at Jawahar Lal Auditorium, AIIMS, New Delhi on Approach to Prevention among known carriers, Dec. 17& 18, 2016.

M Juneja, Lecture in workshop on fetal autopsy & cadaveric skills at Department of Anatomy Maulana Azad Medical College, New Delhi on Genetic lessons learnt from fetal autopsy, Feb. 20 – 21, 2017.

M Juneja, Guest lecture on IAP Consensus meeting on Fragile X syndrome at Siddharth Hotel on Fragile X spectrum disorders, Feb. 25, 2017.

M Juneja, Organised Paediatric Instructional course (MAMC Paediatric Update) at Maulana Azad Medical College, March 16 – 18, 2017.

M Juneja, Organised 8th International Rare Disease Day at Maulana Azad Medical College, New Delhi, March 28, 2017

M Juneja, Lecture on CME on Inborn Error of Metabolism at IMS-BHU on Newborn Screening and Management of IEM, March 26, 2017.

M Juneja, Lecture on ISOPARB Preconference Fetal Medicine Workshop at Indian Habitat Centre on Genetic Counseling, April 7, 2017.

M. Mantan, Chairperson for the session on Refractory Rickets in the Masterclass at the 17 Congress of International Paediatric Nephrology Association held at Iguacu, Brazil, Sept. 20-24, 2016

M. Mantan, Moderator for the panel discussion on Renal replacement therapy and beyond in the Paediatric Conference of North India held at India Habitat Centre, New Delhi, Dec. 3th-4, 2016

M. Mantan, Discussant for the panel discussion on CKD and KDIGO at the 28 Annual Conference of Indian Society of Paediatric Nephrology held at Cuttack, Odisha, Dec. 10-11, 2016.

M. Mantan, Panel discussant for the session Dilemmas in Management of UTI: a Paediatrician's Perspective of IAP Delhi Monthly Clinical Meeting held at VMMC & Safdarjang Hospital, New Delhi, 17 March, 2016.

M. Mantan, Moderated a session on Vitamin D: The ultimate super Pill? at the Current perspectives in Management held at Apollo Hospital, New Delhi, Oct. 16, 2016.

M. Mantan, Talk, Role of chemoprophylaxis in VUR at the 9 Paediatric Surgery Update, Maulana Azad Medical College and Lok Nayak Hospital, New Delhi, Feb. 25-28, 2016.

### **Extension and Outreach Activities**

Talks on All India Radio and Doordarshan by Dr. AP Dubey and Dr. S Yadav

Conducted Workshop for School Adolescents by Dr. S Yadav

### **Other Significant Information**

Faculty members are Experts and Examiners for MBBS, MD and DNB Examinations in various University examinations:

Dr. S. Yadav: Member of ACVIP in Indian Academy of Paediatrics; Expert for Paediatric Faculty interview at BR Ambedkar Hospital, March, 2017; Expert for Faculty Selection Interview at North Delhi Medical College, March, 2017.

Dr. S. Kapoor: Member of the Rare Disease Committee at Delhi Govt. and Central Govt. Level; Member of RBSK group on Down's Syndrome.

Dr. D. Mishra, Managing Director in Indian Paediatrics.

Dr. A. Agarwal, Secretary, Indian Academy of Paediatrics, Delhi.

**Faculty Strength – 13**

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## **PAEDIATRICS (UCMS)**

### **Major Activities and Achievements**

The Department has 200 beds including 36 bedded Level-III NICU. Department runs a state of art Thalassaemia Day Care Centre with Iron Chelation Therapy facility. The Paediatrics Casualty is well equipped to treat all childhood emergencies. The department has started providing specialized services to the community by establishing a Child Development Clinic as well as a Hemophilia Day Care Centre. Neonatal intensive care unit

practices universal breast milk feeding which is a remarkable achievement. All research work is being done on basic health problems relevant to our country. Three students who did research in the department presented their papers in the Annual National Conference of IAP and two of them won Gold Medals. The department provides teaching to students of Ali Yavar Jung National Institute for Hearing Handicapped, Govt. of India as well; and in-service Training to Nurses and Medical Officers under RCH Programme, Govt. of India. Some of the faculty members were placed as Technical Experts in various committees/commissions at national level.

### **Honours / Distinctions**

Dr. P Gupta:

Awarded Pedicon Theme Oration, Indian Academy of Paediatrics, Raj Pedicon, Mount Abu, Rajasthan, Nov. 19, 2016.

Chairperson, Project Review Committee, Child Abuse and Neglect. Indian Council of Medical Research, New Delhi

Chairperson, Project Review Committee, Childhood Injuries, India Council of Medical Research, New Delhi

Member, Project Review Group, Child Health, Indian Council of Medical Research, New Delhi

Dr. P Batra:

Membership of Academy of Medical Sciences (MAMS), Oct, 2016.

National Coordinator for FACEE – PEM (Fellow Academic College of Emergency Experts: PEM) under the aegis of INDO-US Emergency and Trauma Collaborative in collaboration with AIIMS, New Delhi for fourth year.

Examiner for oral board examination for fellowship of Emergency Medicine at AIIMS, New Delhi.

Examiner for fellowship of National Neonatology Forum at UCMS, Delhi.

Dr. M Narang, Member Ethical Committee for Research in Animals

### **Publications**

Agarwal, E., Shah, D., Gupta, P. (2017). Dengue fever triggering Kawasaki disease. *Indian Paediatrics*. 54, 51-2.

Alwadhi, V., Dabas, A., Aggarwal, A., Faridi, M.M.A. (2016). Pain abdomen in a child – An uncommon cause. *Indian Journal of Child Health*. 3(4), 351-352.

Arora, V., Aggarwal, A., Verma, S., Narang, M. (2016). Cause of bone marrow suppression in a child. *IJMPCR*, 8(2), 1-4.

Arora, V., Aggarwal, A., Verma, S., Narang, M. (2016). Linezolid therapy cause of bone marrow suppression in a child. *International Journal of Med. and Pharma. Case Reports*. 8(2):1-4.

Bansal N., Aggarwal, A., Faridi, M.M.A., Sharma, Tusha., Banerjee, B.D.(2017). Association of lead levels and cerebral palsy. *Global Paediatric Health*, 4, 1-6.

Bansal, N., Aggarwal, A., Wadhwa, N. (2016). HIV infection in child presenting as Hemophagocytic Lymphohistiocytosis. *Ann. Clin. Case Rep.*, 1, 1069

Bedi, N., Gupta, P. (2016). Antimicrobial stewardship in paediatrics: An Indian Perspective. *Indian Pediatr*. 53, 293-8.

Gera, M., Kalra, S., Gupta, P. (2016), Caffeine intake among adolescents in Delhi. *Indian J Community Med.*, 41, 151-3.

Gomber, S., Jain, P., Sharma, S., Narang, M. (2016), Comparative efficacy and safety of oral iron chelators and their Novemberele combination in children with Thalassaemia. *Indian Pediatr.*, 53, 207-210.

Goswami, E., Batra, P., Khurana, R., Dewan, P. (Mar 2017), Comparison of temporal artery thermometry with axillary and rectal thermometry in full term neonates. *Indian J Pediatr.*, 84(3):195-199. doi: 10.1007 / s12098-016-2259-z. Epub 2016.

- Gupta, P., Dewan, P., Shah, D., Sharma, N., Bedi, N., Bansal, A.K., Kaur, I.K., Madhu, S.V. (2016), Vitamin D supplementation for treatment and prevention of pneumonia in under-five children: A Randomized double blind placebo controlled trial. *Indian Paediatrics*. 53, 967-76.
- Gupta, P., Narang, M., Gomber, S., Saha, R. (2017). Effect of quinine and artesunate combination therapy on platelet count of children with severe malaria. *Journal of Paediatrics and International Child Health*, 37(2), 139-143.
- Gupta, S., Kalra, S., Kaushik, J.S., Gupta, P. (2017). Content of food advertisements for young adolescents on television. *Indian J Community Med.*, 43-5.
- John, T.J., Gupta, P. (Aug 7, 2016). Celebrating India's achievements towards polio eradication. *Indian Pediatr.*, 53, (1), S1.
- Kalra, S., Dewan, P., Batra, P., Sharma, T., Tyagi, V., Banerjee, B.D. (2016). Organochlorine pesticide exposure in mothers and neural tube defects in offspring. *Reprod. Toxicol.*
- Kalra, S., Gupta, P. (2016). Generics Drugs – Are they really equivalent to brands. *Indian Pediatr.* 53, 533.
- Khurana, R., Aggarwal, A., Dabas, A., Gupta, N. (2017). Massive hepatomegaly in a neonate: an unusual cause. *Int. J Contemp. Pediatr.*, 4, 274-5.
- Kumar, S., Aggarwal, A., Dabas, A., Roy, A. (2017). Recurrent meningitis with unusually delayed cerebrospinal fluid leak detected by magnetic resonance cisternography. *Neurol. India*. 65(1), 201-202.
- Kumar, S., Dabbas, A., Aggarwal, A. (2016). Persistent respiratory distress in an adolescent girl: unusual cause. *Journal of case reports*, 6, 165-167
- Mahajan, P., Batra, P. (May 8, 2016). Training paediatric emergency medicine specialists in India: Authors reply. *Indian Pediatr.* 53(5), 437-8.
- Mahajan, R., Badyal, D.K., Gupta, P., Singh, T. (2016). Cultivating life-long learning skills during undergraduate training of medical students. *Indian Pediatr.*, 53, 797-804.
- Meena, P., Dabas, A., Shah, D., Malhotra, R.K., Madhu, S.V., Gupta, P. (2017). Sunlight exposure and vitamin D status of infants. *Indian Pediatr.*, 54, 105-11.
- Mishra, D., Gupta, P., Singh, T. (2017). Teaching for reducing diagnostic errors. *Indian Pediatr.* 54, 37-45.
- Modi, J.N., Anshu, Chhatwal, J., Gupta, P., Singh, T. (2016), Teaching and assessing communication skills in medical undergraduate training. *Indian Pediatr.*, 53(6):497-504.
- Narang, M., Puri, A.S., Sachdeva, S., Singh, J., Kumar, A., Saran, R.K. (Nov. 15, 2016). Celiac Disease and H. Pylori infection in children: Is there any association? *Journal of Gastroenterology and Hepatology*. [Epub ahead of print]
- Roy, S., Aggarwal, A., Dhanger, G., Aneja, A. (2016). Mercury in vaccines: A review. *Glob Vaccine and Immunol.*, 2(1): doi: 10.15761/GVI.1000119
- Sachdeva, S., Dewan, P., Shah, D., Malhotra, R.K., Gupta, P. (2016). Mid-upper arm circumference vs Weight-for-height Z-score for predicting mortality in hospitalized children under 5 years of age. *Public Health Nutrition*. 19, 2513-20.
- Saurabhi, D., Shambhawi, R., Anju, A., Hema Mittal (2016). Hepatitis A virus infection - Rare presentations in children. *J AntivirAntiretrovir.*, 8, 093-094. doi: 10.4172/jaa.1000141
- Sidhu, J., Dewan, P., Gupta, P. (2017). Maternal and neonatal tetanus: A journey into oblivion. *Indian Pediatr.* 53, 1057-61.
- Singh, T., Modi, J.N., Kumar, V., Dhaliwal, U., Gupta, P., Sood, R. (2017). Admission to undergraduate and postgraduate medical courses: looking beyond single entrance examinations. *Indian Pediatr.* 54, 231-8.
- Sinha, P., Kalra, S., Aggarwal, A., Rathi, V. (2016), Linear nevus sebaceous syndrome with lissencephaly. *Int J Contemp. Pediatr.*, 3:1099-1101.
- Thakur, N., Rai, N., Batra, P. (2016). Paediatric Lupus Nephritis-Review of Literature. *Curr Rheumatol Rev.* (Epub ahead of print)

## Research Projects

Dr. A. Aggarwal, project funded by ICMR, *Association of IL-6 polymorphism with Cerebral Palsy.*

Dr. Sunil Grover, project, *Procalcitonin clearance, CD64, sCD14 and HLA-DR as predictors of outcome in febrile neutrophilic children with lymphoreticular malignancy, Procalcitonin Blovender Czech Republic.*

Dr. Sunil Gumber, project, *Efficacy of twice weekly versus thrice weekly prophylactic factor VIII therapy in children with hemophilia A, Factor-VIII Deficient Plasma, Factor VIII Inhibitor Assay Kit.*

Dr. Deepika Harit, project, *Iron status of exclusively breastfed late preterm infants at six months supplemented with Iron 2mg/kg/day vs. 4mg/kg/day.*

Dr. Perna Batra, project, *Plasma and urinary lactate for diagnosis of sepsis in neonates at risk of vertical transmission.*

Dr. Dheeraj, project, *Etiology and risk factors for hospital acquired diarrhea, Fecal C difficile.*

Dr. Manish Narang, project,, *Clinical profile and outcome in children with liver abscess.*

Dr. Piyush Gupta, project,, *Risk factors, clinical profile, and outcome of severe acute malnutrition in infants below 6 months of age.*

## Seminar / Conferences Presentation

COCEP, May 2017

## Other Significant Information

Dr. Pooja Dewan was appointed as Member-Secretary of the Institutional Ethics Committee (Human Research) for UCMS, Delhi.

## Faculty Strength– 3

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## PHARMACOLOGY (MAMC)

### Publications

Chawla, S., Kumar, S. (2016). Adverse drug reaction monitoring of patients on antipsychotic therapy and their impact on quality of life in outpatients of a tertiary care center in Delhi. *Indian Journal of Psychological Medicine*, <http://www.ijpm.info/aheadofprint.asp>

Chawla, S., Ranjan, A., Singh, N.P., Garg, N., A, Kumar. (2016). Assessment of drug utilization and quality of life in patients of chronic kidney disease in tertiary care hospital. *World Journal of Pharmacy and Pharmaceutical Sciences*, 5(9),1214-1226.

Dahiya, A., Kalra, BS., Saini, A., Tekur, U. (2016). Prescription pattern in patients with rheumatoid arthritis in a teaching tertiary care hospital. *MAMC J Med. Sci.*, 2, 33-7.

Dewangan, G., Mishra, A., Mandal, T. K. (2016). A simple RP-HPLC method for determining imidacloprid residues in goat tissues. *Bio. Med. Res.*, 27 (1), 11-15.

Dharmshaktu, P., Roy, V., Agarwal, M., Daga, M.K., Hadke, N. S. (2016). Surveillance and pharmacoconomics of antimicrobial use among inpatients in a tertiary care, teaching hospital in New Delhi, India: Assessing Need for Policy Formulation. *MAMC Journal of Medical Sciences*, 2,134-140.

Hasan MN, Khan RA, Nasiruddin M, Khan AA (2016). Ameliorative effect of Nigella sativa oil against paracetamol induced hepatic and renal damages in rats. *Br. J Pharm Res*, 13(3), 1-10.

Juneja, S., Kalra, BS., Singhal, S.(2016). Assessment of publications on randomized clinical trials in concordance with CONSORT statement in a teaching tertiary care Hospital. *Indian J Physiol. Pharmacol.*, 60(4), 364–370.

Kalra, BS. (2016). Prescription writing: Time to revisit. *Neurol. India*, 64(5), 1106-8.



Sawachia, K., Sharma, D., Singh, J. (2016). Efficacy of oral vs. intratympanic corticosteroids in sudden sensorineural hearing loss. *J Basic Clin. Physiol. Pharmacol.*, 27(4), 371-7.

Syed, S N., Aslam, M., Chawla, S., Roy, V.(2016). Pharmvigill mobile app for pharmacovigilance programmes: Easy and effective way of assessment of adverse drug reactions. *Drug Safety*, 39(10), 1028

### **Research Projects**

Dr. Vandana Roy, project, *Impact of a short course of rational pharmacotherapy on prescribing skills of undergraduate students: A pilot study.*

Dr. Vandana Roy, Dr. Shariq Naem, project, *Impact of Pharmacology Teaching on students knowledge and skills in rational pharmacotherapeutics.*

Dr. Vandana Roy, Dr. Shubha Singhal, project, *Knowledge, Attitude and Perception of Health Care Providers as regards Indian systems of Medicines in a Tertiary care Hospital.*

Dr. Vandana Roy, project, *Prescribing practices and availability of essential medicines in public health facilities under Government of Delhi.*

Dr. Vandana Roy, Dr. Proteesh Rana, Dr. Seema Kapoor, Dr. Ashwini Khanna, project, *To evaluate co-morbid depression in newly diagnosed patients with tuberculosis in the DOTS clinic of LN Hospital.*

Dr. Vandana Roy, Dr. Shalini Chawla, Dr. M K Daga, Dr. Vikram Jit Singh, project, *Drug utilization patterns, adverse drug reactions, cost and appropriateness of prescribed medicines with quality of life assessment in geriatric inpatients.*

Dr. Shalini Chawla, Dr. Bhupinder Kalra, Dr. Sidhartha Srivastava, Dr. Ayush Jain, project, *Effect of sofosbuvir and daclatasvir on lipid profile, glycemic control and quality of life index in chronic hepatitis C, genotype 3 patients.*

Dr. Uma Tekur, Dr. Bhupinder Kalra, Dr. Devender Kumar, Dr. Sahil Kumar, project, *Mefenamic acid and diclofenac in the treatment of menorrhagia and dysmenorrhoea in dysfunctional uterine bleeding – a randomized comparative study.*

Dr. Shalini Chawla, Dr. Vandana Roy, Dr. Sidhartha Srivastava, Dr. Poonam Lamba, Dr. Sidhartha Dutt, project, *Effect of trimethoprim-sulfamethoxazole / norfloxacin on faecal microbiota, resistance pattern, efficacy and tolerability in patients receiving prophylaxis for spontaneous bacterial peritonitis.*

### **Conferences Organised**

Pharmacovigilance for patient safety for doctors and nurses working in Maulana Azad Medical College & Associated Hospitals, Feb. 18, 2016.

Improving availability and rational use of medicines for doctors in Delhi Government Health Facilities, March 30-31, 2016.

Workshop on Rational Pharmacotherapy for improving prescribing competency”, for medical undergraduate students of Maulana Azad Medical College, New Delhi, May-June, 2016.

5th CME on Pharmacovigilance for Patient safety for health care providers working in Maulana Azad Medical College & associated Hospitals, Nov. 26, 2016.

Dr. Vandana Roy Chaired and Coordinated the cultural festival MAMC SPIC MACAY VIRASAT 2016.” This was Organised with collaboration with Society for Promotion of Indian Classical Music, Art and Culture Amongst Youth. The week long festival was held from April 4 to 10 April, 2016.

### **Seminars / Conference Presentation**

Vandana Roy, Participated and presented a paper Students Assessment as a tool for Curriculum Change: Impact on learning Outcomes. National Conference on Health Professions Education (NCHPE) Pramukhswami Medical College, Karamsad, Gujarat, Nov. 23- 26, 2016

Vandana Roy, Presented a talk on Need for Pharmacovigilance in a 5 CME Workshop Pharmacovigilance for Patient safety for doctors and nurses working in Maulana Azad Medical College & Associated Hospitals, Dec. 1, 2016.

Vandana Roy, Public Health Discussion on Self medication, Programme on All India Radio (AIR) Public Health Sanjivni Phone Run in Program, Oct. 7, 2016.

Shalini Chawla, Presented paper in National Medicine Symposium (NMS 16), Canberra, Australia, May 20, 2016.

Shalini Chawla, Guest lecture on Pharmacovigilance at PDM Dental College and Research Institute, Bahadurgarh on Oct. 9, 2016.

Shalini Chawla, Talk on Use of Drugs in Sports: An Anti-Doping Perspective conducted by NADA on Oct. 17, 2016.

Shalini Chawla, Resource person for Workshop Equivalence procedures and Bridging concepts for Crop protection Products on Nov. 15-16, 2016

Vandana Tayal, Lecture on Medication errors in 5 CME on Pharmacovigilance for patient safety held at Dept. of Pharmacology, MAMC, Dec. 1, 2016.

### **Placement Details**

Number of students placed – 3

### **Extension & Outreach Activities**

#### **i) Monitoring of Adverse Drug Reactions**

Department of Pharmacology, MAMC is a recognized center for monitoring adverse drug reactions under the Pharmacovigilance Programme of India, Indian Pharmacopoeia Commission, Ministry of Health and Family Welfare, Government of India. The Department has reported 90 Individual case Safety Reports (ICSRs) to the

ii) National Pharmacovigilance Centre for reporting to the International Centre for Pharmacovigilance at Uppsala, through Vigibase in 2016.

A total of 83 doctors, pharmacists, nurses from the hospitals were sensitized and trained about pharmacovigilance by the Department.

#### **iii) Formulation of Standard Operating Procedures for Pharmacy Management in Delhi Government Hospitals**

Dr. Vandana Roy Chaired a committee that was assigned the task of formulating Standard Operating Procedures for Management of Pharmacy (Medicine Procurement, Storage, Use and Disposal) for Delhi Government Health facilities. As part of Quality assurance Program of the State Health Mission.

#### **iv) Training doctors in Rational Use of Medicines in Delhi Government Health Hospitals.**

A total of 56 doctors working in Public hospitals under Government of Delhi, were trained in improving availability and rational use of medicines.

The Department is taking care of the College Animal House. A new Veterinary Surgeon Dr Akhilesh Mishra has been appointed as Veterinary Officer and the Animal House has started becoming functional as per Committee for Prevention of Cruelty and Supe

### **MD Degrees Awarded – 3**

### **Faculty Strength – 5**

### **Other Significant Information**

Innovations in under graduate teaching:

The Department has added two new activities in the MBBS teaching program. These activities are an important addition in the teaching curriculum, as they are being implemented even with an extreme shortage of faculty in the Department.

i) Engaging with Pharmacology- Small group, team based, active learning– In this groups of students are made to work on Pharmacology topics in teams. The learning is to be by the process of active learning. The students make oral presentations, posters, models. This teaching method has been started to encourage the self learning amongst the undergraduate students, as well as to make the subject of Pharmacology more interesting to them. The faculty members and residents supervise and guide the students. Senior faculty from outside the college is invited to assess and judge the students.

ii) Student Feedback and Self Assessment program (SFSAP) - A Comprehensive, feedback program for the MBBS students in Pharmacology has been started. The students are being shown detailed records of their formative assessments at regular intervals. They are asked for reasons for their performance. Guidance is provided to them on how they can improve.

Dr. Vandana Roy:

Member Core Working Group on Antimicrobial Resistance to oversee and coordinate policy decisions and activities relating to antimicrobial resistance (AMR), Government of India, Ministry of Health & Family Welfare, 2016.

Member Expert Committee for Regulation of newer anti tuberculosis drugs. Directorate General Health Services, Ministry of Health & Family Welfare, Government of India.

Expert member of committee for drugs for vector borne disease program, Ministry of Health and Family Welfare, Government of India.

Chairperson, Committee for formulating Standard Operating Procedures for Pharmacy management in Delhi Government Hospitals. Quality Assurance Initiative, Ministry of Health & Family Welfare, Government of NCT of Delhi. 2016.

Nominated member in the Technical advisory Committee for Immunization for Delhi State. Ministry of Health & Family Welfare, Government of NCT of Delhi, 2016.

Member, Subject Expert Committee to advise Drugs Controller General (India), DCGI in matters for review of applications of new drugs and clinical trials, new medical devices (Central Standards Control).

Member Department Research Committee, Department of Pharmacology, University of Delhi.

Member Courses Committee for Pharmacology, University of Delhi.

Member Secretary, Drugs & Therapeutics Committee of Lok Nayak Hospital.

Chairperson and Convener, Dissection Monitoring Committee for Maulana Azad Medical College.

Coordinator, Adverse Drug Reaction Monitoring Centre (AMC) for Maulana Azad Center under the National Pharmacovigilance Programme of India.

Chairperson & Coordinator, Maulana Medical College Committee for Pharmacovigilance.

Chairperson & Faculty Coordinator of MAMC- SPIC MACAY Committee (Society for Promotion of Indian Classical Music, Arts and Culture amongst Youth).

Member Secretary, Committee for Complaints of Sexual Harassment in Maulana Azad Medical College (since 2008)

Officer In charge Animal House, Maulana Azad Medical College.

Officer In-charge of Lecture Theatres, Maulana Azad Medical College.

Member Core Committee of Revised National tuberculosis Control Program (RNTCP), Maulana Azad Medical College.

University Examiner in Pharmacology for M.B.B.S / Post graduate M.D.

Examiner for thesis and Paper setter for MBBS examinations and MD examinations for other Universities.

Expert on Interview panel for selection of pharmacists to Jankpuri Super Speciality Hospitals

Expert on Selection Committee for selection of Assistant Professors for ESI Medical College (West Bengal).

Member Committee for selection of candidates for post of senior residents on regular basis in Pharmacology.

Reviewer of scientific papers for journals

Dr Shalini Chawla:

Expert for the appointment of Senior Technical Data Associates at CDSCO HQs.

Member of selection committee for the post of Assistant Professor (3 year BDS course) at Jamia Milia Islamia on 3 Aug., 2016.

Member of selection committee for the post of Professor and Associate Professor Pharmacology at Jamia Hamdard University on Aug. 8rd, 2016.

External Expert for conducting the Annual Assessment Promotion Scheme of faculty of JIPMER for promotion to their next level from the department of Pharmacology, Aug. 21,2016.

Chairman of Expert Committee constituted by Central Insecticides Board and RC for finalization of Toxicological Protocol for data generation for registration of bio-pesticides.

Expert Member of Gazette notified Scientific Panel for pesticides and Antibiotic Residues constituted by FSSAI.

Chairperson of committee formed by Government of India to suggest minor changes in formulation of pesticides.

Member of expert committee on registration of Biopesticides.

Member of expert committee to make amendments / frame rules for the appointment of Joint Director / Deputy Director / Assistant Plant Protection Officer for DTE of Plant protection Quarantine and Storage.

Member of Medical Board for redressal of district consumer disputes forum (West) for which meetings held in the office of deputy medical superintendent, LNH.

Member of Doctoral Committee in respect of Department of Pharmacology, Faculty of Pharmacy, Hamdard University.

Member of Subject Expert committee (SEC) constituted by DCGI to advice drugs Controller General India, in matters related to approval of (a) Clinical trials (b) New drugs and (c) New medical devices.

Member of Expert committee to seek advice on DEGEE used as excipient in diclofinaec injection regarding safety and tolerability.

Member of Therapeutic Use Exemption Committee (TUEC), National Anti-dope Agency, CGO Complex, New Delhi

Internal Expert for the appointment of Senior Residents for Department of Pharmacology, on regular basis.

Deputy Coordinator of Adverse Drug Reaction Monitoring Centre (ADRMC)of Maulana Azad Medical College and Associated Hospitals .

Member Secretary of Pharmacovigilance Committee of MAMC & Associated hospitals.

Member of Institute Ethics Committee, Maulana Azad Medical College and Associated Hospitals.

Member Secretary, Institute Animal Ethics Committee, Maulana Azad Medical College and Associated Hospitals .

Member of Courses Committee, Department Of Pharmacology, Delhi University.

Expert for setting, validation and assessment of Question bank for National Board of Examination, Dwarka, New Delhi.

Member on the Panel of National Board of Examination for correction of DNB Theory papers.

Assessor for Accreditation: DNB Pharmacology- College of Medicine and JNM Hospital, Kolkata.

Member of the Expert Committee to re-examine the proposal to manufacture and market Kallikrein Injection by M/s Bharat Serum and Vaccines Limited indicated for the treatment of cerebral stroke

Dr Bhupinder Singh:

Member of Institutional Animal Ethical Committee, Maulana Azad Medical College and Associated Hospitals, New Delhi.

Member of Hospital Infection Control Committee, LN Hospital, Delhi

Member of Antibiotic Policy Committee, LN Hospital, Delhi

Dr Vandana Tayal, Member Secretary, Dissection Monitoring Committee for Maulana Azad Medical College, 2015.

Supervision of Experiments on Animals (CPCSEA) guidelines.

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## PHARMACOLOGY (LHMC)

### Major Activities and Achievements

The Department has contributed significantly during this term for progress of discipline. Dr. H. S. Rehan has been awarded Commonwealth Fellowship tenable at School of Pharmacy, Medicine and Health at Durham University, UK. The post graduate students of the department have won three Best Paper Awards in national and international conferences. A total of four research papers have been published in peer reviewed PUBMED indexed national and international journals. Dr. H.S Rehan, Director-Professor and Head of the department, served as member of subject expert committee of CDSCO in various disciplines, dissection monitoring committee of UGC. Dr. Lalit Kumar Gupta, Director-Professor of the department, served as an expert in National Anti-doping agency. The department in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is regarded among the top five national centres in terms of adverse drug reaction monitoring.

### Honours / Distinctions

Postgraduate students won national level pharmacology quiz at ISRPTCON-2017 at Raigarh, Chattisgarh.

### Publications

Gupta, A., Gupta, L. K., Rehan, H. S., Prakash, A. (2017). Response to inhaled corticosteroids on serum CD28, quality of life, and peak expiratory flow rate in bronchial asthma. *Allergy Asthma Proc.*, 38, e13–e18, 2017; doi: 10.2500/aap.2017.38.4022

Singh Rehan, H., Sah, R., Gupta, A., & Nagar, P. (2017). An evaluation of indian consumers' reporting of suspected adverse drug reactions with a designated reporting form. *Current Drug Safety*, 12(1), 51-56..

Kumar, S., Pangtey, G., Gupta, R., Rehan, H. S., Gupta, L. K. (2017). Assessment of anti-CarP antibodies, disease activity and quality of life in rheumatoid arthritis patients on conventional and biological disease-modifying antirheumatic drugs. *Reumatologia*, 55, 1, 4-9.

Rehan, H. S., Andley, M., Nagar, P., Maharshi, V. (2016). Unstable angina: A serious adverse event following Gemcitabine-Cisplatin based Chemotherapy. *J Assoc. Physicians India*, 64(9), 85-86.

Grover, A., Rehan, HS., Gupta, LK., Yadav, M. (2016). Correlation of compliance to statin therapy with lipid profile and serum HMGCoA reductase levels in dyslipidemic patients. *Indian Heart J*, <http://dx.doi.org/10.1016/j.ihj.2016.07.007>

Maharshi, V., Rehan, HS., Gupta, LK., Yadav, M. (2016). Comparison of effect of enalapril and losartan monotherapy on quality of life and safety of stage 1 hypertensive patients. *Indian J Physiol Pharmacol*, 60(2), 174-181.

Moitra, S., Sen, S., Das, P., Banerjee, I. (2016). Atorvastatin induced thrombocytopenia: A case report and review of literature. *Med. J.*, 9, 117-2.

Sah, R. K., C.D., Rakhmaji., H.Y., Anita., S.G., Manik., Kulhare, S. (2016). Knowledge and practice of prescribers regarding WHO ethical criteria for drug promotional advertisements. *European Journal of Pharmaceutical and Medical Research*, 3, 522-527.

### Research Projects

Dr. H.S .Rehan, Dr. Lalit, Dr. Madhur Yadav (Guide and Co-guides); Dr. Jahanvi Maini, project, *A prospective study to explore the role of Adipsin in the mechanism of glucose intolerance developed as an adverse effect of statin therapy.*

Ongoing audit of prescriptions in both IPD/OPD of Lady Hardinge Medical College with appropriate interventional strategies.

Patient safety interventions through Pharmacovigilance Programme of India.

### Conferences Organised

Indian Society of Rational Pharmacotherapeutics (ISRPT) Annual Conference, Raigarh (Chattisgarh), 2017.  
3rd International Conference on Lipids. Lipid Association of India, New Delhi, 2016.  
50th Annual Inaugural Golden Jubilee Conference of Indian Pharmacological Society (AIGJCONIPS 2017)

### Inter-Institutional Collaboration

The department participates in the Pharmacovigilance Programme of India in collaboration with Indian Pharmacopoeia Commission, Government of India.

Dr. H.S. Rehan and Dr. Lalit Kumar Gupta serve as member of subject expert committee of CDSCO in various disciplines.

Dr. H.S. Rehan serves as an expert of Dissection Monitoring Committee of UCMS.

Dr. Lalit Kumar Gupta serves as an expert in National Anti-doping agency.

### PhD / M.Phil / MD Awarded

MD (Pharmacology) – 3

### Faculty Strength – 4

### Other Significant Information

The department in collaboration with IPC Ghaziabad is participating in the Pharmacovigilance Programme of India and is among the top five national centres in terms of quantity and quality of Adverse Drug Reaction Monitoring and Reporting.

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## PHARMACOLOGY (UCMS)

### Publications

Agarwal, R., Gupta, R., Bhardwaj, R.K. (2016). Drugs acting on parasympathetic nervous system, In S K Gupta (Ed.), *Drug Screening Methods* (pp 360-368). New Delhi: Jay Pee Brothers Med Publishers.

Gupta, R.. (2016). Analgesics, In S K Gupta (Ed.), *Drug Screening Methods*. (pp 476-494). New Delhi: Jay Pee Brothers Med Publishers.

Gupta, R. (2016). Antiobesity drugs. In S K Gupta (Ed.), *Drug Screening Methods*, (pp 152-169). New Delhi: Jay Pee Brothers Med Publishers.

Gupta, R., Gupta, K., Tripathi, A.K., Bhatia, M.S., Gupta, L.K. (2016). Effect of Mirtazapine treatment on serum levels of brain-derived neurotrophic factor and tumor necrosis factor- $\alpha$  in patients of major depressive disorder with severe depression. *Pharmacology*, 97,184-188.

Khanna, N., Aggarwal, A., Jain, S. (2016). Comparative study to evaluate the efficacy and safety of amoxicillin sulbactam with amoxicillin clavulanic acid in the management of lower respiratory tract infections. *J Int. Med. Ind.*, 11, 5-9.

Kumar, S., Pangtey, G., Gupta, R., Rehan, H.S., Gupta, L.K. (2017). Assessment of anti-CarP antibodies, disease activity and quality of life in rheumatoid arthritis patients on conventional and biological disease-modifying antirheumatic drugs. *Reumatologia*, 55, 4–9.

Mittal, R., Gupta, R. (2016). Anti- HIV drugs. In S K Gupta (Ed.), *Drug Screening Methods* (3<sup>rd</sup> Edn. pp 84-98). New Delhi: Jay Pee Brothers Med Publishers.

Prasad, A., Jain, S., Kumar, M., Rastogi, T., Bhattacharya, S.K. (2016). Effect of N-acetylcystiene on some behavioral and oxidative stress parameters in sleep deprived mice. *Int. J of Recent Trend Sci. Tech.*, 19 (3), 404-409.

Ranjan, A., Tripathi, A., Saurabh, A., Kalaiselvan, V., Gupta, R., Gupta, S.K., Agrawal, S.S. (2016). Signal Detection in Pharmacovigilance, An Application of Subjective Bayesian Inference. *J Adv. Pharmacoepid Drug Safety*, 4, 207-211.

### **Seminar / Conference Presentation**

Bhardwaj P., Jain S., Gupta R, Halder S., Drug utilization study of psychotropic drugs in common mental disorders. Feb. 9-11th2017, International Conference on recent advances in Cardiovascular research VPCI, Delhi.

Gautam S. R., Jain S., Mediratta P. K., Banerjee B. D. Protective effect of N-acetylcysteine on dipentylphthalate induced cognitive dysfunctions and oxidative stress in mice. Feb. 9-11, 2017, International Conference on Recent Advances in Cardiovascular Research VPCI, Delhi.

Gupta, R., Ghosh, R., Ghosh, M. S., Bhatia, Tripathi, A. K. Effect of fluoxetine on stress biomarkers in patients of major depressive disorder. IPSCON2016, Feb. 21-23, 2016, Chandigarh.

Tafseer S., Gupta R., Jain S., Bhatia M. S. Efficacy and safety study of Escitalopram in patients with major depressive disorders. Feb. 9-11, 2017, International Conference on Recent Advances in Cardiovascular Research VPCI, Delhi.

### **Faculty Strength – 3**

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## **PHYSIOLOGY (MAMC)**

### **Major Activities and Achievements**

The department is engaged in teaching with nine faculty members. In addition to teaching, the department is also engaged in research and administrative work. The department co-ordinates the internship programme of the institute for MBBS students. The doctors and faculty has been honoured with prestigious awards and have contributed in writing books (68 books with 34 titles). Doctors are regularly invited to share their views and lectures in different areas of medicine.

### **Honours / Distinctions**

Dr. Ajay K. Jain:

Awarded with a prestigious award for writing six books in a year.

Guest of Honour award for delivering plenary lecture at AIIMS.

Appointed as an expert member of selecting faculty positions in Physiology for various U.P. Medical Colleges by Public Service Commission, Allahabad, U.P.

Appointed as the panel of experts for Selection Committee for recruitment of Specialist of Punjab (Amritsar University).

Appointed as an advisor of panel of D.J. College of Dental Sciences and research, Modinagar (U.P.).

Appointed as an panel of expert at HAMRC Research Advisory Committee DIPAS, New Delhi and as an examiner for National Board of Examiners New Delhi.

Appointed as Member of Board of Examiners for evaluation of post graduate thesis at Amritsar, Allahabad and Rajasthan University.

Appointed as Honorary Inspector Medical council of India (MCI), New Delhi.

Life Member for association of Physiologist and Pharmacologist of India.

Member of undergraduate and Post graduate syllabi committee, Medical Council of India, New Delhi.

Expert Member of selecting faculty positions in Physiology for ESI hospital, Rohini, New Delhi.

Advisor for the *Physiotherapist Post Journal*, Banarsidas Chandiwala Institute of Physiotherapy, Kalkaji, New Delhi.

Advisor for IPH, New Delhi ethical committee, curriculum framing.

Member- editorial board of MAMC *Journal of Medical Sciences*.

Dr. V. P. Varshney, Member of U/G and P/G Cell for approval of thesis/protocols.

Dr. Daya R. Haldwani, Member of MCI and National Board of Examination; and appointed as MCI Inspector.

Dr. Preeti Jain, appointed as an expert for various MCQ validation workshops of different post-graduate entrance examinations by National Board of Examinations, New Delhi; and appointed as an expert by ICMR for reviewing STS proposals and project reports.

### **Publications**

Haldwani, D., Yadav, A., Rathore, P. K., Tandon, O. P. (2016). Brainstem auditory evoked potential responses in primary hypertensive patients and its correlation with MABP. *International Journal of Therapeutic Applications*, 32, 28-34.

Raj, V., Jain, A. K., Haldwani, D., Bhadoria, D. P. (2016). Prevalence of exercise induced bronchial lability in normal first degree relatives of asthmatic patients by detailed pulmonary function tests. *International Journal of Health Sciences and Research (IJHSR)*, 6, 112-117.

Mahaur, R., Mahajan, A. S., Jain, A. K., Singh T., Dhanwal, D. K., Gupta, M. (2016). Role of event related potential in evaluation of cognitive function in subclinical hypothyroid patients. *MAMC J Med. Sc.*, 2, 43-7.

Jain, S., & Jain, P. (2016). Assessment of psychological health of first year medical undergraduate students - a longitudinal study. *International Journal of Scientific Research*. 5, 69-71.

Nim, S., Gautam, M., Krishana, B. (2016). Enhanced neuroprotection of the striatal dopaminergic neurons by Baicalcein in 6-OHDA-treated age rat. *International Journal of Science Engineering and Technology*.4

### **Research Projects**

Dr. Preeti Jain:

ICMR STS, *Acute influence of exercise on smoking urge, affect and cognitive performance of Indian male smokers during temporary abstinence from smoking.*

Supervisor of M.D. Thesis, *To study the influence of gaming on cognition in young adults.*

Dr. VP Varshney & Dr. Mona Bedi:

*Physiology of handwriting and its application in the identification process.*

*Role of Acupuncture in treating patients of low backache.*

*A study of ANS and lipid profile in first degree relatives of Type 2 Diabetes Mellitus.*

### **Seminar / Conference Presentations**

Damor Robinson, 28th Annual National Conference of Physiological Society of India (PHYSICON-2016) held at Midnapore (WB) from 18 to 20 Nov., 2016.

VP Varshney, International Workshop on 'Nerve muscle disorders' at GBPH (GIPMER), MAMC, Feb 17-19, 2017, New Delhi.

Bal Krishana, Pain physiology-from perception to alleviation on 11 Aug., 2016 by Association of Physiologists of Haryana.

Daya R. Haldwani, Conduct of NEET PG 2017 on 25 Oct., 2016 at DNB office, Dwarka, New Delhi.

Daya R. Haldwani, Indigenous Technologies Developed under DST and promoted by National hub for health care instrumentation developed (NHHID), Anna University, Chennai, Organised by Department Of Physiology, AIIMS, 27 March 2017, New Delhi.

Daya R. Haldwani, 2<sup>nd</sup> Annual conference of association of physiologist of Haryana. Organised by Department Of Physiology, ESIC Medical College & Hospital, 4 & 5<sup>th</sup> March 2017, Faridabad.

Aarti S. Mahajan, 41st, 42nd, 43rd mini-Workshop: Revised Basic Course Workshop May, Aug, Sept., 2016.

Aarti S. Mahajan, 44th mini-Workshop on Educational Science Technology for Senior Residents, 1-3 Feb, 2017.



Aarti S. Mahajan, 45th mini-Workshop on Educational Science Technology for Senior Residents, 15-17 Feb, 2017.

Aarti S. Mahajan, 70th NTTC course in Medical Education Technology for faculty, 7-17 March, 2017.

Mona Bedi, International Workshop on 'Nerve muscle disorders' at GBPH (GIPMER), MAMC, Feb. 17-19, 2017, New Delhi.

### **Other Significant Information**

Dr. Daya R. Haldwani: tutorial Officer Incharge of 1<sup>st</sup> MBBS students; Store Officer Incharge, Department of Physiology, MAMC; Member of Local Purchase Committee (Sports Karamchari Union); Member of local purchase committee for purchase related to telephone instruments; appointed as Observer in Synapse 2016, MAMC, appointed as Paper setter in SGT Medical University, Gurgaon, Haryana.

Dr. Aarti S. Mahajan: Member-graduate reception committee and annual report committee for Annual Day; Member-Management committee for orientation programme of new entrants.

Dr. Mona Bedi: Library officer of Central Library; Incharge of Animal House (Department); Member of Grievance committee, MAMC; O / I of Autonomic Lab; O / I of Residents.

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## **PHYSIOLOGY (UCMS)**

### **Major Activities and Achievements**

The department is actively engaged in the basic and applied research in the fields of cardiovascular, respiratory system, neurophysiology, clinical electrophysiology including evoked potential, environmental and work place physiology, pain and behaviour physiology. The department helps in B.Sc. (Medical Technology)-Radiography, B.Sc. (Physiotherapy) and open school classes. Among the useful tests conducted in the department are VEP, NCV, P300, BERA, ECG, EMG autonomic function tests, and pulmonary function test. The department is also involved in patient care and these investigations cater to the needs of department of paediatrics, ENT, ophthalmology, medicine and anesthesiology. The department has started a Yoga and Lifestyle intervention clinic in collaboration with CCRYN (AYUSH, Min. of Health, Govt. of India) which caters to the patients and staff suffering from various diseases like hypertension, CAD, diabetes, thyroid dysfunction, asthma, and neurological problems. The clinic has already helped more than 1000 patients since its inception. Acupressure therapy has also started. The department has introduced Problem-Based Learning (PBL) and Objective Structured Practical Examination (OSPE). Evaluation results of these programmes have been presented in various conferences and workshops.

### **Honours / Distinctions**

Dr. Singh Satendra:

State Award by the Government of Delhi for exceptional achievement by a person with disability in the field of social work in 2016 on the eve of World Disability Day, Dec , 2 2016.

Swachh Ability Award by Union Defence Secretary for rising above personal challenges and contributing to the society on the culmination of SwachhAbility Run Organised by India's first Blade Runner, Dec 4 2016.

Karamveer Chakra and REX global fellowship 2016, instituted in association by the United Nations and Confederation of the country's NGOs (iCongo) for working on social justice and action, Nov 27, 2016.

### **Publications**

Haldwani, D.R., Yadav, A., Rathore, P.K., Tandon, O.P. (2016). Brainstem auditory evoked potential responses in primary hypertensive patients and its correlation with mean arterial blood pressure. *Int. J Therap. Appl.*, 32, 28-34.

Indora, V., Khaliq, F., Vaney, N. (2017). Evaluation of auditory pathway in traffic policemen. *Int. J Occup. Environ. Med.*, 8, 108-115.

Joshi, A., Singh, S., Jaswal, S., et al. (2016). Concept Maps: A tool for knowledge management and synthesis in web-based conversational learning. *Int J Appl. Basic Med. Res.*, 6(3), 151-56.

Kalra, J., Singh, S., Badyal, D., Barua, P., Sharma, T., Dhasmana, D.C., Singh, T. (2016). Poetry in teaching pharmacology: Exploring the possibilities. *Indian J Pharmacol* 48 (S1),61-4.

Khan, A., Zai, Y., Khaliq, F. (2017). Occupational respiratory dysfunction among bakery workers. *Indian Journal of Medical Specialities*. <http://dx.doi.org/10.1016/j.injms.2017.02.003>

Khetarpal, A., Singh, S. (2016). Reintroducing differences linguistically! *Indian J Med. Ethics*. 1(3), 162-66.

Kumar, S., Khaliq, F., Singh, S., et al. (Apr, 2016). Pulmonary functions, oxidative stress and DNA damage in workers of a copper processing industry. *Int. J Occup. Environ. Med.*, 7(2), 107-15.

Mamta, Mohan, Khaliq, F., Panwar, A., Neelam, Vaney. (2016). Assessment of auditory conduction in mobile phone users: A pilot study. *Ind. J Medical Specialities*, 7, 163-166.

Manish, G., Pratibha, G., Tandon, O. P. (2017), Assessment of lung functions in traffic policemen occupationally exposed to vehicular emission in Delhi. *International Journal of Physiology*, 5(1), 118-23.

Saxena, R., Gupta, M., Shankar, N., Jain, S., Saxena, A. (2017), Effects of yogic intervention on pain scores and quality of life in females with chronic pelvic pain. *Int. J Yoga*, 10, 9-15.

Singh, S. (2016), Embracing Brokenness: Disability and Body Image. *RHiME*. 3, 39-41.

Singh, S., Barua, P., Dhaliwal, U., Singh, N. (2017), Harnessing the medical humanities for experiential learning. *Indian J Medical Ethics*. 2017. Retrieved from <http://tinyurl.com/komru2z>.

Varma, R., Lakshmi, V., Vaney, N., Bhattacharya, N., Tandon, O.P., Suneja, A. (2017), Evaluation of autonomic status during three trimesters of pregnancy. *Int. J Med. Sci. Public Health*, 6, 274-280.

#### **Chapters in Books:**

Shankar, N., Kaushik, R. (2016). Physiology of contraception (Chapter 2)). In Goyal N, Shrivastava H, Gupta B, (Eds.), *Contraception*. New Delhi: CBS Publishers

Shankar, N., Kaushik, R. Placental physiology and functions. In Alpana Singh, Richa Sharma, Neerja Goel, (Eds.), *The Placenta and its Clinical Significance*. New Delhi: CBS Publishers.

Singh, S., Gupta, P. (2016). Persons with disabilities, In Gupta P & Khan AM (Eds.), *Textbook of Community Medicine* (Chapter 13, pp 545-74). New Delhi: CBS publishers

Singh, S. (2017), Perseverance pays. In Halder, S and Assaf, L (Eds.), *Inclusion, Disability and Culture: An Ethnographic Approach Traversing Abilities and Challenges*. Springer (in press). ISBN978-3-319-55223-1

Singh, S. (2016). The rights of drivers with disabilities. In Harish Kumar (Ed.), *Ability on Wheels, Enabling Drivability* (First Edn.). Ahmedabad: Artson Publishing House

Vaney, N. (2016) Electrodiagnosis. In *TUREK's Orthopedics, Principles and their Applications* (Chapter, 7th Edn.) Wolters Kluwer.

#### **Research Projects**

Dr. Manish Gupta, project funded by ICMR,, *Internet addiction disorder amongst medical undergraduates students.*"

Dr. Farah Khaliq, project funded by ICMR,, *Pulmonary functions in bakery workers.*"

Dr. Neelam Vaney, project funded by ICMR,, *Effect of background hues of computer screen on wakefulness and task performance involving memory and concentration capabilities of medical students.*"

Dr. Farah Khaliq, project funded by ICMR,, *Prevalence of substance abuse among undergraduate medical students and its relationship with academic performance.*"

Dr. Neelam Vaney, project funded by UGC,, *Effect of pranayam on respiratory indices of international basketball players of India.*"

### **Seminars / Conferences Presentation**

Abstract on Electrophysiology: A boon to clinicians by Dr Nilima Shankar in Proceedings of 2<sup>nd</sup> Annual Conference of Association of Physiologists of Haryana (APOH) organised by Department of Physiology, ESIC Medical College & Hospital, Faridabad (Haryana).

### **Faculty Strength – 6**

### **Other Significant Information**

International Yoga Day in collaboration with Yoga laboratory, Department of Physiology, under AYUSH, June 22, 2016.

Upgradation of UG and PG Laboratories and Doctors and Technical Staff imparted training in the use of the new equipment.

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## **PHYSICAL EDUCATION (UCMS)**

### **Major Activities and Achievements**

UCMS has a glorious history in sports over the past many years. Students have been participating in various sports activities throughout the year and regular matches for football, basketball, cricket, Table Tennis and many other games are being Organised throughout the academic year. The available infrastructure for sports in the college is of national level as the college has a 2 acre main playground with a basketball court, volleyball court, football ground, cricket ground and a gym. Further for the upliftment of the sports infrastructure in the college plans for two synthetic tennis courts and Indoor Stadium having squash and badminton facilities are under planning and it is expected to be completed in the near future. Two formal sports meets are Organised during the academic year – Arena, Sports Week and Avalanche where teams from different colleges of Delhi University, Indraprastha University and other colleges of NCR participate in large numbers.

### **Publications**

International Journal of Physical Education and Applied Exercise Sciences, 2017, LNIPE Guwahati

### **Research Projects**

Dr. R Chakravarty, project funded by UGC., *Relationship of selected Kinematic variables with the performance of National Level Judokas in Kata Guruma (Shoulder Wheel).*

### **Seminars / Conferences Presentation**

R. Chakravarty, Dec. 09-11, 2016, International Conference on Renaissance in Sports, National College, Trichy.

R. Chakravarty, Dec. 14-15, 2017, National Conference on Latest Trends in Health and Physical Education, UCMS, Delhi.

### **Faculty – 1**

### **Other Significant Information**

Organised football and basketball matches under lights.

Volleyball reintroduced.

Table Tennis Doubles reintroduced.

Winners of Inter College hardball cricket competition in Arena, 2017; Inter College Basketball competition in Arena, 2017; Inter College Table Tennis competition in Arena, 2017; Inter College Basketball held at MAMC, 2017.

Runners up of softball cricket inter college competition in Arena, 2017; football (soccer) inter college competition in Arena, 2017; table tennis inter college competition in Arena, 2017.

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## PSYCHIATRY (UCMS)

### Honours / Distinctions

Dr. Bhatia M.S, Dr. Ravi Nehru Memorial Award of Delhi Psychiatric Society for Best-Published Paper in Neuropsychiatry/ Neuropsychology, Dec., 2016

Dr. Srivastava S:

Dr. Ravi Nehru Memorial Award of Delhi Psychiatric Society for best-published paper in Neuropsychiatry / Neuropsychology. Dec., 2016.

conferred as Member, National Academy of Medical Sciences (MNAMS), New Delhi, 2016.

selected as Fellow, Indian Psychiatric Society (IPS) North Zone, 2016.

GC Boral Award for paper on Quality of life and psychiatric morbidity in patients with brain tumour' in Indian Psychiatric Society, North Zone (IPS-NZ) Annual Conference held in Udaipur, Rajasthan, Oct. 22-23, 2016.

### Publications

Bhatia, M. S., Gautam, P. (2016). Case report of a child's anxiety disorder precipitated by tremors from a distant earthquake that was extensively covered in local news stories. *Shanghai Archives of Psychiatry*, 28(1), 52-5.

Bhatia, M.S., Saha, R., Gautam, P. (2016). Cerebellar cognitive affective syndrome – A case report. *Primary Care Companion of CNS Disorders*, 31,18(2). doi: 10.4088/PCC.15101851

Bhatia, M.S., Saha, R., Gautam, P., Kaur, J. (2016). Inhalants induced psychosis: a case report. *World Journal of Pharmacy and Pharmaceutical Sciences*, 5(4), 1823-1827.

Doval, N., Goyal, A., Saha, R., Bhatia, M.S. (2016). Substance abuse and borderline personality disorder: management challenges. *World Journal of Pharmacy and Pharmaceutical Research*, 5(11), 1686-1690.

Doval, N., Saha, R., Bhatia, M.S., Goyal, A. (2016). An uncommon case of intellectual disability with mood disorder. *European Journal of Biomedical and Pharmaceutical Sciences*, 3(7), 511-513.

Goyal, A., Saha, R., Doval, N., Bhatia, M.S. (2016). Phantom limb syndrome – A case report. *World Journal of Pharmacy and Pharmaceutical Sciences*, 5(7), 1768-1772.

Gupta, R., Gupta, K., Tripathi, A.K., Bhatia, M.S., Gupta, L.K. (2016). effect of mirtazapine treatment on serum levels of brain-derived neurotrophic factor and tumor necrosis factor- $\alpha$  in patients of major depressive disorder with severe depression. *Pharmacology*, 97(3-4), 184-8.

Kaur, N., Madan, P., Rana, G., Kumar, P., Malhotra, S., Bhatia, M.S. (2017). Ebola virus disease and Zika virus disease: Neuropsychiatric sequelae. *European Journal of Biomedical and Pharmaceutical Sciences*, 4(2), 115-122.

Nimisha, D., Bhatia, N.K., Bhatia, M.S. (2016). Morsicatio linguae: a case report. *European Journal of Biomedical and Pharmaceutical Sciences*, 3(12), 361-362.

Ravikumar, R., Rajoura, O.P., Sharma, R., Bhatia, M.S. (2017). A study of emotional intelligence among postgraduate medical students in Delhi, *Cereus*, 9(1), e-989.

Saha, R., Bhatia, M.S., Doval, N. (2016). Tuberos sclerosis complex with multiple psychiatric co-morbidities: a case report. *International Journal of Health Sciences and Research*, 6(4), 566-568.

Srivastava, S., Bhatia, M. S., Saha, R. (2016). Importance of subtle behavioural changes in the diagnosis of paediatric psychosis. *Journal of Neuropsychopharmacology and Mental Health*, 1, 21-2.

Srivastava, S., Bhatia, M.S., Bhargava, S.K., Kumari, R., Chandra, S. (2016), A diffusion tensor imaging study using a voxel-based analysis, region-of-interest method to analyze white matter abnormalities in first-episode, treatment-naïve major depressive disorder. *Journal of Neuropsychiatry and Clinical Neurosciences*, 28, 131-137.

Srivastava, S., Shekhar, S., Bhatia, M.S., Dwivedi, S. (2017), Quality of life in patients with coronary artery disease and panic disorder: A comparative study. *Oman Medical Journal*, 32(1), 20-26.

Srivastava, S, Bhatia M.S., Kataria D. (2016). Quality of life as an outcome measure in the management of common mental disorders. *Indian J Soc.Psych.*, 32(4),419

Srivastava, S, Bhatia, M.S., Sharma, A., (2016). Posters Day 4. A study on quality of life and metabolic profile in schizophrenia patients who are receiving treatment in outpatient setting. *Indian J Soc.Psych*, 32(4), 473.

Srivastava, S., Jiloha, R.C., Bhatia, M.S., Kataria, D. (2016). Symposium 19, culture, social hierarchy and mental illness in the context of changing Indian society. *Indian J Soc. Psych.*, 32(4), 350.

Dutt, A. (2016). Psychological first aid is crucial in assisting those in a mental turmoil. In *Hindustan Times*, Oct. 10, 2016 www.Jagran.com. Oct. 8, 2016

### **Chapters in Books**

Bhatia M.S. Invited as an author for chapter on Somatoform Disorders in a book on Undergraduate Psychiatry to be published by Indian Psychiatric Society

### **Books**

Bhatia, M.S. (2016). *Essentials of Psychiatry*, 8th Edn., New Delhi: CBS Publishers and Distributors Pvt. Ltd.

Bhatia, M.S., Kaur N., (2016). *Manipal University (MAHE) PG Medical Entrance Examination*. New Delhi: CBS Publishers and Distributors Pvt. Ltd.

Bhatia, M.S. (2016). *Problems of Behaviour in Children and Special Child*. Translated and published in Persian by Maryam Safara, Iran.

### **Conferences / Workshops Organised**

Psychological and Mental Health First Aid for all, 2016 (theme topic) of World Mental Health Day under the chairperson, Dr. M.S. Bhatia in collaboration with Delhi Psychiatric Society, UCMS. Oct. 3 -10, 2016.

Training programme was held for doctors on International Statistical Classification of Diseases and Related Health Problems ICD-10 in Conference Hall, UCMS & GTB Hospital with the approval of Medical Director, Dr. Sunil Kumar, GTB Hospital, Training Cell, GTB Hospital, Dec. 14, 2016.

### **Seminars / Conference Presentations**

Srivastava S, Bhatia MS, Gaur A., . Quality of life and psychiatric morbidity in patients with brain tumour. 41st Annual Conference of Indian Psychiatric Society-North Zone 2016, Udaipur, Rajasthan. Souvenir.

Dr. Srivastava S, Chaired a free paper session Dec. 4, 2016 and proposed a symposium (that was accepted) in XXII World Congress of the World Association for Social Psychiatry, held in New Delhi, Nov. 30-Dec. 4, 2016.

Dr. Srivastava S, As (Internal) Faculty in Medical Approach in UGC Sponsored 2 National Conference On Latest Trends in Health and Physical Education on Life style interventions for Positive Mental Health & Mental Disorders dated Feb. 14-15, 2017 Organised by University College of Medical Sciences, Delhi (under the Chief Patron, Principal, Dr V.P Gupta).

### **Research Projects**

Dr. Bhatia M.S, - STS,, *To study the prevalence of psychological morbidity, cognitive function and abuse in community based elderly population.*

Dr. Bhatia M.S, project funded by ICMR,, *To determine co-morbidity of autism in intellectual disability in children aged 6-12 years in a tertiary care hospital of East Delhi.*

Dr. Srivastava S, project funded by ICMR,, *An exploratory, multi-center study to identify phenotypic clusters in OCD.*

Dr. Srivastava S, project funded by ICMR,, *To assess the overall health related quality of life, disability, clinical correlates in obsessive compulsive disorder.*

Dr. Srivastava S, project,, *To determine co-morbidity of autism in intellectual disability in children aged 6-12 years in a tertiary care hospital of East Delhi..*

Dr. Srivastava S, project,, *To study metabolic profile and quality of life in patients with Serious Mental Illness (SMI) visiting tertiary care, teaching hospital.*

## **Faculty Strength – 2**

### **Other Significant Information**

The department started a Disability Clinic that functions every Thursday, 2:00 p.m. for assessment and certification. We conduct training programme for medical staff of UCMS & GTB Hospital, on ICD-10. The department provides Psychological First Aid. The department is regularly training medical students under ICMR STS Programme and currently, it is the only psychiatry department under Faculty of Medical Sciences providing Ph.D. Training in psychiatry and Clinical Psychology.

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## **PULMONARY MEDICINE (VPCI)**

### **Major Activities and Achievements**

The Vallabhbhai Patel Chest Institute (VPCI) continued its education, research and 'patient care' activities. As part of educational programme, the Institute Organised number of Orations, Conferences, Workshops, Public Lectures and other programs during the period. Postgraduate medical education is one of the thrust areas of the Institute. Students are trained for DM and MD degree courses in Pulmonary Medicine; MD in Biochemistry, Physiology, Microbiology and Pharmacology and for PhD degree in Chest Medicine and Allied sciences In addition to these academic activities, several other events also marked during the period at VPCI. The Institute celebrated Azadi 70 - Yaad Karo Qurbani, Teachers Day, World Environment Day, International Yoga Day, Vigilance Awareness Week, Swachhata Action Plans (SAP), etc. A Postal Envelope, designed with the photographs of Sardar Vallabhbhai Patel and Vallabhbhai Patel Chest Institute's building was released on 30 Sept., 2016 at Neelambari-2016, a District Level Philately Exhibition Organised by Sr. Superintendent of Post Offices, Delhi.

### **Honours / Distinctions**

Dr. Raj Kumar:

Member, University of Delhi, Delhi, Selection Committee for the Personal Promotion Case under CAS-2010.

Member, University Grants Commission, Expert Committee Meeting for Major Research Projects (MRP).

Expert, PGI Chandigarh, DM Thesis Evaluation for DM Pulmonary Medicine.

Expert, University Grants Commission, New Delhi, Interview Candidates for Commonwealth Medical Fellowships.

External Expert, LRS Institute of TB and Respiratory Diseases, New Delhi, Purchase Body Plethysmography at UCMS & AIIMS.

Member, University of Delhi, Delhi, Selection Committee for Hindu College – Principal.

Member, Ministry of health and Family Welfare, Govt. of India, Delegation led by Health Minister Sh. JP Nadda for WHO Framework Convention on Tobacco Control (WHO FCTC) at Greater Noida, Gautam Buddha Nagar, UP.

University Representative, University of Delhi, Delhi, Governing Body of RajKumari AmritKaur College of Nursing – Appointments.

Member, University of Delhi, Delhi, Parliamentary Committee for Welfare of SC and ST.

Chairman, The Executive Council, University of Delhi, W.U.S. Health Centres of University of Delhi.

Head, University of Delhi, , Department of Pulmonary Medicine under faculty of Medical Science for term of 3 years

Member, University of Delhi, Examination Disciplinary Committee for the Year 2016-17

Expert, Dept. of Pulmonary Medicine, AIIMS, New Delhi, Technical Working Group to help in formulation COPD and Asthma Guidelines

Guest of Honour, On the occasion of Celebration of World Environment Day Panel discussion on June 05, 2016 by India Eye International Human Rights Observer in collaboration with United Nation Centre for India & Bhutan, India Islamic Center, Lodi Estate, New Delhi.

Guest of Honour, Zakir Husain Delhi College (Evening), University of Delhi, 2nd National Conference on Environmental Concerns of 21 Century: Indian and Global Context on 29 March, 2017.

### **Publications**

Poongadan, M N., Gupta, N., Kumar, R. (2016). Lifestyle factors and asthma in India-a case-control study. *Pneumonol Alergol Pol.*, 84, 104–108.

Poongadan, M N., Gupta, N., Kumar, R. (2016). Dietary pattern and asthma in India. *Pneumonol Alergol. Pol.*, 84, 160–167.

Kumar, R. (2016). Effect of obesity and metabolic syndrome on severity, quality of life, sleep quality and inflammatory markers in patients in India. *Pneumonol. Alergol. Pol.*, 84, 158–264.

Kumar, R., Goel, N., Kumar, S., Kushwan, A S., Vijayan, VK. (2016). Epidemiological profile of tobacco users at tobacco cessation centre – An Indian experience. *Indian J Chest Dis. Allied Sci.*, 58, 93-97.

Kumar, R. (2016). Dietary pattern and lifestyle factors in asthma control. *Indian J Allergy Asthma Immunol.*, 30, 80-90.

Kumar, R., Gupta, N., Poongadan, M. N., Balasubramanin, V. (2016). Clinical spectrum of 106 Cigarette, Beedi and non-smoker lung cancer patients at a tertiary care centre in India. *Indian J Chest Dis. Allied Sci.*, accepted.

### **Book Chapter**

Prasad, R. and Kumar, R. (2016). Allergy situation in India. Chapter in Training Manual 41<sup>st</sup> Workshop on Respiratory Allergy, Diagnosis and Management, VP Chest Institute, April 4 -8, ISBN: 968-81-920556-2-9

Kumar, R. Allergy situation in India. Chapter in Text Book. In Raj Kumar (Ed.), *Respiratory Allergy Diagnosis and Management*, New Delhi: Neelam Graphics. ISBN: 978-81-920546-5-0

Kumar, R. Allergy Testing. Chapter in Text Book. In Raj Kumar (Ed.), *Respiratory Allergy Diagnosis and Management*, New Delhi: Neelam Graphics. ISBN: 978-81-920546-5-0

### **Research Projects**

Dr. Raj Kumar, ICMR funded project (2015),, *Indoor Air Pollution and Asthma Exacerbation in Children: A Population Based Study*. Rs. 1.25 Crore

Dr. Raj Kumar (Co-Investigator), ICMR funded project (2016),, *Effect of Outdoor Air Pollution on Acute Respiratory Symptoms in Delhi - A multisite project*. Rs. 1.25 Crore

Dr. Raj Kumar (Co-ordinator), Ministry of Health & Family Welfare, Govt. of India funded project (2016),, *Tobacco Quitline Services (TQLS) at Vallabhbbhai Patel Chest Institute, Delhi*. Rs. 1.2 Crore (Approx.)

### **Seminars Organised**

41st Allergy Workshop on Respiratory Allergy: Diagnosis and Management was Organised by National Center of Respiratory Allergy, Asthma and Immunology (NCRAAI), VP Chest Institute, Delhi in association with Institute of Genomics & Integrative Biology, Delhi Organised at VP Chest Institute, Delhi held on April 4 – 8, 2016. Dr. Raj Kumar, Organizing Secretary.

World No Tobacco Day 2016 was Organised by V.P. Chest Institute, University of Delhi, in association with Society for Tobacco Control & National College of Chest Physicians (India), June 3, 2016 at V.P. Chest Institute, University of Delhi.

50th ICAAICON - 2016, Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology was Organised by Vallabhbbhai Patel Chest Institute, Delhi, Oct., 22 - 25 , 2016. The Conference started with a one-day workshop 'Skin Prick Test & Immunotherapy' on 22 Oct. 2016 and covered the theoretical and practical aspects of Skin Prick Test & Immunotherapy. The Conference had guest lectures by 12 International faculty from USA, Netherland, Germany and Sri Lanka, and approximately 50 guest lectures were delivered by distinguished national faculty from India. Dr. Raj Kumar, Organizing Secretary.

### **Seminars / Conference Presentations**

Anil Kumar Mavi, Kamal Singh, Deepak Kumar, Raj Kumar., Sensitization to Pigeon Allergens, Common Aeroallergens in Asthmatic Patients at 50th ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VP Chest Institute, Delhi, Oct. 22 – 25, 2016.

Raj Kumar, Kamal Singh, Jitendra K Nagar, Manoj Kumar, Anil Kumar Mavi, Bahirav Dutt Sharma., Prevalence of Sensitization to food allergens in Bronchial asthma and/or allergic rhinitis patients in India, at 50 ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VP Chest Institute, Delhi, Oct. 22 – 25, 2016 (Abstract 23).

Raj Kumar, Kamal Singh, Jitendra K Nagar, Manoj Kumar, Anil Kumar Mavi., Association of indoor air pollution with allergic respiratory disease in children of rural area of Delhi, at 50th ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VPCI, Delhi, Oct. 22 – 25, 2016 (Abstract 24).

Raj Kumar, Kamal Singh, Jitendra K Nagar, Manoj Kumar, Anil Kumar Mavi, Ravindra Pratap Singh., Prevalence of aeroallergens in patients with asthma and allergic rhinitis in India based on skin prick test reactivity at 50 ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VP Chest Institute, Delhi, Oct. 22- 25, 2016 (Abstract 25).

Raj Kumar, Kamal Singh, Jitendra K Nagar, Manoj Kumar, Anil Kumar Mavi., Indoor air pollution and asthma in women of rural area of Delhi NCR. at 50th ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VP Chest Institute, Delhi, Oct. 22 – 25, 2016 (Abstract 26).

Faculty Lecture, on 'Food allergy in Bronchial Asthma' in 41 Workshop on Respiratory Allergy: Diagnosis & Management, VPCI, Delhi, on April 4-8 2016.

Hands on Practical Training – SPT in 41 Workshop on Respiratory Allergy: Diagnosis and Management, VP Chest Institute, Delhi on April 4 -8, 2016.

Guest Lecture, on 'Smoking Cessation-current status' in CME on Current Trend in Respiratory Medicine at Army Hospital (Research and Referral), New Delhi on 10 April, 2016.

Faculty Lecture, on 'Scope on Sleep Medicine' in ACC-SLEEP Medicine (A Certificate course in Sleep Medicine), VP Chest Institute, April 21, 2016.

Presentation on the National Tobacco Quitline, World No Tobacco Day 2016 and Launching of National Tobacco Quit Line at Sovereign Hall, Le Meridien Hotel, New Delhi on May 30, 2016.

Public Lecture, on 'Smoking Cessation' in World No Tobacco Day 2016 – No Tobacco – Change your Lifestyle, at VPCI, Delhi on 3 June, 2016.

Guest Lecture, on 'Indication of Immunotherapy' in ASI 2016, Consensus Meet on Allergen Specific Immunotherapy at Bangalore on 7-8 July, 2016.

Guest Lecture, on 'Prescribing AIT & Dose Schedules' at ASI 2016, Consensus Meet on Allergen Specific Immunotherapy at Bangalore on 7-8 July, 2016.

Guest Lecture, on 'Smoking Cessation' in National Conference on Interventional Pulmonology, Respiratory Medicine & Sleep (RESPICON-INDIA) at NDMC Convention Centre, Connaught Place, New Delhi on Aug. 7, 2016.



Guest Lecture, on 'Indoor Air Pollution – Lung Health in Children' international Conference on Environment and Occupational Health (ENVOCCON 2016) in association with Physiologist of Tamil Nadu at Department of Physiology, Sree Balaji Medical College and Hospital, Chennai , Sept. 11, 2016.

Guest Lecture, on 'Clinical Immunological Diagnosis of Food Allergy' during Allergy and Immunotherapy Workshop 50 ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VP Chest Institute, Delhi, Oct. 22, 2016.

Guest Lecture, on 'Life Style – Diet & Asthma', 50th ICAAICON-2016, The Golden Jubilee National Conference of the Indian College of Allergy, Asthma & Applied Immunology held at VP Chest Institute, Delhi, Oct. 25, 2016.

Guest Lecture, 'Food Allergy-Status in India' in the 18 Joint National Conference of the National College of Chest Physicians (NCCP) and Indian Chest Society (ICS) NAPCON - 2016 at Hotel Grand Hyatt, Mumbai, Nov. 24 – 27, 2016.

Guest Lecture, on Food Allergy in India in AAPI Global Health Care Summit 2016 Organised in Collaboration with Ministry of health and family welfare, Udaipur, Rajasthan, India, Dec. 30, 2016.

Guest Lecture, on 'Allergy Diagnosis: Global Recommendations and its correlation with clinical Practice' in Skin Prick test: Newer Paradigms in Allergy Diagnosis at Ramadan Hotel, Gurgaon Jan. 29, 2017.

Guest Lecture, on 'Improving outcomes in Allergic Rhinitis and Allergic Asthma' in Skin Prick test: Newer Paradigms in Allergy Diagnosis at Ramadan Hotel, Gurgaon Jan. 29, 2017.

Hands on Experience: Skin Prick Test in Skin Prick test: Newer Paradigms in Allergy Diagnosis at Ramadan Hotel, Gurgaon , Jan. 29, 2017

Guest Lecture, on 'Respiratory Allergy and Applied Immunology' Under Eco-club of Kirori Mal College, University of Delhi, Delhi, Feb. 25, 2017.

Guest Lecture on 'How can I get rid of my allergies? Book to bedside' during Childhood Allergies Programmed Organised by Sir Ganga Ram Hospital in association with IAP Respiratory Chapter, New Delhi at Auditorium, Sir Ganga Ram Hospital, New Delhi, March 4, 2017.

### **Other Significant Information**

Dr. Nipun Malhotra, MD Pulmonary Medicine, post graduate resident under guidance of Prof. Raj Kumar, Head of Department, National Centre of Respiratory Allergy, Asthma and Immunology, V. P. Chest Institute, Delhi was awarded V. Raju Award Oration, *To Measure the Effect of Environmental Tobacco Smoke Exposure on the Respiratory Health of Children in Rural Area of Delhi-NCR* at ICAAICON-2016, 50 National Conference of Indian College of Allergy, Asthma and Applied Immunology, held from Oct. 22, 2016 to Oct. 25, 2016 at VP Chest Institute, University of Delhi.

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## **RADIODIAGNOSIS (LHMC)**

### **Major Activities and Achievements**

The department carries out clinical as well as research work. Our strengths include the guidance by experienced senior faculty and a harmonious working environment that is founded on team-work. Research work is carried out in the form of Theses allotted to all MD students. Our students learn practical aspects of Radiology as they are exposed to a wide diversity of clinical cases, especially paediatric cases. This year, our department was involved in the organization of a preconference workshop on Paediatric Chest Radiology – Basics for a paediatrician, at the 28th Annual National Conference of IAP, Respiratory Chapter. This was a good learning opportunity for our students, as well as participating paediatricians. Our students also attended various other conferences, and presented papers or posters. Our faculty was actively involved in teaching activities, and took lectures at various conferences.

## Honours / Distinctions

Faculty members have been involved as experts in purchase of Radio Diagnosis equipments in various Government Hospitals Purchase Committees.

Dr Rama Anand:

Received the Distinguished Service award from the Delhi branch of IRIA (Indian Radiological and Imaging Association)

Appointed as Examiner for MD Radio diagnosis exam at AIIMS may,2016.

Appointed as MD Radio diagnosis exam at KGMU Lucknow June 2016

Appointed as B.Sc Medical Tech. (Radio diagnosis & Imaging) Part -III practical and viva-voce examination at PGI Chandigarh in Aug, 2016.

Appointed as DMRD practical exam at KGMU Lucknow Oct 2016

Appointed as MD Radio diagnosis exam at Ludhiana DMC & Baba Farid University of Health Sciences in Nov, 2016.

Appointed as expert in assessment board for scientists , Govt. of India, Ministry of Defense in May, 2016.

Co-Chairperson of Committee for purchase of Proprietary items and repair Maintenance for the Equipment of Hospital side Departments.

Chairperson of Equipment Purchase committee.

Appointed as Reviewer for *Indian Journal of Radiology and Imaging (IJRI)*.

Appointed as Reviewer for JCDR

Dr. Pooja Abbey has been appointed as Reviewer for *Indian Journal of Radiology and Imaging (IJRI)*.

## Students with distinction

Dr. Harpreet Singh Kapoor, 1st Prize, IRIA monthly Meet, LHMC, Nov., 2016

Dr. Kanika Chawla, 2nd Prize at IRIA monthly meet, LHMC, Nov., 2016; Certificated of Merit Oral Paper Presentation, National IRIA, Bhubaneshwar Jan., 2016; 2nd Prize, Quiz-GI imaging series, AIIMS, Nov., 2016.

Dr. Biswanath Sahu, Certificate of Merit E-Poster Presentation, National IRIA, Bhubaneshwar Jan., 2016; nd2 Prize Quiz GI imaging series, AIIMS, Nov., 2016; Certificate of Merit Oral Paper Presentation National IRIA, Jaipur, Jan., 2017; E-Poster presentation, Motional IRIA, Jaipur, Jan., 2017.

Dr. Md. Sahil Siddiqui, Certificate of Merit, Oral Paper Presentation National IRIA Jaipur, Jan., 2017

Dr. Priyanka Rana, Certificate of Merit – Oral Paper Presentation; and Certificate of Merit. E-Poster Presentation, National IRIA, Jaipur, Jan., 2017;

## Publications

Abbey, P., Kapoor, H. S., Anand, R., Singh, R. (2016). Abnormal central line position on a chest radiograph: Clue to an uncommon anomaly. *Lung India*, 33, 680-1.

Bhargava, S.K., Verma, K., Bhatt, S., Tomer, S., Bhargava, S. (2016). *Radio-diagnosis for Vocational course*. New Delhi: CBSE.

## Book Chapters:

Tomer, S. , *Diagnostic Radiology* Co Author with Dr. S.K. Bhargava, New Delhi: CBSE.

Sherwani, P., Vire, A., Anand, R., Gupta. R. (2016). Lung lysed: A case of Gaucher disease with pulmonary involvement. *Lung India*, 33, 108-10.

Sherwani, P., Anand, R., Vire, A., Shrivastav, G., (2016). Hyperdense vessel sign: Beyond Thrombosis : A case report, *Journal of Dental and Medical Sciences*, 15(12), 62-64.

Sherwani, P., Vire, A., Anand, R., Jajoo, M. (2016). Umbilical venous catheterization gone wrong: Hepatic complications. *IJRI*, 26(1), 40-43.

Sherwani, P., Shweta, S., Kumar, N., Narula, M. K., Anand. R., Pathania, O. P. (2016). Breast Filariasis diagnosed by real time Sonographic Imaging: A case report Iran. *Jour. Radiol.*, 13(1), e17991

### **Conferences Organised**

Preconference workshop - 'Paediatric Chest Radiology – Basics for a paediatrician at 28th Annual National Conference of IAP, Respiratory Chapter (Respicon 2016) held on Nov. 18,2016, participation in organization.

Delhi State IRIA Monthly Meet on Nov. 26, 2016 at Lady Hardinge Medical College.

### **Seminar / Conference Presentations**

Rama Anand, Faculty, 69th IRIA Bhubaneshwar Jan. 21 to 24, 2016.

Rama Anand, Faculty, DIU Feb., 2016.

Rama Anand, Faculty,PG AIRP Course Neuro Radio 26 to 28, 2016.

Rama Anand, Faculty,, Harnam Singh Mid term CME 2016 Delhi.

Rama Anand, Faculty,AIIMS radiology course on Chest Radiology.

Rama Anand, Faculty,Preconference workshop and main conference -'Paediatric Chest Radiology Basics for a paediatrician' at 28th Annual National Conference.

Rama Anand, Faculty,Conference of IAP, Respiratory Chapter (Respicon, 2016).

Rama Anand, Faculty,ISPR Kolkata Sept., 2016.

Rama Anand, Faculty,AIIMS MAMC PGI Nov., 2016.

Rama Anand, Faculty,AIIMS Neuro Radiology update Dec., 2016.

Rama Anand, Faculty,, ISPR Kolkata Sept., 2016.

Rama Anand, Faculty,AIIMS MAMC PGI Nov., 2016.

Rama Anand, Faculty,AIIMS Neuro Radiology update Dec., 2016.

Pooja Abbey, Faculty, AIIMS Paediatric Chest Radiology course at AIIMS, New Delhi, July 30 and 31, 2016.

Pooja Abbey, CME on Applied Radiological Physics and Technological Advances held on 15-16 Oct., 2016 at Auditorium, GB Pant Institute of Postgraduate Medical Education & Research, New Delhi.

Pooja Abbey, IRIA Resident Education Program held on 10-12 Sept, 2016 at MAMC, New Delhi.

Pooja Abbey, Pre-conference Workshop, 'Paediatric Chest Radiology- Basics for a paediatrician at 28 Annual National Conference of IAP, Respiratory Chapter (Respicon 2016).

Bhawna Satija, as faculty, Pre-conference Workshop- 'Paediatric Chest Radiology –Basics for a paediatrician' at 28th Annual National, Conference of IAP, Respiratory Chapter (Respicon 2016).

Vikas Chaudhary, Faculty, Preconference workshop – Paediatric Chest Radiology; and Basics for a paediatrician at 28 Annual National Conference of IAP, Respiratory Chapter (Respicon 2016).

### **Inter-Institutional Collaboration**

With department of Paediatric and Indian Academy of Paediatricians (IAP) – Participation in organization of Preconference workshop –'Paediatric Chest Radiology – Basics for a paediatrician' at 28th Annual National Conference of IAP, Respiratory Chapter (Respicon 2016) held on 18 Nov.,2016.

With Delhi State IRIA - Monthly Meet on 26 Nov., 2016 at Lady Hardinge Medical College.

### **Faculty Strength – 7**

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## RADIOLOGY (UCMS)

### Honours / Distinctions

Dr. Srivastava A. K, President Appreciation Award of Delhi IRIA – 2016-17, March 04, 2017.

### Publications

Agarwal, R., Chaudhary, S., Kar, R., Radhakrishnan, G., Tandon, A. (2017). Prediction of preeclampsia in primigravida in late first trimester using serum placental growth factor alone and by combination model. *Journal of Obstetrics & Gynecology*. doi: 10.1080/01443615.2017.1309367

Agarwal, R., Tiwari, A., Wadhwa, N., Radhakrishnan, G., Bhatt, S., Batra, P. (2017). Abnormal umbilical artery Doppler velocimetry and placental histopathological correlation in fetal growth restriction. *South African Journal of Obstetrics and Gynaecology*, 23(1). doi: 10.7196/SAJOG.2017.v23i1.1109

Bhatt, S., Tandon, A., Singh, A.K., Manchanda, S., Jain, S., Meena, N. (2016). Caudal regression syndrome: A case study with associated review of common differential diagnoses made with antenatal sonography. *Journal of Diagnostic Medical Sonography*, 1-4. doi:10.1177/8756479316677012

Bhatt, S., Ahmad, M., Batra, P., Tandon, A., Roy, S., Mandal, S. Neonatal adrenal hemorrhage presenting as ‘Acute Scrotum’ – looking beyond the obvious: a sonographic insight. *J Ultrasound*. doi:10.1007/s40477-017-0248-3

Bhatt, S., Mishra, B., Tandon, A., Manchanda, S., Parthasarthy, G. (2017). Superior mesenteric artery syndrome in association with abdominal Tuberculosis: An Eye Opener. *Malays. J Med. Sci.*, 24(3), 96-100. <https://doi.org/10.21315/mjms2017.24.3.12>

Bhatt, S., Mishra, B., Tandon, A., Manchanda, S., Parthasarthy, G. (2017). Superior mesenteric artery syndrome in association with abdominal tuberculosis: an eye opener. *Malays. J Med. Sci.*, 24(3), 96–100. <https://doi.org/10.21315/mjms2017.24.3.12>

Bhatt, S., Rajpal, N., Rathi, V., Avasthi, R. (2016). Contrast induced nephropathy with intravenous iodinated contrast media in routine diagnostic imaging: An initial experience in a tertiary care hospital. *Radiol Res. Pract.*, 8792984. doi: 10.1155/2016/8792984. Epub 2016 Mar 16. PMID, 27069686

Bhatt, S., Sumbul, M., Rajpal, Radhakrishnan, G. (2017). Value of Three Dimensional Multidetector CT Hysterosalpingography in Infertile Patients with Non-Contributory Hysterosalpingography: A Prospective Study. *J Reprod. Infertil.*, 18(3), 323-654.

Bhatt, S., Sushila, Tandon, A., Bhargava, S.K. (2016). Estimation of radiation dose in conventional radiography. *Journal of International Medical Science Academy*, 29(3), 146-150.

Bhatt, S., Tandon, A., Singh, A.K., Manchanda, S., Jain, S., Meena, N. Caudal regression syndrome: A case study with associated review of common differential diagnoses made with antenatal sonography. *Journal of Diagnostic Medical Sonography*, 1-4. doi: 10.1177/875647931667701

Bhatt, S., Verma, P., Grover, R.K., Sharma, P., Rajaram, S. (2017). Success, effectiveness and safety of combined sonographic and fluoroscopic guided percutaneous nephrostomy in malignant ureteral obstruction. *Int J Radiol. Radiat. Ther.*, 3(1), 00048. doi: 10.15406/ijrrt.2017.03.00048

Bhatt, S., Verma, P., Meena, N., Tandon, A., Tanveer, N., Bansal, D. Glomusvagaletumour, can it be diagnosed only on sonography? *J Ultrasound*. doi:10.1007 / s40477-016-0237-y (e-ISSN 1876-7931).

Bhatt, S., Goel, M., Gupta, A., Tandon, A., Roy, S. (2017), Diagnosis of urethral stricture on dynamic voiding transvaginal sonourethrography. *Journal of Diagnostic Medical Sonography*, 1-4. doi: 10.1177/87564793 1 6688435

Bhatt, S. (2016). Book Review: Clinical radiology for paediatricians. *Indian Paediatrics*. 53(1), 86.

Dewan, P., Tandon, A., Rohatgi, S., Qureshi, S. (2016), Multifocal tuberculous osteomyelitis in a three year old child. *Paediatrics and International child Health*.

Gupta, S., Bhatt, S., Bhargava, S.K., Singal, A., Bhargava, S. (2016). High resolution sonographic examination: a newer technique to study ulnar nerve neuropathy in leprosy. *Leprosy Review*, 87(4), 464-475.

Pathrot, D., UIHaq, R., Aggarwal, A.N., Nagar, M., Bhatt, S. (2017), Assessment of the geometry of proximal, doi: 10.12659/PJR.900198.

- Roy, S., Bhatt, S., Rawal, R., Tandon, A., Meena, N. (2017). Splenic vein thrombosis as a rare complication of disseminated tuberculosis – imaging diagnosis and case report. *Pol. J Radiol.*, 82, 106-109.
- Singal, A., Pandhi, D., Gogoi, P., Bhatt, S. Subungual fibro-osseous pseudotumour of the digit: A rare occurrence. *Int. Dermatology Journal*, doi: 10.1111/ijd.1341.
- Singal, A., Vohra, S., Sharma, R., Bhatt, S. (2016). Blue rubber bleb nevus syndrome with musculo-skeletal involvement and pulmonary stenosis. *Indian Paediatrics*. 53, 525-7.
- Sanyal, S., Prasad, K., Upreti, L., Garga, U.C. (2016). Spectrum of radiological manifestations in lymphoproliferative malignancies with unusual extra nodal soft tissue involvement. *J Clin. Diagn. Res.*, 10(7).
- Tandon, A., Dewan, S., Bhatt, S., Jain, A.K., Kumari, R. (2017). Sonography in diagnosis of adhesive capsulitis of the shoulder: a case control study, *Journal of Ultrasound*. (Accepted)
- Tandon, A., Srivastav, P., Wadhwa, N., Gupta, N., Bhatt, S., Jain, B.K., Pant, C.S. (2017). Role of sonography in predicting the hormone receptor status of breast cancer: A prospective study. *Journal of Diagnostic Medical Sonography*. (Accepted)
- Tandon A. (2016). Femur for short cephalomedullary nail placement: An observational study in dry femora and living subjects. *Indian J Orthop.*, 50, 269-76. <http://www.ijoonline.com/text.asp?2016/50/3/269/181785>
- Yadav, A., Bansal, R., Tandon, A., Wadhwa, N., Bhatt, S. (2017), Disseminated histoplasmosis: a rare case presentation. *Tropical Docter.*, 0(0), 1-3.
- Khurana, R., Aggarwal, A., Dabas, A., Gupta, N. (2017), Massive hepatomegaly in a neonate – An unusual cause. *Int J Contemp. Pediatr.*, 4(1), 274-275.
- Kumar, H., Tanveer, N., Gupta, N., Mishra, K. (2016), Large cell calcifying sertoli cell tumour of testis – A rare case report. *J Clin. Diag. Research*, 10(11), ED03.

#### **Seminar / Conference Presentations**

- Ahmed F, Gupta N, Upreti L, Khullar T, Rathi V., Spectrum of Imaging Findings in Urinary Tract Infections and Sequelae.
- Garg D, Swaroop MS, Upreti L, Gupta N, Rathi V., Swelling at Angle of Mandible- Imaging Spectrum of Paediatric Parotid and Peri-parotid Lesions.
- Haflongbar T, Upreti L, Gupta N, Swaroop MS., Gastrointestinal Volvulus – A Multimodality Pictorial Review.
- Swaroop MS, Upreti L, Rathi V, Singh PP, Mishra K, Gupta N.:  
Role of 64 slice MDCT Perfusion imaging in the evaluation of Parotid gland tumours:  
Imaging in Gynecological emergencies at Dr. Harnam Singh Midterm CME- 2016, Delhi, May 21 -22, 2016.  
Imaging in Bowel Ischemia at 3 KSR IRIA Friendship Symposium at Delhi on July 23 2016  
Imaging in Small Bowel Tumors at IRIA Resident Education Programme, Delhi held from Sept. 10 - 12, 2016.  
Role of ultrasound in evaluation of thyroid nodules at National Symposium on thyroid cancer, Delhi on Sept. 24, 2016.
- Dr N G Gadekar Memorial Oration of ICRI on Imaging in Abdominal emergencies at 70th National Conference of IRIA, 2017 held at Jaipur, Rajasthan from Jan. 05- 08, 2017.
- Conducted 10 film reading sessions on Practical skills in Radiology examinations from Dec., 2016 to March, 2017.
- Film Reading session at Resident Education Programme held at Aligarh Muslim University (AMU), Aligarh, UP on March 25, 2017.

#### **Faculty Strength – 8**

#### **Other Significant Information**

Upgradation of UG and PG Labs.

Doctors and technical staff imparted training in the use of the new equipment.

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## SURGERY (MAMC)

### Honours / Distinctions

Dr. P. N. Agarwal, Awarded, by Delhi Govt. for Meritorious Services in Jan. 2016.

Dr. Pawanindra Lal:

Dr. B C Roy Award.

Dr. S K Sen Memorial Oration 2016 – ASI (Delhi Chapter) –Nov 12, 2016 – Postgraduate training in surgery – challenges and solutions.

BMJ South Asia Award 2016 for Excellence in Medical Education – Runner up.

Dr. Anubhav Vindal, Awarded the American College of Surgeons International Guest Scholarship 2016.

Dr. Anubhav Vindal, Awarded Fellowship of the American College of Surgeons (FACS)

Dr. Anurag Mishra:

Awarded Fellowship of American College of Surgeons in Washington DC, USA

Elected as Head, Advocacy, Lancet Commission of Global Surgery- India (ilcogs)

Appointed as Section editor (How I do it) in MAMC Journal of Medical Sciences

Felicitated by NMA and AMA, MAMC on National Youth Day Celebration.

Dr. Lovenish Kumar, First Prize-Best Poster at SURGICON 2016, New Delhi. Nov. 11-13,2016

### Publications

Bains, L. (2016). Duodenal obstruction caused by urinary bladder metastasis: A case presentation with review of literature. Abstracts of 12th International Conference of the Asian Clinical Oncology Society, *Journal of Carcinogenesis*, 15, S231.

Bains,L. (2016). Mixed medullary-follicular carcinoma of thyroid: Rare dual malignancy in a large thyroid. Abstracts of 12th International Conference of the Asian Clinical Oncology Society, *Journal of Carcinogenesis*, 15, S240.

Bains, L., Vindal, A., Pawanindra L. (2015). Biliary duct communication in massive hepatic hydatidosis managed with minimally invasive techniques. *MAMC J Med. Sci.*, 1, 37-40.

Bains, L. (2016). Primary carcinoma of the cystic duct: An extremely rare malignancy, case & review. Abstracts of 12th International Conference of the Asian Clinical Oncology Society, *Journal of Carcinogenesis*, 15, S232.

Bains, L. (2016). Giant Cystic Pheochromocytoma: A silent growing catastrophe. Abstracts of 12th International Conference of the Asian Clinical Oncology Society, *Journal of Carcinogenesis*,15, S254.

Bains, L., Gupta, A., Kaur, D., Batish, A. (2016) Mobile right colon syndrome: Obscure cause of lower right abdominal pain. *Annals of Colorectal Research*, 4(2).

Bains,L., Kaur,D., Batish,A., Gautam,K.K.( 2016). Traumatic abdominal wall hernia with primary colonic herniation – An uncommon presentation. *Natl Med J India*, 29(4) (Abstract)

Bains, L. (2016). Portal vein thrombosis after blunt trauma abdomen: a diagnostic ambiguity. *Natl. Med. J India*, 29(4) suppl, 76. (Abstract)

Bains, L. (2016). Post traumatic pseudoaneurysm of replaced right hepatic artery managed with coil embolization. *Natl. Med. J India*, 29(4) suppl, 121. (Abstract)

Bains, L. (2016). Spectrum of transanal high pressure barotrauma causing colorectal injuries: An Institutional Experience. *Natl. Med. J India*, 29(4) suppl, 138-9. (Abstract)

Bains, L. (2016 ). Malignant melanoma of the anorectum: A bizarre presentation. *The Southeast Asian Journal of Case Report and Review*. (Accepted for publication)

Bains, L. (2016). Erythrocyte alloimmunization and autoimmunization among blood donor and recipient population visiting a tertiary care hospital in northern India. *Journal of Clinical and Diagnostic Research*. (accepted)

Bains, L., Kaur, D., Kakar,A.K., Batish,A., Rao,S. (2017). Primary carcinoma of the cystic duct: A case report and review of classifications. *World Journal of Surgical Oncology*, 15(1), 30.

Bains, L. (2016). Treatment outcome of radical cystectomy for carcinoma urinary bladder: An Indian Experience. Abstracts of 12th International Conference of the Asian Clinical Oncology Society, *Journal of Carcinogenesis*, 15(1), S164.

Gupta, A., Bains, L., Agarwal, M. K., Gupta, R. (2016). Giant cystic pheochromocytoma: A silent entity. *Urology Annals*, 8(3), 384.

Gupta, B., Verma, N., Khurana, N., Jain, S. K. (2016). Dermatofibrosarcoma protuberans of the scalp, with fibrosarcomatous areas masquerading as epidermal inclusion cyst. *BMJ Case Reports*, 2016215427.

Jain, R., Bali, R. S., Chander, J., Neogi, S., Gupta, A. (2016). Alteration in resistive index of renal vasculature following extracorporeal shock wave lithotripsy for renal Stones. *Br. J of Med. & Medl. Research*, 17, 1-6.

Kumar, L., Singh, M., Saxena, A., Kolhe, Y., Karande, S. K., Singh, N., Venkatesh, P., Meena, R. (2015) Unusual presentation of dengue fever leading to unnecessary appendectomy. *Case Rep. Infect. Dis.*, 465238.

Pawanindra, L. (2016). The history of minimal access surgery in MAMC-Lessons to learn. *MAMC J Med. Sci.*, 2, 113-5.

Pawanindra, L., Vindal, A., Midha, M., Nagpal, P., Manchanda, A., Chander, J. (2014). Early post-operative weight loss after laparoscopic sleeve gastrectomy correlates with the volume of the excised stomach and not with that of the sleeve! Preliminary data from a multi-detector computed tomography-based study. *Surg Endosc.*

Pawanindra, L., Kishore, J. (2015). Editorial, Welcome to MAMCJMS. *MAMC J Med Sci*, 1, 1-2.

Pawanindra L. (2015). Editorial, Whither medical education and healthcare. *MAMC J Med. Sci.*, 1, 59-63.

Pawanindra L., Babul, B., R, Sharma., G, Pradhan. (2016). Laparoscopic TEP repair of inguinal hernia does not alter testicular perfusion. *Hernia*, 20429-434.

Saxena, A., Kumar, L., Singh, M., Kolhe, Y., Karande, S. K., Venkatesh, P., Sahai, N. (2015). Spontaneous closure of an ileostomy: A rare occurrence. *Int. J Surg. Case Rep.*, 7C, 124-6.

Singh, M., Kumar, L., Singh, R., Jain, A. K., Karande, S. K., Saradna, A., Prashanth, U. (2014). Gallbladder perforation: A rare complication of enteric fever. *Int. J Surg. Case Rep.*, 5(2), 73-5.

Shreshtha, S., Ghuliani, D. (2016) Abdominal tuberculosis: A retrospective analysis of 45 cases. *Indian Journal of Tuberculosis*, 63(4), 219-24.

Vindal, A., Pawanindra L. (2015). The Veress needle causes most laparoscopic injuries and should be abandoned: FOR: The open technique is safer and saves time. *BJOG*, 122(1), 141.

Vindal, A., Chander, J., Pawanindra L., Mahendra B. (2015). Comparison between intraoperative cholangiography and choledochoscopy for ductal clearance in laparoscopic CBD exploration: a prospective randomized study. *Surg. Endosc.*, 29, 1030-1038.

Yadav, P., Mirza, M., Nandi, K., Jain, S. K., Kaza R. C., Khurana, N., Ray, P. C., Saxena, A. (2016). Serum microRNA-21 expression as a prognostic and therapeutic biomarker for breast cancer patients. *Tumour Biol.*, 37(11), 15275-15282.

Yadav, P., Masroor, M., Tanwer, K., Mir, R., Javid, J., Ahmad, I., Zuberi, M., Kaza, R. C., Jain, S. K., Khurana, N., Ray, P. C., Saxena, A. (2016). Clinical significance of TP53 (R72P) and MDM2(T309G) polymorphisms in breast cancer patients. *Clin. Transl. Oncol.*, 18(7), 728-34.

Yadav, P., Mir, R., Nandi, K., Javid, J., Masroor, M., Ahmad, I., Zuberi, M., Kaza, R., Jain, S. K., Khurana, N., Ray, P. C., Saxena, A. (2016). The C609T (Pro187Ser) Null Polymorphism of the NQO1, gene contributes significantly to breast cancer susceptibility in north indian populations: A case control study. *Asian Pac. J Cancer Prev.*, 17(3), 1215-9.

Pawanindra, L. (2016). Editorial, From rote to reasoning: The paradigm shift required in medical entrance examination and beyond! *MAMC J Med. Sci.*, 2, 1-5.

### Chapters in Books

Pawanindra, L., Abdominal Lymphoma. In *Textbook of Surgical Gastroenterology*, accepted for publication. Jaypee Brothers Publishers.

In Proceedings of the XXXIV National Continuing Medical Education Programme in Surgery Update 2016 Department of Surgery, Maulana Azad Medical College, New Delhi, following chapters were contributed:

Tudu, S. K., Kumar, L. *Work up of patient with scrotal mass.*  
Agarwal, P. N., Mishra, A. *Approach to a patient with breast mass.*  
Pawanindra, L. *Bariatric Surgery.*  
Singh, C. B. *Management of thyroid diseases.*  
Pawan, L. *Fistula in ano management.*  
Singh, R., Kumar, L. *Peripheral Vascular Disease.*  
Neogi, S. *Management of patient with colonic Lesion.*  
Vindal, A. *Work up of a patient of Obstructive Jaundice.*  
Vindal, A. *Current management of CBD stones.*  
Ghuliani, D. *Clinical Approach and rationale of investigations in a patient with thyroid swelling.*  
Kumar, L. *Approach to a patient with inguinal swelling.*  
Kumar, L. *Male Infertility.*  
Chand, T. *Approach to a patient with colonic mass.*

### **Research Projects**

Prof. Rajdeep Singh, Asst. Prof. Anurag Mishra, project, *Multicentre observational study-The Trauma Triage study in India (TTRIS)-A comparison of prediction model for triage in adult trauma patients presenting to hospitals.*  
Asst. Prof. Deepak Ghuliani, project, *Role of cancer stem cell markers CD44, CD133 & CD49f in triple negative breast cancers and their association with histological grade, proliferation index, angiogenesis and metastases.*

### **Conferences Organised**

Surgery Update, Sept. 26, 2016 – 1 Oct., 2016, Organizing Chairman, Prof. Sanjeev Kumar Tudu.

### **Conferences / Workshops / Symposiums Presentations**

Pawanindra Lal, Invited Faculty Pancreas Benign – GI Surgicon, Hotel Crowne Plaza, Rohini, Delhi, Feb. 7, 2016.  
Pawanindra Lal, Invited Faculty, Varicose Veins –SCOPE 2016, PGIMER & Dr RML Hospital, New Delhi from Feb. 12, 2016.  
Pawanindra Lal, Invited Faculty, PVD –SCOPE 2016, PGIMER & Dr RML Hospital, New Delhi, Feb. 12, 2016.  
Pawanindra Lal, Invited Faculty, Special Situations, What to do? Ossicon 2016 National Conference, Feb. 13, 2016.  
Pawanindra Lal, Invited Faculty, Mini Gastric Bypass in India – What to be careful about? Ossicon 2016 National Conference, Feb 13, 2016.  
Pawanindra Lal, Invited Faculty, Bougie size in sleeve gastrectomy, what is the evidence? Ossicon 2016 National Conference, Feb. 13, 2016.  
Pawanindra Lal, Invited Faculty, Safe Surgical Practice, ESI-PGIMSR, New Delhi, CME, Feb. 25, 2016  
Pawanindra Lal, Invited Faculty, Live Laparoscopic Hernia Surgery, Endosurg 2016, AIIMS, March 4 -5, 2016.  
Pawanindra Lal, Invited Faculty, Panel Discussion on MGB - ACMOMS 2016 –Chennai – Fisherman’s Cove, July 21-22, 2016.  
Pawanindra Lal, Invited Faculty, Abdominal wall closure EBM vs Daily practice. HSICON 2016, Aurangabad,– Sept. 2, 2016.  
Pawanindra Lal, Invited Faculty, Obstructive Jaundice – Management & Case SURGERY UPDATE MAMC, Sept. 27, 2016.  
Pawanindra Lal, Invited Faculty, Bariatric Surgery – Surgery Update MAMC 2016, Sept. 30, 2016.  
Pawanindra Lal, Invited Faculty, Live Laparoscopic Surgery – SELSICON 2016 and IHSCON 2016, Agra, Nov. 4-6, 2016.



Pawanindra Lal, Invited Faculty, Evolution of MGB & Comparison of MGB vs LSG at MAMC - BARICON 2016, Roseatte, New Delhi, Dec. 3, 2016.

Pawanindra Lal, Invited Faculty, Counselling and Pre-operative work up for bariatric patient – FALS Course in Bariatric Surgery Max Saket, Dec.8, 2016.

Pawanindra Lal, Invited Faculty, Moderator for Panel discussion on Obstructive Jaundice – ASICON 2016, Mysuru, Dec. 15-18, 2016.

Pratyusha Priyadarshini, Impact of Laparoscopic Sleeve Gastrectomy on Type 2 Diabetes

S K Jain, Annual Conference of Delhi State Chapter in Nov., 2016.

C B Singh, Annual Conference of AOGD (Association of Obstetricians and Gynaecologists) in Nov. 2017.

Rajdeep Singh, Chaired session on Hernia surgery at Annual conference Delhi chapter, ASI (SURGICON 2016) held on Jan. 13th, 2016.

Rajdeep Singh, Limited chairperson for Undescended Testis, SCOPE course at RML Hospital, Delhi on 12th Feb., 2016.

Rajdeep Singh, Chairperson for Lecture on Management of fistula in ano in Colorectal Conference at Sir Ganga Ram Hospital on 22 March, 2016. Limited Lecture debate on Management of fissure in ano during Annual conference of Delhi Chapter ASI on 12 Nov., 2016

Rajdeep Singh, Limited lecture on Abdominal Drains at RML hospital on 28 Aug., 2016.

Sushanto Neogi, Surgery Update 2016 as Faculty and Chairperson.

Sushanto Neogi, Part of NSV training course at Male Family Planning Clinic Lok Nayak Hospital

Sushanto Neogi, Part of NSV camp Organised at the Pragati Maidan Nov. 2016

Anubhav Vindal, Chaired Session on Competitive Papers, ENDOSURG 2016, 10th AIIMS Surgical Week, March 4-6 2016,

Anubhav Vindal, As Faculty, Surgery Update 2016 – XXXIII National CME Programme in Surgery, Sept. 2016, Dept. of Surgery, MAMC, New Delhi.

Anubhav Vindal, International Guest Scholar, Paper presentation, Bariatric surgery in a government teaching hospital in India – our experience of over 5 years. American College of Surgeons Clinical Congress 2016, Washington D.C., USA, Oct. 17 – 20, 2016.

Anubhav Vindal, Chaired Operative Session at SURGICON 2016, Annual Conference of Delhi State Chapter of ASI, Nov. 12th, 2016.

Anubhav Vindal, Guest Lecture on: Meshes and Fixation Devices for Hernia repair: Do we have the best device? SELSICON and IHSCON 2016, Nov. 4 – 6, 2016, Agra, UP

Anubhav Vindal, Guest Lecture, Prostheses and Fixation devices for Laparoscopic hernia repair: Where do we stand today? ASICON 2016, National Conference of Association of Surgeons of India, Dec. 14 – 18, 2016, Mysuru, Karnataka.

Anurag Mishra, Annual Congress of ACS, Washington DC, USA.

Anurag Mishra, Surgery Update 2016

Anurag Mishra, ARSICON'2016

Anurag Mishra, Presented a talk on Debate: Stapled v/s Conventional haemorrhoidectomy, Surgicon 2016, New Delhi

Anurag Mishra, SCOPE Course as faculty 2015, 2016

Anurag Mishra, Presented a paper, Secondary Traumatic Stress Levels among Humanitarians of Foreign Medical Teams, Nepal Earthquake 2015, Health, Wellness & Society 2016, Washington DC, USA

Lovenish Kumar, OSSICON 2016, Annual Conference of Obesity & Metabolic Surgery Society of India, Chandigarh. 12-14 Feb., 2016.

Lovenish Kumar, ENDOSURG 2016, International Minimal Access Surgery Conference, CME cum Live Workshop, 8th National Conference of Indian Hernia Society, AIIMS, New Delhi. March 4-6, 2016.

Lovenish Kumar, 3 International Liver Symposium, Medanta Liver Institute, Gurgaon. April 1 -3, 2016.

Lovenish Kumar, Revisiting the Common Hepatopancreatobiliary Surgical Problems, Jaypee Hospital, Noida. 3 April, 2016.

Lovenish Kumar, ACOS-2016, 12th International Conference of the Asian Clinical Oncology Society & 35th Annual Convention of Indian Association for Cancer Research & Mid-Term Conference of IASO, New Delhi. April 8- 10, 2016.

Lovenish Kumar, Trauma Congress 2016, 3 International Congress of the World Coalition for Trauma Care & 8th Annual Conference of the Indian Society for Trauma and Acute Care. Vigyan Bhawan, New Delhi. Aug. 17 - 20, 2016.

Lovenish Kumar, BARICON 2016, 1st International Conference of FORMS, CME cum Live Operative Workshop, AIIMS, New Delhi. Dec. 1-3, 2016.

Lovenish Kumar, DMACON 2016, 59th Annual Delhi State Medical Conference, Talkatora Stadium, New Delhi. Dec. 9-11 ,2016.

Sanjeev Kumar Tudu, Invited as Chairperson in Annual conference of Delhi State Chapter in Nov., 2016.

Sanjeev Kumar Tudu, Limited Chairperson in SCOPE (ASI) course at RML Hospital, Delhi, Feb., 2016.

C. B. Singh, Invited as a lecturer on Breast Screening and Interventions during Annual Conference of AOGD (Association of Obstetricians and Gynecologists) in Nov. 2017.

Following lectures were delivered in *Surgery Update 2016* by the faculty members of the department:

P N Agarwal, Anurag Mishra, Management of patient with breast lump.

Pawanindra Lal, Bariatric surgery.

Pawanindra Lal, Anubhav Vindal, Approach to a patient with obstructive jaundice.

C B Singh, Deepak Ghuliani, Approach to a patient with nodular goiter.

Pawan Lal, Perianal fistulae.

Pawan Lal, Lovekesh Kumar, Management of a patient with scrotal mass.

Rajdeep Singh, Lovenish Kumar, Peripheral vascular disease.

Sushanto Neogi, Trilok Chand, Management of patient with colonic mass.

Sushanto Neogi, Lovekesh Kumar, Management of a patient with inguinal swelling

### **Other Significant Information**

Dr. Anurag Mishra, Visited rural health centre at Masarhi, Patna run by Doctors for You, NGO and took part in various health awareness activities; Actively working for improvement of surgical services in remote area under aegis of Lancet Commission of Global Surgery; visited Udaan camp for adolescent Girls at Hardoi, UP and trained them in first aid, health hygiene and common disease managements; and visited Udaan camp for adolescent Girls at Nuh- Mewat, Haryana and trained them in first aid, health hygiene and common disease managements.

**Faculty – 16**

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## **SURGERY (LHMC)**

### **Major Activities and Achievements**

More than 250 cases of Video Assisted Anal Fistula Treatment (VAAFT) were done in the Department of Surgery, Lady Hardinge Medical College. Pre hospital Trauma Training courses are Organised at Department of Surgery, LHMC. Majority of the trained students are employed in CAT Ambulances and are playing an important role in prehospital care of trauma victims. Bariatric surgery being done regularly by LHMC Surgery unit posted at

Dr. RML Hospital. Endourological Procedures like TURP (for BHP), TURBT (bladder tumors), URS done routinely in the Dept. of Surgery. More than 400 Vascular Surgery procedures – A-V fistula for CRF patients (awaiting transplant/undergoing dialysis) have been performed. Apart from comprehensive surgical & medical management of Gastrointestinal, Urological, Breast cancers; impedance ph monitoring and esophageal manometry for diagnostic and research purpose have also been undertaken. Advance laparoscopic surgeries using high definition camera are routinely performed.

### **Honours / Distinctions**

Dr. Prof. Ajay Kumar, Took charge as Vice Principal, Lady Hardinge Medical College and Associated Hospitals, New Delhi, March 9, 2016.

Dr. Manoj Andley, Dr. Deborshi Sharma and Dr. Gyan Saurabh, Awarded travel grant by University Grants Commission to participate and present their research at the annual meeting of the Society of American Gastrointestinal and Endoscopic Surgeons held in Houston, Texas, USA from March 22- 25, 2017.

Dr. Shaji Thomas, Expert Reviewer for the journals, *World Journal of Surgery*, *Indian Journal of Surgery* and *National Medical Journal of India*.

Dr. Shaji Thomas, Examiner for MS (Surgery), AIIMS and for DNB, National Board of Examinations, Examiner for Final MBBS, LHMC, Dec., 2016.

Dr. Deborshi Sharma:

Elected Joint Secretary, Association of Minimal Access Surgeons of India during 11th AMASICON 2016, held from Nov. 16-20, 2016 in Kolkata.

Organizing Secretary for teaching program Surgery Clinical Oriented Post Graduate Examination (SCOPE) Course, twice in Feb. (4 days) and Aug. 2016 (2 days) and which was attended Surgery Post Graduate students from all over the country.

Appointed Expert in Union Public Service Commission, National Board of Examination and Employee State Insurance Medical College faculty selection Board

Appointed Master of Surgery examiner in Baba Faridkot University Punjab, Datta Meghe University, Wardha, Maharashtra and Srimanta Shankardev University, Guwahati, Assam.

Dr. Priya Hazrah, Reviewer, Postgraduate thesis, AIIMS, Peer Reviewer in reputed indexed international journals.

Dr. Gyan Saurabh:

Received travel grant from Ministry of Health and Family Welfare to present research paper, Role of 24 hour Ambulatory multichannel intraluminal Impedance pH monitoring in the management of symptomatic gastro esophageal reflux disease – A descriptive study at 24th International Congress of European Association for Endoscopic Surgery, held in Amsterdam, Netherlands, from June 15 to 18, 2016

Member of core – organizing committee of World Trauma Congress 2016- 3rd International Congress of World Coalition for Trauma Care and 8th Annual Conference of Indian Society of Trauma and Acute Care Organised by AIIMS, New Delhi, from Aug. 17- 20, 2016 at Vignyan Bhavan, New Delhi.

Core faculty in the teachers training courses Organised at LHMC. He is an active member of the Department of Medical Education at LHMC, New Delhi.

International faculty for Advance Trauma Life Support Courses (ATLSID:404187), recognized by American College of Surgeons, USA. He has been invited as an Advance Trauma life support faculty in ATLS Courses Organised at AIIMS, New Delhi and Dr. RML Hospitals, New Delhi.

External examiner for MBBS (Dec'2016) Examination at Vardhman Mahavir Medical College & Safdarjang Hospitals, New Delhi from 9 to 14 Dec., 2016.

Dr. Pawan Kumar, External Examiner. MBBS, Dec. 2016, Adesh Institute of Medical Sciences and Research, Bathinda.

Dr. Ranvir Singh, PG III was awarded the best paper Young Scholar Award during 11th AMASICON 2016 held from November 16-20, 2016 in Kolkata.

## Publications

- Khatri, P., Choudhary, M., Jain, M., Thomas, S. (2017). Role of morphometry in the cytological differentiation of benign and malignant thyroid lesions. *Journal of Cytology*, 34(1), 1-4.
- Kumar, J., Raina, R., Kumar, P. (2016). Medical error, An avoidable tragedy, *Pacific Journal of Medical Sciences*, 1(1), 1-6.
- Kumar, P., Kumar, J., Sharma D. (2016). Small Bowel obstruction as late sequelae of blunt abdominal trauma. *Pacific Journal of Medical Sciences*, 1(1), 7-10.
- Sharma, D., Yadav, Y., Borgharia, S. (2016). Non-traumatic extrahepatic biliary perforation: A diagnostic uncertainty and management dilemma. *Hellenic Journal of Surgery*, 88(2), 131-134.
- Sharma, D., Hazrah, P., Sattavan, S., Ganguly, P. K., Lal, R. (2016). Misadventure during laparoscopic sleeve gastrectomy: why it happened? How to prevent and recover from it? *Arq Bras Cir Dig*, 29, 134-135.
- Shukla, S., Singh, B. K., Pathania, O. P., Jain, M. (2016). Evaluation of HER2 / neu oncoprotein in serum & tissue samples of women with breast cancer. *Indian J Med Res*, 143 Suppl, S52-S58. doi: 10.4103/0971-5916.191769
- Suhani, Ali, S., Desai, G., Sharma, K., Thomas, S. (2016). Incisional Hernia as a cause of bladder outlet obstruction: A case report. *J Clin. Diagn. Res.*, 10(9), PD26-PD27. Epub.
- Thomas, S., Suhani., Desai, G., Shadan, A. (2016). Clinico-epidemiological profile of breast cancer patients and the retrospective application of Gail model 2, An Indian perspective. *Breast Diseases*, 36, 15-22.
- Vats, M., Pandey, D., Saha, S., Talwar, N., Saurabh, G., Andley, M., Kumar, A. (2016). Assessment of systemic inflammatory response after total extra peritoneal repair and Lichtenstein repair for inguinal hernia. *Hernia*. doi:10.1007/s10029-016-1543-1

## Books / Chapters Contributed

- Deo, S.V.S., Srivastava, A., Saha, S., Chumber, S. (2016). Mouth. In Sunil Chumber (Ed.), *Clinical Surgery, A Text and Atlas* (pp 253-267). New Delhi: Jaypee.
- Garg, S., Saha, S., Chumber, S. (2016). Neck. In Sunil Chumber (Ed.), *Clinical Surgery, A Text and Atlas* (pp 305-317). New Delhi: Jaypee.
- Khadgawat, R., Tandon, N., Vishwanath, Saha, S., Chumber, S. (2016). Thyroid. In Sunil Chumber (Ed.), *Clinical Surgery, A Text and Atlas* (pp 285-305). New Delhi: Jaypee.
- Kumar, R. *MCQ for GDMO*. Jaypee Brothers.
- Kumar, R. *Elsevier's comprehensive guide to combined medical services*. Elsevier's publication.
- Kumar, A., Saha, S., Srivastava, A., Chumber, S. (2016). Salivary Glands. In Sunil Chumber (Ed.), *Clinical Surgery, A Text and Atlas* (pp 267-275). New Delhi: Jaypee.
- Mishra, M.C., Asuri, K., Saha, S., Chumber, S. (2016). In Sunil Chumber (Ed.), *Clinical Surgery, A Text and Atlas* (pp 503-520). New Delhi: Jaypee.
- Saha, S., Agarwal, N., Pal, S., Chumber, S. (2016). Rectum and Anus. In Sunil Chumber (Ed.), *Clinical Surgery, A Text and Atlas* (pp 493-503) New Delhi: Jaypee.

## Seminars Organised

Surgery Clinical Oriented Post Graduate Examination Course (SCOPE Course), Delhi State Chapter of ASI, SCOPE Course, Feb. 11-14, 2016, PGIMER, Dr RML Hospital, New Delhi, Dr. Deborshi Sharma, Organizing Secretary.

## Conferences Organised

Delhi Chapter of Association of Surgeons of India, Sept., 2016, Dr. Ajay Kumar.

## Seminar / Conference Presentation

All faculty members of the Department of Surgery, LHMC participated as delegates, Delhi Chapter of Association of Surgeons of India, Monthly meeting of Delhi Chapter of ASI held at LHMC in Sept, 2016.

Ajay Kumar, Organizing Chairman, Delhi Chapter of Association of Surgeons of India, Monthly meeting of Delhi chapter of ASI held at LHMC in Sept, 2016.

Ajay Kumar, Chairperson, AIIMS, ENDOSURG 2017 - 11th AIIMS Surgical week, International live workshop CME cum conference.

Ajay Kumar, Chairperson, BLK Superspeciality Hospitals, New Delhi, SURGICON-2016 / BLK Superspeciality Hospitals, New Delhi, Nov11-13th, 2016.

Shaji Thomas, National Faculty, AIIMS, New Delhi, ENDOSURG 2017 - 11th AIIMS Surgical week, International live workshop, CME cum conference, March 16-19, 2017.

Shaji Thomas, Chairperson, BLK Superspeciality Hospitals, New Delhi, SURGICON-2016 / BLK Superspeciality Hospitals, New Delhi, Nov. 11-13th,2016.

Shaji Thomas, Dir-Prof, Expert Lecture, Intestinal fistulae, MAMC, SURGERY UPDATE & National CME, MAMC, Sept., 2016.

Shaji Thomas, Faculty Workshop on Effective Communication and Conflict resolution , Medical Education unit, LHMC, Dec. 15, 2016.

Shaji Thomas, Resource Person, Teachers Training course – Revised MCI Basic Course. Medical Education unit , LHMC, Feb., 21-23, 2017.

Shaji Thomas, Chairperson, SELSI Consensus meet to formulate, Indian guidelines for prevention and management of bile duct injury during laparoscopic cholecystectomy, AIIMS , New Delhi, Oct 2, 2016.

Shaji Thomas, Chairperson, Dr. RML Hospitals, New Delhi, CME – SCOPE Surgery Clinical Oriented PG Examination Course, March 12, 2017.

Shaji Thomas, Chairperson, Breast Cancer in the era of precision medicine, RGCON, 16 Annual International Conference – RGCON, India Habitat Centre, New Delhi Feb. 4, 2017.

Shaji Thomas, Chairperson, AIIMS, New Delhi, Symposia on thoracic Surgery, AIIMS, Jan 21-22, 2017.

Gyan Saurabh, Chairperson, AIIMS, New Delhi, ENDOSURG 2017 – 11th AIIMS Surgical week, International live workshop, CME cum Conference, March 16-19, 2017.

Gyan Saurabh, Presented research paper on Role of 24 hour Ambulatory multichannel intraluminal Impedance pH monitoring in the management of symptomatic gastro esophageal reflux disease – A descriptive study, European Association of Endoscopic Surgeons ( EAES ), 24 International Congress of European Association for Endoscopic Surgery , held in Amsterdam , Netherlands from June 15 to 18 ,2016.

Gyan Saurabh, Chairperson, AIIMS , New Delhi, BARICON -2016 , AIIMS, New Delhi , Dec1 – 3, 2016.

Gyan Saurabh, Guest Lecture, Advance Trauma Life Support Course, American College of Surgeons, Have delivered guest lecturers in various ATLS Provider & Instructor Courses held at AIIMS, New Delhi and Dr.RML Hospitals, New Delhi.

Gyan Saurabh, Faculty, Video presentation on VAAFT, BLK Superspeciality Hospital , New Delhi, SURGICON - 2016. BLK Superspeciality Hospital, Nov. 11-13, 2016.

V. K. Ramteke, Chairperson, BLK Superspeciality Hospitals , New Delhi, SURGICON-2016 / BLK Superspeciality Hospitals , New Delhi, Nov, 11-13th,2016.

O. P. Pathania, Chairperson, BLK Superspeciality Hospitals, New Delhi, SURGICON-2016 / BLK Superspeciality Hospitals, New Delhi, Nov. 11-13, 2016.

Ashok Kumar, Delegate, BLK Superspeciality Hospitals, New Delhi, SURGICON-2016 , BLK Superspeciality Hospitals , New Delhi , Nov. 11-13 ,2016.

Rahul Pusuluri, Delegate, BLK Superspeciality Hospital, New Delhi, SURGICON - 2016, BLK Superspeciality Hospital, Nov. 11-13th , 2016.

Lalit Agarwal, Faculty, BLK Superspeciality Hospital, New Delhi, SURGICON -2016 ,BLK Superspeciality Hospital, Nov. 11-13th,2016.

Rajeev Kumar, Delegate, BLK Superspeciality Hospital, New Delhi, SURGICON -2016 BLK Superspeciality Hospital, Nov. 11-13th ,2016.

M.P.Arora, Chairperson, MAMC, Surgery Update & National CME, MAMC, Sept., 2016.

Romesh Lal, Chairperson, MAMC, Surgery Update & National CME, MAMC, Sept., 2016.

Manoj Andley, Faculty.lecture on Rectal prolapse, MAMC, Surgery Update & National CME, MAMC, Sept., 2016.

Deborshi Sharma, Speaker, Liver Trauma, MAMC, Surgery Update & National CME, MAMC, Sept, 2016

Deborshi Sharma, Faculty Lecture, Laparoscopic management of Pancreatic Pseudocyst, 40 AMASI Skill course, Dept of Surgery, SMS Medical College, Jaipur.

Deborshi Sharma, Poster Presentation, Closure of Defect during Laparoscopic Incisional Hernia repair: Long term follow-up results, Society of American Gastrointestinal Endosurgeons (SAGES 2016), Boston, USA, Society of American Gastrointestinal Endosurgeons, LA, California, USA.

Deborshi Sharma, Poster Presentation: Role of MDCT based component separation Index (CSI) in Management of Large ventral hernia by component separation technique, Society of American Gastrointestinal Endosurgeons (SAGES 2016), Boston, USA, Society of American Gastrointestinal Endosurgeons, LA, California, USA.

Deborshi Sharma, Faculty Lecture, Laparoscopy in Acute Abdomen and Trauma, Faculty Lecture on Laparoscopic management of Pancreatic Pseudocyst, 42 AMASI Skill course, Dept of Surgery, Surya Hospital, Pune.

Deborshi Sharma, Speaker, Prosthesis in Hernia Surgery, What's New?, PG Master Class & CME, Gauhati City Chapter of Assam State Chapter of ASI.

Deborshi Sharma, Faculty Lecture on Trouble Shooting in Laparoscopy, Laparoscopic Bariatric Surgery, Laparoscopic management of Pancreatic Pseudocyst Laparoscopic management of Liver Hydatid cyst, 43 AMASI Skill course, Dept of Surgery, S N Medical College, Agra.

Deborshi Sharma, Moderator: Breast Lump, Ventral Hernia, PG Master Class, ASI, Rajasthan Chapter, Dr Deborshi Sharma, Faculty Lecture on Incisional Hernia Repair, 44 AMASI Skill course, Dept of Surgery, IPGMER, Kolkata.

Deborshi Sharma, Moderator: Live Surgery, SILS-GB, TAPP, Fellowship Indian Association of Gastrointestinal Endo-Surgeons Course, Department of Surgery, Fortis Memorial Hospital, Gurgaon.

Deborshi Sharma, Guest Lecture: Endoscopic Component separation during LVHR: Current scenario, 27 ASACON 2016 (Annual Conference of Assam State Chapter of ASI), Bongaigaon City Chapter, Assam State Chapter of ASI.

Deborshi Sharma, Speaker Laparoscopic Pseudocyst drainage, Years of experience and Is it a gold standard today?

Deborshi Sharma, Speaker, Debate, Endoscopic Component Separation is beneficial during LVHR (For the motion).

Deborshi Sharma, Speaker, Symposium of Paper writing: Preparing a Manuscript and submission, 11th International congress of minimal access surgeons of India (AMASICON 2016). Dept of Surgery, IPGMER, Kolkata

Deborshi Sharma, Speaker, Obesity Surgery in Women, Dr RMLH Experience, Obesity Day Program, Department of Obstetrics and Gynaecology, PGIMER & Dr RML Hospital, New Delhi.

Deborshi Sharma, Speaker, Debate- Defect Closure is beneficial in LVHR (For the motion), Speaker: TEP or TAPP beginners choice, Chairperson, Dr S K Sen Memorial Oration, BLK Superspeciality Hospitals, New Delhi., SURGICON-2016 / BLK Superspeciality Hospitals, New Delhi, Nov. 11-13th, 2016.

**Faculty Strength – 24**

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## **SURGERY (UCMS)**

### **Honours / Distinctions**

Dr. Garg P. K:

Communication Workshop Award during IASLC 17th World Conference on Lung Cancer in Vienna, Austria, Dec, 2016.

UICC Travel Award to attend World Cancer Congress at Paris, France. 2016, Oct. 31-Nov 3, 2016.

Successfully completed UICC Master Course on Dissemination and implementation research in cancer control Organised by National Cancer Institute (NCI), USA.

Appointed Associate Fellow of American College of Surgeons.

## Publications

- Agrawal, V., Joshi, M.K., Jain, M., Gupta, S. (2016). Affect on quality of life following rubber band ligation or cryosurgery for hemorrhoids: a randomized clinical trial. *New Indian Journal of Surgery*. 7(2),185-189. doi: <https://dx.doi.org/10.21088/nijs.0976.4747.7216.21>
- Garg, P.K., Deo, S.V., Kumar, R., Shukla, N.K., Thulkar, S., Gogia, A., Sharma, D.N., Mathur, S.R. (2016). Staging PET-CT scanning provides superior detection of lymph nodes and distant metastases than traditional imaging in locally advanced breast cancer. *World J Surg.*, 40(8), 2036-42.
- Garg, P.K., Goel, A., Jain, B.K. (2016). Positron-emission tomography - Computed tomography for cancer screening: Boon or bane. *Indian J Surg.*, 79, 84-85.
- Garg, P.K., Jakhetiya, A., Sharma, J., Ray, M.D., Pandey, D. (2016). Lymphadenectomy in gastric cancer: Contentious issues. *World J Gastrointest. Surg.*, 8(4), 294-300.
- Garg, P.K., Kumar, A. (2016). Male breast cancer: An often forgotten diagnosis. *Ann Afr Med*, 15, 93-4.
- Garg, P.K., Sharma, J., Jakhetiya, A., Goel, A., Gaur, M.K. (2016). Preoperative therapy in locally advanced esophageal cancer. *World J Gastroenterol.*, 22(39), 8750-8759.
- Garg, P.K., Singh, S.K., Prakash, G., Jakhetiya, A., Pandey, D. (2016), Role of positron emission tomography-computed tomography in non-small cell lung cancer. *World J Methodol.*, 6, 105-11.
- Gaur, M.K., Goel, A., Gupta, S. (2017). An elephantine problem. *Eur J Intern. Med.*, pii: S0953-6205(17)30078-X. doi: 10.1016/j.ejim.2017.02.016. Epub ahead of print, PMID: 28238567.
- Singh, I., Gautam, L. K., Kaur, I. K. (2016). Effect of oral cranberry extract (standardized proanthocyanidin-A) in patients with recurrent UTI by pathogenic E. Coli: a randomized placebo-controlled clinical research study. *Int Urol. Nephrol.*, (10).1007/s 11255-016-1342-8. ISSN 0301-1623(Print), Online ISSN 1537-2584
- Jain, B. K., Garg, P. K. (2016). Live demonstration of a procedure during a workshop: Can such demonstrations be allowed to continue? *Dig Endosc.*, doi:10.1111/den.12754. Epub ahead of print, PubMed PMID: 27862358
- Jakhetiya, A., Garg, P.K., Pandey, R., Ramanathan, P., Kumar, S., Nath, D., Pandey, D. (2017). Surgical management of bronchopulmonary carcinoids: Single centre experience. *South Asian J Cancer*, 6, 6-10.
- Jakhetiya, A., Garg, P.K., Prakash, G., Sharma, J., Pandey, R., Pandey, D. (2016), Targeted therapy of gastrointestinal stromal tumours. *World J Gastrointest. Surg.*, 8, 345-52.
- Jakhetiya, A., Shukla, N.K., Deo, S.V.S., Garg, P.K., Thulkar, S. (2016), Deep vein thrombosis in Indian cancer patients undergoing major thoracic and abdomino-pelvic surgery. *Indian J Surg. Oncol.*, 7, 425-429
- Kumar, A., Aggarwal, K., Agrawal, H., Sharma, S., Garg, P.K. (2016). Unicentric Castleman Disease: An unusual cause of an isolated neck mass. *Malays J Med. Sci.*, 23(4), 86-9.
- Pandey, D., Garg, P. K., Jana, M., Sharma, J. (2016). Retroperitoneal lymphangiectasia. *ANZ J Surg.*, 86, 517-8.
- Pandey, D., Garg, P.K., Ray, M.D., Mishra, A. (2016). Surgical controversies in the management of post chemotherapy nonretroperitoneal residual disease in metastatic non-seminomatous germ cell tumors. *South Asian J Cancer*, 5, 20-2.
- Ray, M.D., Garg, P.K., Jakhetiya, A., Kumar, S., Pandey, D. (2016). Modified skin bridge technique for ilio-inguinal lymph node dissection: A forgotten technique revisited. *World J Methodol.*, 6(3), 187-9.
- Ray, M.D., Khurse, B.B., Chauhan, T., Jakhetiya, A., Garg, P.K. (2016). Multivisceral resection for growing teratoma syndrome: overcoming pessimism. *J Community Support Oncol.*, 14, 320-322.
- Sultania, M., Pandey, D., Chandrasekhara, S.H., Garg, P.K. (2016), Unfavourable vascular anatomy for esophageal reconstruction: a case for chemoradiation in operable esophageal cancer. *J Gastrointest Cancer*. Epub ahead of print, PubMed PMID: 27858302
- Thakur, S., Grover, R. K., Gupta, S., Yadav, A. K., Das, B. C. (2016). Identification of Specific miRNA Signature in Paired Sera and Tissue Samples of Indian Women with Triple Negative Breast Cancer. *PLoS One*, 11(7), e0158946. doi: 10.1371/journal.pone.0158946

## Books

- Gupta S. (2016). Retroperitoneal tumours. In Misra P.K. (Ed.), *Textbook of Surgical Gastroenterology* (1st Edn., pp 399-406). New Delhi: Jaypee Brothers Medical Publishers (P) Ltd.

### **Conference / Seminar Presentations**

Garg, P.K., Communication Workshop during IASLC 17th World Conference on Lung Cancer in Vienna, Austria, Dec. 3, 2016.

Garg, P.K., Co-Organised National Symposium on Thyroid Cancer at Indian Islamic Cultural Centre, New Delhi. Sept. 24, 2016.

Garg, P.K., Participated as Faculty in Workshop on Thesis Writing and Research Methodology Organised by National Board of Examinations, held from Jan. 6-9, 2017 in Swamy Dayanand Hospital.

Garg, P.K., Invited lecture in pre-congress AOGD Advanced Gynae Oncosurgery Video Workshop Organised by AOGD Oncology Committee & Dept. of Obstetrics & Gynecology, University College of Medical Sciences & Guru Teg Bahadur Hospital, Delhi at Hotel Ashok, Delhi. Nov. 11, 2016.

Garg, P.K., Invited lecture in National Symposium on Thyroid Cancer at Indian Islamic Cultural Centre, New Delhi. Sept. 24, 2016.

Garg, P.K., Participated as faculty in Post Graduate thesis protocol writing workshop Organised by Medical education Unit, UCMS, in University College of Medical Sciences, Delhi, Aug. 12-20, 2016.

Garg, P.K., Kaur, N., Paper on A study on risk factor profile in young women with breast cancer won special prize in the poster presentation category at the ABSICON 2016, 5 Annual Conference of Association of Breast Surgeons of India, Bengaluru, Karnataka, 1 -3, July.

### **Faculty Strength – 9**

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## **FACULTY OF MUSIC AND FINE ARTS**

### **Major Activities and Achievements**

The year 2016-2017 witnessed all round progress and development of the Faculty of Music & Fine Arts, both on the academic and on the cultural front. Students excelled in performances and participated in prestigious music conferences. Few of them have become graded artistes of A.I.R. and Doordarshan. Faculty members received prestigious awards – Vidushi Krishna Bisht honoured with *Sangeet Natak Academy Award*, 2016. Pt. Dalchand Sharma awarded with *Tansen Samman* 2016.

In order to enhance teaching and research activities, the University Grants Commission granted the Special Assistance Programme (DSA-I). The Department organised a series of shows, four Audio Visual programmes and three workshops for the benefit of the students along with the Annual *Malhar Utsav* in August 2016 and National Seminar in March, 2017. Departmental competitions were organised and students performed on the occasion of Saraswati Puja on 1 Feb., 2017.

### **Honours / Distinctions**

Prof. Anupam Mahajan received the International Award from Strings & Steps – March, 2017.

Prof. Deepti Bhalla received the *Nritya Shikhamani* award from *Delhi Karnataka Sangita Sabha* and *Tirupati Tirumala Dewasthanam*, Delhi, Jan., 2017.

Prof. Ojesh Pratap Singh was honoured with *Gaan Ratna* award, Sangeet Sabha, Pathankot, April, 2016

### **Publications**



The departmental bi-annual journal, *Vageeshwari* (Vol. XXX), was published in Sept., 2016,. Editor – Prof. Suneera Kasliwal, Editorial Board – Prof. Deepti Bhalla, Prof. Shailendra Goswami, Dr. Ananya Kumar Dey, Dr. Jagbandhu Prasad, Dr. Rajpal Singh, Dr. Ajay Kumar and Dr. Rishitosh Kumar.

Articles and Research papers in *Vageeshwari*, XXX:

Kumar, A. (2016). Membranophone of Southeast Asia.

Bindu. M.V (2016). Folk arts with special reference to region of Malabar.

Dey, A. K. (2016). Tarana-A meaningful expression with meaningless syllabus.

Goswami, V. (2016). Muradabadi shaili ki ramleela.

Prasad, J. (2016). Bhakt kaviyo ke pado me sangeet darshan.

Kumar, R. (2016). Tabla vadan ke nikas vidhi me dipushkar vadhya evam delli gharana-Ek samikshatmak vivechan.

Sharma, S. (2016). Hariyana ke lokgiton me ragatmak anubhuti.

Tiwari, H. K. (2016). Bhartiya sangeet ke manch pradardshan me shrota:Ek vishleshan.

Bhalla, D., (2016). (Ed.), Swara bharati, 2016. *Sangita Ratnakar*, 8.

Bhalla, D., (2016). Peer reviewer, An analysis of music courses offered in the primary school teacher education Programme in Turkey. USA: Horizon Publishing House

Manikandan, T. V. (2016). Saint Arunagirinathar and Thiruppugazh. *Anhad Lok*.

Dey, A. (2016). The influence of Hindustani classical music on Rabindranath Tagore's musical compositions. *Sangitika*, 2(2).

Kumar, R. (2016). CD Released, *The Rhythmic Glance of Banaras*. SwarAnant Music Pvt. Limited.

Goswami, V. (2016). CD Released, *Nada Smarpan*, SwarAnant Music Pvt. Limited.

### **Research Projects**

Sangeet Natak Akademi Intangible Cultural Heritage, Ministry of Culture, Govt. of India, 2015 – 2017, *Tradition of Pandit Anokhe Lal Mishra: Preserving the Cultural Heritage of the Banaras Gharana*, , under , Dr. Ajay Kumar.

Srinivas Malliah Memorial Theatre Crafts Museum, New Delhi, 2015-2016, *Conservation & repairing of Musical Instruments & preparing of catalogue*, Prof. Suneera Kasliwal.

### **Seminar Organised**

National Seminar on The Contribution of Women to the Indian Classical Music – 2017, at Sir Shankar Lal Concert Hall on 7 and 8 March, 2017.

### **Conferences Organised**

The Malhar Utsav 2016, a two day festival of Indian classical music, organized by the Dept. of Music, University of Delhi, every year in the month of August. It celebrates the joy and spirit of the rainy season, through vocal and instrumental renditions of the many varieties of the Malhar raga, prime amongst them being Miyan ki Malhar, Gaud Malhar, Megh Malhar and so on. It has for the past two years, been organized at the very prestigious Convention Hall, Vice Regal Lodge, University of Delhi.

Held on 30 and 31 Aug., 2016, the festival had Prof. Yogesh Tyagi, Vice Chancellor, University of Delhi, as the Chief Guest and Padma Vibhushan Vidushi Kapila Vatsyayan, was the Guest of Honour. Vidushi Vatsyayan gifted two rare musical instruments, that were played by her mother during the yesteryears.

The programme saw many artistes render many beautiful compositions in both vocal and instrumental music. A Tabla ensemble titled - *Mangal Dhwani*, a Carnatic music presentation titled *Amrita Varshini*, and a Hindustani vocal and instrumental ensemble titled - *Mangal Varsha*, were all presented by the students and conducted by the teachers of Music Department, spread over both the days.

These apart, on the first day, there was a Sarod recital by Shri. Smit Tiwari, an alumni of the Dept., a Carnatic vocal recital by Shri. Vishnudev Namboodhiri from Chennai, and an Esraj ensemble by Pt. Buddhadev Das and his students, from Vishwa Bharati University, Shantiniketan, West Bengal.

Pt. Dal Chand Sharma from Delhi and a senior staff artiste of the Dept. of Music, enthralled the audiences by his Pakhawaj recital, as also did Smt. Gauri Pathare, with her Hindustani classical vocal recital.

### **Seminar / Conference Presentation**

Suneera Kasliwal, Paper presentation on the 'Bowing Instruments' - in International Seminar 'Instruments Then and Now' under the aegis of Indian Musicological Society, at NCPA, Mumbai, 21 Jan., 2017.

Suneera Kasliwal, Expert in the special documentation of the string instrument making workshop of 'Surbahar' at Sangeet Natak Akademi, New Delhi, on 28 Jan., 2017.

Anupam Mahajan, Expert, panel discussion on Documentation in the Instrument *Surbahar* at Sangeet Natak Academy, 28 Jan., 2017.

Anupam Mahajan, Lecture Demonstration on *Rasanubhuti* at ICCR, 21 March, 2017.

Anupam Mahajan, Lecture, Importance and Documentation of References in Indian Music Research, at G.N.D.U, Amritsar, 23 and 24 Jan., 2017.

Prateek Chaudhai, Musical Concert presentation in the Musical Conference titled *Silsila*, held in the memory of Vocalist Ustad Ghulamsadiq Khan of Rampur Shehswan Gharana in Stein Auditorium, India Habitat Centre, New Delhi, 2 April, 2016.

Prateek Chaudhai, Musical Concert presentation in Talgajarda, Bhavnagar District, Gujrat in the Musical Conference organized by Morari Bapuji, 19 April, 2016.

Prateek Chaudhai, Conducted the Special Sitar Ensemble called Sitar of India in the Youth Festival organized by Sahitya Kala Parishad in the Central Park in Connaught Place, New Delhi, 7 March 2017.

Prateek Chaudhai, Lecture Demonstration and Paper Presentation in the National Seminar on Music and Yoga as Alternative Therapies, organized by the Department of Music, Guru Nanak Dev University, Amritsar, 21 March 2017.

Bindu M.V., Presented paper at National Seminar, organized by Dept of Music, University of Delhi titled Contribution of Veena Dhanammal to Karmatak Music, March, 2017.

Rishitosh Kumar, Presented a Tabla Ensemble at 93<sup>rd</sup> Convocation organised by University of Delhi, 19 Nov., 2016 and also in XXII DAE-BRNS High Energy Physics Symposium at Khalsa College, DU, 14 Dec., 2016.

Harish Tiwari, Performed at *Alladiyan Khan Music Festival*, Chembur, Mumbai, 10 April, 2016.

Harish Tiwari, Workshop on Indian Dance, organised by Sangit Natak Academy, Delhi, 27 & 28 Dec., 2016.

Harish Tiwari, Presented Morning Ragas in 'Swara Prabhat' organised by Sangit Natak Academy, April 2016.

Anupam Mahajan, Deepti Bhalla, Lecture on 'Traditional Art form of Kerala', online course lecture, University of Hyderabad, March 2017.

Ojesh Pratap Singh, Lecture Demonstration at Mata Sundari College April, 2017

### **Students under Exchange Programme**

Students of Ravi Raj Institute from Coimbatore visited the Dept. on 25 Dec., 2016 at Around 50 students, visited our library and museum and a programme of students was organised.

Students of the Department participated in *Sur Poorva Festival* of choral music and Instrument Ensembles with Special focus on north east on 29-31 March, 2017 at Rajkot, Gujarat, Organised by Sangeet Natak Akademi, New Delhi.

Two students of instrumental section (string instruments) participated in Silk-road Universities Network (SUN) festival, to perform in the 3<sup>rd</sup> Silkroadia Philharmonic Orchestra held in Korea National University of Arts, Seoul, South Korea in Aug., 2016.

### **Ph.D. / M.Phil Awarded**

Ph.D. – 18

### **Faculty Strength**

Permanent – 16

Ad-hoc. – 8

### **Other Significant Information**

Sadhayan: A baithak (seated on the floor in style of concert) is organised from time to time, in order to promote young and promising students from within the department, to give them a platform to showcase their talent in the league of established artistes of national standing. These concerts were held twice this year.

Two day Workshops by three eminent musicians were organized:

Tabla workshop by Pt. Raj Kumar Mishra on 28 Aug., 2016.

Vocal workshop by Pt. Vidyadhar Vyas dated 17-18 Oct., 2016.

Sitar Workshop by Pt. Ashok Pathak dated 20-21 Oct., 2016.

Audio Visual Show:

The Department organised a series of Audio Visual shows, sponsored by the Sangeet Natak Academy. Experts from various fields were invited to present audiovisual shows for students of all four streams:

Pt. D. V. Paluskar (Hindustani Classical Vocalist) 05 Aug., 2016.

Ustad Allauddin Khan (Instrumentalist) 21 Sept., 2016.

Vidushi M. S. Shubhalakshmi (Carnatic Music) 25 Jan., 2016.

Ustad Ahmadjan Thirakuwa (Tabla) 28 Feb., 2016.

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## **FACULTY OF SCIENCE**

### **ANTHROPOLOGY**

#### **Major Activities and Achievements**

Research work in the department covers lifestyle problems, quality of life, obesity, genetic markers, coastal adaptation of east and west coastal region of India with regard to anthropological dynamics. New courses have been introduced in M.Phil., wherein, the main focus is on skill development and holistic approaches encompassing traditional and modern development methods. The Department was also allotted *ePGPathshala* and MOOC Programme in Anthropology by UGC-MHRD. Various dimensions of forensic science researches have started in 2016 with focus on handwriting, facial identification, cybercrime, and biometric dynamics among the Indian population. Presently, the focus of the subject has shifted to newer areas of research like neuroanthropology, fashion anthropology, changes in lifestyle and health pattern of different populations. The scholars of the department went to Debrecen as EVS Volunteers under the European Union Project.

#### **Honours / Distinctions**

Prof. A. K. Kapoor was Session Chairperson, Inter-Congress International Union of Anthropological and Ethnological Sciences, 2016, Dubrovnik, Croatia, 4-7 May, 2016.

Prof. P. C. Joshi was identified as expert on child malnutrition to deliver a Talk to parliamentarians coming from various countries in the Parliamentarians' International Conference on Sustainable Development Goals for Children Organised at New Delhi, 10-11 Dec., 2016.

### Publications

Acharya, S. K., & Kshatriya, G. K. (2016). Burden of undernutrition and hypertension among selected tribes of West Bengal and Odisha. In A.K. Kapoor and M. Saini (Eds.), *Human Development Anthropological Insights*, 1, 68-92.

Acharya, S. K., Das, P. K., & Kshatriya, G.K. (2016). Biomedical research ethics involving humans and issues of human rights in india: Observations from violation of informed consent and illegal Medical/Drug experiments. Dr. P Vatsala (eds.), *Human Rights Education: Issues and Challenges*, 32-48.

Akerkar, S., Joshi, P. C., & Fordham, M. (2016). Cultures of entitlement and social protection: Evidence from flood prone Bahraich, Uttar Pradesh, India. *World Development*, 86, 46-58.

Aurora, H., & Satwanti, K.. (2016). Tuberculosis, malnutrition and socio-demographic characteristics: A case control study. In Srivastva, V. K., Kapoor, A. K., Dhall, M. (Eds.), *Environment, development, public policy and health: Anthropological perspectives*. B.R Publication.

Heemanshu, A., & Satwanti, K.. (2016). Determinants of lost to follow up during treatment among tuberculosis patients in Delhi. *International Journal of Medical Research & Health Sciences*, 5(1), 145-152.

Bandooni, S.K., Hasija, A.M., Devi M. L., & Joshi, P. C. (2017). The participation of local communities and NGOs: A step towards sustainable development in Garhwal Himalaya. *World Focus*, 450, 111-117.

Bansal, A., & P. C. Joshi. (2017). Assessment of cardiovascular risk factors among Sunni Muslims of Delhi, India. *Eurasian Journal of Anthropology*, 7(2), 37-50.

Bansal, A., & Joshi.P.C. (2016). Association of cardiovascular disease risk variables with depression in urban population of Delhi, India. *Delhi Psychiatry Journal*. 19(2), 45-53.

Bhasin, P., & Kapoor, S. (2016). The difference in blood pressure readings between arms and cardiovascular risk: An urbanite Indian study. *Atherosclerosis*, 252, e18.

Bhasin, Prerna., Kapoor, Satwanti., Kapur, Y., P. (2017). Cardio-metabolic biomarkers in adolescents: Estimating health risks through filial ties over three generations. *Clinical Journal of Heart Diseases*, 1(1), 1002.

Bhuker, M., & Kapoor, S. (2017). Validation of asthma life quality test (ALQ) for the screening of asthma among Indian adults. *Indian Journal of Chest Diseases and Allied Sciences*, In press.

Chandel, S., & Malik, S. L. (2017). Inter-population variation in body size and body proportion among Kshatriya and Kurmi females of Uttar Pradesh, India. In S. Ghosh & D. K. Limbu, *Readings in Biological Anthropology*. New Delhi: B.R. Publishing House. In Press

Chandiok, K., Mondal, P. R., Mahajan, C., & Saraswathy, K. N. (2016). Biological and social determinants of fertility behaviour among the Jat women of Haryana State, India. *Journal of Anthropology*, 2016.

Channa, S. (2017). Seeking identity on the margins of democracy: JadBhotiyas of Uttarkashi. In Arora, V., & Jayaram, N., *Democratisation in the Himalayas: Interests, Conflicts, and Negotiations*. 27-53, New Delhi: Routledge.

Choudhary, V. and Kapoor, A. K. (2016). Identification dynamics among population groups of Delhi. *Proceedings of National Seminar on Anthropology: Unveiling the Mystique*, Delhi: IGNOU, In Press.

Deepani, V. & Kapoor, A. K. (2016). Variability of PTC and colour-blindness among population groups of western India. *Indian Journal of Research in Anthropology*, 2(1), 39-43.

Deepani, V., Saini, M., & Kapoor, A. K. (2017). Cognitive dimensions of health management among select Indian tribes. *Genus Homo*, In press.

Deepani, V., Saini, M., & Kapoor, A. K. (2017). Demographic fluctuations among Himalayan Populations. *Indian Journal of Research in Anthropology*, In press.

Deepani, V., Saini, M., & Kapoor, A. K. (2017). Identification of ethnic groups through handwriting. *Egyptian Journal of Forensic Science*, Sent for Publication.

- Dey, S., & Kapoor, A. K. (2016). Digit ratio (2D: 4D) – A forensic marker for sexual dimorphism in north Indian population. *Egyptian Journal of Forensic Sciences*, 6(4), 422-428.
- Dey, S., & Kapoor, A. K. (2016). Hand index: An anthropo-forensic tool for human identification in India. *Asian Journal of Science and Applied Technology*, 5(2), 1-9.
- Dhall, J. K., & Kapoor, A. K. (2016). Development of latent prints exposed to destructive crime scene conditions using wet powder suspensions. *Egyptian Journal of Forensic Sciences*, 6(4), 396-404.
- Dua, S., Dhall, M., & Kapoor, S. (2016). The magnitude of obesity and its relationship to blood pressure among Punjabi residents of Delhi. *International Journal of Medical and Health Sciences*, 5(1), 20-26.
- Feroz, N., Dhall, M., & Kapoor, S. (2016). Behavioural indicators as risk of diabetes mellitus: A community based study in Manipur. *Diabetes Research - Open Journal*, 2(1), 8-13.
- Gupta, U., Dhall, M., & Kapoor, S. (2017). Association of high blood pressure and obesity among adult females of Delhi. *Human Rights International Journal*, 5(1), 27-30.
- Joshi, P. C. (2017). Guest Editor, Special issue on environment and sustainable development: Emerging challenges. *World Focus*, 450.
- Joshi, P. C. (2016). Antiquity and novelty of climate change. *World Focus*, 442, 5-8.
- Joshi, P. C. (2016). Emergence of medical anthropology in India. *The Eastern Anthropologist*, 69(1), 1-11.
- Joshi, P. C. (2016). Extreme weather events and the himalayas: learning from the recent flood disasters. *World Focus*, 437, 12-16.
- Joshi, P. C. (2016). Negotiating rapport and shades of participant observation: notes from fieldwork in Jaunsar-Bawar. *Journal of Indian Anthropological Society*, 51 (3), 117-127.
- Joshi, P. C. (2017). Emerging challenges in sustainable development and Indian experiments. *World Focus*, 450, 12-15.
- Joshi, P. C. Book Review. (2016). A. N. Nayak, Burden of Lymphatic Filariasis in rural Odisha: A study in medical Anthropology. *The Eastern Anthropologist*, 69, 3&4, 522-524.
- Joshi, P. C. Book Review. (2016). In S. K. Gupta and V. K. Srivastava (Eds.), Exploring Indian Society: Essays in Honour of Yogesh Atal. *The Eastern Anthropologist*, 69, 3&4, 521-522.
- Joshi, P.C. (2017). Human rights, wild life and environmental protection. *Social Change*, 47(1), 1-10.
- Joshi, P.C., Khattri, P., & Sharma, K. (2016). Social response to extreme weather events: some empirical evidences from India. *The Eastern Anthropologist*, 69, 3&4, 489-508.
- Kameih, G., & Kshatriya, G. K. (2016). Fertility and its determinants among the Lamkang tribe of Chandel District, Manipur. *Human Biology Review*, 5(1) 92-103.
- Kapoor, A. K. (2016). Forensic Anthropology: A paradigm shift in classical discipline. *Journal of Forensic Anthropology*, 1,(1).
- Kapoor, A. K., & Deepani, V. (2017). Coastal anthropology: A future dynamics in India. *The International Journal of Social Sciences and Humanities Invention*, 4(7), 3576-3581.
- Kapoor, A. K., & Singh, K. (2016). Demographic dynamics in tuberculosis patients of Delhi. *International Journal of Medical Research & Health Sciences*, 5(4), 43-49
- Kapoor, A. K., & Singh, K. (2016). Relationship between the lifestyle and Tuberculosis study of Delhi. *International Journal of Applied Research*, 6(5), 131-135.
- Kapoor, A. K., Deepani, V., Dhall, M., & Kapoor, S. (2016). Pattern of socio-economic and health aspects among TB patients and controls. *Indian J Tuberc*, 63(4), 230-235.
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- Kapoor, A. K., Dhall, M. (2016). Poverty, malnutrition and biological dynamics among tribes of India. *Health Science Journal*, 10(3:5), 1-5.
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#### **Books:**

- Kapoor, A. K. & Gawali, G. (Eds.), (2016) *Human Development: Psychological Insights*. New Delhi: Nirmal Publication.
- Kapoor, A. K. & Kshatriya, G. K. (Eds.). (2016). *Human Development: Behavioural Science Insights*. New Delhi: Nirmal Publication.
- Kapoor, A. K. & Saini, M. (Eds.), (2016). *Human Development: Anthropological Insights*. Vol-I. New Delhi: Nirmal Publication.
- Kapoor, A.K. & Saini, M. (Eds.), (2016). *Human Development: Anthropological Insights*. Vol-II. New Delhi: Nirmal Publication.
- Kapoor, A. K., Dhall, M. & Choudhary, V. (Eds.), (2016) *Human Development: Nutritional Insights*. New Delhi: Nirmal Publication.
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- Kapoor, A. K., Singh, M. K. & Verma, V.K. (Eds.), (2016). *Human Development: Ethno-Environmental and Archaeological Insights*. New Delhi: Nirmal Publication.
- Naorem, A. D., and Singh, M. K. (2017). *Neolithic Culture of North- East India (with special reference to Manipur)*. Delhi: Research India Press
- Srivastava, V. K., Kapoor, A. K. & Dhall, M. (Eds.), (2016). *Environment, Development, Public Policy and Health: Anthropological Perspectives*. Vol-I. New Delhi: B.R. Publishing Company.
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- Vats, Y. & Kapoor, A.K. (2016). *Lip Prints: An Anthro-Forensic Dynamics*. Delhi: Shree Kala Prakashan. ISBN 978-93-85329-18-0

#### **Research Projects**

Prof. A.K. Kapoor:

DU - DST Sponsored Project, 2014-2018, *Bio-Social and Health Dynamics among Fishing Community of Coastal India*, Rs. 38,00,000/-

MHRD, UGC Sponsored Project 2014-2017, PG e-pathshala Project, Rs.1,12,000/-

UGC Sponsored Project, *MOOCs*, 2016, Govt. of India, MHRD.

Prof. Satwanti Kapoor, DU - DST Purse Grant, 2014-2018 *Association of genetic variants with symptoms of metabolic syndrome among urban and rural population groups*, Rs.31,00,000/-

Prof. P. C. Joshi (PI) and Dr. K. N. Saraswathy (Co-PI), ICSSR, New Delhi, 2017-18, *Determinants of Suicidal Behaviour: A Study from Telangana State*, Rs. 8,00,000/- ( ).

Dr. Meenal Dhal, DST Start up grant for Young Scientists, 2015-2018 *Quality of life with metabolic syndrome and its associated genetic markers among North Indian adults*, Rs. 25,00,000/-

### **Seminars Organised**

Prof. Satwanti Kapoor, National Seminar, Role of Anthropology and Forensic Science in National Development, Dept. of Anthropology, University of Delhi, Delhi, 24-25 March, 2017.

Prof. Satwanti Kapoor, Co-organiser, Workshop, Decoding SPSS., Conference Centre, North Campus, University of Delhi, Delhi, March 17.

Prof. Satwanti Kapoor, Workshop, Yoga and Nation Building: An Anthropological Perspective, in the Dept. of Anthropology, University of Delhi, Delhi, June 21, 2017.

Prof. Subhadra Channa Organised panel Generating Knowledge from the Margins and Its Relevance in a Globalizing World and read Paper Visiting Caste and Indian Society from the Margins: Contribution from Dalit Perspectives, IUAES, Dubrovnik, Croatia, May, 2016.

Prof. Soumendra M. Patnaik organised a panel, Engaged Anthropology and Public Policy in Neo-liberal Economy, Inter-congress of IUAES at Dubrovnik, Croatia, 2016.

Dr. M.Kennedy Singh, Joint Secretary of the Organizing Committee for National Seminar on Role of Anthropology and Forensic Science in National Development, 24-25 March, 2017, Organised by Department of Anthropology, University of Delhi, Delhi.

Dr. M.Kennedy Singh, Convener for One Day Seminar on the occasion of International Yoga Day, 21st June 2017 in the Department of Anthropology, University of Delhi, Delhi

### **Conferences Organised**

National Conference Negotiating Fieldwork: Unfolding of Institutional Practices and Contemporary Challenges, 16-17 Sept., 2016, International Guest House, University of Delhi.

### **Seminar / Conference Presentation**

Subhadra Channa, Presented Paper, *Explaining the cognitive dimensions of illness and healing from a non-western/ indigenous perspective*, two day International Seminar Organised by the Asiatic Society, Calcutta, on Tribal Indigenous Health Care System: Tribute to P.O.Bodding, 23-24 Feb., 2017.

Subhadra Channa, Presented Paper, *Gods, Dams and the Enemy Across: Negotiating the sacred environment on the Himalyan Borders*, panel, Mountains as Sacred Sources for Social Activism at the New School in New York on Mountains and Sacred Landscapes, co-Organised by The International Society for the Study of Religion, Nature and Culture and India China Institute, The New School, 20-23 April, 2017.

Subhadra Channa, Presented Paper, *Visiting Caste and Indian Society from the Margins: Contribution from Dalit Perspectives*, IUAES, Dubrovnik, Croatia, May, 2016.

Subhadra Channa, Presented Paper, *The Relevance/Irrelevance of the philosophy of Elwin's life and writings in the light of contemporary North-East tribes of India and the Indian State*, Conference on the Contributions of Verrier Elwin, Centre for North-East Studies, Jamia Milia University, Delhi, Sept., 2016.

Satwanti Kapoor, Presented Paper and chaired Session, 103rd Indian Science Congress organised by the Indian Science Congress Association at SV University, Tirupati, 3-7 Jan., 2017.

Satwanti Kapoor, Presented Paper *World Anthropologies and privatization of knowledge: Engaging Anthropology in Public*, IUAES Inter-Congress, Dubrovnik, Croatia 4-9 May, 2016.

A.K. Kapoor, Invited Lecture, National Conference, *Forensic Science and Criminalistics*, Forensics Agora 2016: Fostering quality use of Forensics in Criminal Investigation, Division of Forensic Science, School of Basic and Applied Sciences, Galgotias University, Greater Noida, 21-22 April, 2016.

A.K. Kapoor, Session Chairperson, National Seminar on Celebrating Anthropology: The Human Science, Dept. of Anthropology, University of Delhi, Delhi, 22-23 April, 2016.

A.K. Kapoor, Session Chairperson, Panel 160: A Bio-social approaches to nutrition, health and identity, International Union of Anthropological and Ethnological Science-2016, Mid-Congress at Dubrovnik, Croatia. 4-9 May, 2016.

A.K. Kapoor, Paper Presented, IUAES Congress 2016, Dubrovnik, Croatia, 4-9 May, 2016.



P. C. Joshi presented key paper *Status of Teaching and Research in Medical Anthropology in India*, via Skype, International Symposium on Medical Anthropology in Unstable Globalizing World, Moscow, Russia, June 29-July 1, 2017.

Soumendra M.Patnaik, presented paper, *Team Ethnography as an Extension of Institutional Space: Exploring the Power Dynamics*, National Seminar, Negotiating Fieldwork: Unfolding of Institutional Practices and Contemporary Challenges, International Guest House, University of Delhi, 16-17 Sept., 2016.

Avitoli G Zhimo, Presented Paper, *Visuals in Anthropology and Anthropology in Visuals*, National Seminar, Celebrating Anthropology: The Human Science, University of Delhi, 22-23 April, 2016.

Avitoli G Zhimo, Presented Paper, *Environment and Indigenous Healing practices: Reflexive Account of the Zeme*, Seminar on Environmental Anthropology Today: Challenges and Road Ahead, Dept. of Anthropology, University of Delhi, Oct. 28, 2016.

Avitoli G Zhimo, Presented summary of panel discussion, Workshop *Step up for DRR campaign*, Dept. of Anthropology, University of Delhi, Oct. 21, 2016.

M. K. Singh, Presented Paper, *Transition of culture in Prehistory*, 104th session of Indian Science Congress, S. V. University, Tirupati, 3-7 Jan., 2017.

M. K. Singh, Presented Paper, *The earliest human existence in Europe*, National Seminar, Anthropology and Forensic Science in Nation Development, Dept. of Anthropology, University of Delhi, Delhi, 24-25 March, 2017.

M. K. Singh, Presented and Organised session, *Origin of Agricultural Practices on Gangetic Plain in a Global Perspectives*, Eight World Archaeological Congress, Kyoto University, Kyoto, Japan, August 28-Sept. 02, 2016.

M. K. Singh, Presented Paper, *Evidence of Mode I culture from Europe: Some Issues*, International Conference on Politics, Society and Culture in South Asia at Ethnographic and Folk Culture Society, Lucknow, 3-5 March, 2017.

Meenal Dhall, Keynote speaker, *Yoga and Health Workshop on Yoga and Nation Building: An Anthropological Perspective* Dept. of Anthropology, University of Delhi, Delhi, June 21, 2017.

Meenal Dhall, Invited Lecture, National Seminar, *Genomics and Cultural Variation of Indian Populations: An Appraisal of Health and Disease Susceptibility*, Dept. of Anthropology, Sri Venkateswara University, Tirupati, 23-24 Feb., 2017.

Meenal Dhall, Presented Paper, *Linkage of haemoglobin with stress, blood pressure and muscular strength among adults of Delhi*, 13<sup>th</sup> International Conference on Geriatrics & Gerontology, Geriatric Society of India, 10-11 Dec., 2016.

Meenal Dhall, Presented Paper, *Physical Activity and Lifestyle Indicators*, 12<sup>th</sup> Annual International Conference on Kinesiology and Exercise Sciences, Athens, Greece, 25-28 July, 2016.

M. Kennedy Singh, Presented Paper, *Sickness of Health Care Services*, National Seminar, Anthropology and Health, Organised by Dept. of Anthropology, University of Delhi, Delhi, Jan. 28, 2016.

M. Kennedy Singh, Presented Paper, *Anthropological Understanding of Lai Haraoba in Manipur*, National Seminar, Anthropology and Environment, , Organised by Dept. of Anthropology, University of Delhi, Delhi, Feb. 26, 2016.

M. Kennedy Singh, Presented Paper, *Socio-Cultural imperatives of Umang Lai Haraoba* National Seminar, Oral & Expressive Tradition of the Indigenous People: Perspectives from Eastern and North Eastern India, organised by Indira Gandhi Rastriya Manav Sangrahalaya (IGRMS), Bhopal, 24-25 Aug., 2016.

M. Kennedy Singh, Presented Paper, *Reflections on Fieldwork Experiences in Administrative Research Training Institutes*, National Seminar, Negotiating Fieldwork: Unfolding of Institutional Practices and Contemporary Challenges, Organised by Indian Anthropological Association, Dept. of Anthropology, University of Delhi, Delhi, 16 -17 Sept., 2016.

M. Kennedy Singh, Presented Paper, *Changing Agricultural Practice in Manipur*, International Seminar, Agrarian Anthropology: Insights and Pathways, Organised by Dept. of Anthropology, University of Hyderabad, Hyderabad, 16-17 Feb., 2017.

M. Kennedy Singh, Lecture on *Yoga and Well-being*, International Yoga Day, Dept. of Anthropology, University of Delhi, Delhi, June 21, 2017.

Mitashree Srivastava, Presented Paper, *Internationalisation of Higher Education in India*, National Seminar on Higher Education in India, 2030, with special reference to Sustainable development goals, M.B.P Government P.G College, Jan. 28, 2017.

Mitashree Srivastava, Co-chaired Session & Presented Paper, *Engaged Buddhism and Buddhist Identities: Anthropological perspectives*, National Seminar, Role of Anthropology and Forensic Science in National Development organised by Dept. of Anthropology, University of Delhi, 24-25 March, 2017.

Mitashree Srivastava, Presented Paper, *In search of a Buddhist Identity - An anthropological study of novice Women Buddhists at a BSG district centre in New Delhi*, International Conference on Women and Buddhism perspectives on Gender, Culture and Empowerment, IGNC Delhi, 27-29 March, 2017.

Mitashree Srivastava, Rapporteur, National Seminar, *Step up for DRR India Campaign*, Dept. of Anthropology, University of Delhi, Oct. 21, 2016.

Chakraverti Mahajan, Presented Paper, *Electoral Politics, Development and Hindu-Muslim Relations in Jammu and Kashmir*, National Seminar, Secularism, Equality and Inclusion: Understanding the Paradox of Indian Modernity India, organised by the Dept. of Sociology, Guru Nanak Dev University, Amritsar. 10-11 March, 2017.

Chakraverti Mahajan, Presented Paper, *Everyday Communalism and Shifting Food Practices in Jammu and Kashmir*, National Seminar, Nation, Community, and Citizenship in Contemporary India, organised by the School of Social Sciences, National Institute of Advanced Studies, Bangalore, 9-10 Jan., 2016.

Chakraverti Mahajan, Presented Paper, *Money, Time and Fieldwork: Exploring the Margins of Institutional Practices and Individual Freedom*, National Seminar on Negotiating Fieldwork: Unfolding of Institutional Practices and Contemporary Challenges, organised by the Indian Anthropological Association, Delhi, 16-17 Sept., 2016.

Chakraverti Mahajan, Presented Paper, *Ambiguous Positionality: Doing Ethnography of Intercommunity Relations in a Conflict Zone* Workshop on Ethnography of the Marginalized: A Critical Inquiry, organised by the Centre for the Study of Discrimination and Exclusion, School of Social Sciences, JNU, Delhi, 27-28 April, 2016.

Chakraverti Mahajan, Presented Paper, *Towards an anthropology of tolerance: Shared sacred spaces and religious coexistence in Kishtwar*, National Seminar, Celebrating Anthropology: The Human Science, organised by the Dept. of Anthropology, University of Delhi, Delhi, 22-23 April, 2016.

Shivani Chandel, Presented paper, *Relevance of Anthropology in Sports*, National Seminar, Celebrating Anthropology: The Human Science, Organised by Dept. of Anthropology, University of Delhi, Delhi, 22-23 April, 2016.

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 03

M.Phil. – 10

### **Faculty Strength**

Permanent – 20

### **Other Significant Information**

Students of Anthropology have been employed in different ministries of Government of India, NGOs, teaching jobs, census department. Dr.Meenal Dhall is Coordinator of e-PG Pathshala (UGC-MHRD Project) Anthropology Paper Human Growth, development and nutrition; and Sectional Recorder, Anthropological Section of Anthropological and Behavioural Sciences, Indian Science Congress Association (2017-2018).

Prof. P. C. Joshi participated in a consultation meeting to discuss the impact of cessation of Ladakh trade relation with Gilgit-Baltistan and Tibet Organised by Islamic University of Science and Technology, Awantipora, Kashmir at Leh, Ladakh on 22-23, Sept., 2016. Besides IUST, Ambedkar University, New Delhi and JNU, New Delhi also participated in the meeting. Prof. Joshi was also the mentor for the University of Delhi Innovative Project, *Use of GPS and GIS in Identifying and Assessing the Changing Land Use Pattern mainly due to Outmigration in Lachi Gad Watershed in Garhwal* (2016), Dept. of Geography, Shaheed Bhagat Singh College, New Delhi.

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## BOTANY

### Major Activities and Achievements

The Department of Botany is involved in a broad range of research areas in plant biology. Taxonomy, reproductive biology, crop genetics, tissue culture transgenic technology, evolutionary biology, physiology and biochemistry, ecology, plant molecular biology and bioinformatics and many more. In 2016-17, two new species of *Alysicarpus* viz., *A. gautalensis* and *A. poklianus*, were described. Regeneration protocols for rare fern species were developed to facilitate their re-introduction in their natural habitats. PCR-based sex-linked molecular markers were developed for identification and validation of male and female plants for dioecious crops. Micro-propagation protocols were developed for ~25 commercially and medicinally important plants for large-scale plantation and improvement through genetic transformation. Technologies were developed for isolation of plant-based bioactive compounds with anti-cancerous activity in human cell lines and larvicidal efficacy against malaria, filarial, dengue and Japanese encephalitis vectors. Transgenics are being developed in plants viz., *Brassica juncea*, *Carthamus tinctorius* and *Arabidopsis* for crop improvement and/or basic studies in plant developmental biology. Several faculty members are involved in studies on abiotic and biotic stresses in plants, molecular mechanisms of resistance/susceptibility and alleviation strategies. Next Generation Sequencing programmes are being conducted to generate genomic (transcriptome/small RNome) and genetic resources (SNP-based markers, SSRs) in various crop plants.

### Honours / Distinctions

Prof. A. K. Pandey was elected as President, Indian Botanical Society; Vice President, East Himalayan Society of Spermatophyte Taxonomy; and Secretary (Outstation), Indian Association for Angiosperm Taxonomy.

Prof. S. Mazumdar received The Distinguished Alumna Award 2017 from Miranda House Alumnae Association, Delhi University

Professor K. S. Rao was elected as Fellow, Linnean Society of London, UK; and Fellow, Andhra Pradesh Academy of Sciences, Amarawati.

Professor Veena Agrawal, Scientist of Eminence Award, 2016, by the Society of Plant Research at the International Conference on Technological Advancement and Sustainable Agriculture in Rural Development held at NAAS Auditorium, New Delhi, Feb., 2017.

Professor Shailendra Goel was elected as Fellow, Linnean Society of London, UK.

### Publications

Agarwal, A., Mudgil, Y., Pandey, S., Fartyal, D., & Reddy, M. K. (2016). Structural modelling and phylogenetic analyses of PgeIF4A2 (Eukaryotic translation initiation factor) from *Pennisetum glaucum* reveal signature motifs with a role in stress tolerance and development. *Bioinformation*, 12(12), 416.

Agnihotri, A., & Seth, C. S. (2016). Exogenously applied nitrate improves the photosynthetic performance and nitrogen metabolism in tomato (*Solanum lycopersicum* L. cv Pusa Rohini) under arsenic (V) toxicity. *Physiology and Molecular Biology of Plants*, 22(3), 341-349.

Arora, D., & Bhatla, S. C. (2017). Melatonin and nitric oxide regulate sunflower seedling growth under salt stress accompanying differential expression of Cu/Zn SOD and Mn SOD. *Free Radical Biology and Medicine*, 106, 315-328.

Barman, P., Choudhary, A. K., & Geeta, R. (2017). A modified protocol yields high-quality RNA from highly mucilaginous *Dioscorea* tubers. *3 Biotech*, 7(2), 150.

Bidalia, A., Hanief, M., & Rao, K. S. (2017). Tolerance of *Mitragyna parvifolia* (Roxb.) Korth. seedlings to NaCl salinity. *Photosynthetica*, 55(2), 231-239.

Chaurasia, S.P., & Deswal, R. (2017). Identification and insilico analysis of major redox modulated proteins from *Brassica juncea* seedlings using 2D redox SDS-PAGE (2-Dimensional diagonal redox sodium dodecyl sulphate polyacrylamide gel electrophoresis). *The Protein Journal* 36 (1), 64-76.

- Chetri, S. K., Kapoor, H., & Agrawal, V. (2016). Marked enhancement of sennoside bioactive compounds through precursor feeding in *Cassia angustifolia* Vahl and cloning of isochorismate synthase gene involved in its biosynthesis. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 124(2), 431-446.
- Chongtham, R., Waikhom, S., Kumar, A., Goel, S., Agarwal, M., & Jagannath, A. (2017). Evaluation of different hosts and laboratory conditions for rearing of the mustard aphid (*lipaphis erysimi*) and their use for screening of aphid-resistant transgenic plants of the oilseed crop, *Brassica juncea* (Indian Mustard). *Vegetos-An International Journal of Plant Research*, 30(special), 185-190.
- Danda, S., Subramaniam, S., Rather, S. A., & Pandey, A. K. (2016). A new species of *Crotalaria* (Fabaceae, Crotalariaeae) from Meghalaya, India. *Systematic Botany*, 41(2), 307-315.
- Das, K., Ganie, S. H., Mangla, Y., Chaudhary, M., Thakur, R. K., Tandon, R., & Goel, S. (2017). ISSR markers for gender identification and genetic diagnosis of *Hippophae rhamnoides* ssp. *turkestanica* growing at high altitudes in Ladakh region (Jammu and Kashmir). *Protoplasma*, 254(2), 1063-1077.
- Devi, M. L., Sanavar, R. T., & Uniyal, P. L. (2016). Features of seeds of Podostemaceae and their survival strategy in freshwater ecosystems. *Rheedeia*, 26(1), 29-36.
- Dinakaran, J., Bidalia, A., Kumar, A., Hanief, M., Meena, A., & Rao, K. S. (2016). Near-infrared-spectroscopy for determination of carbon and nitrogen in Indian soils. *Communications in Soil Science and Plant Analysis*, 47(12), 1503-1516.
- Dinesh, K., Al-Hassan, M., Vicente, O., Veena, A., & Boscaiu, M. (2016). Mechanisms of response to salt stress in oleander (*Nerium oleander* L.). *Bulletin of University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca. Horticulture*, 73(2), 249-251.
- Gholami, A., & Pandey, A. K. (2016). *Alysicarpus gautalensis* (Leguminosae: Desmodieae), a new species from Maharashtra, India. *Phytotaxa*, 266(2), 141-145.
- Gholami, A., & Pandey, A. K. (2016). *Alysicarpus poklianus* (Fabaceae, Desmodieae), a new species from India. *PhytoKeys*, 68, 117.
- Gholami, A., Subramaniam, S., Geeta, R., & Pandey, A. K. (2017). Molecular systematics of Indian *Alysicarpus* (Fabaceae) based on analyses of nuclear ribosomal DNA sequences. *Journal of Genetics*, 96(2), 353-363.
- Gupta, P., Srivastava, S., & Seth, C. S. (2017). 24-Epibrassinolide and Sodium Nitroprusside alleviate the salinity stress in *Brassica juncea* L. cv. *Varuna* through cross talk among proline, nitrogen metabolism and abscisic acid. *Plant and Soil*, 411(1-2), 483-498.
- Jain, P., Arora, D., & Bhatla, S. C. (2016). Surface plasmon resonance based recent developments in understanding plant development and related processes. *Biochem Anal Biochem*, 5, 300.
- Jain, A., & Das, S. (2016). Synteny and comparative analysis of miRNA retention, conservation, and structure across Brassicaceae reveals lineage-and sub-genome-specific changes. *Functional & integrative genomics*, 16(3), 253-268.
- Jain, P., & Bhatla, S. C. (2017). Molecular mechanisms accompanying nitric oxide signalling through tyrosine nitration and S-nitrosylation of proteins in plants. *Functional Plant Biology*.
- Kapoor, H., Yadav, N., Chopra, M., Mahapatra, S. C., & Agrawal, V. (2017). Strong anti-tumorous potential of *Nardostachys jatamansi* Rhizome Extract on Glioblastoma and In Silico analysis of its Molecular Drug targets. *Current Cancer Drug Targets*, 17(1), 74-88.
- Kashyap, P., & Deswal, R. (2017). A novel class I Chitinase from *Hippophae rhamnoides*: Indications for participating in ICE-CBF cold stress signaling pathway. *Plant Science*, 259, 62-70.
- Kaur, P., Shukla, N., Joshi, G., VijayaKumar, C., Jagannath, A., Agarwal, M., ..& Kumar, A. (2017). Genome-wide identification and characterization of miRNAome from tomato (*Solanum lycopersicum*) roots and root-knot nematode (*Meloidogyne incognita*) during susceptible interaction. *PloS one*, 12(4), e0175178.
- Kumar, A., Pal, L., & Agrawal, V. (2017). Glutathione and citric acid modulates lead-and arsenic-induced phytotoxicity and genotoxicity responses in two cultivars of *Solanum lycopersicum* L. *Acta Physiologiae Plantarum*, 39(7), 151.

- Kumar, J., & Agrawal, V. (2017). Analysis of genetic diversity and population genetic structure in *Simarouba glauca* DC (an important bio-energy crop) employing ISSR and SRAP markers. *Industrial Crops and Products*, 100, 198-207.
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### Research Projects

- DST-SERB, 2017-2020, *Diversity and performance of key forest tree species and bryophytes in gap and non-gap areas along an altitudinal gradient in Uttarakhand.*
- DST-SERB, 2017-2021, *Quantifying the total ecosystem level carbon sequestration potential of different forest ecosystem along an elevational gradient in Uttarakhand, Western Himalaya in different climate scenarios.*
- DST-SERB, 2013-2016, *Soil carbon sequestration in the Ridge forest Ecosystem of Delhi NCT.*
- DST, 2017, *At NDL Proteins: Molecular Mechanism of Action in Regulation of Plant Growth and Development.*
- UGC, 2015-2018, *Salt-stress induced modulation of reactive oxygen species and their scavenging mechanisms in sunflower seedling.*
- DBT, 2012-2017, *Preventing extinction and improving conservation status of threatened plants through applications of biotechnological tools of species.*
- DBT, 2013-2016, *Introduction of very long chain polyunsaturated fatty acids biosynthesis pathway in Indian mustard (*Brassica juncea*)*
- DBT, 2013-2016, *Development of seaweeds biorefinery and pilot demonstration of bioethanol production.*
- UGC-MRP, 2015-2018, *Phylogenetic systematics and biogeography of *Impatiens*.*
- DBT, 2015-2018, *Invasion ecology of *Prosopis juliflora* in context of biodiversity and conservation.*
- UGC, 2015-2018, *A Search for Molecular, Biochemical & Morphological (Phenotypic) Markers for Different Growth Stages of *D. alata* Tuber and their Relation with the Redox Status.*
- DBT-IBSD, 2017-2019, *Characterizing un-explored Seabuckthorn germplasm in Sikkim for antifreeze proteins, secondary metabolites, its comparison with germplasm of Lahaul and Spiti valley, Himachal Pradesh and also utilizing the bioresources for uplifting the livelihood of local people.*
- ICAR, 2013-2016, *Relationship of Phytoplasma with its host plant and insect vectors. National Fund for Research in Basic, Strategic and Frontier Research.*
- ICAR, 2016-2017, *Detection and characterization of Phytoplasma affecting major floricultural crops of India.*

ICAR, 2016-2017, *Characterization and Epidemiology of Phytoplasmas Infecting Major Horticultural Crops*.  
DST-SERB, 2013-2016, *Application of Agrobacterium tumefaciens mediated transformation for tagging genes responsible for virulence in Botrytis cinerea for the duration*.  
DST-SERB, 2017-2020, *Bio-assay guided Isolation, Identification and Elicitation of Anticancerous bioactive compounds from Nardostachys jatamansi, Psoralea corylifolia and Plumbago zeylenica*.  
DBT-Centre of Excellence Grant, Phase II, 2015-2020 *Transgenic approaches for resistance to mustard aphids*, Satellite Project under 'Centre of Excellence on Genome Mapping and Molecular Breeding of Brassicas' awarded to University of Delhi South Campus and University of Delhi.  
DST-SERB, 2013-2017, *Marker Assisted Selection of Male and Female Plants of Simmondsia chinensis (Link) Schneider (Jajoba) – A multipurpose dioecious crop*.  
UGC, 2013-2016, *In-vitro evaluation, isolation and up regulation of anticancerous bioactive compounds from Cassia angustifolia (Senna), through elicitors and their bioefficacy against human cancer cell lines*.

### **Patents Filed / Granted**

Prof. Veena Agarwal, Patent number: 278934, Indian Patent, *A Process for Extraction of Bioactive Psoralen Compound*, Jan. 4, 2017

### **Seminars Organised**

National Seminar, *Identifying and Avoiding Publishing in Predatory Journals: A Lesson for Researchers*, Dept. of Botany, University of Delhi, March 18, 2017.

### **Seminar / Conference Presentation**

Thakur, J. & Uniyal, P.L., Poster Presentation, Ecological Niche Modeling for predicting suitable habitats for an endangered orchid species: *Malaxisacuminata* D. Don in India, In *Advances in Orchid biology with focus on climate change, medicinal and floricultural plants, and sustainable economic utilization*, YSR Agricultural University, Venkataramgundam, Andhra Pradesh, 26-28 Feb., 2016.

Thakur, J., Uniyal, P.L. & Pandey A.K., Oral Presentation, Prediction of suitable habitats for *Skimmialaureola* (Rutaceae): a rare medicinal plant via application of Ecological Niche Modeling. In *Agro-technology, commerce and sustainable use of medicinal and aromatic plants*, Society for Conservation and Resource Development of Medicinal Plants, NAAS Complex, IARI, New Delhi, 6-7 Feb., 2016.

Kumar, D., Kumar, M, Mishra, G., & Sahoo, D., The potential and sustainable Bioethanol production from red algal species *Gracilaria edulis*, India International Science Festival 2016 Young Scientist Enclave, CSIR-NPL, Delhi, 8-11 Dec., 2016.

Pandey A.K., Systematics and Phylogenetic Analysis – What is the Question? XXVI Annual Conference of Indian Association for Angiosperm Taxonomy and International Seminar on Conservation and Sustainable Utilization of Biodiversity, Kolhapur, 7-9 Nov., 2016.

Deswal, R., Presentation, Proteomics of a Himalayan shrub a step towards translational research, International Conference on Functional and Interaction Proteomics: Application in Food & Health, New Delhi, India, 14-17 Dec., 2016.

Deswal, R., Invited Lecture, Applications of Gel Based Proteomics in Plants- Investigating Nitric oxide signalling (Nitrosylation) in *Brassica juncea*, in the 8<sup>th</sup> Annual Meeting of Proteomics Society and 3<sup>rd</sup> Meeting of Asia Oceania Agricultural Proteomics Organization, National Institute for Plant Genomic Research, New Delhi, 12-13 Dec., 2016.

Babbar, S. B., Invited Talk, Species Identification sans Physical Presence: DNA BARCODING - Concept, History, Applications, Methodology, and Developments in Plants, Workshop for TY B.Sc. Botany, 2016-2017 Organised at R. J. College of Arts, Science and Commerce, under the aegis of Board of Studies in Botany, University of Mumbai, Mumbai, June 11, 2016.

Madan, A., Uniyal, P.L. & Bhatnagar, A.K. Nectar-disc development in *Thunbergia grandiflora* (Roxb. et Rottler) Roxb. (Acanthaceae) and its implications on pollination, pp24th International Congress on Sexual Plant Reproduction, Arizona, USA, 18-23 March, 2016.

Bhatla, S. C., Invited Lecture, Nitric oxide and melatonin crosstalk with reactive oxygen species scavenging enzymes in modulating abiotic stress tolerance, International Symposium, Plant Signaling and Behavior, Komarov Botanical Institute RAS, St. Petersburg. 19-24, June, 2016.

Gupta, P, Seth, C. S., 24-Epibrassinolide and Nitric oxide counteract the salinity driven damages in *Brassica juncea* (L.) cv. Varuna. National Seminar, Recent Advances in Environmental Toxicology, Jamia Millia Islamia, New Delhi, 13-14 Feb., 2017.

Mohapatra, P., Singh, D.H., Mishra, G., Shukla, R.N., Agarwal, M., Jagannath, A., Kumar, A., Ozias-Akins, P., Hanna, W.W., & Goel, S., Understanding developmental aspects of apomixis through small RNA profiling, degradome and cell specific marker in sexual and addition lines in *Pennisetum glaucum*, 20th ADNAT Convention and International symposium, Genome Editing Technologies and their Application in Biology, Medicine and Agriculture organised by KIIT University, 16-18 Feb., 2017.

Mohapatra, P., Singh, D.H., Sharma, M., Agarwal, M., Jagannath, A., Kumar, A., Ozias-Akins, P., Hanna, W.W., & Goel, S., Elucidation of developmental aspects of apomixis through cell specific molecular markers in sexual and addition lines of *Pennisetum glaucum*, 2<sup>nd</sup> International conference on Technological Advancement for Sustainable Agriculture and Rural development (TASARD-India.2017), organised by Society for plant research (VEGETOS) and African-Asian Rural Development Organisation (AARDO), 20-22 Feb., 2017.

Verma, P., Kumar, M., Kumar, D., Mishra, G., & Sahoo, D., Algae: a Potential Bioresource for Fine. National Conference on Pharmacognosy: Scope of Phytochemically Unexplored Medicinal Plants, Organised by Dept. of Botany, Zakir Husain Delhi College, University of Delhi, Delhi, 12 Jan., 2017.

Lakhanpal, S. Invited Lecture, Genetic reprogramming of organ development genes in Phytoplasma associated phyllody affected sesame (*Sesamum indicum* L.) plants, X Annual Conference of Indian Association of Mycoplasmologists, AIIMS, New Delhi, March 20, 2017.

Singh, V., Kumar, S., & Lakhanpaul, S., Investigations on the fastidious endophytic bacterial flora of *Catharanthus roseus* L. using PPLO culture method, International Conference and Outreach Programme, Environment & Ecology: Sustainability and challenges, Delhi University, 4-6 Jan., 2017.,

Kaushik, S., Vashishtha, A., & Lakhanpaul, S., Presentation, MLST profiling of *Wolbachia* associated with *Kerriallacca* (Kerr.) Environment & Ecology: Sustainability and challenges, International Conference and Outreach Programme, Delhi University, 4-6 Jan., 2017.

Agarwal, V., Invited Lecture, Generation and validation of molecular markers for identification of sex and genetic diversity analysis in *Jajoba* (*Simmondsia chinensis* (Link) Schneider): a potential oil yielding dioecious crop, International Conference, Technological Advancement for Sustainable Agriculture and Rural Development (TASARD-India), National Agricultural Science Complex (NASC), New Delhi, 2017.

Agarwal, V., Invited Lecture, Unravelling plant based therapeutic biomolecules: Bioassay guided isolation and elicitation of anti-malarial and anticancerous compounds from potential medicinal plants, International Conference, Pharma Sciences and Biotechnology (ICPSB-2017), Bali, Indonesia, 16-18 Jan., 2017.

Abdi, S., & Bhat, V., Poster Proceedings, Development of co-dominant intron length polymorphism markers associated with apomixis in *Cenchrus ciliaris*. International Conference, Technological Advancement for Sustainable Agriculture and Rural Development, National Agricultural Science Complex (NASC), New Delhi, 20-22 Feb., 2017, pp. 236.

Thakur, J., & Uniyal, P.L., Poster Presentation, Study on diversity of root-associated fungi of an Orchid *Crepidiuma cuminatum* (D. Don) Szlach: A rare and medicinally important taxon. (29th Fungal Genetics Conference, Genetics Society of America, California, 2017.

Madan, A., Uniyal, P.L., & Bhatnagar, A.K., Microbial diversity in Orchid nectar; trends and significance, National Conference on Recent trends in biology, culture, conservation, commercialization and sustainable utilization of medicinally and floriculturally important orchids, Graphic Era University, Dehradun, 24-26 March, 2017.

### **Inter-Institutional Collaborations**



Joint UGC-Israel Science Foundation Research Grant, *Calcium and Auxin Signaling during Adventitious Root Development and Analysis of Possible Nitric Oxide Cross Talk*, 2017-2020.

Indo-Belarus Joint Research Project, *ROS/RNS-Induced K<sup>+</sup> Loss as a Key Determinant of Sunflower Plant Injury and Survival under Abiotic Stress*, 2017-2019.

DAE-BRNS funded research project, *Induction of autonomous endosperm development in Pennisetum species by down-regulating a Polycomb gene CCEZ1 using RNAi approach*, 2016-2019.

A Collaborative Project with Botanical Survey of India, *Preventing extinction and improving conservation status of threatened plants through biotechnological tools*.

### **Extension and Outreach Activities**

Participation in Workshop on *Role of Mycorrhiza in Sustainable Agriculture and Forestry*, sponsored by DBT, organised by TERI, New Delhi, March 22, 2017.

Participation in Plantation programme in Sanjay Van in collaboration with Working With Nature, South Delhi, July 19, 2016.

### **M.Phil. / Ph.D. Awarded**

Ph. D. – 22

M. Phil. – 7

### **Faculty Strength**

Permanent – 24

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## **CHEMISTRY**

### **Major Activities Achievements**

The department of Chemistry has taken great strides by revising and updating the M.Sc. Syllabus. Advanced level optional courses are also offered at the Ph.D. levels. The faculty members of the department are engaged in state of the art research as well as guiding the Ph.D., M. Sc. and post-doctoral students. Collaborative research programmes with many research laboratories and research institutes in Delhi and outside India are also operating very successfully with mutual benefit. The department has distinguished itself as a centre for innovative and pioneering research in a wide range of areas in chemistry and chemistry interfacing with physical and biological sciences. The department has been recognized as one of the best performing chemistry department in the country by DST in the international year of chemistry (2011). The faculty members publish their work in the top most journals, in their respective field of expertise and also serve as members of various scientific boards and committees. The department at present is in the process of procuring more scientific instruments to upgrade the instrumentation facility for future research activities.

### **Honours / Distinctions**

Prof. Ashok K. Prasad, Visiting Professor at JAIST, Kanazawa, Japan (2016-2017)

Prof. Gurmeet Singh, Visiting Professor at JAIST, Kanazawa, Japan (2016-2017)

### **Publications**

Agarwal, P., Thirupathi, N., & Nethaji, M. (2016). Syntheses, structural aspects, solution behavior, and catalytic utility of cyclopalladated N, N', N''-triarylguanidines [ $\kappa^2$  (C, N) Pd (Pyrazole) 2X](X= Br, OC (O) CF<sub>3</sub>, and PF<sub>6</sub>) in Suzuki–Miyaura coupling reactions of aryl bromides. *Organometallics*, 35(18), 3112-3123.

Agarwal, P., Thomas, J. M., Sivasankar, C., Nethaji, M., & Thirupathi, N. (2016). Six-membered cyclopalladated N, N', N''-triarylguanidines, [ $\kappa^2$  (C, N) Pd] 2 ( $\mu$ -OAc)( $\mu$ -Pz), [ $\kappa^2$  (C, N) Pd ( $\mu$ -Pz)] 2 and a novel [AgNO<sub>3</sub>  $\kappa^2$  { $\kappa^2$

(C, N) Pd} 2 (μ-NO 3)(μ-Pz}}]: Syntheses, reactivity studies, structural aspects, and solution behavior. *Polyhedron*, 117, 679-694.

Arora, R., & Kakkar, R. (2016). Theoretical study of the mechanism of the Wolff rearrangement of some diazocarbonyl compounds. *Computational and Theoretical Chemistry*, 1094, 32-41.

Arora, R., & Kakkar, R. (2017). Negative ion Wolff rearrangement of some diazoketones: A theoretical mechanistic study. *Computational and Theoretical Chemistry*, 1106, 50-57.

Arora, R., Issar, U., & Kakkar, R. (2017). Theoretical study of the molecular structure and intramolecular proton transfer in benzohydroxamic acid. *Computational and Theoretical Chemistry*, 1105, 18-26.

Badhani, B., & Kakkar, R. (2017). DFT study of structural and electronic properties of gallic acid and its anions in gas phase and in aqueous solution. *Structural Chemistry*, 1-14.

Badhani, B., & Kakkar, R. (2017). In silico studies on potential MCF-7 inhibitors: a combination of pharmacophore and 3D-QSAR modeling, virtual screening, molecular docking, and pharmacokinetic analysis. *Journal of Biomolecular Structure and Dynamics*, 35(9), 1950-1967.

Badhani, B., Sharma, N., & Kakkar, R. (2015). Gallic acid: a versatile antioxidant with promising therapeutic and industrial applications. *Rsc Advances*, 5(35), 27540-27557.

Bagga, M. K., Gadi, R., Yadav, O. S., Kumar, R., Chopra R., & Singh, G., (2016). Investigation of phytochemical components and corrosion inhibition property of *Ficus racemosa* stem extract on Mild steel in H<sub>2</sub>SO<sub>4</sub> medium. *Journal of Environmental Chemical Engineering*, 4, 4699–4707.

Chand, K., Sharma, A. K., & Sharma, S. K. (2016). Synthesis, (1) H and (13) C NMR assignment of novel 2-pyridone derivatives. *Magnetic resonance in chemistry: MRC*, 54(1), 91-102.

Dixit, A., Devi Yadav, G., Singh Chauhan, M., & Singh, S. (2016). Salts of 1-(Chloromethyl)-DABCO: A Highly Efficient Organocatalyst for the Alcoholysis of Epoxides. *Current Catalysis*, 5(3), 203-211.

Dumoga, S., Dey, N., Kaur, A., Singh, S., Mishra, A. K., & Kakkar, D. (2016). Novel biotin-functionalized lipidic nanocarriers for encapsulating BpT and Bp4eT iron chelators: evaluation of potential anti-tumour efficacy by in vitro, in vivo and pharmacokinetic studies in A549 mice models. *RSC Advances*, 6(66), 61585-61598.

Goyal, M., Yadav, O., Kumar, R., Sharma, R. K., & Singh, G. (2017). Experimental, surface characterization and computational evaluation of the acid corrosion inhibition of mild steel by methoxycarbonylmethyltriphenylphosphonium bromide (MCMTPPB). *24*, 256-268.

Grover, S., Goel, S., Marichi, R. B., Sahu, V., Singh, G., & Sharma, R. K. (2016). Polyaniline all solid-state pseudocapacitor: role of morphological variations in performance evolution. *Electrochimica Acta*, 196, 131-139.

Gupta, R., Hussain, F., Sadakane, M., Kato, C., Inoue, K., & Nishihara, S. (2016). Lanthanoid template isolation of the α-1, 5 Isomer of Dicobalt (II)-substituted Keggin Type Phosphotungstates: Syntheses, characterization, and magnetic properties. *Inorganic Chemistry*, 55(17), 8292-8300.

Gupta, R., Khan, I., Hussain, F., Bossoh, A. M., Mbomekallé, I. M., de Oliveira, P., & Nishihara, S. (2017). Two new sandwich-type Manganese {Mn5}-substituted Polyoxotungstates: Syntheses, crystal structures, electrochemistry, and magnetic properties. *Inorganic Chemistry*, 56(15), 8759-8767.

Gupta, R., Parbhakar, S., Behera, J. N., & Hussain, F. (2016). Sandwich type organic-inorganic hybrid of 3d–4f heterometallic containing germanotungstates [{Cu 2 (1, 10-phen) 2 (μ-CH 3 COO) 2} Ln (α-GeW 11 O 39) 2] 11–: Syntheses, crystal structures, magnetic and photoluminescence properties. *Inorganic Chemistry Communications*, 74, 72-78.

Hussain, F. (2016). Synthesis of Novel Oxazolo [4, 5-b] pyridine-2-one based 1, 2, 3-triazoles as Glycogen Synthase Kinase-3β Inhibitors with anti-inflammatory potential. *Chem. Bio. Drug Des.*, 918-926.

Hussain, F., K Saini, M., Gupta, R., & Singh, S. (2016). Yttrium containing Dimeric and Tetrameric Keggin type Phosphotungstates: Syntheses, crystal structure and catalytic activity for alcohol oxidation using H<sub>2</sub>O<sub>2</sub> as an oxidant in water. *Current Catalysis*, 5(1), 66-76.

Issar, U., Kumari, T., Arora, R., & Kakkar, R. (2017). Conformational properties of DNA minor groove binder Hoechst 33258 in gas phase and in aqueous solution. *Computational and Theoretical Chemistry*, 1113, 32-41.

K Sharma, P., Mathur, D., Malhotra, S., Rana, N., K Singh, B., K Prasad, A., & C Kuhad, R. (2016). Triphenyl Phosphite-mediated Green' synthesis of novel carboxycoumarin amides. *Current Green Chemistry*, 3(4), 366-373.

- Kakkar, R. & Bhandari, M. (2017). Pyruvate dehydrogenase kinases (PDHKs) and their inhibition: A possible line of treatment for diabetes, heart ischemia and cancer. In S. P. Gupta (Ed.), *Advances in Studies On Enzyme Inhibition* (Vol. 2: Miscellaneous drugs. pp. 91-112). New York, NY: Nova Science Publishers. ISBN: 2474-9524 (Print); 978-1-53610-521-6 (e-book).
- Kakkar, R. 2017. Insilico design of PDHK inhibitors: From small molecules to large fluorinated compounds. In Chakraborty, T., Ranjan, P., Pandey, A. (Eds.), *Computational Chemistry Methodology in Structural Biology and Materials Sciences*. Apple Academic Press (CRC Press) Taylor & Francis. ISBN: 9781771885683.
- Kakkar, R., Arora, R., & Zaidi, S. (2017). DFT studies on the acid-catalyzed Curtius reaction: The Schmidt reaction. *Structural Chemistry*, 1-14.
- Kansal, K., Chopra, R., Kumar, R., Kumar, A., Yadav, B., Sharma, R. K., & Singh, G. (2017). Anti-corrosive properties of 2, 3-dihydroxyquinoxaline on mild steel corrosion in sulphuric acid. *Indian Journal of Chemical Technology*, 24, 169-177.
- Kashyap, K. & Kakkar, R. (2017). Herpesvirus proteases & their inhibitors. In Satya P. Gupta (Ed.), *Viral Proteases & their Inhibitors*. Academic Press. ISBN: 978-0-12-809712-0 (Print), 978-0-12-809682-6 (e-book).
- Khan, A., Prasad, S., Parmar, V. S., & Sharma, S. K. (2016). Design and synthesis of novel triazolyl benzoxazine derivatives and evaluation of their antiproliferative and antibacterial activity. *Journal of Heterocyclic Chemistry*, 53(4), 1264-1275.
- Khan, I., Tantray, M. A., Hamid, H., Alam, M. S., Kalam, A., Hussain, F., & Dhulap, A. (2016). Synthesis of pyrimidin-4-one-1, 2, 3-triazole conjugates as glycogen synthase kinase-3 $\beta$  inhibitors with anti-depressant activity. *Bioorganic Chemistry*, 68, 41-55.
- Khan, I., Tantray, M. A., Hamid, H., Alam, M. S., Kalam, A., Shaikh, F., Shah, A., & Hussain, F. (2016). Synthesis of novel pyrimidin-4-one bearing piperazine ring-based amides as glycogen synthase kinase-3 $\beta$  inhibitors with antidepressant activity. *Chemical Biology & Drug Design*, 87(5), 764-772.
- Khatri, V., Bhatia, S., Achazi, K., Deep, S., Kohli, E., Sharma, S. K., & Prasad, A. K. (2017). Lipase-mediated synthesis of sugar-PEG-based amphiphiles for encapsulation and stabilization of indocyanine green. *RSC Advances*, 7(60), 37534-37541.
- Khatri, V., Kumar, A., Singh, B., Malhotra, S., & Prasad, A. K. (2015). Synthesis of  $\beta$ -C-Glycopyranosyl Aldehydes and 2, 6-Anhydro-heptitols. *The Journal of Organic Chemistry*, 80(21), 11169-11174.
- Kumar, A., Khan, A., Malhotra, S., Mosurkal, R., Dhawan, A., Pandey, M. K., & Samuelson, L. A. (2016). Synthesis of macromolecular systems via lipase catalyzed biocatalytic reactions: applications and future perspectives. *Chemical Society Reviews*, 45(24), 6855-6887.
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### Research Projects

Prof. A.K. Prasad:

Rasayan Inc., Carlsbad San Diego, USA (till December 2017), *Synthesis of nucleoside- based bioactive compounds and, their precursors*, Rs. 6,57,570/-

DIPAS (DRDO), Timarpur, New Delhi (till July 2017), *Synthesis, Characterization, Cytotoxicity and Cellular Uptake Study of Sugar-PEG Based Amphiphiles as potential Delivery Agents*, Rs. 9,60,000/-

CFEES (DRDO), Timarpur, Delhi (till December 2016), *Synthesis and Study of Fire Extinguishing Capability of Some Fluorophosphonodiester and Fluorophosphotriesters*; Rs. 1,21,84,100/-;

Science & Engineering Research Board (SERB-DST), Jan. 2016-Dec. 2018, *Design and Synthesis of Oligoglycerol and PEG based Nanocarriers for Biomedical Applications*, Prof. Sunil K. Sharma, Rs. 47,26,000/-

DST-SERB, 2017-2020, *Development of efficient and reusable chiral catalysts for the asymmetric Fridel-Craft reaction for the synthesis of biological important molecules*, Dr. Surendra Singh, Rs. 35,93,480/-

CSIR-Project, July 2013-June 2016, *Lanthanoids containing phosphotungstate: Synthesis, structural characterization, and study of its physical properties*, Dr. F. Hussain, Rs. 16,00,000/-

### Seminars Organised

Department had Organised regular talks and seminars from outstanding national and international researchers through the year.

### Conferences Organised

Prof. Ashok K. Prasad, International Conference, *New Frontiers in Carbohydrate Chemistry and Biology*, Funding support by ONGC, ICMR, DRDO, 14-16 Nov., 2016.

### Seminar / Conference Presentation

Gurmeet Singh, Japan-India Symposium on Materials Science 2017 (JISMS-2017), Advanced Institute of Science and Technology, Ishikawa, Japan, 6-7 March, 2017.

Gurmeet Singh, Invited Talk, International Conference on Manufacturing Technology, KrynicaZdroj & Krakow, Poland, 11-18 April, 2016.

Gurmeet Singh, Lecture, *Edge enriched, holey graphene nanoribbon electrodes for ultrahigh performance supercapacitive energy storage devices*, Medgar Evers College of the City, University of New York, Nov. 3, 2016.

Gurmeet Singh, Keynote Lectures in two National Conferences.

Ashok K. Prasad, Invited Talk, *Novel Sugar-modified Nucleosides, Co-polymers and Pseudorotaxanes*, JAIST Japan-India Symposium on Material Science, 6-7 March, 2017.

Ashok K. Prasad, Invited Talk, *Glucose to Novel Amphiphiles and [2]Pseudorotaxanes*, CABiomass - 2016 Compiègne, France, 9-11 March, 2017; Invited Talk, *Sugar-based Amphiphiles and Pseudorotaxanes of Importance*, Indo-German Workshop on Carbohydrates (RACCB-2017), IIT BHU, Varanasi, 14-16 Feb., 2017.

Ashok K. Prasad, Invited Talk, *Modified Sugars as Precursors for Novel Nucleosides, Amphiphiles and Pseudorotaxanes*, Agriculture University, Bikaner, 10-11 Jan., 2017.

Ashok K. Prasad, Invited Talk, *Modified Sugars Precursors for the Synthesis of Nucleosides, Amphiphiles and Pseudorotaxanes*, UGC-HRDC Workshop, Jawaharlal Nehru University, Jan. 2017.

Ashok K. Prasad, Invited Talk, *Sugar-modified Nucleosides and Sugar-based Amphiphiles as Nanocarriers*, 23rd ISCB International Conference, SRM University Chennai, 8-10 Feb., 2017.

Sunil K. Sharma, Delivered two Lectures. i. Biocatalysts: Modern Tools of Organic Synthesis; ii. Chemo-enzymatic Synthesis of Biocompatible Polymeric and Dendritic Nano-architectures for Biomedical Applications, Refresher Course in Chemistry, IIT-ISM Dhanbad, June 14, 20.

Sunil K. Sharma, Invited Talk, *Synthesis and Kinase Inhibition Study of Pyridylpyrimidinylaminophenyl Derivatives*, 23rd ISCB International Conference (ISCB-2017), SRM University, Chennai, 8-10 Feb., 2017.

Sunil K. Sharma, Invited Lecture, *Challenges and Options for Drug Delivery*, Refresher Course in Chemistry, UGC-Human Resource Development Centre, Jawaharlal Nehru University, Jan. 18, 2017.

Sunil K. Sharma, Invited Talk, *Challenges in Drug Development*, DST-INSPIRE Internship Science Camp, SRM University, Delhi-NCR, Dec. 22, 2016.

Sunil K. Sharma, Invited Talk, *Amphiphilic Dendritic Architectures for Biomedical Applications*, Departmental Seminar, IIT-ISM, Dhanbad, Sept. 26, 2016.

Sunil K. Sharma, Invited Talks, i. Chemo-enzymatic Synthesis of Functionalized Polymeric Architectures for Drug Delivery applications; ii. Design and Development of Kinase Inhibitors for Cancer Control, TEQIP-II sponsored Short term training Programme on Recent Trends in Applied Chemical Sciences, Department of Applied Chemistry, SVNIT, Surat, Oct. 19, 2016.

Sunil K. Sharma, Invited Talk, *Chemo-enzymatic Synthesis of Perfluoroalkyl-functionalized Dendronized Polymers for Biomedical applications*, Symposium on advances in sustainable polymers (ASP-16), Kyoto Institute of Technology, Kyoto, Japan, 3-7 Aug., 2016.

Sunil K. Sharma, Invited Talk, as Mentor, *Drug Development from Natural Sources*, DST-INSPIRE Internship Program, LalBahadur Singh Smarak Mahavidyalaya, Gohawar (Bijnor, UP), July 29, 2016.

Sunil K. Sharma, Invited Talk, *Chemo-enzymatic Synthesis of Perfluoroalkyl-functionalized Dendronized Polymers Biomedical applications*, FUB-DU Joint Research Workshop on Supramolecular Chemistry and Nanoscale Systems, Institut für Chemie und Biochemie, Freie Universität Berlin, 8-10 June, 2016.

Mahendra Nath, Invited Lecture, *Development of environmentally benign protocols for arenes and heteroarenes*. National Conference, on Innovative Research on Materials in Science & Engineering (IRMSE-2016), under Faculty Development Programme, Faculty of Engineering and Technology, M.J.P. Rohilkhand University, Bareilly, Uttar Pradesh, 17-22 April, 2016.

Mahendra Nath, Invited Plenary Lecture, *Development of eco-friendly methods for arenes and heteroarenes via DBSA-catalyzed reactions*, National Conference in Chemistry (NCC 2016): Environment & Harmonious Development, Dept. of Chemistry, Shyam Lal College, University of Delhi, Delhi, 7-8 April, 2016.

N. Thirupathi, In Abstract, V. Thakur, N. Thirupathi., *Cyclopalladated N,N,N-Triarylguanidines [ $\kappa^2(C,N)Pd(\mu-OAc)_2$ ] and [ $\kappa^2(C,N)Pd(PPh_3)Br$ ] as Catalysts in Suzuki-Miyaura Cross Coupling Reactions of Aryl Bromides and Activated Aryl Chlorides*, 19th CRSI National Symposium in Chemistry PP81, Dept. of Chemistry, University of North Bengal, Siliguri, 2016.

N. Thirupathi, In Abstract, R. Kumar, N. Thirupathi., *Half Sandwich Ruthenium (II) Electron Deficient Triarylguanidinato Complexes: Reactivity Studies and Catalytic Activity in Azide-Alkyne Cycloaddition Reactions* 19th CRSI National Symposium in Chemistry, PP83, Dept. of Chemistry, University of North Bengal, Siliguri, 2016.



N. Thirupathi, In Abstract, V. Mishra, N. Thirupathi, M. Nethaji., *Synthesis, Structural Studies and Solution Behaviour of Pt<sub>2</sub>Ag<sub>2</sub> Clusters [κ<sup>2</sup>(C,N)Pt(μ<sub>2</sub>-OC(O)CF<sub>3</sub>)<sub>2</sub>Ag]<sub>2</sub> Containing Six-Membered Cycloplatinated N,N',N"-Triarylguanidines* 19th CRSI National Symposium in Chemistry, PP88, Dept. of Chemistry, University of North Bengal, Siliguri, 2016.

N. Thirupathi, In Abstract, P. Agarwal, N. Thirupathi, M. Nethaji., *The influence of synthetic routes upon the formation of [Cd(κ<sup>2</sup>O,O'-OC(O)<sup>t</sup>Bu)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>] and {Na<sub>2</sub>[Cd(κ<sup>2</sup>O,O'-OC(O)Me)(κ<sup>2</sup>O,O'-OC(O)<sup>t</sup>Bu)(OC(O)<sup>t</sup>Bu)<sub>2</sub>]-2<sup>t</sup>BuC(O)OH]<sub>∞</sub>* 18th CRSI National Symposium in Chemistry, P9, Punjab University and Institute of Nanoscience and Technology, Mohali, 2016.

N. Thirupathi, In Abstract, R. Kumar, N. Thirupathi., *Transfer Hydrogenation of Ketones and Aldehydes Catalyzed by [(η<sup>5</sup>-C<sub>5</sub>Me<sub>5</sub>)RhCl{κ<sup>2</sup>(N,N')(ArN)<sub>2</sub>Cκ<sup>1</sup>(H)Ar}]* 18th CRSI National Symposium in Chemistry, P200, Punjab University and Institute of Nanoscience and Technology, Mohali, 2016.

N. Thirupathi, In Abstract, V. Mishra, N. Thirupathi., *Bis-Chelate Palladium(II) Amide Complexes Derived from N-Aryl-N',N"-dipyridylguanidines: Pre-Catalysts for Heck-Mizoriki Coupling Reactions involving Styrene and Aryl Bromides/Activated Aryl*, 18th CRSI National Symposium in Chemistry, P258, Punjab University and Institute of Nanoscience and Technology, Mohali, 2016.

M.Thirumal, Invited Talk, *Sustainable Chemical and Materials Science: Progress and Challenges!* National Conference on Recent Innovations in Chemical Sciences and Environment Technology (SCMS-2016), Sri Aurobindo College, Delhi, 3-4 March, 2017.

M.Thirumal, Invited Talk, *Sustainable Chemical and Materials Science: Progress and Challenges!* National Conference on Sustainable Chemical & Material Sciences (SCMS-2016), S.S. Jain Subodh College Jaipur, 5-6 Aug., 2016.

M.Thirumal, Invited Talk, (Abstract), M.Thirumal, Yogita Bisht and Richa Tomar., *Microwave dielectrics: Understanding the complexities in Perovskites*, International Conference on Materials Science & Technology, University of Delhi, 1-4 March, 2016.

Sandeep Kaur-Ghumaan, Talk, *Biomimetic versus bioinspired hydrogen converting systems*, 5th Symposium on Advanced Biological Inorganic Chemistry (SABIC), the Stadel, Kolkata, Organised by IACS Jadavpur and TIFR, Mumbai, 7-11 Jan., 2017.

Sandeep Kaur-Ghumaan, Talk, *Hydrogen Production using Iron-based Molecular Catalysts*, FUB-DU Joint Research Workshop on Supramolecular Chemistry and Nanoscale Systems, Freie Universität Berlin, Germany Takustr. 3, SR 31.09, 8-10 June, 2016.

Sandeep Kaur-Ghumaan, Invited Talk, *Iron Thiolate Complexes as Hydrogen Converting Systems: Synthesis and Characterization by Experiment and Theory*, Symposium on Frontiers in Inorganic and Organometallics, School of Chemistry, IIT Indore, April, 2016

#### **Other Inter-Institutional Collaboration**

Prof. Ashok K. Prasad, Collaboration with Defence Institute of Physiology and Allied Sciences (DRDO), Lucknow Road, Timarpur, Delhi, on the project *Synthesis, Characterization, Cytotoxicity and Cellular Uptake Study of Sugar-PEG Based Amphiphiles as Potential Delivery Agents*

#### **Students under Exchange Programme**

Mr. Amit Kumar (Ph.D. student) visited Free University Berlin under ERASMUS PLUS Program, Oct. 1 to March 31 (Prof. Ashok K. Sharma)

Mr. Badri Parshad was awarded Erasmus+ fellowship to visit Freie University Berlin, Berlin, Germany for six months (Oct. 2016 to March 2017) for advanced research training.

Mr. Abhishek Kumar Singh was awarded Erasmus+ fellowship to visit Freie University Berlin, Berlin, Germany for six months (Oct. 2016 to March 2017) for advanced research training. (Prof. Sunil K. Sharma)

#### **M.Phil. / Ph.D. Awarded**

Ph.D. – 12,

## Faculty Strength

Permanent – 37

## Other Significant Information

The department at present has 600 M.Sc. students and 250 Ph.D. scholars.

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# ENVIRONMENTAL STUDIES

## Major Activities and Achievements

Our Department has teachers, who are also engaged in frontline areas of research across basic ecological, environmental and applied sciences. We also undertake research in socially relevant areas connected to national development and contribute to the problem-solving of issues arising from environmental degradation. The research themes are focused on novel contributions, both in fundamental and applied aspects of ecology and the environment. The extramural research projects that are secured by our Faculty facilitate in developing and upgrading the state-of-the-art laboratory facilities and in training young research scholars. Apart from collaborating with international experts, our faculty members are regularly invited to share their novel research findings through delivering keynote and plenary lectures at National and International Institutions.

## Honours / Distinctions

Prof. Maharaj K. Pandit:

Served as Hrdy Fellow, Radcliffe Institute for Advanced Study, Harvard University in the area of Life Sciences.

Elected Fellow of Indian National Science Academy (INSA), New Delhi, India.

Appointed as Independent Director (Board of Directors) in THDC India Ltd. by the Govt. of India

Appointed as member of the Special Committee for Interlinking of Rivers, Ministry of Water Resources and River Development, Govt. of India

Prof. Inderjit Singh, awarded Distinguished Ecologist Award by the Ecological Society of America.

## Publications

Bageshwar, U. K., Srivastava, M., Pardha-Saradhi, P., Paul, S., Gothandapani, S., Jaat, R. S., Shankar, P., Yadav, R., Biswas, D. R., Kumar, P. A., Pardaria J. C., Mandal P.K., Annapurna, K., & Das, H. K. (2017). An environment friendly engineered *Azotobacter* can replace substantial amount of urea fertilizer and yet sustain same wheat yield. *Applied and Environmental Microbiology*, 83, e00590-17.

Becerra, P., Callaway, R., Catford, J., Inderjit, Andonian, K., Luce, M., Aschehoug, E., & Montesinos, D. (2017). Inhibitory effects of *Eucalyptus globulus* on understory plant growth and species richness are greater in non-native regions. *Global Ecology & Biogeography* (in press).

Bhatt, J. P., Manish, K., Mehtra, R., & Pandit, M. K. (2016). Assessing potential conservation and restoration areas of freshwater fish fauna in the Indian river basins. *Environmental Management*, 57(5), 1098-1111.

Carrigy, A. A., Stotz, G. C., Dettlaff, M. A., Pec, G. J., Inderjit, Erbilgin, N., & Cahill, J. F. Jr. (2016). Community-level determinants of smooth brome (*Bromus inermis*) growth and survival in the Aspen parkland. *Plant Ecology*, 217, 1395–1413.

Goyal, N., & Sharma, G. P. (2016). Emerging invaders from the cultivated croplands: An invasion perspective. *Gene Pool Diversity and Crop Improvement*. 271-290. Springer International Publishing.

Inderjit, Catford, J. A., Kalisz, S., Simberloff, D., & Wardle, D.A. (2017). A framework for understanding human-driven vegetation change. *Oikos*.

Jain, M., Dawa, D., Mehta, R., Dimri, A.P., & Pandit, M. K. (2016). Monitoring land use change and its drivers in Delhi, India using multi-temporal satellite data. *Modelling Earth Systems and Environment*, 2, 1-14.

- Kamei, R. G., & Biju, S. D. (2016). On the taxonomic status of *Ichthyophis husaini*, Pillai & Ravichandran, 1999 (Amphibia: Gymnophiona: Ichthyophiidae). *Zootaxa*, 4079(1), 140-150.
- Kothamasi, D., Wannijn, J., van Hees, M., Nauts, R., van Gompel, A., Vanhoudt, N., ...& Vandenhove, H. (2016). *Rhizophagus irregularis* MUCL 41833 can colonize and improve P uptake of *Plantago lanceolata* after exposure to ionizing gamma radiation in root organ culture. *Mycorrhiza*, 26(3), 257-262.
- Kumari, N., Kumar, R., Mishra, V., & Yadav, S. (2016). Polyclonal antibody development against purified CC-NBS-LRR like protein fragment from mature *Lagenaria siceraria* seeds and immunolocalization. *Protein Journal*, 35, 379-390.
- Majumdar, S., Sanwal, U., & Inderjit. (2017). Interference potential of *Sorghum halepense* on soil and plant seedling growth. *Plant and Soil*, 418, 219-230.
- Manish, K., Telwala, Y., Nautiyal, D. C., & Pandit, M. K. (2016). Climate change driven loss of the Himalayan alpine meadows: herbaceous endemics in peril from advancing shrublands. *Modeling Earth Systems and Environment*, 2, 92.10.1007/s40808L016L0163L1
- Martinez-Garcia, L. B., De Deyn, G. B., Pugnaire, F. I., Kothamasi, D., & van der Heijden, M. G. (2017). Symbiotic soil fungi enhance ecosystem resilience to climate change. *Global Change Biology*.
- Meena, S. S., Sharma, R. S., Gupta, P., Karmakar, S., & Aggarwal, K. K. (2016). Isolation and identification of *Bacillus megaterium* YB3 from an effluent contaminated site efficiently degrades pyrene. *Journal of Basic Microbiology*, 56, 369-378
- Mishra, R., Singh, S., Sharma R.S., & Mishra V. (2016). Articulin-D induces apoptosis via activation of caspase-8 in acute T-cell leukemia cell line. *Molecular and Cellular Biochemistry*, 426, 87-99.
- Pandit, M. K. (2017). *Life in the Himalaya: An Ecosystem Risk Assessment*. Harvard University Press.
- Prasad, R., Shabnam, N., & Pardha-Saradhi, P. (2016). Immobilization on cotton cloth pieces is ideal for storage and conservation of microalgae. *Algal Research*, 20, 172-179.
- Rawat, D., Mishra, V., Sharma, R.S. (2016). Detoxification of *azo* dyes in the context of environmental processes. *Chemosphere*, 155, 591-605.
- Senevirathne, G., Garg, S., Kerney, R., Meegaskumbura, M., & Biju, S. D. (2016). Unearthing the fossorial tadpoles of the Indian Dancing Frog family Micrixalidae. *PloS one*, 11(3), e0151781.
- Senevirathne, G., Sonali, G., Mahony, S., Kamei, R.G., Thomas, A., Shouche, Y., Raxworthy, C.J., Meegaskumbura, & S., Bocxlaer, I. (2016). Frankixalus, a new rhacophorid genus of tree hole breeding frogs with oophagous tadpoles. *PloS one*, 11(1), e0145727.
- Senevirathne, G., Thomas, A., Kerney, R., Hanken, J., Biju, S. D., & Meegaskumbura, M. (2016). From Clinging to Digging: The Postembryonic Skeletal Ontogeny of the Indian Purple Frog, *Nasikabatrachus sahyadrensis* (Anura: Nasikabatrachidae). *PloS one*, 11(3), e0151114.
- Shabnam, N., & Pardha-Saradhi, P. (2016). Floating and submerged leaves of *Potamogeton nodosus* exhibit distinct variation in the antioxidant system as an ecophysiological adaptive strategy. *Functional Plant Biology*, 43(4), 346-355.
- Shabnam, N., Sharmila, P., & Pardha-Saradhi, P. (2017). Impact of ionic and nanoparticle speciation states of silver on light harnessing photosynthetic events in *Spirodela polyrhiza*. *International Journal of Phytoremediation*, 19(1), 80-86.
- Shabnam, N., Sharmila, P., Govindjee, H. K., & Pardha-Saradhi, P. (2017). Differential response of floating and submerged leaves of longleaf pondweed to silver ions. *Frontiers in Plant Science*, 8.
- Shabnam, N., Sharmila, P., Kim, H., & Pardha-Saradhi, P. (2016). Light mediated generation of silver nanoparticles by spinach thylakoids/chloroplasts. *PloS one*, 11(12), e0167937.
- Shabnam, N., Tripathi, I., Sharmila, P., & Pardha-Saradhi, P. (2016). A rapid, ideal, and eco-friendlier protocol for quantifying proline. *Protoplasma*, 253(6), 1577-1582.
- Sharma, M., Mishra, V., Rau, N., & Sharma, R. S. (2016). Increased iron-stress resilience of maize through inoculation of siderophore-producing *Arthrobacter globiformis* from mine. *Journal of Basic Microbiology*, 56, 719-735.

- Sharma, P., Jain R., Ghosh, C. (2016). Role of ascorbic acid in imparting tolerance to plants against oxidizing pollutants. *International Journal of Scientific & Technology Research*, 5(8), 43-47.
- Sharmila, P., Kumari, P. K., Singh, K., Prasad, N. V. S. R. K., & Pardha-Saradhi, P. (2017). Cadmium toxicity-induced proline accumulation is coupled to iron depletion. *Protoplasma*, 254(2), 763-770.
- Singh, G., Deb, M., & Ghosh, C. (2016). Urban metabolism of river Yamuna in the national capital territory of Delhi, India. *International Journal of Advanced Research*, 4(8), 1240-1248.
- Singh, S., Mishra, R., Sharma, & R. S., Mishra, V. (2017). Phenol remediation by peroxidase from an invasive mesquite: Turning an environmental wound into wisdom. *Journal of Hazardous Materials*, 334, 201-211.
- Tiwary, N. K., & Urfi, A. J. (2016). Nest survival in Painted Stork (*Mycteria leucocephala*) colonies of north India: The significance of nest age, annual rainfall and winter temperature. *Waterbirds*, 39(2), 146-155.
- Urfi, A. J. (2016). Animal locomotion in different mediums. *The adaptations of wetland organisms. Resonance*, 21(6), 545-556.
- Wijayathilaka, N., Garg, S., Senevirathne, G., Karunarathna, N., Biju, S. D., & Meegaskumbura, M. (2016). A new species of *Microhyla* (Anura: Microhylidae) from Sri Lanka: An integrative taxonomic approach. *Zootaxa*, 4066(3), 331-342.
- Willaert, B., Suyesh, R., Garg, S., Giri, V. B., Bee, M. A., & Biju, S. D. (2016). A unique mating strategy without physical contact during fertilization in Bombay Night Frogs (*Nyctibatrachus humayuni*) with the description of a new form of amplexus and female call. *PeerJ*, 4, e2117.

## Research Projects

MoEFCC Project; WAPCOS Project. Prof. Maharaj K. Pandit

DBT, Govt. of India. *Invasion ecology of *Prosopis juliflora* in contexts of biodiversity and conservation*. Prof. Inderjit Singh

Prof. R.S. Sharma:

Ministry of Environment, Forests & Climate Change, New Delhi. *Advanced Training and Research in Plant Biosystematics*.

UGC-DU. *Role of phage-bacterium....mine*.

DST, New Delhi. *Diversity in bacteria at nutrient stressed site: Role of bacteriophages*. Prof. R.S. Sharma / Dr. Vandana Mishra

Dr. Chirashree Ghosh:

Ministry of Earth Sciences (MoES), New Delhi. *Monitoring Indoor Air Pollution (IAP) in Delhi University Area and accessing its Human Health Impacts*.

Ministry of Health and Family Affairs, Department of Health Research. *Spatio-Temporal Epidemiology of Chronic Respiratory Illnesses in Urban Indian Settlements (STEPCRUISE)*.

Ministry of Environment, Forests & Climate Change. *Impact of Environmental Bioaerosol Pollution on Human Health: A 'case-control study' for Exacerbation of COPD in North Indian Population*.

UGC-DU. *Role of the niche in shaping mycorrhizal community structures*. Dr. David Kothamash

Dr. Vandana Mishra:

UGC-DU. *Prevalence and ecological significance of polyphosphate.....mine*.

Dept. of Science and Technology, New Delhi. *Functional and Taxonomic Diversity Among Plant Growth Promoting Rhizobacteria ..... Fly Ash Environment*.

Dept. of Science and Technology, New Delhi. *Insect herbivores on an invasive plant (*Hyptissuaveolens*): A case of host shift, ecological fitting or an evolutionary trap?* Dr. Gyan Prakash Sharma, Dr. Swati Diwakar

DST, New Delhi. *Traits that matter...Indian sub-continent*. Dr. Gyan Prakash Sharma

DST, Govt. of India. *Weta in India: Acoustic Communication, Systematics and Behavioral Ecology*. Dr. Swati Diwakar

### Seminar / Conference Presentation

Pandit, Maharaj K., *Let a Thousand Gentians Bloom*, Radcliffe Institute for Advanced Study, Harvard University, Harvard, USA, April 8, 2016.

Singh, Inderjit., Plenary Lecture, 8th World Allelopathy Congress, Marseille, France, 24-28 July, 2017.

Singh, Inderjit., Peer Group on Global Risk Assessment of *Prosopis juliflora*. Invited by the European and Mediterranean Plant Protection Organization (EPPO) to prepare a pest risk analysis for two invasive plant species, *Prosopis juliflora* and *Hakea sericea*, 15-19 May, 2017, Paris, France.

Singh, Inderjit., Key Lecture, established collaboration with the University of Kunming and Shenzhen Genome Institute China, 19-24 March, 2017, to work on the invasion and the management of *Ageratina adenophora* and *Mikania micrantha*.

Singh, Inderjit., *Impact of Ageratina adenophora on aboveground patterns and below ground processes*. Plant Protection Institute, Chinese Academy of Sciences, Beijing, China, 22-26 March, 2016.

Akshay Shankar, Arun Yadav, Palak Balyan, Shuka Das, Chirashree Ghosh; *Dynamics of Bio Allergens Exposure in Urban Indoor*. Conference Proceedings: International Conference on Advances in Plant and Microbial Biotechnology (PMB-2017), Jaypee Institute of Information Technology (JIIT), Noida, 2-4 Feb., 2017.

Karmakar S, Mishra V and Sharma R.S.; Pattern of distribution of bacterial host and its phages in soil environment. 5th Global Congress on Environmental Microbiology, Atlanta, Georgia, USA, 28-30 Nov., 2016.

Karmakar S, Mishra V and Sharma R.S.; Environmental applications of ssDNA bacterial viruses. 8th International Geminivirus Symposium and 6th International ssDNA Comparative Virology Workshop, JNU, New Delhi, 7-10 Nov., 2016.

Mishra., R., Yadav, A., Sharma, R.S. Mishra, V.; *Purification of a ribosome inactivating lectin from Viscum articulatum: a protein with multiple enzymatic activities*. World Biotechnology Congress, JNU, New Delhi, 2017.

Mishra., R., Sharma, R.S., Mishra, V., *Evaluation of anticancerous potential of aqueous extract of Viscum articulatum, leafless mistletoe, on human leukemia cells*. 5th Biennial International Conference on New Developments in Drug Discovery from Natural Products and Traditional Medicine, NIPER, Mohali, Punjab, 2016.

Balyan, P. & Ghosh, C.; *Comparison of Bio-aerosol Sampling Methods in Indoor Built-Up Environment*. National Conference on Environmental Pollutants: Impact Assessment and Remediation. School of Environmental Sciences, Jawaharlal Nehru University, Delhi, March 29, 2017.

Balyan, P., Ghosh, C., Banerjee, B. D., & Shukl Das; Oral Presentation, *Assessment of bio-aerosols and associated health effect in diverse built-up settings*. 61<sup>st</sup> Annual National Conference of Indian Public Health Association (IPHACON), AIIMS, Jodhpur, 24-26 Feb., 2017.

Goyal, N. & Sharma, G.P.; *Trait Modulations to irradiance: A key to Ricinus Communis (castor) aggressive colonization potential*. 7<sup>th</sup> International Weed Science Congress Prague, Czech Republic, 19-25 June, 2016.

Goyal, N. & Sharma, G.P.; National Conference on Combating Industrial Pollution for Sustainable Environment – A Fusion of Industrial and Scientific Efforts (CIPSE-2016), Gargi College, University of Delhi, 22-23 Sept., 2016.

Kumar, S., Tyagi S. & Ghosh, C.; *Heavy metal Pollution Index – A useful tool for the assessment of metal toxicity in the Urban-Stretch of River Yamuna*. National Conference on Combating Industrial Pollution for Sustainable Environment – A Fusion of Industrial and Scientific Efforts (CIPSE-2016), Gargi College, University of Delhi, 22-23 Sept., 2016.

Sharma, P. & Ghosh, C.; *Urban Vegetation Combating Challenges of Increasing Particulate Matter*. National Conference on Environmental Pollutants: Impact Assessment and Remediation, School of Environmental Sciences, Jawaharlal Nehru University, Delhi, 29 March, 2017.

Sharma, G. & Ghosh, C.; *Microplastic: Invisible Journey from Environment to Food Chain*. National Conference on Environmental Pollutants: Impact Assessment and Remediation, School of Environmental Sciences, Jawaharlal Nehru University, Delhi, 29 March, 2017.

Sharma, G., & Ghosh, C.; *Microplastic: a source of toxic chemical leaching in environment*. National Conference on Combating Industrial Pollution for Sustainable Environment – A Fusion of Industrial and Scientific Efforts (CIPSE-2016), Gargi College, University of Delhi, 22-23 Sept., 2016.

### **Inter-Institutional Collaboration**

Prof. Maharaj K. Pandit, Prof. Andrew Knoll, Prof. Oliver Jagoutz, MIT, Prof. Taylor Perron, MIT, Prof. Lian Pin Koh; Research collaboration with Harvard University; Massachusetts Institute of Technology (MIT), USA; University of Adelaide, Australia; Radcliffe Institute for Advance Study, Harvard University.

Prof. P. Pardha Saradhi, Prof. Govindjee, Professor Emeritus, Prof. Reto J. Strasser. Investigations on photosynthesis and nanobiotechnology; Research collaboration with Biochemistry, Biophysics and Plant Biology, UIUC, 265 Morrill Hall, 505 South Goodwin Av, Urbana, IL61801-3707, USA Bioenergetics Laboratory, University of Geneva, 1254 Jussy/Geneva, Switzerland.

### **Faculty Strength**

Permanent – 11

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## **GEOLOGY**

### **Major Activities and Achievements**

The Department has completed the 50<sup>th</sup> year since its establishment in 1966. On the occasion of Golden Jubilee of the department, a national seminar *Geoscience Education- A Uniformitarianism perspective* was Organised in January, 2017. Major highlights of the achievement by the department during this year include – studies related to Cretaceous Dinosaur eggs by Prof. G. V. R. Prasad; research on Deccan Traps related to CO<sub>2</sub> capture, bole beds, and K/Pg boundary by Prof. J. P. Srivastava; research related to liquefaction potential, landslide hazard zonation and prediction and landslide susceptibility mapping by Prof. C. S. Dubey; investigation of pseudotachylytes and their implication for seismic faulting by Prof. A. Chattopadhyay. . He has also initiated a SERB-sponsored programme on Digital Geological Mapping of deformed ore-bearing rocks, first time in India. Prof. P. P. Chakraborty carried out research on Mesoproterozoic sedimentation history of Singhora Group, suboxic ocean model for early Paleoproterozoic ocean and shallow marine glaucony during Precambrian. Prof. D.K. Sinha and Dr. A.K. Singh investigated paleomonsoon, paleoceanographic changes. Prof. N. C. Pant carried out research on Neoproterozoic orogeny, Himalayan cryosphere, Antarctic geology and Saraswati River paleochannel. Dr. V. Singh investigated channel widths in intermontane valley and subsidence control on river morphology.

### **Honours / Distinctions**

Prof. G. V. R. Prasad:

Awarded J.C.Bose National Fellowship for a second 5 year term.

Nominated as Chairman of DST Expert Committee for SwarnaJayanti Fellowships in Earth & Atmospheric Science (2016-2017).

Nominated as Member of the Scientific Committee of 5<sup>th</sup> International Paleontological Congress to be held at Paris, France from July 9-13, 2018.

Member INSA INSPIRE Faculty Selection Committee (2017).

Prof. J.P. Shrivastava, awarded ISCA Professor W. D. West Memorial Award, 2017.

Dr.Vimal Singh, Member, IGCP Scientific Board (Geohazard Theme).

Prof. C.S. Dubey:

Expert Member, HPDEC UGC - High Powered Distance Education Committee (2017- 2020).

Expert Member, Research Council, Defence Terrain Research Laboratory, DRDO, Ministry of Defence , Govt. of India.

Expert Member, National Geospatial Policy, DST consultative committee, Ministry of Science and Technology, Govt. of India.

Prof. N.C. Pant:  
Deputy Chief Officer, Geosciences Group of the Scientific Committee on Antarctic Research (SCAR) (2012-2016).  
Member, INSA Committee on SCAR.  
Member of Exploration Research Advisory Committee (ERAC), Northern Region, Atomic Mineral Directorate,  
Dept. of Atomic Energy.  
Member, Editorial Board, Indian Journal of Geosciences.  
National Convener, IGCP-470 (Pan-African Event).  
Expert for Earth Science Program selection for Indian Antarctic Scientific Expedition (2015, 2016)  
Member (Earth Sciences), DST Expert Committee on INSPIRE Fellowship.

## Publications

- Ali, S., Thakur, S.K., Sarkar, A., & Shekhar, S. (2016). Worldwide contamination of water by fluoride. *Environmental Chemistry Letters*, 14, 291-315.
- Arora, D., Pant, N.C., Fareeduddin, Sharma, S., & Ram, R., Sadiq, M. (2017). Inferring a neoproterozoic orogeny preceding the rodnia break-up in the sirohi group, NW India, In Pant, N. C., Dasgupta, S. (Eds.), *Crustal Evolution of India and Antarctica: The Supercontinent Connection*. Geological Society, London, Special Publications, 457, <https://doi.org/10.1144/SP457.3>
- Banerjee, S., Mondal, S., Chakraborty, P.P., & Meena, S.S. (2016). Distinctive compositional characteristics and evolutionary trend of Precambrian glaucony: Example from Bhalukona Formation, Chhattisgarh basin, India. *Precambrian Research*, 271, 33-48.
- Bhattacharjee, D., Jain, V., Chattopadhyay, A., Biswas, R. H., & Singhvi, A. K. (2016) Geomorphic evidence and chronology of multiple neotectonic events in a cratonic area: results from Gavilgarh Fault Zone, Central India. *Tectonophysics*, 677-678, 199-217.
- Chakraborty, P.P., Saha, S., & Das, P. (2016). Geology of mesoproterozoic Chhattisgarh Basin, central India: current status and future goals. *Geological Society of London, Mem.* 43, 185-205.
- Das, K., Chakraborty, P.P., Horie, K., Tsutsumi, Y., Saha, S., & Balakrishnan, S. (2017). Detrital zircon U-Pb geochronology, Nd Isotope mapping and sediment geochemistry from the Singhora Group, Central India: Implication towards provenance, its shift and regional stratigraphic correlation: In *Sediment Provenance: Influences on compositional change from source to sink*. Book Chapter-15, Elsevier, pp.403-451.
- Dhiman, H., Verma, V., Prasad, G.V.R. (2017). Preliminary study of microstructure and taphonomy of dinosaur eggs and nests of the Upper Cretaceous Lameta Formation, near Padyala, Lower Narmada valley, India. In Kathal, P. K., Nigam, R., Talib, A. (Eds.), *Advanced Micropaleontology* (pp. 211-232). Scientific Publishers, New Delhi.
- Dingle, E., Sinclair, H.D., Attal, M., Milodowski, D.T., & Singh, V. (2016). Subsidence control on river morphology and grain size in the Ganga Plain. *American Journal of Science* 316(8), 778-812.
- Divyadarshini, A., & Singh, V. (2016). Seismic threat to the Chitwan and Hetauda Duns, Central Nepal. *Current Science* 111(8), 1309-1310.
- Halliday, T.J.D., Prasad, G.V.R., & Goswami, A. (2017). Faunal similarity in Madagascan and Indian late Cretaceous vertebrate faunas. *Palaeogeography, Palaeoclimatology, Palaeoecology* 468, 70-75.
- Khan, A. A., Pant, N.C., Tandon, S.K., Sarkar, A., Thamban, M., & Mahalinganatham, K. (2016). The Himalayan Cryosphere - A critical assessment and evaluation of Glacial melt fraction in the Bhagirathi basin. *Geoscience Frontiers*, <http://dx.doi.org/10.1016/j.gsf.2015.12.009>
- Kumar, A., Shrivastava, J. P., & Pathak, V., (2017) Mineral carbonation reactions under water-saturated, hydrothermal-like conditions and numerical simulations of CO<sub>2</sub> sequestration in tholeiitic basalt of the Eastern Deccan Volcanic Province, India. *Applied Geochemistry*, 84, 87-104.
- Kumar, S., Sarkar, A., Thakur, S K., & Shekhar, S. (2017). Hydrogeological characterization of aquifer in Palla flood plain of Delhi using integrated approach. *Jour. Geol. Soc. of India. In Press*.
- Kumar, D., Thakur, M., Dubey C. S., & Shukla, D.P. (2017). Landslide susceptibility mapping & prediction using Support Vector Machine for Mandakini River Basin, Garhwal Himalaya, India. *Geomorphology* 295, 115-125.

- Lourembam, R.S., Prasad, G.V.R., & Grover, P. (2017). Ichthyofauna (Chondrichthyes, Osteichthyes) from the upper Cretaceous intertrappean beds of Piplnarayanwar, Chhindwara District, Madhya Pradesh, India. *Island Arc*, 26(1). (in press).
- Mallick, K., Barik, B., Singh, A.K., Sinha, D.K., Singh, V.P., & Kaushik, T. (2017). Application of mixed layer planktonic foraminiferal species as tracers of the ocean with special reference to eastern equatorial pacific. *Vistas in Geological Research U.U. Special Publication in Geology*, 15, 171-179. ISBN: 81-900907-0-4.
- Mehdi, S.M., Pant, N.C., Saini, H.S., Mujtaba, S.A.I., & pande, p. (2016). identification of palaeochannel configuration in the Saraswati river basin in parts of Haryana and Rajasthan, India, through Digital Remote Sensing and GIS. *Episodes*, doi : 10.18814/epiiugs/2016/v39i1/89234
- Mukhopadhyay, S.K., Pal, S., & Shrivastava, J.P. (2017). Comments on the paper published by Sial, et al. (2016), Mercury enrichments and Hg isotopes in Cretaceous-Paleogene boundary successions: Links to volcanism and palaeoenvironmental impacts. *Cretaceous Research*, 66, 60-61.
- Mukul, M., & Singh, V. (2016). Active Tectonics and geomorphological studies in India during 2012-2016. *Proceedings of the Indian National Science Academy*, 82(3), 727-735.
- Pant, N.C., Roy, S., Ravikant, V., & Ravindra, R. (2017). Recent contributions to the antarctic geology- An Indian perspective. *Proc. Ind. National Sci. Aca.*, 83, 269-278. doi : 10.16943/ptinsa/2017/48948
- Parida, S., Tandon, S.K., & Singh, V. (2017). Controls on channel width in an intermontane valley of the frontal zone of the northwestern Himalaya. *Geomorphology*, 278, 12-27.
- Parmar, V., Magotra, R., Norboo, R., & Prasad, G.V.R. (2016). Rodent-based age appraisal of the Lower Siwalik Subgroup of Kalaunta, Ramnagar, Jammu, India. *Alcheringa* 41, <http://dx.doi.org/10.1080/03115518.2016.1196435>
- Pathak, V., Patil, S., & Shrivastava, J.P., (2017) Tectono-magmatic setting of lava packages in the Mandla lobe of the eastern Deccan volcanic province, India: Paleomagnetism and Magnetostratigraphic evidences. *Geological Society of London*, <https://doi.org/10.1144/SP445.3>
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### Research Projects

SERB Project, April 2015 to March 2018. *GIS based digital mapping of natural deformational structures: Development of methodology and application to structurally controlled ore deposits*. Prof. A. Chattopadhyay, Rs. 37,06,000/-

UGC, 2017, *Paleo-Proterozoic sedimentation in north Indian craton: Evidence from the basal part of Gwalior and Bijawar basin*. Prof. P.P. Chakraborty

R & D Grant, DU, 2016, *Assessment of spatial variation of fluoride concentration in groundwater of Delhi in geological perspective*. Dr. S. Shekhar

DST SERB project, 2016, *Paleogene fossil soils of the NW Himalayan Foreland Basin: Implications for the oldest tropical weathering and monsoonal conditions over the Indian subcontinent*. Prof. P. Srivastava, Rs. 27,66,800/-

Prof. J.P. Shrivastava:

Ministry of Earth Science, Govt. of India, 2017, *Geochemical Flow Stratigraphy, Age and Duration of Deccan Volcano-Sedimentary Succession from Koyna Drill-Core Site.* Rs. 62, 53, 000/-.

2016. *Clay-organomolecular studies on sediments of the late Cretaceous-early Paleocene succession of the Mahadeo-Cherapunji section to assess lateral continuity with the K/Pg layer of the Um-Sohryngkew river section, Meghalaya: palaeoenvironmental implications and K/Pg transition.* Rs. 31, 90, 080/-.

IUAC Project, 2016. *Isotopic compositions, <sup>10</sup>Be and <sup>14</sup>C dating of loess-palaeosol from Dilpur formation of Kashmir: Palaeoclimatic reconstruction.* Rs. 5, 79, 000/-

Prof. N.C. Pant:

DST-SERB project, 2013-2017. Finger printing of glacial melt water in the Ganga basin- Implications for modeling of Hydrological cycle in the Himalayan river system. Rs. 25,02,680.

MOES project: 2017-2020. *A 100 Ka Glaciations - deglaciation history of Ladakh: Its comparison with Sutluj valley and signatures in the alluvial plains of NW India.* Rs. 85,00,000/-

### Patents Filed / Granted

Prof. C.S. Dubey, File No. 4145/DEL/2015, Arsenic Treatment Technology in Contaminated Water with Scolecite. Publication Year, 2016.

### Seminars Organised

Prof. N. C. Pant, National Conference on *Geoscience Education: A Uniformitarianism Perspective*, was Organised on Jan. 27, 2017.

### Seminar / Conference Presentation

N. C. Pant, Session Convener and oral presentation, XXX IV SCAR Open Science Conference, 2016, at Kuala Lumpur, Malaysia, Aug., 2016.

C. S. Dubey, Keynote Paper, Sustainable Development and Hazard Mapping of Geo-Disasters in the 21st Century: Case studies in parts Indian Himalayas and Peninsular regions, UGC SAP DRS-1 Sponsored National Seminar Challenges and Opportunities for sustainable development of mineral and fossil energy resources (COSDMFER - 2017) Dept. of Geology, Andhra University, Visakhapatnam, 24-25 March, 2017.

C. S. Dubey, Invited Speaker, *Failures and Success in Distance Education*, Two-day National Conference on Distance Education in India: Emerging Challenges and Prospects, Organised by Directorate of Distance Education, Pondicherry University, 8-9 Sept., 2016.

C. S. Dubey, Invited Speaker, Strategic Session *Disrupting Open and Distance Education through the Digital Technology and Online Learning: A way forward for progress in Young India* in Education 2030: Visionary leadership for Digital Transformation Higher Education for the sustainable world we want, UNESCO HQs, Paris, France. May 24, 2017.

C. S. Dubey, Special Invitation, Leadership Summit on *World Class Universities and Public Good* Organised by THE-Times Higher Education World Summit at UC Berkley, USA, 26-28 Sept., 2016.

Prof. J. P. Shrivastava, Invited Talk, *Stratigraphy, Age and Petrogenesis of Basalts from Mandala Lobe of the Eastern Deccan Volcanic Geochemical Flow Province, India* in ISCA 105 Session, Tirupati, Jan., 2017.

Prof. A. Chattopadhyay, Plenary Talk, *Digital mapping on a GIS platform: is it the future of geoscience fieldwork?* Conference on Developments in Geosciences in the past decade – emerging trends for the future and impact on society, AGM, Geological Society of India: Indian Institute of Technology, Kharagpur, 21-23 Oct., 2016.

S. Shekhar, Invited Talk, *Regional coarse grid numerical groundwater modeling in NW India - A Case Study.* (Use of groundwater model as a hydrogeological tool). Workshop, Groundwater modeling for aquifer management in soft rock areas, Organised by Central Ground Water Board, Ministry of Water Resources, River Development and Ganga Rejuvenation, Govt. of India, at IIT Kharagpur, West Bengal, Sept. 1, 2016.

S. Shekhar, Invited Talk, Connecting People to Nature-Way Forward, on World Environment Day, Centre for Advanced Water Technology and Management, Manav Rachna International University, Faridabad, Haryana, June 06, 2017.

S. Shekhar, Water resources management of Delhi and groundwater supply challenges. South Asian Groundwater Forum: Regional Challenges & Opportunities for Building Draught and Climate Resilience for Farmers, Cities and Villages by Government of India, the International Water Association and The World Bank, Chokhi Dhani, Jaipur Rajasthan, 1-3 June, 2016.

Chattopadhyay, A., (2016). Abstract and presentation, Neoproterozoic transpression and polyphase fault reactivation in Gavilgarh-Tan shear zone: Implications for the tectonic evolution of central Indian craton in 35th International Geological Congress, Session T33, Cape Town, S Africa, Aug. 31, 2016.

Sarkar, A., Chattopadhyay, A. (2016). Abstract and Presentation, Microstructural and chemical heterogeneity of pseudotachylytes from Indian craton, and its implications for frictional melting process along seismic faults, 35th International Geological Congress, Session T43, Cape Town, S Africa, Sept. 1, 2016.

Divyadarshini, A., Singh, V., (2016). Geomorphic Investigation of a Transverse Structure Controlling the Geometry and Propagation of Thrust Segments in the Central Nepalese Himalaya. Annual General Meeting of the Geological Society of India.

Dingle, E., Sinclair, H.D., Attal, M., Milodowski, D.T., Singh, V. (2016). Controls on river morphology in the Ganga Plain. EGU General Assembly Conference.

Divyadarshini, A., Singh, V. (2016). Thrust and fold growth, segment linkage and morpho- tectonic evolution of the frontal Siwalik range to the south of the Chitwan intermontane valley, Central Nepal: Evidences from topography and drainage development. National Geo-Research Scholars Meet. Wadia Institute of Himalayan Geology, Dehradun, 1-4 June, 2016.

Bashir, N., Singh, V., Parida, S., Shekhar, S., (2016). Estimation of river discharge using remote sensing based river width measurements - a case study from the Yamuna River. National Geo-Research Scholars Meet, Wadia Institute of Himalayan Geology, Dehradun, 1-4 June, 2016.

Parida, S., Singh, V., Tandon, H., Patel, R., Singh, N. (2016). Controls on the grain size distribution along the rivers of Dehra Dun. National Geo-Research Scholars Meet, Wadia Institute of Himalayan Geology, Dehradun, 1-4 June, 2016.

Kumar, R., Singh, V., (2016). Clay mineralogy of a Chambal river section, Central India. National Geo-Research Scholars Meet. Wadia Institute of Himalayan Geology, Dehradun, India, 1-4 June, 2016.

Chakraborty, N.B., Jain V, Shekhar, S. (2016). Impact of a megacity on the connectivity of a large river system. 35<sup>th</sup> International Geological Congress, Cape Town, South Africa, 27 Aug.- 4 Sept., 2016

Singh, A., Gupta. S., Sinha, R., Densmore, A. L., Buylaert, J-P., Carter, A., van-Dijk, W. M., Joshi, S. K., Nayak, N., Mason, P. J., Kumar, D. K., Mondal, M., Murray, A. S., Rai, S. P., Shekhar, S. (2016). *Variable scale channel avulsion history using fan architecture and stratigraphy, and sediment provenance of Sutlej-Yamuna fans in northwest Gangetic plains during Late Quaternary*. EGU General Assembly 2016, Vienna Austria, p.17423, 17-22 April, 2016.

Bhattacharya, S. & Panigrahi, M. K. (2016). *Volatiles associated with granitoids around orogenic gold deposits in Ramagiri-Penakacherla regions of Eastern Dharwar Craton, South India*. In Sixth Biennial Conference on Asian Current Research on Fluid Inclusions. ACROFI VI, Mumbai, 25-27 Nov., 2016. Abstract Volume. (pp. 164-167).

### **Inter-Institutional Collaboration**

Prof. A.Sarkar, Prof. P.P.Chakraborty, Dr. K. Das. Research collaboration with IIT, Kharagpur, Jadavpur University, Kolkata, Pondicherry University, IIT, Mumbai, National Science Museum, Hyakunin- choShinjuku-ku, Tokyo, Japan. Funded by DST, IIT, and JSPS.

Prof. R. Sinha, Dr. S. Shekhar., The structure and dynamics of groundwater system in northwestern India under past present and future climates. Collaborators – India: University of Delhi, IIT Kanpur, NIH Roorkee, NGRI Hyderabad. Outside India: Durham University, U.K. & Imperial College London, U.K., Funded by MOES, India & NERC, U.K.

### Placement Details

Students Placed –14 (GSI, ONGC, BAARC, IIT, AU)

### M.Phil. / Ph.D. Awarded

Ph.D. 10

M.Phil. 3

### Faculty Strength

Permanent –13

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## PHYSICS AND ASTROPHYSICS

### Major Activities and Achievements

The Department continued to ensure high standards in teaching and research. The Department Organised, after many years, a Refresher Course for college teachers. This programme included pedagogical lectures, hands-on laboratory work and computer based sessions. Exposure lectures and visits to research laboratories also provided these teachers the glimpses and highlights of research conducted in the Department. The participating teachers from all over the country gave extremely positive feedback to this joint initiative with CPDHE. The Department Organised several International and National conferences during this duration. A Visitor Program was Organised in which several distinguished faculties from several branches of physics gave excellent talks. Regularly held Colloquia by eminent speakers were well received by our postgraduate and Ph.D. students. Two faculty members are Fellows of all three National Science Academies. On the occasion of Science Day, a poster exhibition was held and children from the Delhi University schools visited the department.

### Honours / Distinctions

Sanjay Jain, Addie & Harold Broitman Member, Simons Center for System Biology, Institute for Advanced Study, Princeton, USA.

Avinash Khare, INSA Biren Roy Memorial Award Lecture 2016.

Vinay Gupta, Member, Scientific Advisory Committee, Inter-University Acceleration Centre (IUAC), Delhi.

H. P. Singh, Member of Indo-Japan Science Council appointed by DST India.

### Publications

Bhadola, P., & Deo, N. (2016). Targeting functional motifs of a protein family. *Physical Review E*, 94(4), 042409.

Bokolia, R., Mondal, M., Rai, V. K., & Sreenivas, K. (2017). Enhanced infrared-to-visible up-conversion emission and temperature sensitivity in (Er<sup>3+</sup>, Yb<sup>3+</sup>, and W<sup>6+</sup>) tri-doped Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> ferroelectric oxide. *Journal of Applied Physics*, 121(8), 084101.

Förster, S., Trautmann, M., Roy, S., Adeagbo, W. A., Zollner, E. M., Hammer, R., Schumann, F.O., Meinel, K., Nayak, S.K., Mohseni, K., Hergert, W., Meyerheim, H.L., & Widdra, W. (2016). Observation and structure determination of an oxide quasicrystal approximant. *Physical Review Letters*, 117(9), 095501.

Goel, S., Sinha, N., Yadav, H., Joseph, A. J., & Kumar, B. (2017). Experimental investigation on the structural, dielectric, ferroelectric and piezoelectric properties of La doped ZnO nanoparticles and their application in dye-sensitized solar cells. *Physica E: Low-dimensional Systems and Nanostructures*, 91, 72-81.

Goyal, R., Sehdev, N., Lamba, S., & Annapoorni, S. (2016). Nucleation controlled magnetization reversal mechanism in oriented L1<sub>0</sub> FeCoPt ternary alloys. *Solid State Communications*, 226, 44-50.

Prasad, A., Sakai, K., & Hoshino, Y. (2017). Direct coupling: a possible strategy to control fruit production in alternate bearing. *Scientific reports*, 7.

Rana, A., Jain, D., Mahajan, S., & Mukherjee, A. (2016). Revisiting the distance duality relation using a non-parametric regression method. *Journal of Cosmology and Astroparticle Physics*, 2016(07), 026.

Sahare, P. D., & Srivastava, S. K. (2016). Lyoluminescence dosimetry of high-energy  $\gamma$  radiation using MgB<sub>4</sub>O<sub>7</sub>: Mn<sup>2+</sup>. *Journal of Radioanalytical and Nuclear Chemistry*, 307(1), 31-36.

Sharma, Y., & Murugavel, S. (2017). Non ideal Behavior of Glass and Crystal. *The Journal of Physical Chemistry B*, 121(19), 5116-5124.

Vyas, M. K., & Chandra, A. (2016). Ion–electron-conducting polymer composites: Promising electromagnetic interference shielding material. *ACS Applied Materials & Interfaces*, 8(28), 18450-18461.

## Research Projects

Binay Kumar:

SERB-DST, 2016-2019, *Fabrication and characterization of piezoelectric nanocrystals-organic hybrid sheet for energy harvesting and pressure sensor*. Rs. 72,00,000/-

ARMREB (DRDO), June 2015-2018, *Flux growth of Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-PbTiO<sub>3</sub> (PMNT) single crystals for piezoelectric and pyroelectric applications*, , Rs. 86,00,000/-

Ajit K. Mahapatro:

SSPL, DRDO; 2017-2019; Investigation of Thermoelectric (TE) Properties of Calcium Cobalt Oxide (Ca<sub>3</sub>Co<sub>4</sub>O<sub>9</sub>) and Graphene Derivatives (as nano-inclusions) for TE Generator Applications () Rs. 9,83,000/-

LSRB, DRDO, 2014-2017, *Synthesis and Characterization of magnetic nanoparticles for tumor treatment using magnetic fluid hyperthermia*, Rs. 38,88,000/-

SERB-DST, 2017-2019, *Tailoring of magnetic and other functional properties of thin film nanostructures using low energy ion beams*, Sumalay Roy, Rs. 60,00,000/-

SERB-DST, 2016- 2019, *Understanding the perpetual points in nonlinear dynamical systems*. Awadhesh Prasad, Rs. 23,75,000/-

S. Murugavel:

DST, 2014-2017, *Transport and dynamics of alkali ions in solid electrolytes with disordered structure*, 48,85,000/-

CSIR, 2015-2018, *Investigations on nanostructured Olivine phosphate cathode material for advanced energy storage applications*, Rs. 56,40,000/-

Kirti Ranjan:

DST, 2014-2019, *Compact Muon Solenoid (CMS) Upgrade, Operation and Utilization*, Rs. 9,99,00,000/- DST, 2014-2019, *Updating and Operation of Regional WLCG Grid System*, Rs. 25,30,000/-

Vinay Gupta:

DST, 2014-19, *Development of thin film Surface Acoustic Wave device as a platform for the sensing applications*, Rs. 4,24,38,000/-

DRDO, 2015- 2017, *Molecular Modelling of Halons alternatives*, 2,76,07,000/-

## Inter-Institutional Collaboration

H P Singh (PI) Indo-US Project with Nodal Institute as Delhi University and SUNY (Oswego), Texas A & M University, University of Florida at Gainesville and IUCAA (Pune) as partner Institutes.

Avinash Khare, with Tata Institute of fundamental Research, Institute for Plasma Research, Gandhinagar.

C Sevi Murugavel, Collaborative work between DU and IGCAR.

Shyama Rath, Featured in Accelerator knowledge Portal, International Atomic Energy Agency, Vienna, (<http://nucleus.iaea.org/sites/accelerators/Pages/default.aspx>)

Ashok Kumar, A. Bhardwaj, B.C. Choudhary, M. Naimuddin, K. Ranjan: Country-wide collaboration on Compact Muon Solenoid (CMS) experiment in High Energy physics with National (TIFR, SINP, BARC, etc.) and International (CERN, Fermilab, DESY etc.) institutions.

### **Seminar / Conferences Presentation**

Ajit. K. Mahapatro, International Conference on Technologically Advanced Materials & Asian Meeting on Ferroelectricity (ICTAM-AMF10), University of Delhi, Delhi, 7-11 Nov., 2016.

Md. Naimuddin, XXII DAE-BRNS HEP Symposium, Dec., 2016.

Attended/participated:

Ajit K. Mahapatro, EMSI International Conference 2017, Confluence Banquets & Resorts, Mahabalipuram, Tamilnadu, 17-19 July, 2017.

Binay Kumar, Invited Talk, 25th AACGE Western Section Conference on Crystal Growth & Epitaxy, California, USA, 12-15 June, 2016.

S. Murugavel, Invited Talk, Asian Conference on Solid State Ionics (ACSSI-2016), IIT Patna, 27-30 Nov., 2016.

Suresh Kumar, Invited Talk, Tilted Axis cranking, Experimental Techniques in Gamma Spectroscopy (School), IUAC, New Delhi, 25-29 April, 2016.

Amarjeet Kaur, Invited Talk, International Conference on Science and Technology of Synthetic Metals in 2016 (ICSM2016), Guangzhou Convention Center, Guangzhou, China, June 26-July 1, 2016.

Md. Naimuddin, Invited Talk, International Conference in High Energy Physics (ICHEP) 2016, University of Chicago, Chicago, USA, 3-10 Aug., 2016,

National Conferences:

S. Murugavel, Invited Talk, Sustainable Energy Technologies for Smart and Clean Cities (SETS&CC) Conference, Tirupati, 27-29 July, 2016.

Vinay Gupta, Invited Talk, Inspire Programme, DST sponsored INSPIRE programme, SRM University, Kundli, Haryana, July 20, 2016.

Vinay Gupta, Invited Talk, Processing techniques for thin films and nanostructures, Workshop on Techniques of Material processing, Central University of Haryana, 27-29 April, 2016.

S.K. Chamoli, Invited Talk, School on Experimental Techniques at the Inter University Accelerator Centre, Delhi, April 28, 2016.

### **Ph.D. / M.Phil Awarded**

Ph.D. – 10

### **Faculty Strength**

Permanent – 42

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## **ZOOLOGY**

### **Major Activities and Achievements**

Department of Zoology is one of the premier research intensive Department in the country. Research is conducted in diverse areas ranging from microbes to human. Faculty members in the last one year have published approximately 150 research papers in peer reviewed journals of high impact. They have also presented their findings in various National and International conferences. Many of them have been conferred with prestigious honours and have received substantial funding from various funding agencies both from National and International. The Department of Zoology has been recognized for DST-FIST, UGC-SAP/CAS and DU-DST PURSE schemes. Department imparts M.Sc. teaching and training in advanced areas of Zoology to approximately 180 students. In addition, 10 M. Phil. and 20 Ph.D. degree has been awarded to the students in last one year.

### **Honours / Distinctions**

Prof. Rup Lal:

Received Kuldeep Dhatwalia Excellence Award-2017 from Chaman Seva Sansthan, Himachal Pradesh for exemplary work, achievements, commitment and contributions in the development of nation. 2017.

Ambassador of ISME (International Society for Microbial Ecology), The Netherlands (March 2017 onwards).

Received the Moselio Schaechter Distinguished Service Award-2016 from American Society for Microbiology (ASM) for exemplary leadership and commitment towards the substantial furthering of the profession of microbiology in research, education or technology in the developing world.

Prof. B.N. Johri Award on Microbial diversity (Biannual) by the Association of Microbiologists of India (AMI) for the year 2016.

Member, Research Advisory Board of NIIT University, Neemrana, Rajasthan from Feb., 2016.

Member, Research Advisory Committee of National Institute of Biotic Stress Management (NIMBSM), Raipur from May 26, 2015-2018.

Member, IMTECH-JNU Academic Committee, from May, 2015- March 2017.

Prof. M.M. Chaturvedi:

External member, Board of Research Studies, North Eastern Hill University, Shillong, Meghalaya.

Member Board of Governors, Member of Managing Committee, GSFC Univ. Vadodara, Gujarat.

Member, CPCSEA, Min. of Environment & Climate Change, Govt. of India

Elected President, Indian Association of Teachers in Biological Sciences for the year 2016-onwards.

Prof. Neeta Sehgal, Expert, Consultation, CIFE, Mumbai.

Prof. Vinod Kumar:

President Elect, Indian Society for Chronobiology.

Leader and Principal Investigator, IndoUS Center for Biological Timing 2014-16,

Secretary, Indian Society for Chronobiology;

Member, Executive Committee, International Society of Avian Endocrinology.

Prof. D.K. Singh:

Chairperson, Recruitment and Promotion Committee, University of Delhi, Delhi,

Chairperson, Special Categories Admission Enabling committee (University of Delhi) for SC/ST/OBC and PH candidates to various undergraduate courses, 2016-17.

Prof. Rita Singh:

Adviser, Reproductive Biomedicine, Amity University, Noida, 2017 onwards.

Task-Force member, Indian Council of Medical research (ICMR), 2016 onwards

Invited member, 'Global Biotechnology Summit' on 5<sup>th</sup> & 6<sup>th</sup> February 2016, Organised by Department of Biotechnology, Ministry of Science and Technology, at Vigyan Bhawan, New Delhi.

Prof. R. R. Raman, Third Colman Lecture, 2016. (UAS, GKVK, Bangalore)

Prof. Mallikarjun Shakarad, Executive Board Member, Ethological Society of India.

### **Editor / Member, Editorial Board of Scientific Journals**

Editor:

Prof. Rup Lal, *mSystems*, published by American Society for Microbiology (ASM), USA; Indian Journal of Microbiology (INJM).

Prof. Y. Singh; *Indian Journal of Microbiology*, Springer Press.

Editorial Board Member:

Prof. Yogendra Singh, *Journal of Biological Chemistry* (JBC).

Prof. Rup Lal, *Journal of Bioscience & Bioengineering (JBB)*; *Environmental Microbiology (EM)*; *Environmental Microbiology Reports (EMIR)*; *Microbial Biotechnology Journal BMCBiotechnology*; *OA Biotechnology*.

Prof. M. M. Chaturvedi, *Journal of Oncolytic Virology*; *Indian J. of Experimental Biology (IJEB)*.

Prof. Vinod Kumar, *Current Science*.

Editorial Advisory Board member:

Prof. Y Singh, *Recent Patents on Anti-infective Drug Discovery*, (Bentham Science Publishers).

R.K.Seth, *Indian Journal of Entomology*; *J. Nuclear Agric. Biol.*

## Publications

### Research Articles:

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## Research Projects

National:

Prof. Rup Lal:

DBT, Feb. 2017 to Jan. 2020, *Exploring diversity, functional dynamics and biotechnological applications of bacterial communities inhabiting hot water spring atop the Himalayan ranges at Manikaran, Himachal Pradesh, India*. Rs. 52,20,000/-

DBT, Oct. 2015 to Sept. 2018, *Production of rifamycin analogues against multi-drug resistant (MDR) strains of Mycobacterium tuberculosis by the manipulation of rifamycin polyketide biosynthetic gene cluster of Amycolatopsis mediterranei S699 and understanding the changes in human microbiome under antibiotic treatment regimen in patients suffering from tuberculosis*. Rs. 64,00,000/-

DST, 2016-2019, *Characterization of Free Living Ciliated Protists as indicators of pollution and their impact on the micro-ecology of Yamuna River flowing through National Capital Region (NCR) of Delhi, India*. Prof. Rup Lal, Co-PI, Rs 55,76,000/-

DST-SERB, 2016-2019, *Mechanism of food-induced effects on reproduction and metabolism: A study on Zebra finches*. Prof. Vinod Kumar

National Food Security Mission (NFSM), Ministry of Agriculture, Govt. of India, 2013-2017, *Investigation on the Present Pigeonpea Pest Complex and Their Management with Emphasis on Radiation Technology as An Integral Component in IPM*. (Joint Project between Delhi University and University of Agricultural Sciences, Raichur), Prof. R.K.Seth, Rs.1,66,000/- (DU share).

International:

Prof. R. K. Seth, International Atomic Energy Agency (IAEA), Vienna, 2016-2021, 'Quality improvement of mass reared moths and assessment of competitiveness of radio-sterilized lepidopteran pest, *Spodoptera litura* and its F<sub>1</sub> progeny in field simulated cages for pest suppression through *Inherited Sterility Technique* under FAO/IAEA CRP (D41026) on *Improved Field Performance of Sterile Male Lepidoptera to Ensure Success in SIT Programmes* (IAEA Contract No. 20565/RB), €40,000/-

Prof. Rina Chakrabarty, Norwegian University of Science and Technology (NTNU), 2014-18, *Fish Farming Development in Nepal: Production of Extruder Made Plant-based Diets*. Rs. 56,00,000/-

Prof. Rup Lal, DST-DAAD, 2014-2016, *Assessing Natural and Stimulated Biodegradation of the Pesticide Hexachlorocyclohexane (HCH) at Contaminated Field Sites Using Compound- Specific Stable Isotope Analysis (CSIA)*. Rs. 9,80,000/-

Prof. D.K. Singh, International Atomic Energy Agency (IAEA)/FAO, 2011-2016, *Estimating traceability using nuclear and molecular techniques for foods and feeds in India*, €32000/-

## Seminar Organised

Prof. Anil Shanker, Associate Professor of Biochemistry and Cancer Biology, Meharry Medical College, Vanderbilt University, USA, *Cancer Immunotherapy: Challenges and Recent Advances*, at Dept. of Zoology, University of Delhi, Delhi, Feb. 17, 2017.

Prof. Ashok Kumar, Professor and Distinguished University Scholar. Department of Anatomical Sciences and Neurobiology, School of Medicine, University of Louisville. USA, *Regulation Of Muscle Stem Cell Homeostasis and Function*, at Dept. of Zoology, University of Delhi. Delhi, Feb. 10, 2017.

Prof. Bharat B. Aggarwal, Director, Inflammation Research Centre, San Diego, California, USA and Retired Professor of Experimental Therapeutics, Cancer Center, Houston, Texas, USA, *Models And Muddles Of Scientific Discoveries*, at Dept of Zoology, University of Delhi. Delhi, Feb. 6, 2017.

Prof. R. N. K. Bamezai, JNU, Delhi *Pursuing Science and Research - A passion different from other careers with innumerable challenges*, Oct. 28, 2016.

### **Conferences Organised**

Prof. Vinod Kumar, Indo-US Workshop and International Symposium on *Biological Timing and Health Issues in the 21<sup>st</sup> Century*. 21-24 Feb., 2017

### **Seminar / Conference Presentations**

Chaired Session in Conferences:

Rup Lal, *Daily and Seasonal Rhythms*, International Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century, at the Dept. of Zoology, University of Delhi, Feb. 21, 2017.

Rup Lal, *Microbial Ecology and Bioinformatics Analysis*, at the Institute of Soil Science, Chinese Academy of Sciences, Nanjing, China, July 14, 2016.

R. K. Seth, Chaired Technical Session, *New Developments and Tools for Area-Wide Pest management* in Third FAO-IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques, (IAEA-CN-248), Organised by Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, IAEA, Vienna, Austria, 22-26 May, 2017.

Vinod Kumar, International Symposium on Biological Timing and Health Issues in the 21st Century, Dept. of Zoology, University of Delhi, Feb. 21, 2017.

Vinod Kumar, Asia Chronobiology Forum, Hohhot, China, June, 2017.

Vinod Kumar, International Conference on Chronobiology, China, 2016

Negi, R. K., National Conference on *Evolving new horizons of Zoological sciences in human welfare*, Golden jubilee celebrations, Organised by Dept. of Zoology, Kurukshetra University, Kurukshetra, 23- 24 Nov., 2016.

Invited Lectures:

Rup Lal, Guest Lecture, *Combating antibiotic resistance against Tuberculosis* ASM-CME on Antibiotic Resistance: Renewed Fears, Multipurpose Hall, India International Centre, New Delhi, April 16, 2017.

Rup Lal, Invited Talk, *Insights into microbial interactions using metagenomics: Discerning Ally and Foe*, International Conference on Microbial Biotechnology (Microcon 2017: The Science Spring), Punjab University, Chandigarh, Feb.17, 2017.

Rup Lal, Keynote Speaker *New twist in study of plant and animal biology in the light of metagenomics: vision for future*, International Conference and Outreach program on Environment and Ecology; Sustainability and Challenges (ENCON-2017), Conference Centre, University of Delhi, organised by SV College, University of Delhi, Jan. 4, 2017.

Rup Lal, *Genomics to metagenomics* Workshop on Microbial Genomics and Metagenomics held under the aegis of IUMS-INSA (International Union of Microbiological Societies-Indian National Science Academy) and AMI Delhi Unit, University of Delhi and INSCR (Indian Network for Soil Contamination Research), at Department of Zoology, University of Delhi, Sept. 22, 2016.

Rup Lal, Keynote Speaker, *Community wide insights into stressed niches using metagenomic approach*, BISMIS (Bergey's International Society for Microbial Systematics) 2016 at MCC, Pune, Sept. 13, 2016.

Rup Lal, *Extreme Environments Spearheading Metagenomics*, Institute of Soil Science, Chinese Academy of Sciences, Nanjing, China, July 13, 2016.

Rita Singh, *Role of FSH in Metabolic Disturbances in Polycystic Ovary Syndrome: a partial defect in FSHR (GPCR) activation in PCOS granulosa cells*, 41st European Symposium on Hormones and Cell Regulation: GPCR dynamics for fine tuning of physiological processes, Monte Ste Odile, Alsace, France, 5-8 Oct., 2016.

Rita Singh, *Role of FSH in Metabolic Disturbances in Polycystic Ovary Syndrome*, International Congress on Reproductive Biomedicine, Royan institute, Tehran, Iran, Aug 31-Sept. 2, 2016.

Rita Singh, *Molecular Defects in Polycystic Ovary Syndrome (PCOS) and Prediction of Infertility in PCOS Patients*, International Congress on Reproductive Biomedicine, Royal Institute, Tehran, Iran, Aug 31-Sept. 2, 2016.

Shrivastava, Anju., *Phytochemicals re-establish antitumor immunity by resetting the cross-talk between cancerous and immune cells* at INCD-2016, Cochin, Kerala from 9-11 Sept., 2016.

A. C. Bharti, *Role of Viral Oncoproteins in Maintenance of Cervical Cancer Stem Cells and Chemoresistance*, International Conference on Advancements in Disease Genetics, Structural & Systems Biology at Ashoka-Institute of Technology & Management, Varanasi, Jan. 22, 2017.

A. C. Bharti, *Targeting Human Papillomavirus Infection and Cervical Cancer by Herbal Derivatives*, First International Conference on Nutraceuticals and Chronic Diseases Organised by Indian Institute of Technology Guwahati at Cochin. Sept. 9, 2016.

Rina Chakrabarty, *Digestive Enzymes in Fishes*, Institute of Aquaculture, University of Stirling, Scotland, under the Bilateral Exchange Programme of Indian National Science Academy (INSA), India and Royal Society of Edinburgh (RSE), UK, June 21-July 4, 2016.

A. C. Bharti, *Maintenance of Cervical Cancer Stem Cells and Chemoresistance: Viral Oncoproteins as Potential Therapeutic Targets*, Conference on Recent Advances in Regenerative Medicine, Centre for Stem Cell Tissue Engineering & Biomedical Excellence, Panjab University, Chandigarh. March 31, 2017.

A. C. Bharti, *Methods of HPV Testing- Practical Aspects*, 12th Annual Conference of ISCCP, at Maulana Azad Medical College, New Delhi, March 3, 2017.

A. C. Bharti, *Cervical Cancer - a Preventable Cancer but Not Yet Prevented: Avenues for Surgical Strike*, National Conference on Recent Trends and Advances In Biotechnology at Institute of Management Studies, Ghaziabad. Nov. 26, 2016.

A. C. Bharti, *Epidemiology of HPV Types Amongst General Population And Genital Cancer*, AOGIN-India Annual Conference, at Hotel Ashoka Patliputra, Oct. 15, 2016.

A. C. Bharti, *Oral HPV Infections: Are They Different from Genital Infections*, Workshop on Cervical Cytology and its Integration with HPV Detection during AOGIN-India Annual Conference, at Hotel Ashoka Patliputra, Oct. 14, 2016.

A. C. Bharti, *HPV Viral Oncoproteins: Role beyond Cervical Cancer Initiation and Progression*, 35th Annual Convention of Indian Association for Cancer Research (IACR 2015), Delhi, April 10, 2016.

Rita Singh, *Environmental Pollutants and Health Hazards*, Speaker and Organiser, National Symposium & Awareness Programme on Lifestyle and Reproductive Health Challenges, Daulat Ram College, Delhi University, Delhi, March 29, 2017.

Rita Singh, *Polycystic Ovary Syndrome (PCOS): Is it a genetic or environmental disorder?* National Symposium of communicable and non-communicable disorders, Punjab University, Chandigarh, Feb. 21, 2017.

Rita Singh, *Environment, Lifestyle and Reproductive Health Challenges in Young Women*, International Conference on Reproductive Health with Emphasis on strategies for infertility, assisted reproduction and Family Planning, AIIMS, New Delhi, 23-25 Jan., 2017.

Rita Singh, *Endocrine Disruptors, PCOS and Reproductive Health: Hazards of Plastics*, Chairperson, National Seminar on Reproductive Health Awareness for Senior School students of Birla Balika Vidyapeeth, BITS Campus, Pilani, Rajasthan, 10-11 Sept., 2016

M. M. Chaturvedi, Keynote/Plenary Lecture, *Prospects in Life Sciences: Paradigm Shift in Teaching and Research in Zoological Sciences* Second Chhattisgarh Congress of the Zoological Society of Chhattisgarh (ZSC), 2-3 March, 2016.

M. M. Chaturvedi, Invited Lecture, *Metabolic Reprogramming and Chromatin as a Regulator of Gene Expression*, Conference on Emerging Horizons in Functional Biology, NEHU, Shillong, March 24, 2017.



- R. K. Seth, *Insect Science and its Relevance to Environment & Mankind*, BHU Centenary Celebrations, Dept. of Entomology & Agric. Zoology, Institute of Agricultural Sciences, BHU, Varanasi, March 25, 2017.
- R. K. Seth, *Potential Role of Nuclear Technology in Effective Insect Pest Management*, BHU Centenary Celebrations, Dept. of Entomology & Agric. Zoology, Institute of Agricultural Sciences, BHU, Varanasi, March 25, 2017.
- R. K. Seth, Invited Lecture, *Insect Reproduction : A model for Evolutionary Study and a Target for Pest Management Strategy*. In DST-SERB School in Insect Biology, Punjabi University, Patiala, 1-15 Oct., 2016.
- R. K. Seth, Invited Lecture, *Nuclear Energy as an Important Component in Integrated & Coordinated Pest Management*, DST-SERB, School in Insect Biology, Punjabi University, Patiala, 1-15 Oct., 2016.
- R. K. Seth, Invited Lecture, *Practical Exercises related to Insect Reproduction & Using Radiation in Entomological Application: Nuclear Energy in Ecologically Sound Pest Suppression*. DST-SERB, School in Insect Biology, Punjabi University, Patiala, 1-15 Oct., 2016.
- Rup Lal, *Recognizing and Evading Publishing in Predatory Journals: Our Experience*, National Seminar, Identifying and Avoiding Publishing in Predatory Journals: A lesson of Researchers, Dept. of Botany, University of Delhi, March 18, 2017.
- Rup Lal, Guest Lecture, *Pursuit of Bacterial Taxonomy, Genomics and Metagenomics*, Faculty of Life Sciences and Biotechnology at South Asian University, Delhi, March 3, 2017.
- Rup Lal, Plenary Lecture, *New Horizons in Microbial Interactions through Metagenomics Revolutions* National Symposium on Issues and Challenges in Ecological Sciences (ICES-2017), at Dept. of Botany, Institute of Science, BHU, Varanasi, Feb. 23, 2017.
- Rup Lal, Lecture, *Insights into microbial interactions using metagenomics: Discerning Ally and Foe*, Dept. of Microbiology, Guru Nanak Dev University, Amritsar, Feb. 20, 2017.
- Rup Lal, Lecture, *Microbiology: Then and Now*, Deen Dayal Upadhyaya College, University of Delhi, Delhi, Feb. 15, 2017.
- Rup Lal, Guest Speaker, *Scientific Innovations that changed the world and India: Then and Now*, NASI-BHU Teacher's Training workshop, BHU, Varanasi, Feb. 10, 2017.
- Rup Lal, Talk, *Unlimited world of microbes with limitless applications*, Gargi College, Feb. 8, 2017.
- Rup Lal, Talk, *Scientific Innovations that Changed the World and INDIA: Then (Before 1990) and Now*, DST, Govt. of Jammu & Kashmir sponsored programme, Jammu University, J & K, Jan. 20, 2017.
- Rup Lal, Talk, *Scientific Innovations that Changed the World and INDIA: Then (Before 1990) and Now*, DST sponsored 7<sup>th</sup> INSPIRE Programme, Asian Educational Institute, Patiala, Jan. 10, 2017.
- Rup Lal, *India now and then*, Bani School Innovation Camp (BaSIC)-2016 (Dream School) held under University of Delhi, INSA Outreach Programme and DBT Star College Project, Ramjas College at Government Senior Secondary School, Bani, Hamirpur, H.P., 23-24 Dec., 2016.
- Rup Lal, *Biotechnology: From genes to genomics and metagenomics* session CADD: Computer aided drug designing, NIT and N.S.C.B.M. Government College, Hamirpur, H.P., Dec. 12, 2016.
- Rup Lal, Keynote Speaker, *Microbial genomics to metagenomics: A paradigm shift* at the 57<sup>th</sup> AMI (Association of Microbiologists of India) Annual Conference-2016, Gauhati University, Guwahati, Assam, Nov. 26, 2016.
- Rup Lal, *Development of 24-desmethylrifamycin B – a novel analog of Rifamycin B effective against Multi-Drug Resistant Mycobacterium tuberculosis*, ASM-AMI joint session in the 57<sup>th</sup> AMI (Association of Microbiologists of India) Annual Conference-2016, Gauhati University, Guwahati, Assam, Nov. 25, 2016.
- Rup Lal, *The Microbiome Revolution: Vision for Future*, National Conference on Evolving New Horizons of Zoological Sciences in Human welfare, Kurukshetra University, Kurukshetra, Nov. 23, 2016.
- Rup Lal, *Biotechnology: From Genes to Genomics and metagenomics* Himachal Pradesh University, Shimla, Nov. 14, 2016.
- Rup Lal, *Taxo-genomics: Moving beyond polyphasic approach*, International Symposium on Microbial Resource Center and Conservation of Microbial Diversity, MTCC, CSIR-IMTECH, Chandigarh, Nov. 8, 2016.

Rup Lal, *Extreme Environments: A Suitable Target to Genomics and Metagenomics*, Vellore Institute of Technology (VIT), Vellore, Oct. 17, 2016.

Rup Lal, *Biotechnology: Realization of the Dream of Geneticists, Applications, Opportunities and Misconceptions*, National Symposium on Nanobiotechnology and Microbial Technology, Chandigarh College of Technology, Mohali, Punjab & Association of Microbiologists of India, Chandigarh Unit, Aug. 23, 2016.

Anju Shrivastava, *Phytochemicals and cancer prevention: Involvement of NF- $\kappa$ B Signalling, Epigenetics, and Cell Death Mechanisms*, Dept. of Biotechnology, Panjab University, Chandigarh, March 9, 2017.

Anju Shrivastava, *Re-establish antitumor immunity by resetting the cross-talk between cancerous and immune cells: a potential therapeutic strategy*, at Symposium on Gene-Environment interaction in Disease, Development and Evolution, Dept. of Zoology, BHU, Varanasi, 5-6 March, 2017.

Anju Shrivastava, *Resetting immune system to beat disorders at CPDHE*, Jawaharlal Nehru University, Delhi, Oct. 10, 2016.

D. K. Singh, *Combating Industrial Pollution for Sustainable Environment – A Fusion of industrial and Scientific Efforts* on National Conference at Gargi College, University of Delhi, Delhi, Sept. 22, 2016.

D. K. Singh, *Environment & Harmonious Development* (NCC 2016), UGC-sponsored National Conference in Chemistry, Dept. of Chemistry, Shyam Lal College, University of Delhi, 7-8 April, 2016.

### **Paper / Poster presentation**

International:

Chauhan N., Agrawal N. & Shakarad M. *Higher expression of key developmental genes in Drosophila melanogaster with accelerated development*. 18<sup>th</sup> International Congress of Developmental Biology. ISBD Singapore 2017. 18-22 June, 2017.

Seth, R.K., Khan, Z., Rao, D.K. Zarin, M. & Seth, R. *Sperm behavior as a key tool ensuring operative efficiency of radio-genetic 'F<sub>1</sub> Sterility technique' for population suppression of an economically serious Indian pest, Spodoptera litura (Fabr.) (Lepidoptera: Noctuidae) in lab and field simulated cages*. Third FAO-IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques, (IAEA-CN-248), Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, IAEA, Vienna, Austria, 22-26 May, 2017.

Seth, R.K., Patil, B.V., Haveri, R. V., Hanchinal, S.G., Zarin, M., Khan, Z. & Seth, R. *Establishing a generic radiation dose as post harvest phyto-sanitary treatment against bruchid species (Coleoptera: Chrysomelidae) infesting legumes*. Third FAO-IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques, (IAEA-CN-248), Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, IAEA, Vienna, Austria, 22-26 May, 2017.

Patil, B.V., Hanchinal, S.G., Khan, Z., Zarin, M., Haveri, R. V., Chandrashekhar, Yelshetty, S. & Seth, R. K. *Ascertaining the efficacy of gamma radiation on the flower webber, Maruca vitrata (Fabr.) (Lepidoptera: Crambidae) to establish Inherited Sterility technique for the management of this pigeonpea pest in India*. Third FAO-IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques, (IAEA-CN-248), Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, IAEA, Vienna, Austria, 22-26 May, 2017.

Haveri, R. V., Hanchinal, S.G., Chandrashekhar, Zarin, M., Khan, Z., Patil, B.V., Yelshetty, S. & Seth, R. K. *Optimization of semi-synthetic diet for quality mass rearing of the legume pod borer, Maruca vitrata (Fabr.) (Lepidoptera: Crambidae) towards employment of 'Inherited Sterility' technique for the pest suppression*. Third FAO-IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques, (IAEA-CN-248), Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, IAEA, Vienna, Austria, 22-26 May, 2017.

Bakshi, A and Rai, U. International Conference on Reproductive Biology and Comparative Endocrinology and 35<sup>th</sup> Annual Meeting of The Society for Reproductive Biology and Comparative Endocrinology, University of Hyderabad, pp. 29

Lakra, P., Aditi, K. and Agrawal, N. *Detrimental effects of mutant huntingtin beyond neurons: Alteration of metabolic activity in Drosophila*. 58<sup>th</sup> Annual Drosophila Research Conference, San Diego, CA, USA, March 2017.

Chatterjee, M. and Agrawal, N. *Phosphorylation of serine residues of mutant huntingtin contributes to metabolic function in Huntington's disease in Drosophila*. 58th Annual *Drosophila* Research Conference, San Diego, CA, USA, March 2017..

Singh, K. Seth, R.K. and Kumar,V. *Expression pattern of clock genes in the testes of a noctuid tropical pest, Spodoptera litura (Fabricius) (Lepidoptera: Noctuidae)*. International Symposium on Biological Timing and Health Issues in 21<sup>st</sup> Century, University of Delhi, 21-24 Feb., 2017.

V. Kumar, *Expression of Heat Shock protein in liver under the influence of Estradiol-17 $\beta$  in fish*. Poster presented, IndoUS Workshop & International Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century, University of Delhi, Delhi, 21-24 Feb., 2017.

Neeta Sehgal, *Characterization of Lipovitellin from Vitellogenic Oocytes of freshwater fish*. Poster presented, Indo US Workshop & International Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century, University of Delhi, Delhi, 21-24 Feb., 2017.

Chatterjee, M. and Agrawal, N. *Phosphorylation of serine residues of mutant huntingtin ameliorates HD pathogenesis*. IndoUS Workshop and International Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century, Delhi, 21-24 Feb., 2017.

Lakra, P., Aditi, K. and Agrawal, N. *Emerging role of mutant huntingtin in metabolic activity in Drosophila*. IndoUS Workshop and International Symposium on Biological Timing and Health issues in the 21<sup>st</sup> Century, Delhi, 21-24 Feb., 2017.

Rani Kumari, Kavita Rawat and Anju Shrivastava. *Melatonin ameliorates tumor-induced angiogenesis*, International Workshop and Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century, Dept. of Zoology, University of Delhi, 21-24 Feb., 2017.

Zoha Ahmed, Anupma Kumari, Saima Syeda, Anand Swaroop Shukla and Anju Shrivastava. *Melatonin: A Potent Immuno-modulator Of Tumor Associated Macrophages*, International Workshop and Symposium on Biological Timing and Health Issues in the 21<sup>st</sup> Century, Dept. of Zoology, DU, 21-24 Feb., 2017.

Negi, V., Mahato, N.K. and Lal, R. *Metagenomic analysis of pond sediment to comprehend complex microbial interactions*. 3<sup>rd</sup> Thunen Symposium on soil metagenomics held at the Johann Heinrich Von Thunen-Institut, Braunschweig, Germany, 14-16 Dec., 2016.

Seth, R.K., Khan, Z., Rao, D.K. and Zarin, M.,. *Sperm activity and mating competence as crucial attributes of irradiated males and their F1 progeny in 'Inherited Sterility' tactic for suppression of a tropical pest, Spodoptera litura (F.) (Lepidoptera: Noctuidae)*. XXV International Congress of Entomology (ICE 2016), Orlando, Florida, USA, 25-30 Sept., 2016

Khan, Z. and Seth, R.K. *Effect of sub-sterilizing ionizing radiation on oxidative stress and DNA damage in irradiated tropical pest, Spodoptera litura (Fabr.) and its F<sub>1</sub> progeny*. XXV International Congress of Entomology (ICE 2016), Orlando, Florida, USA, 25-30 Sept., 2016

Zarin, M. Seth, R. and Seth, R.K., *Bio-efficacy of phytosanitary irradiation against the various ontogenic stages of the Solenopsis mealybug, Phenacoccus solenopsis (Homoptera: Pseudococcidae)*. XXV International Congress of Entomology (ICE 2016), Orlando, Florida, USA, 25-30 Sept., 2016

Kavita Rawat, Rani Kumari and Anju Shrivastava. *Effect of Tinospora cordifolia on Neutrophils Infiltration in Major Organs of Tumor Bearing Mice : an Immunomodulatory and Anti-Tumor Role*, INCD-2016 Cochin, Kerala from 9-11 Sept., 2016.

Rani Kumari, Kavita Rawat, and Anju Shrivastava. *Effect of Tinospora cardifolia on Dalton's lymphoma –induced Angiogenesis: an in vivo study*, INCD-2016 Cochin, Kerala, 9-11Sept., 2016. (Adjudged best poster presentation)

Basak, R., Roy, A. and Rai, U., 8th Congress of AOSCE-From comparative to translational research, Korea University, College of Medicine, Seoul, Korea, pp. 57, 2016.

Sarkar, H., Rai, U. and Majumdar, SS. Gordon Research Conference on Meiosis, New London, NH, USA, pp.28, 2016.

National:

Bajaj, A., Puri, A., Verma, H., Singh, Y. and Lal, R. *Exploring Chemically contaminated sites for microbial applications: Isolation, characterization and biochemical assessment of bacterial pigments and genome based*

*analysis of its bio-synthetic pathway*. Oral Presentation, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Kumar, R., Nagar, S., Puri, A., Bajaj, A., Gupta, V., Mahato, N.K., Sood, U., Negi, R.K., Shakarad, M.K., Singh, Y. and Lal, R. *Comparative Genomic Analysis of genus Parapedobacter: Insights into the genetic attributes and genomic characteristic traits*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Nayyar, N., Kohli, P., Mahato, N.K. and Lal, R. *A novel bacterial strain (PB3T), belonging to the genus Pontibacter, isolated from a pond sediment contaminated with Hexachlorocyclohexane (HCH)*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Negi, V. and Lal, R. *Metagenomic analysis of pond sediment to comprehend complex microbial interactions*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Gupta, V., Haider, S., Sood, U., Gilbert, A.J., Ramjee, M., Forbes, K., Singh, Y., Lopes, S.B. and Lal, R. *Comparative genomic analysis of sheep gut Acinetobacter symbionts: using system biology and comparative genomics approach*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Singh, P., Kumari, R. and Lal, R. *Genetic Manipulation of the acyl transferase domain of Rifamycin Polyketide Synthase gene cluster for producing rifamycin B analog in Amycolatopsis mediterranei S699*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Mahato, N.K., Sharma, A., Singh, Y. and Lal, R. *Comparative metagenomic analyses of an Indian Hot Water Spring Showed Temperature Driven Community and Functional Dynamics*. Poster 2016 presented in the 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI) held at Gauhati University, Guwahati, 24-27 Nov., 2016.

Kumari, R., Singh, P., Talwar, C., Negi, R.K. & Lal, R. *Comparative Genomic Analysis of genus Tessaracoccus: Revealing their niche specific adaptations*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Tripathi, C., Mahato, N.K., Rani, P., Singh, Y., Kamra, K. and Lal, R. *Whole genome analysis of Lampropedia cohaerens., a biofilm forming bacterium isolated from hot spring microbial mats at Manikaran, India*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Rani, P., Kamra, K., and Lal, R. *Genome Mining and Functional Profiling of a Rhizobacterium : Pseudomonas fluorescens Pt14*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Hira, P., Rao, D. L. N., Lal, R. and Shakarad, M. *Comparative genomic study of Pseudomonas fluorescens : Insights into their heterogeneity and colonization strategies*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Sood, U., Rao, D.L.N., Lal, R. and Shakarad M. *Comparative genomic analysis of outlier strains of Pseudomonas aeruginosa: Evidence of incorporation of Type Vc secretion system*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Puri, A., Bajaj, A., Verma, H., Singh, Y. and Lal, R. *Taxo-genomic characterization of carotenoid producing bacterium Paracoccus sp. novel strain AK26*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Khurana, H., Talwar, C., Nagar, S., Lal, R., Singh, Y. and Negi, R.K. *Exploring the gut microbial diversity of an endangered fish species Tor putitora (Ham.) across the Himalayan ranges through culture-dependent and culture-independent approach*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Mishra, H., Tripathi, C. and Lal, R. *Comparative genomics as a tool for deciphering environment driven evolution in bacteria*. Poster presented, 57<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI), Gauhati University, Guwahati, 24-27 Nov., 2016.

Kavita Rawat, Rani Kumari, and Anju Shrivastava. *Effect of Tinospora cardifolia on progression of Dalton's lymphomain Balb/c mice : a biochemical, hematological and histological study*, National Conference on Biotechnological Perspectives in Healthcare, July 16, 2016.

Rani Kumari, Kavita Rawat, and Anju Shrivastava. *Effect of Tinospora cardifolia on DL-nduced angiogenesis in mouse mesentry: A good in vivo model to study tumor-induced angiogenesis*, National Conference on Biotechnological Perspectives in Healthcare, July 16, 2016 (*Adjudged best poster presentation*)

Anand Swaroop Shukla, Zoha Ahmed and Anju Shrivastava. *High Hydrogen sulphide levels in Dalton's lymphoma: Role of tumor-associated macrophages*, National Conference on Biotechnological Perspectives in Healthcare, July 16, 2016.

### **Inter-Institutional Collaboration**

Prof. Rina Chakrabarty:

Norwegian University of Science and Technology (NTNU)-(2014-18), Fish Farming Development in Nepal: Production of Extruder Made Plant-based Diets. Rs. 56 Lakh, ().

DBT (2014-2017), Development of Pelleted Diet for *Catla catla* and *Clarias batrachus* Using *Achyranthes aspera* and Evaluation of Its Immunostimulatory Properties in Pond Culture System, (Joint project Delhi Technological University, Delhi, Central Institute of Fisheries Education, Rohtak, Haryana and University of Delhi) Rs. 80 Lakh DU share

Prof. Rup Lal, DST-DAAD, (2014-2016), *Assessing Natural and Stimulated Biodegradation of the Pesticide Hexachlorocyclohexane (HCH) at Contaminated Field Sites Using Compound- Specific Stable Isotope Analysis (CSIA)*. Rs. 9,80,000/-

Prof. Vinod Kumar, DBT, (2013-2018), *Anticipation in genes: Molecular, physiological and behavioral correlates of response of circa-annual clocks to seasons in night-migratory song*, University of Lucknow, C.C.S. University, Meerut, NEHU, Shillong, NISER, Bhubaneswar, St. Aloysius College, Mangalore. Rs. 1,59,00,000/-

Prof. R.K. Seth, National Food Security Mission (NFSM), Ministry of Agriculture, Govt. of India, (2013-2017), Investigation on the *Present Pigeonpea Pest Complex and Their Management with Emphasis on Radiation Technology as An Integral Component in IPM* . Joint Project between Delhi University and University of Agricultural Sciences, Raichur, Rs.1,66,000/- (DU share).

Prof. D. K. Singh:

NFBSFARA (ICAR) (2013-2017), *Bioremediation of contaminants in polluted sites: use of weedy plants*. Delhi University, Delhi (Cooperating Centre), DWSR Jabalpur (Lead Centre), Water Technology Centre, IARI (Cooperating Centre).Rs. 48,29,000/- (DU share).

DBT research project, (2013-16), *Biodegradation of chlorinated organics by extremophiles: Developing biocatalyst for effective remediation*. IIT Delhi and University of Delhi, Delhi.

NFBSFARA -ICAR (2012-2016) *Bioremediation of agrochemicals and heavy metals present in Yamuna and drainage water used for irrigation in urban and peri-urban agricultural areas*. Delhi University, Delhi, (Lead Centre), IIT, Delhi (Cooperating Centre) and IARI, Delhi (Cooperating Centre), Rs. 94,22,000/- (DU share)

International Atomic Energy Agency (IAEA)/FAO (2011-2016), *Estimating traceability using nuclear and molecular techniques for foods and feeds in India*, Collaborators: Institutes/Universities of USA, UK, Austria, India, China, Morocco, Chile, Portugal, Singapore, Thailand, Botswana, Lebanon, Uganda. €32000/-

### **Extension and Outreach Activities**

Prof. Rup Lal:

Organised National Workshop, *Microbial Genomics and Metagenomics* at Dept. of Zoology, University of Delhi, under the aegis of IUMS-INSA (International Union of Microbiological Societies-Indian National Science Academy), AMI Delhi Unit, University of Delhi and INSCR (Indian Network for Soil Contamination Research), Sept. 22, 2016.

Organised *Bani School Innovation Camp (BaSIC)-2016* (Dream School) at Government Senior Secondary School (GSSS), Bani, Hamirpur (H.P.) under the aegis of University of Delhi, INSA Outreach Programme and DBT Star College Project, Ramjas College, 23-24 Dec., 2016.

Prof. Rita Singh:

Gynaecologist-Student interaction Workshop on *PCOS/PCOD management at young age*, Auditorium, Dept. of Zoology, Delhi University, Aug. 12, 2016.

*Reproductive Health Awareness for Senior School students* of Birla Balika Vidyapeeth, Pilani, 10-11 Sept., 2016.

*Reproductive Health Awareness for University students* in Four Girls' Hostels in the University Campus, by post graduate students specializing in Molecular Endocrinology and Reproduction, Jan-March 2016.

#### **M.Phil. / Ph.D. Awarded**

M.Phil. – 10

Ph.D. – 20

#### **Faculty Strength**

Permanent – 18

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## **FACULTY OF SOCIAL SCIENCES**

### **ADULT, CONTINUING EDUCATION AND EXTENSION**

#### **Major Activities and Achievements**

The Department is part of the Faculty of Social Sciences since 1985. It has its beginning in 1978 as a Cell. The Department offers M.A. in Lifelong Learning & Extension, M. Phil Programme and Ph.D. The Department entered into an agreement with the University of Wurzburg, Germany for faculty and students exchange programme. Under this agreement the first batch of 6 students, second batch of 11 students and 10 students with a faculty attended on each occasion in 2015, 2016 and Feb. 2017. The Students of Wurzburg University also visited Department of Adult Continuing Education & Extension University of Delhi in Oct., 2016. One of the research scholars of the partner university stayed at University of Delhi for two months for her research work and was provided academic assistance in her field work. The exchange programme is likely to continue for three years. Department has developed a unique programme of short-term courses for students and community people to pursue their personal interest promotion and skill training. Some of the popular courses are Speed Reading with Compression, Travel & Tourism, Counseling and Guidance, and Science and Sports and Journalism and Radio Community.

#### **Honours / Distinctions**

Prof. J. P. Dubey, awarded Best Educationist, by Newspaper Association of India.

Prof. J. P. Dubey appointed Chairman, Standing Committee, Academic Council, University of Delhi.

Prof. V.K. Dixit visited University of Wurzburg, 2016.

Ten students of M.A., M.Phil. and Ph.D. participated in the Winter Workshop of University of Wurzburg from 6 to 17 Feb., 2017.

## **Publications**

- Dubey, J.P. (2017). Professional competence in higher education: Advocacy for lifelong learning . In SS Rawat (Ed.), *Higher Education Quality Management & Social Responsibility* (pp. 1-13). Agra: Rakhi Publication.
- Dixit, V.K. (2016). A study of prospect and effectiveness of alternative education system. *Indian Journal of Lifelong Learning and Educational Guidance*, 3 (1), 125-133.
- Dixit, V. K. (2016). Spreading out of technical education in valley of Kashmir: A case study of Industrial Training Institute in south Kashmir. *International Journal of Advanced Research and Development*, 4, 43-45.
- Kumar, A., & Dixit, V. K. (2016). Identification of problems and challenges of secondary school counsellors. *Indian Journal of Adult Education*, 77, 47-58.
- Rajesh. & Sushma. (2016). Life skills assessment inventory. *International Journal of Education and Humanities*, APH Publishing Corporation, 5(1), 5-9.
- Rajesh. (2016). Innovations and opportunities to the marginalized groups in India: Sharing experiences of the community learning centre. *Indian Journal of Life Long Learning and Educational Guidance*, 3(1), 1-12.
- Rajni, and Sisodia, V. (2016). Role of education and extension in the promotion of health and well-being. In Conference Proceedings, Vol. 1, *International Conference on Public Health Issues, Challenges, Opportunities, Prevention, Awareness*, Daulat Ram College, University of Delhi, 15 Jan., 2016.
- Sisodia, V. (2016). Study on cycle rickshawpullers in north campus area of University of Delhi. *International Journal of Multidiscipline Educational Research*, 5 (6), 139-154.
- Yadav, R. (2016). Book Review, Globalization, lifelong learning and the learning society, sociological perspectives, Vol. 2, Peter Jarvis, *International Journal of Multidisciplinary Educational Research*, 5(11) (2), 192-194.

## **Research Projects**

*Adult and Life Long Education: India and German Insights*, UGC (Indo-German Partnership in Higher Education at German Academic Exchange Service (DAAD) and University Grants Commission (UGC), P.I. Prof. J.P. Dubey, Rs. 88,00,000/-.

## **Seminars Organised**

Two Day National Seminar was Organised on *Education Policy Strategies and Adult Education: A Comparative Analysis of Europe and India* on 21-22 Oct., 2016.

## **Seminar / Conference Presentation**

J.P. Dubey:

Key Note Address on *Rural Development & Extension* in Jammu University on 22 Feb., 2017.

Lecture at Police Training Institute Phillore Punjab in Punjab Police Academy on 22 July, 2016.

Lecture on *Career Counseling and Life Skills Building* in Kalindi College, Delhi University on 28 Feb., 2017.

Lecture on *Pedagogy verses Andragogy* in Haryana Women's University Academic Staff College on 24 Nov., 2016.

Presented paper on *Inclusive Education in Africa* in National Seminar Organised by Department of African Studies, Delhi University.

## **National / International MoUs**

Indo German Project MoU with JM University, Wurzburg, Germany.

## **Other Inter-Institutional Collaboration**

IAEA and Government and NGO's.

### **Students under Exchange Programme**

JM University, Wurzburg, Germany.

### **Extension and Outreach Activities**

The importance of building up an understanding with respect to the 'context of content' is reflected in the field work practicum of the Department of Adult Continuing Education & Extension. Paying attention to its extension activities the Department believes in working in close relationship with the community and the organizations working in these communities. Over the past many years the Department has built up the understanding of mutual concerns with NGOs and civil society organizations to facilitate its students. Practical experience along with academic knowledge is well reflected in its intervention programmes. Students visit civil society organizations for internship and concurrent field work programme.

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 2

### **Faculty Strength**

Permanent – 6

### **Other Significant Information**

New short-term courses have been developed – Radio Broadcasting, Speed Reading with comprehension as skill training programme for both University and Non-university groups, and English Language Proficiency Course (ELPC).

Prof. J. P. Dubey participated in the National Seminar on *Literate India* Organised by MHRD, Govt. of India on 28 June, 2016.

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## **AFRICAN STUDIES**

### **Major Activities and Achievements**

The Department of African Studies, University of Delhi was founded on 6 Aug., 1955 and celebrated its fifty years of establishment in 2005. The Department is actively engaged in teaching and training the scholars to do research. The M.Phil. and Ph.D. scholars are trained to do research on the relevant issues and topics on Africa and produce quality research papers. Besides, the Department also teaches Swahili, one of the major African languages spoken in Eastern Africa. In 2005, UGC established the Centre for African Studies within the Department. With the grants provided by the UGC, the Department has been able to carry out its academic activities such as seminars, conferences and special lectures, apart from procuring books and journals for the Department Library. Besides, the grant enabled faculty members to visit Africa and acquire first hand field experience. Part of the grant was allocated to Ph.D. scholars to enable their visit to Africa to collect data for research. The Department takes up projects from time to time like the Hashim Mbita Project, that is sponsored by the Southern Africa Development Community (SADC) to work on India, NAM and its role in the liberation of Southern Africa. The Department conducts in-depth study and research on select issues in the various study groups it has set up such as study groups on India Africa Relations, study group on South Africa, Human Rights, Refugees and Sudan Study Units.



## Publications

Faisal, A. and Kumar, S. (2016). *India and WANA: Economic and Geopolitical Engagements*. Delhi: New Century Publications.

Halilu, B. and Kumar, S. (2017). *Small Arms Proliferation and Conflict in West Africa*. USA: Lambart International Publications.

Dash, S. (2017). *Regional Resurgence in Africa: Prospects and Challenges of African Union*. New Delhi: Vij Books.

Kumar, S. (2017). GST as a game changer. In Anjali Agarwal (Ed.), *Goods and Services Tax (GST) Impact on Indian Economy* (pp. 174-177). Delhi: New Century Publications.

Singh, G. (2016). Impact on the colonial politics on BRICS development. *JESSR*, 5.

Singh, G. (2017). Hindi *aur* Swahili *lok kathaen*. *Global Thought*.

## Research Projects

*Development of Yoga Connection in India and Africa*, R & D, Delhi University, PI, Prof. Suresh Kumar

*Ancestral Roots of Modern Man: Digging of South Africa*, R & D, Delhi University, PI, Dr. Gajendra Singh.

*Climate Change and its Impact on Fisheries: A Comparative Study of Kenya and Kerala*, R & D, Delhi University, PI, Dr. Rashmi Kapoor.

## M.Phil. / Ph. D. Awarded

M.Phil – 9

## Faculty Strength

Permanent – 7

## Other Significant Information

Dr. Vidhan Pathak, edited 2 volumes (4 issues) of *Indian Journal of African Studies*, Journal of the Department of African Studies, University of Delhi, Delhi.

Dr. Vidhan Pathak edited 5 volumes (8 issues) of *African Currents*, Journal of Centre for African Studies, University of Mumbai, Mumbai.

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## EAST ASIAN STUDIES

### Major Activities and Achievements

The Department offers post graduate courses in M.A. in East Asian Studies, M.A. in Japanese and Ph.D. in East Asian Studies. The Post-graduate courses in the Department focus on an inter-disciplinary approach to the study of the region. Language is a compulsory component of this program and students learn one of the three East Asian languages viz. Chinese, Japanese or Korean. This programme enables students to have comprehensive and integrated knowledge of the subject and the language concerned. It aims to create experts on East Asia who could work in Think tanks, NGOs, government agencies, International Organizations, Newspaper Agencies etc. Further, the Department offers two years of Post Graduate Diploma and Advance Diploma Courses in Chinese, Japanese and Korean languages. Students who complete these courses get absorbed in companies in and outside India. The highlight of this year has been the start of a Series of Talks by Ambassadors of East Asian Countries. Visiting Faculty to teach Japanese was sent from Japan to the department under the Japan Overseas Cooperation Volunteer

Program. Renowned speakers were invited for Memorial lectures, seminars and conferences. Many faculty members presented research papers in National and International Conferences. Meritorious students got scholarships to go to China, Taiwan, Japan and Korea for higher studies. A large number of students got placement through the Placement Cell of the Department.

### **Honours / Distinctions**

Sharma, Anita. Journalist Bimalendu Barua Peace Award 2016 by Nirvana Peace Foundation, Chittagong Bangladesh, July 16, 2016.

Sharma, Anita. Award for achievements in the field of Peace by International Womens' Club, Sydney, Australia, March 30, 2017.

### **Publications**

Bhattacharya, A. (2016). Conceptualizing the Silk Road initiative in China's periphery policy. *East Asia: An International Quarterly*, 33(4), 309-328.

Bhattacharya, A. (2016). *Conceptualizing the Silk Route Initiative in Chinese Foreign Policy*. New Delhi: Manak Publishers.

Narsimhan, R. Co. author: Miki, N., Kaiwahan, S. H.(2016). *Learning Hindi – Hindi Conversation*. Tokyo University of Foreign Studies.

Panda, N. K. (2016). Indo Odishashu utkoru daigaku ni okeru nihogno kyouiku no kokoromi (An experiment of introducing Japanese Language in Utkal University in the State of Odisa). *Kotoba to Moji*, Vol. 5, July, 36-45.

Panda, N. K. (2016). Tagore and Japanese language: from the writings of Sano Jinnosuke., In Banerjee et al. (Eds.), *Tagore and Japan - Dialogue, Exchange and Encounter* (pp. 18-27). New Delhi: Synergy Books.

Panda, N. K. (2017). Barsha ku no dori (Without fear for the rain), Translation of Ameni mo Makezu of Miyazawa Kenji in to Odia. In George (Ed.), *Japanese Literature in Indian Translations: Issues and Challenges*, (pp. 242-243), New Delhi: Northern Book Centre.

Panda, N. K. (2017). Ameni mo Makaezu wo Odiago ni honyakusuru sai menshita mondai ten (Problems encountered while translating Ameni mo Makezu in Odia Language). In George (Ed.), *Japanese Literature in Indian Translations: Issues and Challenges* (pp. 187-193). New Delhi: Northern Book Centre

Roy, S. (2016). *Book of Proverbs: Chinese, English, Hindi*, Delhi: Goyal Publishers.

Sahu, J. & Kumar, A. (2016). India's China policy under Manmohan Singh: Responsive engagement. In G Jayachandra Reddy (Ed.), *Dynamics of India and China Relations Implications for New World Order* (pp.405-29). Tirupati, UGC Centre for Southeast Asian & Pacific Studies, Sri Venkateswara University,

Sahu, J. (2016). Taiwan Studies in India. In D P Tripathy & B R Deepak (Eds.), *India and Taiwan: From Benign Neglect to Pragmatism*, (pp. 201-15), Delhi: Vij Books India Pvt Ltd.

Thakur, R. (2016). Women entrepreneurs in China. *On Trade, World Trade Centre, Mumbai*, 3(2), 34-36.

Thakur, R. (2016). The BRICS Bank: Goals and limitations. *ECO WATCH*, FICCI, Oct. 1, 10-12.

### **Research Project**

*Buddhist Tourism in India and India's Buddhist Diplomacy in East and Southeast Asia* from Oct 2015 - Oct 2016, Delhi University Research Council, Mukhopadhyaya, Ranjana. Rs. 1.5 Lakhs.

*Japanese Pilgrimages to Bodhgaya: Buddhist Revival Movements in India and Exchanges between India and Japan*. ICHR-JSPS Joint research Project (2016-2018), Mukhopadhyaya, Ranjana. Rs. 5 Lakhs.

*Taiwan's Presidential Election 2016 and the future of cross-Straits relations*. Delhi University Research Council, from Oct 2015- Oct 2016, Sahu, Janardan. Rs. 1 Lakh.

### **Seminars Organised**

V.P. Dutt Memorial Lecture on Journey of South Korea: Achievements and Tasks Ahead by Prof. Edward J. Baker, Former Associate Director, Harvard-Yenching Institute on 13 April, 2016.

Special Lecture on India-Japan Relations by Ambassador of Japan, H.E. Mr. Hiramatsu Kenji on Aug. 22, 2016.

Special Talk on Internet Politics and Political participation in China by Dr. Chen Jinying, Associate Professor, School of International Relations & Public Affairs on Sept. 12, 2016.

Lecture on Where do we put Accent in New Japanese Words? by Dr. Yamabe Junji, Associate Professor, Notre Dame Seishin University, Japan on Sept. 19, 2016.

Special Lecture on Integration in North-East Asia by Ambassador of the Republic of Korea, H.E. Dr. Cho Hyun on Sept. 26, 2016.

Special Talk on North East Asia's territorial disputes: Are they just a remnant of World War II? by Dr. Rowena Ward, Senior Lecturer in Japanese, School of Humanities and Social Inquiry University of Wollongong, Australia on Jan. Jan. 30, 2017.

Talk on Asia's Strategic Triangle: Japan-India- China Relations by Mr. Shunichi Inoue, Deputy Head, Political Section, Embassy of Japan in India on Feb. 20, 2017.

Special Talk on China - Pakistan Economic Corridor (CEPC) by Mr. Jayadeva Ranade, by Former Additional Secretary, Cabinet Secretariat, Government of India, President of the Centre for China Analysis and Strategy on March 6, 2017.

V.P. Dutt Memorial Lecture on Japan's Security Policy in The Changing World System by Prof. Akihiko Tanaka, Tokyo University Japan on March 29, 2017.

### **Conference Organised**

International Workshop on *Territorial Issues in South and East Asia* in association with National Institute of East Asian History on Oct. 24, 2016.

International Conference on *A Poetic Dialogue: Lu Xun And Tagore* with collaboration of J.N.U, Institute of Chinese Studies, Beijing Lu Xun Culture Foundation, Beijing and International Society for Lu Xun Studies, Seoul held on Nov. 12-13, 2016.

International Conference on *India-China Cross Cultural Dialogues 2017 New Media, Transforming Societies and the Coming of the information Age* Organised in collaboration with Sun Yat-sen University, Guangzhou, China held on 10-11 March, 2017.

National Conference on *Japanese Language, Culture and Literature in Transition* was held on March 25, 2017.

### **Seminar / Conference Presentations**

Abanti Bhattacharya presented a paper on Conceptualizing the Chinese Silk Route Strategy at Academy of International Studies, Jamia Milia University, New Delhi, Feb. 03, 2016.

Anita Sharma, Presented Paper, Cultural Contacts through Ancient Silk Road in Second Kathmandu Cultural Forum, Kathmandu, Nepal on Dec. 19-20, 2016.

Anita Sharma, Presented Paper, Glimpses of China: Urumqi, Turpan and Dunhuang at India International Centre, New Delhi on July 19, 2016.

Anita Sharma, Presented Paper, India's Projection of its Soft Power in the Era of Globalization at Dayal Bagh Education Institute, Agra on Sept. 24, 2016.

Anita Sharma, Presented Paper, India-China Cultural Connections though Ages with Special Reference to Buddhist Caves in India in a Symposium on China Studies at Beijing, China on Oct. 25, 2016.

Anita Sharma, Presented Paper, India-China Cultural Contacts with Special Reference to Buddhist Sites in India in First India-China Think Tanks Forum at ICWA, New Delhi on Dec. 9-10, 2016.

Anita Sharma, Presented Paper, Influence of Gandhi in China in a Symposium on 'Tagore and Gandhi: Dilemmas, Dialogues, and Dichotomies' at Sahitya Akademi on May 9, 2016.

Anita Sharma, Presented Paper, Translating 'Myths of Creation' – From around the Globe-Chinese, Cluster Innovation Centre, University of Delhi, on April 12, 2016.

G. Balatchandirane, Presented Paper, Migration of the Highly Skilled: Issues for India and Japan at the International Metropolis Conference (IMC) at the Nagoya Congress Center, Nagoya, Aichi Prefecture, Japan on 24-28 Oct., 2016.

Janardan Sahu, Presented Paper, China's initiative on One Belt, One Road at Xinjiang Academy of Social Sciences Urumqi, Xinjiang Academy of Social Sciences Urumqi, Xinjiang, China on May 23, 2016.

Janardan Sahu, Presented Paper, Chinese Foreign Policy and the Internet in two day International seminar 'India-China Cross Cultural Dialogue 2017' organised by the Department of East Asian Studies, University of Delhi in collaboration with Sun Yat-sen University, Guangzhou, China on March 10-11, 2017.

Janardan Sahu, Presented Paper, Taiwan's Presidential Election 2016 and the future of Cross-Strait Relations in the UGC Centre for Southeast Asian & Pacific Studies, Sri Venkateswara University, Tirupati on Sept. 30, 2016.

Nabin Kumar Panda, Jujo Genji -Kurotsubo, translation into Odia Language. Presented in the *Dai Hachikai Indo Kokusai Nihon Bungaku Kenkyushukai* in International Conference held in Japan Foundation, New Delhi on Nov. 11-12, 2016.

Nabin Kumar Panda, Translation of Miyazawa Kenji's *Ameni mo Makezu* in Odia Language, Presented in the International Seminar on State of Japanese Literature in Indian Translation: Reception and Appreciation and Recitation of Selected Literary Works in Original and Translations, held at Centre for Japanese Studies, Jawaharlal Nehru University, New Delhi on Oct. 26-27, 2016.

Paresh Kumar, Presented Paper, Teaching Korean Language through Moral based Stories in the 22<sup>nd</sup> International Conference on Korean Studies under the theme of Education and Research on Korean Language and Literature in South Asia Seminar held in J.N.U. on Nov. 18-19, 2016.

Paresh Kumar, Presented Paper, A Comparative Study of the Realism in Korean and Indian (Hindi) Modern Literature with special reference to the writings of Hyeon Jin-goen and Munshi Premchand in the Korean Literature Workshop for Overseas Doctoral Students sponsored by the Korea Foundation at Seoul, the Republic of Korea on July 5- 10, 2016.

Ranjana Mukhopadhyaya, Presented Paper, Study of Japanese Religion and Society: Research Approaches and Methodology in International Conference on Tagore and Japan & Various Aspects of Japan and her Culture at Department of Japanese (Nippon Bhavan), Visva-Bharti, Santiniketan, West Bengal.

Ravni Thakur, Presented Paper, Cyber Control and Media Policy in India and China at Conference on 'India China New Media and Transformations' at Department of East Asian Studies, Delhi University on March 10-11, 2017.

Ravni Thakur, Lecture on Paradigms of Conflict Resolution in China: The Role of Leadership to Staff Course 2016, National Defense College, Delhi on Sept. 8, 2016.

Ravni Thakur, Lecture on The Dynamics of Social Stratification in China Today at Nalanda University, Nalanda on Nov. 24, 2016.

Shreeparna Roy, Presented Paper, The Message of Tagore and Lu Xun on life: What Can We Learn? at International Conference on A Poetic Dialogue: Lu Xun and Tagore Organised at Jawaharlal Nehru University, New Delhi on Nov. 12-13, 2016.

Sreemati Chakrabarti, Presented Paper, Internationalization of Higher Education in India and China in Conference on 'New Paradigms of local, Regional and Global Governance in India and China : India-China Cross-Cultural Dialogues I' organised by Sun Yat-sen University and the Institute of Chinese Studies, Guangzhou, China, June 16-17, 2016.

Sreemati Chakrabarti, Presented Paper, A Re-assessment of Tagore's China Travels in Conference on 'A Poetic Dialogue: Lu Xun and Tagore' Organised by Jawaharlal University and University of Delhi, Nov., 12, 2016.

Sreemati Chakrabarti, Panelist in Roundtable on Territorial Disputes in South Asia in Conference on 'Territorial Issues in East and South Asia' Organised by the Department of East Asian Studies and the Northeast Asia History Foundation, Seoul, South Korea, Delhi, Oct. 26, 2016.

Sreemati Chakrabarti, Presented Paper, Issues in Current India-China Political Relations in Roundtable 'Reimagining India and China: New Approaches to Dimensions in Trade and Investment' Organised by India-China Trade Centre, IIC, New Delhi, Feb. 17, 2017.

### **Inter-Institutional Collaboration**

Centre for Air Power Studies, New Delhi  
Centre for Policy Research, New Delhi  
Institute of Chinese Studies, New Delhi  
Institute of Peace and Conflict Studies, New Delhi  
Jawaharlal Nehru University, New Delhi

### **Placement Details**

Five Companies visited for campus recruitment.

100% students got placement in Companies, Think Tanks, Government Organisations or got admission for higher studies in India as well as abroad.

### **Extension and Outreach Activities**

Students participated in All India Korean Speech Contest.

Students participated in Japanese Language JALTAI Essay Contest.

Constitution Day was celebrated in the Department.

Part Time Certificate, Diploma and Advanced Diploma courses in Chinese, Japanese and Korean are being conducted through various colleges of Delhi University.

### **M.Phil. / Ph. D. Awarded**

Ph.D. – 1

M.Phil – 4

### **Faculty Strength**

Permanent – 14

Ad-hoc – 3

Guest – 5

### **Other Significant Information**

Three students were granted scholarship to do research in Japan.

Three students visited Japan for 10 days under JENESUS Programme by Embassy of Japan.

Three Students were selected for Youth Delegation to Korea.

Two Students were selected for Youth Delegation to China.

One Student was granted scholarship to study Chinese Language in Taiwan.

Post-Graduate students of the Department of East Asian Studies have placement opportunities in several Think tanks, namely, Vivekananda International Foundation, Institute for Peace and Conflict Studies, Institute for Defense Studies and Analyses, Observer Research Foundation, Centre for Air Power Studies, Institute of Chinese Studies, and Indian Council of World Affairs. Language students of our Department have opportunities for placement in several companies in and outside India namely, Vivo Mobiles, Liteon Technology Corporation, OPPO Mobiles, Hindustan Computers Limited, Mitsubishi Corporation, LG Electronics, Huawei Telecommunications, Samsung, American Express, Shinhan Bank, VFS Visa Services, Maruti Suzuki, and Oracles. There are various scholarships for students for higher studies in China, Taiwan, Japan and Korea like UNESCO/People's Republic of China – Great Wall Co-sponsored Fellowships, Taiwan Huayu Scholarship, Huawei Scholarship, Mitsubishi Corporation International Scholarship, Japanese language scholarship for outstanding students by Japan Foundation, Shinhan

Bank scholarships, Scholarship by M/s LG Electronics Ltd, US-India-China Initiative by Johns Hopkins University, Harvard-yenching Fellowship etc.

Mr. Masaaki Tachiki came to the Department as Visiting Faculty from Japan from Sept., 2016 for one semester under the Japan Overseas Cooperation Volunteer Program.

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## ECONOMICS

### Major Activities and Achievements

During the period April 2016 to March 2017, members of the department continued to contribute to the field of economics in significant ways. Several faculty members published their research works in leading national and international professional journals. They also participated in policy debates through writings in popular journals and produced two well-regarded economic forecasts. The department remains a UGC Centre of Advanced Study and for the sixth successive year it was ranked the highest amongst university economics departments in India by Repec, a global electronic archive of working papers and publications in Economics (<http://ideas.repec.org/top/top.india.html>). Faculty members also participated in several national and international conferences. During the year, the department Organised two major international conferences and a weekly seminar series that brought in distinguished speakers from India and abroad to present their research. The Department supports M.A., M.Phil. and Ph.D. programmes. In 2016-17, as many as 4,417 students applied for the M.A. programme. The Department also continues to attract research students for its M.Phil. and Ph.D. programmes. Enrolment in the Ph.D. programme has increased following amendments to the University's rules governing eligibility conditions. A regular colloquium was Organised for M.Phil. and Ph.D. students, at which research students presented their work in progress and faculty members lectured on research methods and ethics. Research students presented their work at professional conferences too. The Department has been very successful in placing its Masters graduates in corporate jobs as well as in Ph.D. programmes in the top-grade universities abroad.

### Honours / Distinctions

Prof. Pami Dua was appointed as Member of Monetary Policy Committee, Reserve Bank of India.

Prof. Ram Singh was appointed as Member of the Pay Review Committee set up by the UGC and Ministry of Human Resource Development, Government of India for colleges and universities in India.

Dr. Dibyendu Maiti was appointed as Visiting Fellow, Norwegian Institute of Foreign Affairs, Oslo, June, 2016.

### Publications

Bag, S. *Understanding standard of living and correlates in slums: An analysis using monetary versus multidimensional approaches in three Indian cities*. Retrieved <http://www.nopoor.eu/publication/understanding-standard-living-and-correlates-slums-analysis-using-monetary-versus>

Bhattacharjea, A. and Sinha, U.B. (2016). International cartels with territorial allocation: A model with paradoxical implications, *Indian Economic Review* 51, 181-195.

Bhattacharjea, A. and Sindhvani, F. (2016). The Indian pharmaceutical sector: Antitrust issues and cases. In Fox, Eleanor, First, Harry, Charbit, Nicolas and Ramundo, Elisa, (Eds.), *Antitrust in Emerging and Developing Countries: Featuring Africa, Brazil, China, India, Mexico* (2nd ed., pp. 47-58). New York: Institute for Competition Law.

Bhattacharjea, A. (2016). Recent trends in mega-mergers in India and lessons for competition policy: Insights from Merger Cases under the Competition Act. In Veeramani, C. and Nagaraj, R. (Eds.), *International Trade and Industrial Development in India: Emerging Trends, Patterns and Issues*, New Delhi: Orient Blackswan.

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- Dua, P. (2017). Macroeconomic modelling and Bayesian methods. *Journal of Quantitative Economics*, 15, 209-226.
- Dua, P. and Kapoor, H. (2017). Macro stress testing of Indian bank groups. *Margin: The Journal of Applied Economic Research*.
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- Goel, D. and Gupta, S. (2017). The effect of metro expansions on air pollution in Delhi. *The World Bank Economic Review*, 31(1), 271-294.
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- Sinha, U.B. and Kabiraj, T. (2016). Strategic outsourcing with technology transfer under price competition. *International Review of Economics and Finance*, 44, 281-290.
- Sinha, U.B. (2016). Economies of scale and (non) existence of strategic outsourcing in cournot duopoly. *Economics Bulletin*, 36(3), 1260-66.

### Research Projects

- IGC Project Code: 1-VRS-VINC-VXXXX-89209; *Does choice of procurement contract matter for cost and quality of infrastructure?* PI, Ram Singh.
- Exploring the dimensions and dynamics of Indian urban poverty: Multidimensional & Political Aspects*, Funding Agency: European Commission, Year: Since March, 2012 to Sept. 2017. PI: Sugata Bag.

### Seminars Organised

- Vidya Soundararajan, IIM, Bangalore, Role of Political Activists in Clientelistic Settings: Evidence from an Indian Public Works Program, 30 March, 2017.
- Rinku Murgai, The World Bank, Pathways to Reducing Poverty and Sharing Prosperity in India: Lessons from the Last Two Decades, 23 March, 2017.
- Elizabeth Webster, Swinburne University of Technology, Australia, The Effect of Patents on Trade, 10 March, 2017.
- Sonalde Desai, University of Maryland & Senior Fellow, NCAER, Do Public Works Programs Increase Women's Economic Empowerment? Evidence from Rural India, 7 March, 2017.
- Prachi Mishra, Reserve Bank of India, The Transmission of Monetary Policy Within Banks: Evidence from India, 2 March, 2017.
- Johannes Urplelainen, Columbia University, Barking Up the Wrong Tree: Retrospective Voting, Natural Disasters, and Electoral Backlash, 19 Jan., 2017.
- Kundan Kishor, University of Wisconsin-Milwaukee, The Role of Inflation Expectations, Core Inflation, and Slack in Real-Time Inflation Forecasting, 14 Jan., 2016.
- Scott Bradford, Brigham Young University, A General Equilibrium Model of Migration and Poverty, 12 Jan., 2017.
- Venoo Kakar, San Francisco State University, Asset Prices and Optimal Monetary Policy, 10 Jan., 2017.
- Prasad S. Bhattacharya, Deakin University, The Political Economy of Land Reform Enactment and Implementation: New Cross-National Evidence (1900-2010), 6 Dec., 2016.
- Sheetal Sekhri, University of Virginia, Gendered Consequences of Improving Public Service Delivery, 24 Nov., 2016.
- Amit Basole, University of Massachusetts, Boston, Informality and Flexible Specialization: Informal Knowledge, Technical Change, and Labour Market Institutions in the Banaras Silk Weaving Industry, 17 Nov., 2016.
- Tarun Gupta, Vice President, AQR Capital Management, Quantitative Investment Strategies: Overview of Theory and Evidence, 27 Oct., 2016.



Sushma Murty, University of Exeter, Measuring unilateral and multilateral gains from tackling current economic inefficiencies in CO2 reductions: Theory and evidence, 20 Oct., 2016.

Renuka Sane, ISI, New Delhi, Misled and Mis-sold: Financial misbehaviour in retail banks? 22 Sept., 2016.

Devesh Roy, IFPRI, New Delhi, An Application (or Two) of the Synthetic Control Method (SCM) in Policy Evaluation, 1 Sept., 2016.

Kehinde Ajayi, Boston University, Student Performance and the Effects of School Quality versus School Fit, 23 Aug., 2016.

Arka Roy Chaudhuri, Indian Statistical Institute, Delhi, Mandated Political Representation and Development Outcomes: Evidence from India, 18 Aug., 2016.

Sourav Bhattacharya, Royal Holloway, University of London, A Possibility Theorem on Information Aggregation in Elections, 16 Aug., 2016.

Anukriti, Boston College, Dowry: Household Responses to Expected Marriage Payments, 11 Aug., 2016.

Debasis Mondal, IIT Delhi, Private provision of public good and endogenous income inequality, 4 Aug., 2016.

Chandan Kumar Jha, Le Moyne College, Syracuse, NY, The Role of Historical Resource Scarcity in Modern Gender Inequality, 26 July, 2016.

Parimal Kanti Bag, National University of Singapore, Secret Deliberations, 22 July, 2016.

Ram Sewak Dubey, Montclair State University, On the Construction of Social Welfare Orders Satisfying Hammond Equity and Weak Pareto Axioms, 21 July, 2016.

### **Conferences Organised**

The Department Organised its 11<sup>th</sup> Annual Conference ‘Winter School 2016’ during Dec. 13-15, 2016.

The Department Organised a two-day Workshop on ‘Political Economy and Development’ during Sept. 29-30, 2016.

The Department Organised a public Lecture by Prof. Howarth Bouis on ‘Biofortification’ on Nov. 10, 2016.

### **Seminar / Conference Presentation**

A. Bhattacharjea, presented paper on Sylvania’s Indian Precursor and its Legacy, Utrecht University School of Economics, The Netherlands, Oct., 2016.

A. Kar, Presented Paper, 12th Annual Conference on Economic Growth and Development, Indian Statistical Institute, Delhi, India.

A. Kar, Presented Paper, NO POOR Policy Seminar: Education, Employment, Networks and Poverty, Centre for Development Economics and Centre for Social Sciences and Humanities, Delhi School of Economics, Delhi.

D. Maiti, Presented Paper, Trade Negotiations under WTO: Issues before Developing World, National Seminar, Shyamal College, University of Delhi, April, 2016.

D. Maiti, Presented Paper, Trade Competition, Labour Market Duality and Productivity Growth: Some Issues with Reference to India, CMI, Bergen, Norway, June, 2016.

D. Maiti, Presented Paper, Finance, Innovation and Exports – Theory and Evidences, Trade and Development Workshop, Deakin University, Melbourne, Australia, Aug., 2016.

J.V. Meenakshi, Presented Paper, The Nutrition Transition in India, Global Food Research Colloquium, University of Goettingen, Goettingen, June, 2016.

J.V. Meenakshi, Presented Paper, The Intra-household Dual Burden of Malnutrition in Rural India, Asian Development Bank Institute and Ministry of Health, Palau conference on Obesity in Asia and the Pacific, Koror, Palau, Aug. 2016.

J.V. Meenakshi, Presented Paper, Does the ICDS improve the quantity and quality of children's diets? Some evidence from rural Bihar, CDE-CAGE Workshop on Political Economy and Development, Delhi, Sept., 2016.

- J.V. Meenakshi, Presented Paper, The Triple Burden of Malnutrition in India, Cornell University, Ithaca, Oct., 2016.
- P. Dua, Inaugural Address, Quality and Values in Education, Practicing Quality Culture in Institutions of Higher Education, Maharaja Agrasen College, University of Delhi, April, 2016.
- P. Dua, Invited Lecture, Econometrics: Theory and Applications in a Workshop on Financial Engineering, IIT Delhi, May, 2016.
- P. Dua, Invited Lecture, India's Projection of its Soft Power in the Era of Globalization, Dayalbagh Educational Institute (Deemed University), Agra, Sept., 2016.
- P. Dua, Presented Paper, Macro Stress Testing and Resilience Assessment of Indian Banking, United Nations DESA Expert Group Meeting on the World Economy (LINK Project), Toronto, Oct., 2016.
- P. Dua, Invited Lecture, Macro Stress Testing and Resilience Assessment of Indian Banking at the 53<sup>rd</sup> Annual Conference of The Indian Econometric Society, Bhubaneswar, Dec., 2016.
- P. Dua, Presented Paper, China and India in the Face of Recent Crises: A Markov-Switching Analysis, NIPFP Conference on Papers in Public Economics and Policy, March, 2017.
- R. Singh, Presented Paper, Eminent Domain to Acquire Private Properties: A U.S.-India Comparison, University of Wisconsin, Madison, April, 2016.
- R. Singh, Presented Paper, Interdependent Investments and (Un) bundling Contracts, Department of Economics, Harvard University, April, 2016.
- R. Singh, Presented Paper, Interdependent Investments and (Un) bundling Contracts, Department of Economics, Brown University, April, 2016.
- R. Singh, Presented Paper, Litigation over Compensation under Land Acquisition: Actors and Outcomes, Land Administration Program, World Bank, June, 2016.
- R. Singh, Presented Paper, Economic Analysis of Eminent Domain Law: Re-examination, Paris Centre for Law and Economics at University of Paris II, Paris, Oct., 2016.
- R. Singh, Presented Paper, Comparative Causation, International Conference on Causation in Law, University of Lorraine Nancy, France, Oct., 2016.
- R. Singh, Presented Paper, Economic Analysis of Eminent Domain Law: Re-examination, International Conference of Growth and Development, Indian Statistical Institute, Delhi, Dec., 2016.
- R. Singh, Presented Paper, PPP Contracts: Incentives and Outcomes, CPA-TMML International Conference on PPPs, TMML New Delhi, Jan., 2017.
- R. Singh, Presented Paper, PPPs for Infrastructure: Indian Experience, International Conference on Growth and Development in India, Jamia Milia Islamia, New Delhi, March, 2017.
- S. Bag, Presented Paper, Multidimensional Urban Poverty and its Correlates: A Study of Slum dwellers of Three Metro Cities in India at No Poor Africa Policy Conference, Accra, Ghana. No Poor and Centre for Democratic Development, Ghana. Accra, Ghana. May, 2016.
- S. Bag, Presented Paper, Multidimensional Urban Poverty and its Correlates: A Study of Slum dwellers of Three Metro Cities in India at Annual Meeting of the No poor Project, at Tecnologico de Monterrey, Mexico, July, 2016.
- S. Bag, Presented Paper, Understanding standard of living and correlates in Slums: an analysis using Monetary versus Multidimensional approaches in three Indian cities, at the UNU-Merit Conference on World Toilet Day, Delhi, India, Nov., 2016.
- S. Bag, Presented Paper, Understanding standard of living and correlates in Slums: an analysis using Monetary versus Multidimensional approaches in three Indian cities, at the 12th Annual Conference on Economic Growth and Development, Indian Statistical Institute, New Delhi, Dec., 2016.
- S. Kumar, Guest Speaker, Seminar on Green GDP, Shaheed Sukhdev College of Business Studies, Organised at South Campus, University of Delhi, Aug., 2016.

S. Kumar, Special Lecture, Globalization and Sustainable Development at National Conference on 25 Years of Globalization and its Impact on the Indian Economy, Organised by the Guru Gobind Singh Indraprastha University, New Delhi, Sept., 2016.

S. Kumar, Presented Paper, Corporate Environmentalism in India: Determinants and Deterrence CDE-CAGE Workshop on Political Economy and Development Organised by CDE-DSE and Warwick University, Sept., 2016.

S. Kumar, Presented Paper, Industrial Energy Prices and Export Competitiveness: Evidence from India, Workshop on Development in Comparative Perspective, Co-Organised by Department of Economics, Delhi School of Economics; CECFEE at the Indian Statistical Institute, Delhi; University of Gothenburg, Sweden, March, 2017.

### **Inter-Institutional Collaboration**

The Department of Economics, Delhi School of Economics, is the India counterpart of the World Project LINK (initiated and guided by Nobel Laureate late Prof. Lawrence Klein) which integrates independently developed national macro models into a global model for macroeconomic forecasting and policy analysis and is coordinated jointly by the UN Department of Economic and Social Affairs and the University of Toronto. In the initial phase Prof. V. Pandit and Prof. late K. Krishnamurty from the Institute of Economic Growth were actively associated with Project LINK. From the Department of Economics, Prof. K. Sundaram and Prof. Pami Dua were jointly involved in more recent years. The project is at present, jointly managed by Prof. Pami Dua and N. R. Bhanumurthy, National Institute of Public Finance and Policy with advisory support from Prof. V. Pandit.

### **Placement Details**

Students placed – 99 and 91.66%

Companies visiting campus for recruitment – 33

### **M.Phil. / Ph.D. Awarded**

Ph.D. – 4

M.Phil – 2

### **Faculty Strength – 21**

Ad-hoc – 6

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## **GEOGRAPHY**

### **Major Activities and Achievements**

The Department leads in strengthening the discipline of Geography in India through its emphasis on Inter-disciplinarity, Innovation and Inclusiveness. The Department of Geography through its teaching and research activities aims for bridging the gap between the physical sciences and social sciences. Faculty members of the department have published research articles in high impact factor peer reviewed journals in this year, viz. Geomorphology, International Journal of Climatology, GI Science & Remote Sensing, Natural Hazards, Social & Cultural Geography, City, Culture & Society, Dialogues in Human Geography, Journal of Stochastic Environmental Research and Risk Assessment, etc. The department is known for its expertise in the areas of environment, remote sensing/GIS and gender studies. The Department is also receiving Special Assistance under UGC Research Support Programme DRS III (2013-18).

### **Honours / Distinctions**

Dr. Anindita Datta was nominated to the Steering Committee of the IGU Commission on Gender and Geography for a second term up to 2020; and continues to be Member, Editorial Board of *Gender Place and Culture: A Journal of Feminist Geography* for a second term from 2015.

Prof. R B Singh:

Leader of INSA National Delegation to 33<sup>rd</sup> International Geography Congress, 2016 in Beijing, China.

Re-elected as Vice President of International Geographical Union (2016-20).

Nominated Member of ICSU Science Committee on Health and Wellbeing in Changing Urban Environment (2016-18).

Prof. S C Rai has received the Highly Commended Paper Award-2016, from Willey and Chartered Institution of Water and Environmental Management (CIWEM), London, U.K.

## Publications

Aggarwal, S., Rai, S.C., Thakur, P.K., and Emmer, A. (2017). Inventory and recently increasing GLOF susceptibility of glacial lakes in Sikkim, Eastern Himalaya. *Geomorphology*, 295, 39-54.

Anand, S. and Basumatary, M.G. (2016). An overview of smart cities in India. *The Horizon*, VII (1), 23-35.

Anand, S. and Yadav, P. (2016). Understanding human- environment interaction and eco development initiatives for sustainable future of Sariska National Park, Rajasthan, India. *Journal of Water & Land use Management*, 16 (1&2), 120-138.

Anand, S., Rani, U. and Basumatary, M.G. (2016). Disaster management and technology *World Focus*, 437, pp. 117-121.

Anand, S. (2017). Perception of waste management in Delhi. In Thakur, B., Sharma, H.S., Misra, S., Chattopadhyay, S. and Singh, S. (Eds.), *Regional Development: Theory and Practice, 2, Measuring Development* (pp.148-162). New Delhi: Concept Publications Company

Bandyopadhyay, N. and Saha, A.K. (2016). A comparative analysis of four drought indices using geospatial data in Gujarat, India. *Arabian Journal of Geosciences*, 9(5), p. 341.

Bandyopadhyay, N., Bhuiyan, C. and Saha, A.K. (2016). Heat waves, temperature extremes and their impacts on monsoon rainfall and meteorological droughts in Gujarat, India. *Natural Hazards*, 82 (1), 367-388.

Bathla, N. and Rai, S.C. (2016). Rainwater harvesting: A solution to water scarcity in the National Capital Region (NCR), Delhi, India. *Annals of the National Association of Geographers, India*, 36 (1), 53-65.

Begum, A. and Saha, A.K. (2017). Facility management system: A case study of University campus. In Sharma, P. and Rajput, S. (Eds.), *Sustainable Smart Cities in India: Challenges and Future Perspectives* (pp. 213-225). Springer International

Bhuiyan, C., Saha, A.K., Bandyopadhyay, N. and Kogan, F.N. (2017). Analysing the impact of thermal stress on vegetation health and agricultural drought - A case study from Gujarat, India. *GI Science & Remote Sensing*, 54 (5), 678-699.

Datta A. (2016). Genderscapes of hate: On violence against women in India, *Dialogues in Human Geography*, 6 (2), 178-181.

Datta, A. (2016). *Yeh bhoogol shastra nahi hai*: on (in) visibilizing gendered geographies of resistance and agency in India. *Social & Cultural Geography*.

De, A. (2016). Spatialisation of selves: Religion and liveable spaces among Hindus and Muslims in the walled city of Ahmedabad, India. *City Culture and Society*, 7, 149-154.

De, A. and Moinuddin, S. (2016). Negotiating womanhood and south asian Nationalisms: Blurring borders and identities in south Asia. In Friedman, M. and Schultersmandl, S. (Eds.), *Click and Kin: Transnational Identity and Quick Media* (pp. 74-94). Toronto: University of Toronto Press.

Duan, W., Bin, H., Sahu, N., Pingping, L., Daniel, N. and Kaoru, T. (2016). Spatiotemporal variability of Hokkaido's seasonal precipitation in recent decades and connection to water vapor flux. *International Journal of Climatology*.

Husain, A. and Kumar, P. (2017). Drinking water and health related issues: A case study of Patparganj Society, New Delhi. In Pandey, B.W. (Ed.), *Water Resources Potentiality, Vulnerability and Management: Indian Experiences* (pp. 166-183). New Delhi: Research India Press

- Kumar, P. and Rahaman, S. (2017). Allied activities and agricultural patterns of Malda District, West Bengal. In Sahdev, S. and Kumar, M. (Eds.) *Environment and Sustainable Development: A Geographical Appraisal* (pp.76-100). New Delhi: Concept Publishing Company
- Kumar, P. and Rashmi (2017). Environment and community resilience. In Sahdev, S. and Kumar, M. (Eds.), *Environment and Sustainable Development: A Geographical Appraisal* (pp. 157-167). New Delhi: Concept Publishing Company
- Mishra, A.P., Sen, A. and Kumar, A. (2017). Exploring potentials and challenges in making smart cities in India: A Case Study of Allahabad City, Uttar Pradesh. In Sharma, P. and Rajput, S. (Eds.), *Sustainable Smart Cities in India: Challenges and Future Perspectives* (pp. 123-142) Springer International
- Mishra, S. and Sen, A. (2017). Watering the pop-up mega city: A study of water supply in Kumbh Mela-2013 in Allahabad. In Pandey, B.W. (Ed.), *Water Resources Potentiality, Vulnerability and Management: Indian Experiences* (pp. 173-185). New Delhi: Research India Press
- Nitu and Singh, R.B. (2016). Dynamics of hill agriculture in emergent rural economy of Kangra District, Himichal Pradesh. *Journal of Soil and Water Conservation*, 15 (4), 337-344.
- Pandey, B.W., Prasad, A.S., Mishra, H. and Godara, S. (2017). Urban dynamics and resource consumption: A case study of NCT of Delhi. In Sharma, P. and Rajput, S. (Eds.), *Sustainable Smart Cities in India: Challenges and Future Perspectives* (pp. 333-352). Springer International.
- Pant, A., Pandey, B.W. and Negi, V.S. (2016). Hazard risk assessment through community participation: A case study of Gaula River catchment: Kumaun Himalaya. *Deccan Geographers*, 52 (2), 11-16.
- Rai, S.C. and Mishra, P.K. (2016). Indigenous knowledge of terrace management in Sikkim Himalaya, India. In Yadav, K.K., Srivastava, S.P.L. and Kumar, P. (Eds.), *Environment, Pollution and Socio-economic Development in India*, Varanasi: Vijay Prakashan Mandir.
- Rai, S.C. and Nagpal, J. (2017). An assessment of domestic water use practices in Delhi. In Sharma, P. and Rajput, S. (Eds.), *Sustainable Smart Cities in India: Challenges and Future Perspectives* ( pp. 445-458). Springer International
- Rai, S.C. (2017). *Hydrology and Water Resources: A Geographical Perspective*. New Delhi: Ane Books Pvt. Ltd.
- Ranjan, O. and Anand, S. and Pandey, B.W. (2016). Understanding cultivation ecology in Twang-Chu river basin, Arunachal Pradesh. In Singh, P. (Ed.), *Climate Change and Sustainable Development* (pp. 189-203). Delhi: Shabd Vani Prakashan
- Ranjan, O. and Anand, S. (2017). Adaptation and sustainability in development: A case study of Tawang district, Arunachal Pradesh. In Pandey, B.W. (Ed.), *Water Resources Potentiality, Vulnerability and Management: Indian Experiences* (pp. 261-281). New Delhi: Research India Press
- Roy, N. and Pandey, B.W. (2016). Concept and practices in disaster management. *World Focus*, 437, 127-129.
- Sahu, N., Robertson, A., Boer, R., Behera, S., DeWitt, D.G., Kaoru, T., Kumar, M. and Singh, R.B. (2016). Probabilistic seasonal streamflow forecasts of the Citarum river, Indonesia, based on general circulation models. *Journal of Stochastic Environmental Research and Risk Assessment*.
- Sahu, N. (2017). Global environmental challenges and Indian Ocean Dipole. In Sahdev, S. and Kumar, M. (Eds.), *Environment and Sustainable Development: A Geographical Appraisal* (pp. 276-285). New Delhi: Concept Publishing Company
- Sen, A., Anand, S. and Mishra, A.P. (2016). Allahabad as a smart city: SWOT analysis. *The Horizon*, VIII (II), 131-143.
- Sen, A. and Yadav, A. (2017). Re-imaging post-industrial cities: Exploring newer identities in Faridabad, Haryana. In Sharma, P. and Rajput, S. (Eds.), *Sustainable Smart Cities in India: Challenges and Future Perspectives* (pp. 85-108). Springer International

## Research Projects

*Popular Imaginaries and Discourses on Politics in India: Exploring Cultural Narratives as Sites of Knowledge Construction*, ICSSR, 2017-2019, Dr. Aparajita De, Co- Director, Rs. 40 Lakhs.

### **Seminar / Conference Presentation**

Pandey B. W., presented paper at Workshop at University of Fribourg, Switzerland. The Global Programme on Climate Change (GPCC) of the Swiss Agency for Development and Cooperation (SDC) and Indo-Swiss project titled Indian Himalayas Climate Adaptation Programme (IHCAP), 30 June-7 July, 2016.

Pathak P.K., presented paper in International Conference on Contextualizing Productive Ageing in Asia, Asian Research Institute (ARI), National University of Singapore (NUS), Singapore (13-14 March, 2017):

Pathak P. K., presented paper in International Workshop on Modelling and Projecting Subnational Population Trends, Asian Demographic Research Institute (ADRI), Shanghai University, Shanghai, China, 7-12 April, 2017.

Rai, S. C., presented paper at The 2017 Annual Conference on Geographic Research for the Northern China Region, Shijiazhuang, China, 12 -14 May, 2017.

Sen, Anjan., De, Aparajita., presented papers at EASAS 24<sup>th</sup> European Conference on South Asian Studies, Warsaw, Poland, 27 - 30 July, 2016.

R. B. Singh, B. W. Pandey, Anjan Sen, Aparajita De, Pankaj Kumar presented papers in the 33<sup>rd</sup> International Geographical Congress (IGC), Beijing, China, 21-25 Aug., 2016.

R. B. Singh, Subhash Anand, B. W. Pandey, Pankaj Kumar made presentations at Indian Council of Social Science Research (ICSSR) and Japan Society for Promotion of Science (JSPS) Bilateral Seminar, Hiroshima, Japan, 23-25 Dec., 2016.

### **M.Phil. / Ph.D. Awarded**

Ph.D – 6

M.Phil – 13

### **Faculty Strength**

Permanent – 13

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## **HISTORY**

### **Major Activities and Achievements**

The Department was founded in 1922 and has currently 32 faculty members, who are actively involved in research and teaching. Members of the faculty are renowned as thinkers and contributors to the discipline of History and as specialists in their respective domains of research. This is evident in the large number of invitations received to present key note addresses in conferences, participate in international and national conferences and workshops. History Department faculty members are on the editorial board of some of the most prestigious peer-reviewed journals in the discipline. The History Department runs one of the most rigorous and prestigious M.Phil. programmes in the world. Out of the approximate 25 candidates enrolled annually about three-five regularly secure full fellowships in top ranked international Universities for their Ph.D.s. We have an MA programme with a very large selection of courses and a newly revised undergraduate programme of instruction.

### **Honours / Distinctions**

Dr. Biswamoy Pati, Nehru Memorial Museum and Library, Senior Fellowship, 2015-17.

Dr. Sanghamitra Misra, Nehru Memorial Museum and Library, Fellowship, 2015-17.

Professor S.Z.H. Jafri, Sectional President, Medieval Indian History, Indian History Congress, 2016.

Dr. Yasser Arafath, Dr. L.M. Singhvi Visiting Fellowship, Centre of South Asian Studies, University of Cambridge, 2016-2017.

Dr. Shalin Jain, CST Library Scholar, Claremont School of Theology, Claremont, California, USA, 2015-17.

## Research Projects

### International:

UGC/New Zealand Research Council International Project, Funding Agency is UGC, *Community development and innovation: Health, Indian diasporas in the South Pacific and the Antipodes*, 2014-16; Dr. Biswamoy Pati, Total Grant: Rs. 22 Lakhs.

Dr. Vipul Singh, Project partner in Simone Müller (PI) DFG Emmy-Noether Research Group *Hazardous Travels, Ghost Acres and the Global Waste Economy*, Rachel Carson Center, Munich (Germany), 2016-2020.

### National:

CAS Travel & Research Grant, Department of History, University of Delhi, *Sex in the Vernacular: The Writings of Santram*, 2016-17. Dr. Charu Gupta

## Publications

### Papers Published in Peer Reviewed/Refereed Journals:

National – 6; International – 2

Number of Monographs – 6

Number of Edited Books – 11

Chapters in Books – 24

Raziuddin, A. (2016). *Literary and Historical Practices in Medieval and Early Modern India*. co-edited with David Curley. Delhi/London: Manohar and Routledge.

Farooqui, A. (2016). Religion, the Riot of 1807 in Delhi, and anti-company sentiment. *Studies in People's History*, III(2), 174-184.

Govind, R. (2017) The King's plunder, The King's justice: Sovereignty in British India, 1756 - 1776. *Studies in History*, 33(2), 1-36.

Gupta, C. (2016/17). Allegories of 'love jihad' and *ghar vapasi*: Interlocking the socio-religious with the political. *Archiv Orientalni*, 84, 2, 291-316.

Jafri S. Z. H. (2016). *Awadh from Mughal to Colonial Rule: Studies in the anatomy of transformation*. New Delhi: Gyan Publishing House.

Kumar, S. and Uniyal-Panda, C. (2016). (Eds.), *Rajiv Gandhi: Pioneer of India's 21<sup>st</sup> Century*, New Delhi: Swaraj Prakshan

Malhotra, A. (2017). *Piro and the Gulabdasis*. New Delhi: Oxford University Press.

Zou, D.(2016/17). Environment, social identity and individual freedom in the current historiography in northeast India. *Studies in History*, 32(1), 1-13.

### Conferences Organised – 4

Indian Economic and Social History Annual Lecture Series, Stein Auditorium, India Habitat Centre, Delhi, Dec., 2016. Prof. Sunil Kumar, Co-organiser.

### Conference / Seminar Presentation

Parul Pandya Dhar presented a paper, *The Iconography of Cross Cultural Exchange between India and Southeast Asia* in a conference 'Lineages of Interactions between South, Southeast and East Asia' Organised by University of Calcutta under the UGC programme, Jan., 2017.

### Inter-institutional Collaboration

Dr. Shalin Jain has International collaboration with Professor Philip Clayton of Claremont Lincoln University, California, USA.

**M.Phil. / Ph. D. Awarded**

Ph.D. – 17  
MPhil – 18

**Faculty Strength**

Permanent – 33

**Other Significant Information**

Faculty serving in:

National Committees – 21

International Committees – 5

Editorial Boards – 42

Any Other – 3

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## POLITICAL SCIENCE

**Major Activities and Achievements**

The teaching and research program of the Department of Political Science is based on a comprehensive social science approach that integrates and interrogates sociological, economic, philosophical and cultural dimensions. It encourages a comprehensive study of the field of politics, keeping especially the Indian realities in focus. The Department has entered into five inter-institutional collaboration Projects along with 16 projects sponsored by various national/international organizations and University of Delhi. The Department hosted two international seminars, four national workshops, one faculty seminar, twelve departmental weekly seminars, six special talks, and one work-in-progress workshop by Ph.D. students. The Department has launched a series of research groups and network in collaboration with college teachers to carry out research in emerging areas. These include: South East Asia Research Group, Intellectual History Research Group, Research Network on Feminist Engagements with Law and the State, Peace and Conflict Studies Research Group. Department launched a drive with the help of college teachers to prepare and collate teaching materials in Hindi Language for all Under Graduate courses. Faculty members have received honours and awards at national level and have undertaken international assignments and conferred with professional positions at international associations/bodies in their area of specializations.

**Honours / Distinctions**

Bipin Kumar Tiwary received National Award for Empowerment of Persons with Disabilities under the Role Model Category by the Hon'ble President of India on 3 Dec., 2016.

N. Sukumar was awarded Ambedkar Chair in Central University of Tejpur, 2016.

Navnita Chadha Behera was appointed as *Co-Chair, Global South Task Force*, set up by International Studies Association Governing Council, 2017.

Navnita Chadha Behera was elected as First Co-Chair, for the ISA Section on 'South Asia in the World Politics,' created at International Studies Association Convention in March, 2016, and re-elected as the Co-Chair for the same section in 2017.

Navnita Chadha Behera was appointed Member, Long Range Planning Committee, International Studies Association, USA (2015-2017) & Member, Committee on the Status of Women, International Studies Association, USA (2014-2016).

**Publications**

Behera-Chadha, N. (2016). Agency, autonomy and compliance in (post-) conflict situations: Perspectives from



- Jammu and Kashmir, Cyprus and Bosnia and Herzegovina. Co-authored with Elena B. Stavrevska, Sumona DasGupta and Birte Vogel, In J. Peter Burgess, Oliver Richmond and Ranabir Samadhar, (Eds.), *Cultures of Governance and Peace: A Comparison of EU and Indian Theoretical and Policy Approaches* (pp. 88-112). Manchester University Press
- Behera-Chadha, N. (2016). Internal conflicts and governance: Understanding India's praxis. In Galvanek, Janel B., Hans J. Giessmann and Mir Mubashir (Eds.), *Norms and Premises of Peace Governance: Socio-Cultural Similarities and Differences in Europe and India. Berghof Occasional Paper No. 32*, Berlin: Berghof Foundation.
- Behera-Chadha, N. (2016). Knowledge production. Special Issue on Global IR and Regional Worlds, *International Studies Review*, March, 18(1), 1-3.
- Behera-Chadha, N. (2016). The Kashmir conflict: Multiple faultlines. *Journal of Asian Security and International Affairs*, 3(1), 41-63.
- Behera-Chadha, N. (2016). Mapping research and teaching trajectories: A critical turn in Indian IR. *International Relations*, June, 51(4), 133-151.
- Choudhary, S. K. (2016). (Ed.) *Political Science Glossary*, (p. 622). Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India..
- Choudhary, S. K. (2016). Pablo Neruda [1904-1973]: A literary political legend. *10th Pablo Neruda Lecture Booklet*, (pp. 2-3). Developing Countries Research Centre, University of Delhi,.
- Choudhary, S. K. and Nath, A. (2016). Some hits and many flops: A reality check of one year of AAP governance in Delhi, *The Indian Journal of Political Science*, LXXVII(2), April-June, 175-176.
- Chowdhory, N. (2016). Displacement – a 'state of exception' and beyond: Issues and perspectives in forced migration in south Asia. *International Journal of Migration and Border Studies*, 2(2).
- Giri, S. (2016). The happy incident of utopia. In Zizeck, Slavoj and Fredric Jameson (Eds.), *An American Utopia*. London: Verso.
- Giri, S. (2017). Parasitic anti colonialism. In Krecic, Jela (Ed), *The Final Countdown: Europe, Refugees and the Left*. Vienna: IRWIN and Wiener Festwochen.
- H.M, Kumar, S. and Raghuvanshi V.(2016). Cinematic construction of other: A case of performing Pakistan in Hindi cinema. In Perera, Sasanka and Dev N. Pathak (Eds.) *Performative Communications: Culture and Politics in South Asia*, London, Routledge.
- H.M., Kumar, S. (2016). Metonymies of fear: Islamophobia and the making of Muslim identity in Hindi Cinema, *Society and Culture in South Asia*, No. 2, 233-255.
- Kukreja, V. (2017). Dynamics of change and continuity in India's foreign policy under Narendra Modi's regime. In Singh, Shantesh Kumar (Ed.) *India's Foreign Policy: Continuity with difference under Modi Government*, New Delhi: Manak Publications, 1-17.
- Kukreja, V. (2016). The menace of narco power in Pakistan. *Indian Journal of Public Administration*, LXII (2), April-June.
- Ragi, S. K. (2016). Infiltration of illegal migrants and electoral politics in Assam, *Indian Journal of Public Administration*, Vol. LXII, July-Sept..
- Ragi, S. K. (2017). *Administrative Thinkers* (revised edition). Delhi, Trinity.
- Saxena, R. (2017). Multilayered governance in Delhi. In Roy, Himanshu and M.P. Singh (Eds.), *State Politics in India*. Delhi, Primus.
- Singh, S. P. (2017). Tilak's nationalism and Swaraj, In Roy, Himanshu and M.P. Singh (Eds.), *Indian Political Thought: Themes and Thinkers*, New Delhi: Pearson.
- Singh, S. P. (2016). Dr. Amedakar on nation and nationalism. *Organiser*, New Delhi, April.
- Sukumar, N. (2016). Goebbelsian doublespeak: B.R. Ambedkar and the RSS. *Mainstream*, VOL LIV, No 24, New Delhi, 4 June. Retrieved from <http://www.mainstreamweekly.net/article6458.html>
- Sukumar, N. (2016). Red Sun in the Blue sky: Rohith's utopian republic, *Social Change*, Council for Social Development, Vol. 46, No. 3, 451-457. New Delhi, Sage Publication,
- Tiwary, B. K., (2016). Samajik nyaya ki dharna aur mahila vidheyak, *Yojna*, Sept., pp. 33-34.

## Research Projects

R & D Grant, University of Delhi, *Non Traditional Security in India: Understanding Environmental Issues in Himalayan Region.*, Bipin K. Tiwary

ICSSR, *Education as a Site of Exclusion: A Study of Indian Universities.* N. Sukumar

ICSSR, on *The Politics of Autonomous Migration: A study of Indian Middle class Women.* Nasreen Chowdhory

R & D Grant, University of Delhi, *Gendered Dimension of Migration in India.* Nasreen Chowdhory

ICSSR, *Democracy, Norms and Institutions.* Navnita C. Behera

ICSSR, *Re-working the 'Knowledge Structures' in International Relations: Indian Contributions.* Navnita C. Behera

R & D Grant, University of Delhi, *Legal Pluralism and Indigenous Governance.* Rajesh Dev

ICSSR, *Rajya Sabha: From Secondary to Federal Chamber.* Rekha Saxena

R & D Grant, University of Delhi *Political Science Gendered Federalism: A Case Study of India.* Rekha Saxena worked on a research project on

ICSSR, *Social Psychology of marginalization and exclusion: A Case Study of Dom and Musahar community in Bihar.* Sangit K. Ragi (along with Prof. G.P. Thakur, CARDC)

R & D Grant, University of Delhi, *Decoding Muzzafarnagar Riots 2013: Role of State, Social Media and Political Parties.* Sangit K. Ragi

ICSSR, *Popular Imaginaries and Discourses on Politics in India: Exploring Cultural Narratives as Alternative Sites of Knowledge Construction.* Sanjeev Kumar H.M.

R & D Grant, University of Delhi, *Local Governments, Climate Change and Adaptation.* Satyajit Singh

R & D Grant, University of Delhi, *Pracheen Bhartiya Rajnitik Chintan Paramparaon ka Vishleshan.* Shri Prakash Singh

R & D Grant, University of Delhi, *Electoral Politics and Election Commission of India.* Ujjwal K. Singh

ICSSR, *Democratisation of State in South Asia.* Veena Kukreja

## Seminars / Conferences Organised

National Level:

One day Faculty Seminar on *Politics: Theory and Practices* was organised on 2 April, 2016.

Workshop on *Democracy and Minority Rights* was organised on 29 Aug. – 2 Sept., 2016.

A National Workshop on *Continuity and Change in Indian Federalism* as a part of Leverhume Project was organised by Prof. Rekha Saxena on 5-6 Dec., 2016.

A Panel discussion on *Warzone Tourism in Sri Lanka: Tales from Darker Places in Paradise* was organised in collaboration with the India International Centre and Sage (India) on 13 Jan., 2017.

*Ph.D Work-in-Progress Workshop* was organised on 20 Jan., 2017.

A Panel discussion on *The 'Idea of ASEAN'* was organised by the South East Asia Research Group (SEARG) on 2 Feb., 2017.

An ICSSR Sponsored National Seminar on *Reimagining South Asia: An Exploration into the History of Ideas* was organised by Prof. Sanjeev Kumar H.M. on 17-18 Feb., 2017.

Public Lecture by Prof. Akeel Bilgrami on *Gandhi and the Dissenting Tradition in the West* was organised by the Intellectual History Research Group (IHRG) on 23 Feb., 2017.

Public Lecture by Prof. Harsh V. Pan on *Changing Strategic Contours of the Indo-Pacific* was organised by the Southeast Asia Research Group (SEARG) on 9 March, 2017.

A National Workshop on *Feminist Engagements with Law and the State* was Organised by the Research Network on Feminist Engagements with Law and the State, Department of Political Science, University of Delhi on 29 March, 2017.

International Level:

N. Sukumar organised a Panel discussion on *Fractured Freedoms: Identities and Assertions from the Margins in Post-Colonial India*, at 24th European Conference on South Asian Studies, Warsaw, 27-30 July, 2016.

A Panel Discussion on *Changing Power Equations in the Asia-Pacific* was organised in collaboration with Institute of International Relations, University of Warsaw Organised by Prof. Navnita Chadha Behera on 7 Nov., 2016.

*Visit of International Delegation from Vietnam* was organised by the South East Asia Research Group (SEARG) on 16 Dec., 2016.

International Conference on *Continuity and Change in Indian Federalism* as a part of Leverhume Project in collaboration with South Asia Institute, University of Heidelberg and Forum of Federations Canada was organised by Prof. Rekha Saxena on 10-13 Jan., 2017.

An International Collaborative Networking and Research Workshop on *Security Problematiques: Knowledge Production and Praxis* with the University of Melbourne and University of Birmingham was organised by Prof. Navnita Chadha Behera on 13 Feb., 2017.

### **Seminar / Conference Presentation**

Ashok Acharya delivered Keynote Address on Do We Need a Metanarrative of Health for the Global South? at the International Congress of Bioethics, Edinburgh, 15-17 June, 2016.

Ashok Acharya, Presented Paper, Negotiating Difference/Disadvantage: Multicultural Citizenship and the Federal Compact, in International Conference on *Continuity and Change in Indian Federalism* organised by Leverhulme International Network of Universities of Edinburgh, Bristol and Nottingham (U.K.) and Universities of Burdwan, Delhi and Hyderabad (India), 10-13 Jan., 2017.

Bipin Tiwari delivered a Talk on Role of Science and Technology for Specially Abled Persons, Kalindi College, 28 Feb., 2017.

Bipin Tiwari presented a paper on Rights of Persons with Disability at the International workshop on *Law, Institutions and Political Philosophy* organised by the Department of Political Science, 22 Aug., 2016.

Madhulika Banerjee Presented Paper, Healers, Medicine, Power: Strategies of Legitimation for 'Ethnomedical' Practitioners in Udaipur, at a National Seminar on *Indigenous Healing Practices Among the Tribes: Challenges in Recognising and Mainstreaming* organised by the Centre of Social Medicine and Community Health, Jawaharlal Nehru University, 10-11 Feb., 2017.

Madhulika Banerjee Presented Paper, Decoding Rhetoric in India: Policy and Politics of 'Knowledge Society' and 'Make in India' at a National Seminar organised by Miranda House, University of Delhi, 24-25 Jan., 2017.

N. Sukumar, Presented Paper, Well-being, Poverty and Vulnerability, ICSSR and University of Lausanne, New Delhi in Indo-Swiss Joint Research Program in the Social Sciences, 1-2 Sept., 2016.

N. Sukumar, Panelist at a panel discussion on Higher Education and Social Justice, National Conference on Education in Contemporary India, Central Institute of Education, Delhi University, 22-24 Feb., 2017.

N. Sukumar, Presented Paper, Mapping the Memories of the Dispossessed, at the International Conference on History, Culture and Literature: Reading the Margins, Swami Shraddhanand College, Delhi University, 25-26 Feb., 2017.

N. Sukumar, Presented Paper, Linguistic Hegemony and the Language Discrimination in Higher Educational Institutions in India, (joint paper with Deepak Kumar), at the National Seminar on Student Diversity and Discrimination in Higher Education in India, National University of Educational Planning and Administration, Delhi, 27-28 Feb., 2017.

N. Sukumar, Presented Paper, The Margins and the Social History, at the National Seminar on Pluralism and the Crisis of Identity organised by Dr. Ambedkar Center for Social Justice & Centre for Promotion of Democracy & Secularism, University of Mumbai, 12-13 March, 2017.

Nasreen Chowdhory, Chaired a roundtable session on Displacement – a 'state of exception' and beyond: Issues and Perspectives in Forced Migration in South Asia, at the International Association for the Study of Forced Migration (IASFM) XVI held at the Adam Mickiewicz University, Poznan, Poland, 12-15 July, 2016.

Nasreen Chowdhory, Presented Paper, Making citizens from below: belonging and rights of refugees in camps in Tamil Nadu at International Conference on Migration and Citizenship(s), IAS, Shimla, India, 30 May – 1 June, 2016.

Nasreen Chowdhory, Presented Paper, Interrogating Camp and Refugees as the Place of Exception in Forced Migration Studies at the International Association for the Study of Forced Migration (IASFM) XVI held at the Adam Mickiewicz University, Poznan, Poland, 12-15 July, 2016.

Navnita Chadha Bahera, Chaired a Session on Federalism: Theoretical Assumptions, at the international seminar on Glocalization and Federal Governance in India: Understanding the Emerging Issues at Kalindi College, University of Delhi, 19-20 Jan., 2017.

Navnita Chadha Bahera, Roundtable Speaker as part of the ISA's Flagship Sapphire Series on Reforming Global Governance, at the 57<sup>th</sup> ISA Annual Convention on Understanding Change in World Politics, at Baltimore, USA, Feb., 2017.

Navnita Chadha Bahera, Panelist for Presidential Roundtable Discussion on Of Knowing and Changing the Idea of the International, at the 57<sup>th</sup> ISA Annual Convention, Feb., 2017.

Navnita Chadha Bahera, Panelist for Presidential Roundtable Discussion on Global IR and Pathways for Change in IR Theory, at the 57<sup>th</sup> ISA Annual Convention, Feb., 2017.

Navnita Chadha Bahera, Presented Paper, What has 'Dharma' Got to do with IR Theorizing, at a panel on Comparative Philosophical Traditions and IR Theorizing at the 57<sup>th</sup> ISA Annual Convention, Feb., 2017.

Navnita Chadha Bahera, Panelist for a Roundtable Discussion on Rethinking IR in South Asia, at the 57<sup>th</sup> ISA Annual Convention, Feb., 2017.

Navnita Chadha Bahera, Chaired a Presidential Panel Discussion on Re-Making the State: The Churning within South Asia, at the 57<sup>th</sup> ISA Annual Convention, Feb., 2017.

Rekha Saxena hosted the final Conference of the Leverhulme International project at Delhi University and presented papers on Judicial Federalism and Rajya Sabha as a federal second chamber (co-authored) held on 10-13 Jan., 2017.

Rekha Saxena, Presented Paper on Linguistic Federalism A case of Punjab at National Consultation on Punjab In Comparative Perspective: Politics and Economy Research Promotion Cell (RPC), Panjab University, Chandigarh in collaboration with Institute for Development and Communication (IDC), Chandigarh, 17-18 March, 2017.

Sangit K. Ragi, Presented Paper, Goa after Statehood (co-authored) in International Conference on Continuity and Change in Indian Federalism organised by Leverhulme International Network of Universities of Edinburgh, Bristol and Nottingham (U.K.) and Universities of Burdwan, Delhi and Hyderabad (India), 10-13 Jan., 2017.

Satyajit Singh, Presented Paper, Reforming NGO Affairs Bureau at *UNDP-Government of Bangladesh*, Dhaka, 4 Dec., 2016

Shanta Varma, Presented Paper, Climate Change and India: Profiling the Challenges and Responses, at the seminar held in the Department of Political Science, University of Calicut, Kerala, 21 July, 2016.

Shanta Varma, Presented Paper, Dynamics of the India US Partnership: A Profile, at UGC Human Resource Development Centre, New Delhi, 19 Sept., 2016.

Shanta Varma, Presented Paper, India's Environmental Ethos and Movements, at the *UGC, HRDC, JNU* for IDC - Environmental Studies, 22 Sept., 2016.

Shanta Varma, Chaired a panel on Global Change: Emerging Challenges for India, Developing Countries Research Centre, University of Delhi, 11 Nov., 2016.

Shanta Varma, Presented Paper, The Silent Valley Success: the State and the People, at the Leverhulme International Research Network Project Seminar on Continuity and Change in Indian Federalism, University of Delhi, 5 Dec., 2016.

Shanta Varma, Lecture on Media and Foreign Policy for Development Journalism Course organised by *Ministry of External Affairs for foreign mid-career journalists and communication professionals* under the ITEC and SCAAP programmes. Special Invitee at Indian Institute of Mass Communication. IIMC, New Delhi, 10 Feb., 2017.

Shanta Varma, Presented Paper, Ethics and Socio-Behavioural Research: Some International Dimensions at National Consultative Meet of *Institutional Ethics Review Board (IERB)* for ICMR, Draft National Ethical Guidelines for Research in Science and Social Sciences. JNU, 15 Feb., 2017.

Shanta Varma, Chaired a session in International Conference on *South Asia in Global Perspectives: Issues and Challenges*, Developing Countries Research Centre and ICSSR, University of Delhi, 17 Feb., 2017.

Shanta Varma, Presented Paper, India US engagement and the Trump Dialect, at the seminar on *India in a Globalised World* at Dayal Singh College, New Delhi, 30 March, 2017.

Shri Prakash Singh, Valedictory Address on Ancient India and Soft Power, at the National Seminar on *Soft Power* organised by the Central University of Jharkhand, 12 April, 2016.

Shri Prakash Singh, Valedictory Address on Dr. Ambedkar Memorial Lecture, at Dr. Hari Singh Gour Centrality University, Sagar, Madhya Pradesh, 14 April, 2016.

Shri Prakash Singh, Valedictory Address on Dr. B.R. Ambedkar 10th Memorial Lecture, organised by Dr. B. R. Ambedkar College, University of Delhi, 16 April, 2016.

Shri Prakash Singh, Key Note Address, Lal Bahadur Shastri Memorial Lecturer organised by Nehru Memorial Museum and Library, Teen Murti and Lal Bahadur Smriti Nyas, New Delhi, 3 Oct., 2016.

Shri Prakash Singh, Valedictory Address on Modi Doctrine organised by Shaheed Bhagat Singh College, University of Delhi at JNU, New Delhi, 25 Oct., 2016.

Shri Prakash Singh, Lecture on Pt. Deen Dayal Upadhyaya's Economic philosophy at Indian Institute of Public Administration New Delhi organised by Department of Political Science, CCU, Meerut, UP, 19 Nov., 2016.

Shri Prakash Singh, Presented Paper on Concept of Rashtra and Nationalism in India at Gandhi Smriti and Darshan, New Delhi, organised by Mahatma Gandhi Anterrashtriya Hindi, Vishwavidyalya Wardha, 25 Nov., 2016.

Shri Prakash Singh, Key Note Address on Federalism and article 356 and its Impact on Indian Politics, Book release function, Department of Political Science, University of Delhi, Delhi, 30 Nov., 2016.

Shri Prakash Singh, Key Note Address on Research Methodology sponsored by UGC at G N D Khalsa College, New Delhi, 13 Jan., 2017.

Shri Prakash Singh, Valedictory Address on Research Methodology in Ancient Indian Literature, Vansthali University, Rajasthan, 21 Jan., 2017.

Shri Prakash Singh, Keynote Address, on Pandit Deen Dayal Upadhyaya organised by *India Foundation and Young Thinkers Chennai*, Chennai, 11 Feb., 2017.

Shri Prakash Singh, Keynote Address on *Research Methodology of Social Sciences*, Dept. of Political Science, BHU/ICSSR, Varanasi, Uttar Pradesh, 1 March, 2017.

Shri Prakash Singh, Valedictory Address on Status of Political Thought in South Asia, Amity University/ICSSR, Noida, Uttar Pradesh, 29 March, 2017.

Sunil K. Choudhary, Presented Paper, Integrating the 'Marginals': Comparing Israel and India, at *24th World Congress of International Political Science Association, Poznan, Poland*, 27 July, 2016.

Sunil K. Choudhary, Presented Paper, Diaspora: Changing Nature, at the National Seminar on *Indian Democracy at Crossroads: Issues and Challenges*, Satyawati College, University of Delhi, 22 March, 2017.

Veena Kukreja, Presented Paper, Dynamics of Change and Continuity in India's Foreign Policy under Narendra Modi's Regime in National Seminar on *Changing Dynamics of India's Foreign Policy under Modi's Regime* organised by Department of Political Science, Shaheed Bhagat Singh College, University of Delhi, 24-25 Oct., 2016.

### **Inter-Institutional Collaboration**

Ashok Acharya, UKIERI Project (2013-16): Nyaya: The Global Justice Project with Yale University, University of Birmingham and the International Development Ethics Association (IDEA).

Madhulika Banerjee, Knowledge, Development and Politics in Post-Colonial India: Contestations in State, Market and Civil Society with ICSSR Partners in collaboration with Institute of Rural Management, Anand, Azim Premji University and South Asian Network for Dams, Rivers and People.

Navnita C. Behera and Dr. Nasreen Chowdhory, U-21 (Universitas -21) for special module as part of the Masters Program with University of Melbourne, Australia and University of Birmingham, UK.

Navnita C. Behera, Teaching, Research and International Project (TRIP) Survey with College of William and Mary, USA.

Rekha Saxena, Continuity and Change in Indian Federalism with Leverhulme Trust, Leverhulme International Research Network in Collaboration with three European Universities: Nottingham University, Edinburgh University and Bristol University and three Indian universities: University of Delhi, University of Burdwan and University of Hyderabad.

#### **M.Phil. / Ph. D. Awarded**

Ph.D – 11

M. Phil. – 15

#### **Faculty Strength**

Permanent – 19

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## **SOCIAL WORK**

### **Major Activities and Achievements**

The Department continues to enjoy the exalted status of a UGC Centre of Advanced Studies. The Department achieved 97% success on campus placements in the last academic session. The rest of the students opted to go for higher academic courses and hence did not appear for campus placements. The Department is proud to host the Community Development Cell for the University of Delhi, which is an initiative started in accordance with the recommendations made by the Honourable President of India. Under this initiative, five villages requiring community development initiatives have been chosen and adopted by the Community Development Cell. The Department also continues to spearhead the work of the Unnat Bharat Abhiyan Initiative for the University of Delhi. A team of ten students and four faculty members undertook need based, planned and sustainable community initiatives in five communities in Delhi. Five Days Capacity Building Training Programme for SC/ST/OBC Youth was organised in collaboration with Rajeev Gandhi National Institute of Youth Development (RGNIYD) Tamil Nadu. Guest Lectures were also organised on different themes under the aegis of the Research Colloquium. The Department Organised celebrations for the International Women's Day' on 8 March, 2017 at Ajit Vihar, Burari, under the Centre for Community Development and Action, the Extension and Demonstration Unit of the Department of Social Work, University of Delhi.

### **Honours / Distinctions**

Department maintains 2<sup>nd</sup> Rank in the best Social Work Institutes in India as per the Outlook survey 2017.

Department holds the first position in two most important parameters viz. Academic Achievement and Placements.

Prof. V. K. R. V. Rao Memorial Life Time Achievement Award 2017, conferred to Prof. Sanjai Bhatt on 10 Feb., 2017 by Indian Social Science Association.

### **Publications**

Agnimitra, N. (2016). Disaster management and social work education: Praxis of learning and practice. *Journal of Social Work Education, Research and Action*, Vol. 2, (2), May-Aug. 2016.

Anand, M. (2016). Women's reproductive rights and social work practice. *Amity Global Social Work Review*, 1(1), Amity Institute of Social Sciences, Co-authored.

- Anand, M. (2016). The changing face of healthcare in India: Challenges to social work practice. *Contemporary Social Work Year 4*, Issue 2, Department of Social Work, Lucknow University, Co-authored.
- Anand, M. (2016). Gendered aspects of mental health: Issues and strategies. In Sheema Aleem and Naved Iqbal (Eds.), *Positive Vistas on Health and Well-being*. Excel India Publishers.
- Behera, P. C. (2016). Livelihood crisis in the scheduled areas in Odisha: Relevance of PESA in a weak State. In Nupur Tiwari (Ed.), *Tribal Self-Governance: PESA and Its Implementation*, New Delhi: Indian Institute of Public Administration, Rawat Publications.
- Bhat, I. & Maske, S. (2017). Anti-oppressive social work theory and practice: Contextualizing the caste debate in Indian social work education. In R. Jare and S. Kale (Eds.), *Caste in Modern India: Atrocities against Dalits* Stadium Press LLC, USAP.O. Box 722 200, Houston, TX-77072.
- Bhatt, S. (2016). Social work education in India, *Journal of Social Work Education, Research and Action*, 2(1).
- Bhatt, S. (2016). Youth volunteerism in managing disasters: Learning through action. In Chaya Patel (Ed.), *Social Development in India: Critical Assessment*, Rawat Publications.
- Bhatt, S. (2016). Social work education in India. In *Travail social autour du monde* by Julien Boyé et Yohan Barata, Paris: chroniquesociale.com.
- Dev, S. R. (2016). Rural health care infrastructure in India. *Kurukhetra*, GOI, 65(2), 23-27. Dec.
- Dev, S. R. (2016). Health and safety of differently abled: Integrated strategies. *Yojana*, GOI, 60, 48-53, May.
- Dev, S. R. (2016). Social marginalisation and health inequality: An assessment of status of child nutrition in Gujarat, National Refereed Journal, *Recent Researches in Social Sciences and Humanities*, 8-16, May.
- Kaushik, A. (2016). Use of self in social work: Rhetoric or reality. To be published in *Journal of Social Work Values and Ethics*, Spring 2017, 14, No.1, Association of Social Work Boards, USA.
- Kaushik, A. (2016). Love and intimacy as vulnerability to HIV infection: A case study of MSM. *Social Work Chronicle*, 5, Issue 1, 1-25.
- Kaushik, A. (2016). Elder abuse: A review of literature. *Helpage India Research & Development Journal*, 22, No.2, May.
- Kaushik, A. (2016). Banarasi saree weaving sector of Varanasi – A study of the working conditions of the unorganised workers, co-author, Kumar Satyam, *Academia: 1*, No.1.
- Kaushik, A. (2016). Labour bondage: An ignored reality of India, 50Mn people trapped in slavery. *Different Truths*, an online journal. Retrieved from <http://differenttruths.com/human-rights/subaltern-dalits/labour-bondage-an-ignored-reality-of-india-50mn-people-trapped-in-slavery/>
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- S. Maske (2016). *Sairat Vawa Ji*, an Article in Marathi language written on popular Marathi movie Sairat, Directed by Nagarj Manjule, published in Loksahisathi Samanjasya Sanwad ( Marathi) Ed. Mr. Arun Khore, Year-2, June-2016, Vol.6 pp. 24-28.
- S. Maske & A. Sebastian (2016). Social pedagogy: Contextualizing in social work practice in rural setting of India. In Dr. S. Roy and Dr. B.M Das (Eds.), *Field Work in Social Work Education: Contemporary Practices and Perspectives* (pp 65-80). New Delhi: Atlantic Publication.

### **Research Projects**

- Sustainable Development of Mountain Communities: A Participatory Approach Enhancing Livelihoods, Food Security and Capacity Development for Disaster Preparedness and Response*. Sponsored by ICSSR, New Delhi. Amount: Rs. 49,93,500.00; Year 2016.
- Poverty Reduction Measurement through CBR Interventions: A Base line Study*, Sponsored by CBM India Trust. Amount: Rs. 6,30,000.00; Year 2016.
- Socio-economic study of JFP Kala*, Sponsored by BSES Rajdhani Power Ltd. Amount: Rs. 7,48,000.00; Year 2016.
- Targeted Intervention with -FSW/ICTC) and other activities*, Sponsored by Delhi State AIDS Control Society. Amount: Rs. 8,71,248.00; Year 2016.
- Survey of Toilets constructed by HPCL in five states*. Sponsored by HPCL, Amount: Rs. 19,65,000.00; Year 2016.
- Training programme of DSWB, Sponsored by Delhi State Welfare Board, Amount: Rs. 2,87,000.00; Year 2016.
- Enhancing Educational and Vocational aspirations among Scheduled Castes and Scheduled Tribe students: An Action Research*. Sponsored by ICSSR, Amount: Rs. 8,00,000.00; Year 2017.

### **Seminars Organised**

- Five days Capacity Building Training Programme for SC-ST, OBC Youths at Department of Social Work, University of Delhi sponsored by Rajeev Gandhi National Institute of Youth Development (RGNIYD) Tamil Nadu, 27 to 31 Jan., 2017.



Gender sensitization training workshops in police stations and colleges in collaboration with Special Police Unit for Women and Children (SPUWC) and AHAD Society for Welfare and Development.

### **Seminar / Conferences Presentation**

Abhishek Thakur presented paper on, Understanding the Personality Development Barriers of Visually Impaired Female Students in the Indian Higher Education System at The International Consortium for Social Development organised by Department of Sociology, University of Peradeniya, Srilanka, 29 Sept., 2016.

Archana Kaushik presented a paper on Empowering the oppressed Dalit Communities in Varanasi: A Case from India at International Conference on Emerging Challenges for Social Development and Human Services Practice in the Asia Pacific Region held at Bali, Indonesia, 17 - 19 June, 2016.

Archana Kaushik presented a paper on Addressing Vulnerabilities among the elderly through social supports at International Conference on Emerging Challenges for Social Development and Human Services Practice in the Asia Pacific Region held at Bali, Indonesia, 17 - 19 June, 2016.

Chinmayi Sarma presented a paper at National Conference on Indian Economy: Contemporary Issues and Challenges organised by Department of Business Economics, University of Delhi, 28 Feb., 2017.

Meenu Anand, Presented Paper, Mutilated Bodies and Subjugated Minds: Understanding the Culture of Domestic Violence in the UGC SAP National Seminar on Emerging Forms of Vulnerabilities: Dialogues, Discourses and Debates organised by Department of Psychology, University of Delhi, 9 - 10 March, 2017.

Meenu Anand, Presented Paper, Right to Mental Health: A Feminist Perspective in the UGC SAP DRS-1 National Seminar on Rights-Based Development and Good Governance Practices in India organised by Department of Political Science, Jamia Millia Islamia, 1 - 2 March, 2017.

Meenu Anand, Presented Paper, Women's Reproductive Rights and Social Work Practice in the National Social Work Conference- 2017 on New Dimensions and Challenges of Social Work: The Road Map Ahead organised by Amity University in association with Uttar Pradesh Association of Professional Social Workers, supported by Ministry of Health and Family Welfare, 31 Jan., 2017.

Meenu Anand, Presented Paper, Field Work in the 21 Century: The Changing Paradigm in the National Seminar on Celebrating Anthropology: The Human Science organised by Department of Anthropology, 22 - 23 April, 2016.

Meenu Anand, Presented Paper, Gendered Aspects of Mental Health: Issues and Strategies in the International Conference on Psycho Social Perspective of Health and Well Being Organised by Department of Psychology (UGC DRS), Jamia Millia Islamia from 1 - 2 March, 2016.

Meenu Anand, Neena Pandey presented Joint paper with Nidhi Kataria on Surrogacy Faces the Surrogate Treatment: A Contestable Proposition to Achieve in National Seminar organised by University Five Year Law College (FYLC), 17 Sept., 2016.

Meenu Anand, Neena Pandey presented a paper on Surrogacy: Practice or Politics? in the 4th Indian Social Work Congress organised by National Association of Professional Social Workers in India (NAPSWI) & Department of Social Work, Mahatma Gandhi Kashi Vidyapeeth, Varanasi, UP, 22 - 24 Oct., 2016.

Neera Agnimitra, Presented Paper, Social Development and Social Work Profession: Issues and Challenges at 4<sup>th</sup> Indian Social Work Congress, Department of Social Work, Mahatma Gandhi Kashi Vidyapeeth, Varanasi, Uttar Pradesh, 23 - 24 Oct., 2016.

Neera Agnimitra, Presented Paper, Disaster Management and Social Work Education: Praxis of Learning and Practice, at the TIEMS Workshop on Higher Education in Disaster Management: Opportunities & Challenges, NIDM, MHA, Govt. of India in collaboration with TIEMS, 10 Feb., 2017.

Neera Agnimitra, Presentation cum Discussion Session for the deliverables developed under Post Disaster Needs Assessment (PDNA) Study, NCRMP-NIDM, MHA, Govt. of India, 17 March, 2016.

Pamela Singh, Presented Paper, Women and Political Participation: Available Frameworks and Research Findings at National seminar on Gender Equality and Empowerment of Women and Girls, organised by Centre for Gender Studies and Development, NIRDPR, Hyderabad, 27 Feb. – 1 March, 2017.

Pamela Singh, Presented Paper, Voices of the Poor: Lessons for Policy Makers in International Conference on Decentralization, Poverty and Marginalization Organised by KILA, Thrissur, Kerala, 19 - 22 Nov., 2016.

Pamela Singh, Presented Paper, Decentralization and Field at International Conference on Decentralization, Poverty and Marginalization Organised by KILA, Thrissur, Kerala, 19 - 22 Nov., 2016.

Pamela Singh, Presented Paper, Creating Enabling Environment in Colleges in conference on Engaging Men and Boys in Fighting Violence organised by Center for Social Research and Asia Foundation, India Habitat Center, New Delhi, 10 July, 2016.

Pamela Singh, Presented Paper, Engaging Men and Boys in Advocacy against Domestic Violence at National round table consultation on the Status of PWDVA, 2005 Organised by Centre for Social Research and The Asia Foundation, India Habitat Centre, 31 Jan., 2017.

Pamela Singh, Discussant for the session on Gender and Migration at National seminar on Gender Equality and Empowerment of Women and Girls organised by Centre for Gender Studies and Development, NIRDPR, Hyderabad, 27 March, 2017.

Pratap Chandra Behra presented a paper on Slum as a Field and Fieldwork as a Method: Perspectives on Everyday Life in a Slum in Delhi Dialectics of the Field: Perspectives on Field Work in a Slum in Delhi at National Seminar on Negotiating Fieldwork: Unfolding of Institutional Practices and Contemporary Challenges organised by Indian Anthropological Association, Department of Anthropology, University of Delhi.

Pratap Chandra Behra presented a paper on Dialectics of the Field: Perspectives on Field Work in a Slum in Delhi at 4<sup>th</sup> Indian Social Work Congress, 2016 organised by National Association of Professional Social Workers in India (NAPSWI) and Mahatma Gandhi Kashi Vidyapith, Varanasi.

Pushpanjali Jha presented a paper on Protests as Everyday Practices: An Exploration of Protests at Jantar Mantar at the National Seminar on Negotiating field Work: Unfolding of Institutional Practices and Contemporary Challenges.

Sanjay Bhatt, Key Note Speech in the seminar entitled Social Mobilization and National Integration: Role of Civil Society & Media held in the Department of Social Work, CSJM University, Kanpur, UP, 21 Jan., 2016.

Sanjay Bhatt, Plenary Speaker on Promotion of Sustainable Livelihood in 5th International Conference on Building Community Resilience for Sustainable Development, CSRD Institute of Social Work, Ahmad Nagar, 20 Feb., 2016.

Sanjay Bhatt, Valedictory Address in 5th International Conference on Building Community Resilience for Sustainable Development, CSRD Institute of Social Work, Ahmad Nagar, 21 Feb., 2016.

Sanjay Bhatt, Inaugural Address at International Conference on Emerging Challenges for Social Development and Human Services Practice in the Asia Pacific Region Organised by MASWE in collaboration with Brisbane Institute of Strengths Based Practice, Australia held at Bali, Indonesia, 17 - 19 June, 2016.

Sanjay Bhatt, Key note Address in National Conference on Social Work Education in India Perspectives and Challenges in Golden jubilee Year celebration of Roda Mistry College of Social Work and Research Centre, Hyderabad, 18 Nov., 2016.

Sanjay Bhatt, Valedictory Address in the National seminar on Social Work Profession and Philosophy of Social Justice at Department of Social Work, Kashi Vidyapeeth, Varanasi, 9 Feb., 2016.

Sanjay Bhatt, Invited Talk on Missing Links between Social Work Education and Practice in International Conference on Social Work Education and Practice Organised by The Department of Social Work (UGC Centre of Advanced Study), Faculty of Social Sciences, Jamia Millia Islamia, New Delhi, 20 - 22 Feb., 2017.

Sanjay Bhatt, Inaugural Address on Social Work Practices in Health Care: Advance Approaches & Emerging Trends in 4th National Seminar of All India Association of Medical Social Work Professionals held at King George's Medical University, Lucknow, Uttar Pradesh Organised by Association of Medical and Psychiatric Social Work Professionals, Uttar Pradesh, 28 Jan., 2017.

Sanjay Bhatt, Inaugural address on New Dimensions and Challenges of Social Work: The Road Map Ahead in National Social Work Conference organised by Amity Institute of Social Sciences, Amity University; Uttar Pradesh, India in association UPAPSW, 31 Jan., 2017.

Seema Sharma presented a paper on Structural Change Vs Welfare: Challenge before the Profession in International Conference on Social Work education and Practice organised by Department of Social Work, Jamia Millia Islamia, Delhi, 20 - 22 Feb., 2017.

Shashi Rani Dev presented a paper on Mental Health and Care giving: An exploration of the Areas of Social Work Intervention at Indian Social Work Congress (ISWC), 22 - 23 Oct., 2016.

Sudhir Maske presented joint paper on Creativity and Innovations in Social Work Education: Missing Boat and sporadic efforts? in 4<sup>th</sup> Indian Social Work Congress 2016 jointly Organised by National Association of Professional Social Workers in India (NAPSWI) and Mahatma Gandhi Kashi Vidyapith Varanasi, 22 - 24 Oct., 2016.

Sudhir Maske presented joint paper on Rural Education Camp: A Wisdom Based Learning Pedagogy to Lead Social Transformation: A Case Study of Manpura Village, Kishangarh, Rajasthan In 34<sup>th</sup> National Conference on Social Work and Sustainable Development Organised by Department of Social Work, Central University of Rajasthan & IPSW, Bangalore, 24 - 26 Feb., 2016.

Surendra Verma presented a paper on Decentralization in Local Governance: A Dream of Reality? in International Conference on Decentralization, Poverty and Marginalization organised by Kerala Institute of Local Administration, Thrissur, Kerala, 19 - 22 Nov., 2016.

Surendra Verma presented a paper on Manual Scavenging: An Unfinished Innings of Government Policies at the International Conference on Socio-Economic Justice after Seventy Years of India's Independence: Domestic and Global Challenges Organised by Faculty of Law, University of Delhi, Delhi, 18 - 20 Nov., 2016.

#### **Editors / Members of Editorial Boards**

Archana Kaushik is Editorial Board Member, *Social Work Chronicle*.

Manoj K Jha is Editorial Board Member, Assam Kaziranga University, *National Journal of Social Science Research*.

Neera Agnimitra:

Editorial Board Member of Journal *Environment and Social Psychology*, A Journal published by Whioce Publishing, Singapore.

Editorial Board Member, *CJMR Journal of Management Research*, A Journal of Dr. Vikhe Patil Foundation Centre for Management Research and Development, Pune.

Academic Advisor, *Learning Community* (International Journal of Educational and Social Development), New Delhi.

Pamela Singla is Member, Editorial Board, *International Journal of Humanities and Social Sciences*.

Sanjai Bhatt:

Managing Editor, *Journal of Social work Education, Research and Practice*, published by NAPSWI.

Member, Editorial Board, *New Horizons in University education- a Journal of Development and Social Justice*, published from CSRD, Ahmednagar.

Member Review Board, *Socio Economic Perspectives- A Quarterly Referred Journal*, Lucknow.

Member Advisory Board, *Social Work Chronicle*, New Delhi.

Member, Advisory Board, *The Indian Journal of Social Work & Social Sciences*, MSS Institute of Social Work, Nagpur.

Editorial Board Member, Journal '*Environment and Social Psychology*' Whioce Publishing Pte Ltd. Singapore.

Sanjoy Roy:

Member, Editorial Board, *Learning Community-An International Journal of Education and Social Development*.

Member, Editorial Board, *Doctrine*, published from Research Academy, UP.

Editorial Board Member, Journal, '*SAMAJ BODH*' ISSN: 2231-0207, Lucknow.

Member, Advisory Board in VVJ, Xavier Institute of Management, Jabalpur (XIMJ).

International Advisory Board Member, *Encyclopedia of Social Work*, NASW, USA.

Associate Editor of the *International Journal of Religion and Spirituality in Society*, USA.

Sudhir Keshav Maske is Editorial Board Member, *Indian Journal of Sustainable Development* (IJSJ) published by Department of Social Work, Central University of Rajasthan and Publishing India Group, Delhi.

Sushma Batra is Member, Advisory Board, *Disabilities and Impairments, An interdisciplinary Research Journal* published by Akshat Publications (Delhi).

Sushma Batra is Member, Editorial Board, *Indian Journal of Women Studies*, Aligappa University.

### **Inter-Institutional Collaboration**

The Department has national and international collaboration with premier Social Work Institutions, such as TISS, Mumbai and its other branches; Department of Social Work, Jamia Millia Islamia, Delhi; Aligarh Muslim University; M.S. University, Baroda; National Institute of Rural Development, Hyderabad; Central University of Rajasthan, among others.

The Department has a vibrant partnership with about 100 governmental and non- governmental organisations for its Concurrent and Block Field Work programmes.

The Department is also a research partner for many governmental and non- governmental organisations, the details of which have been provided in the above sections.

### **Placement Details**

Students Placed – 65 (97%)

Companies / NGOs visiting campus for recruitment – 34

### **Extension and Outreach Activities**

Centre for Community Development and Action (CCDA) is functioning in the premises of Department of Social Work, University of Delhi to provide diagnostic, treatment and referral services to emotionally disturbed and socially deprived children, adolescents and to their families.

Under the Community Development Cell (CDC), the Department has adopted five villages requiring community development initiatives under the programmes under the aegis of the President of India. It continued to work for the second year under the programme.

Work under the Unnat Bharat Abhiyan initiative for the University of Delhi is also spearheaded by the Department. Need based and participatory community development initiatives were organised by the students and faculty of the Department over the year.

Centre for Child and Adolescent Wellbeing (CCAW) offers diagnostic service and assistance to children and programmes of adolescent wellbeing.

The Department continuously provide technical guidance and management skills to non-governmental organisations in disability and rehabilitation, gender work, ecology and disaster management, community participation, elderly care and CSR, among other fields of social work practice.

The Department also collaborates with national and international professional organizations for growth and development of Professional Social Work.

### **M.Phil. / Ph. D. Awarded**

Ph.D – 7

M.Phil – 14

### **Faculty Strength**

Permanent – 18

Ad-hoc. – 2

Guest – 5

### **Other Significant Information**

The Department has emerged as an institution which has forged close linkages with diverse civil society organisations, government organisations/ministries/departments, as well as with peoples' movements and citizen's groups across India. It has not only been able to develop a strong network with them, but also enjoys a meaningful reciprocal and functional relationship with them. It is in this background that the Department plans to Emerge as a Resource Centre for upcoming Schools of Social Work in helping them achieve standardization and uniformity in the curriculum and pedagogy.

Aims to become a lead institution by establishing three new centres: Centre for Community Engagement and Development Practice (CCED), Centre for Differently abled and Older Persons (CDPO) and Centre for Corporate Social Responsibility (CCSR).

In recognition of the Department's contribution to higher academic research and research excellence, the University Grants Commission (UGC) had sanctioned the Department of Social Work, University of Delhi as a Centre of Advanced Study (CAS) in Social Work.

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## **SOCIOLOGY**

### **Major Activities and Achievements**

The year 2016-17 was filled with exciting academic activities throughout the year. The Department held four workshops, two of which were focused on the Undergraduate courses being offered in the University. More than twenty research colloquia, a long standing tradition of the Department, were held this year. There were, in addition, ten pre-PhD submission seminars and the research scholars of the department also participated enthusiastically in the Research Scholars workshop. Professor Andre Beteille, Professor Emeritus, received the Delhi University award for his services as a teacher in the Department. This is the second consecutive year that a retired member of the faculty has been felicitated. The faculty had a productive time with their research projects, publications, presentations and of course regular teaching and tutorials. There were two visiting fellows in the Department. The Department day held in March 2017 was a lively event, made all the more exciting with the students taking the initiative to cook for everyone.

### **Honours / Distinctions**

Rita Brara was a Carson Fellow at the Rachel Carson Center for the Study of Environment and Society at Munich, Germany for three months.

Nandini Sundar was awarded the Ester Boserup Prize of 2016.

### **Publications**

Abraham, J. (2016). Que vont dire les voisins?: Légitimité, contrôle social et influence socioculturelle des voisins en Inde (in French). *Diogenes*, 251-2, 176-192.

Abraham, J. (2017). Hindu and Muslim veiling in North India: Beyond the public/private dichotomy. In Anna-Mari Almila and David Inglis (Eds.), *The Routledge International Handbook to Veils and Veiling Practices*. Ed.. London and New York: Routledge.

Abraham, J. (2017). Academic appraisal. In Babu Zachariah (Ed.), *The Best of Thiruvalla: Towards Modernity and Beyond*, Thiruvalla, CSS.

Agrawal, A. (2017). Changing cultures of photography: Visualising visual access/excess in tourist places. Photo essay in *Society and Culture in South Asia*, 3 (1), 92-100.

Aphun, K. and Sharma, J. P. (2016). Accumulation of capital and post-colonial discourse: Locating the margins, *International Journal of Indigenous and Marginal Affairs*, 2 (1&2), pp. 21-33.

- Aphun, K. and Sharma, J. P. (2017). Primitive accumulations at the margins: commodification of land and labour in Chhattisgarh., *Economic and Political Weekly*, 52 (28).
- Arif, Y. (2016). *Life, Emergent. The Social in the Afterlives of Violence*. Minneapolis: University of Minnesota Press.
- Arif, Y. (2016). Anthropologizing the World and worlding the Anthropologist. *American Anthropologist*, 118 (4), 848-851.
- Chatterji, R. (2016). Scripting the folk: History, folklore and the imagination of place in Bengal. *Annual Review of Anthropology*, 45, 377-94.
- Chopra, R. (2016). Habitus of trust: Servitude in colonial India. In Vigdis Broch-Due and Margit Ystanes (Eds.), *Trusting and its Tribulations*, (pp. 213-234). New York and Oxford : Berghahn Books.
- Chopra, R. (2017). Seeing off the dead: Post-mortem photographs, in the Darbar Sahib. *Sikh formations: Religion, culture, theory*, 12 (2-3), 207-222.
- Deshpande, S. (2016). Higher education: An uncertain policy process. *Economic and Political Weekly*, 51(35), pp. 37-40.
- Deshpande, S. (2016). *Vishvadrishhti, Vishvavidyalay aur Rashtra*, What the nation really needs to know In . R. Azad, J. Nair, M. Singh and M. Sinha-Roy, (Eds.), *The JNU nationalism Lectures*, (pp. 270-80). New Delhi: Harper Collins.
- Patel, T. (2016). New Faces of the Indian Family in the 21st Century: Some Explorations, *Indian Journal of Social Work*, 77 (4), 361-386.
- Palriwala, R. and E. Hill (2017). India: Economic inequality and social reproduction. In Baird, M., M. Ford, and E. Hill, (Eds.), *Women, Work and Care in the Asia-Pacific*, New York and London: Routledge.
- Singh, S. B. (2016). Living Together Separately: Dalits in an emerging collectivity in a Rajasthan village, *Economic and political weekly*, 51(33), pp. 65-72.
- Singh, S. B. (2017). Challenges in Agriculture: Some reflections from a micro-study In Thakur, B.et. al. (Eds.) *Regional Development: Theory and Practice*, 5, (pp. 17-35).
- Sundar, N. (2016). *The Burning Forest: India's War in Bastar*, Juggernaut Press, Delhi.
- Sundar, N. (2016). Inequality and social mobility in post-reform India. Special Issue, *Contemporary South Asia*, 24 (3).
- Sundar, N. (2016). Snakes and Ladders: Rethinking social mobility in post reform India. (Introduction), *Contemporary South Asia*, 24 (3).
- Vasan, S. (2017). Being Ladakhi, Being Indian: Identity formation, culture and community. *Economic and Political Weekly*, 52(14), 43-49.

### **Research Projects**

- Abhijit Dasgupta worked on a research project on *Affirmative Action and Muslim Dalits in Bengal*, University of Delhi, R&D grant Rs. 1.3 Lakhs.
- Anuja Agrawal worked on a research project on *Arya Samaj and Marriage*. R&D grant Rs. 40,000/- e University of Delhi for the period Nov. 2015 to Oct. 2016.
- Radhika Chopra is P.I., University of Delhi and University of Bergen Research Project *Indian Cosmopolitan Alternatives: Ritual Intersections and the Proscription of Religious Offense*. This project started in 2014 and is ongoing. Euro: 34700/- (INR 2637200/-)
- Rajni Palriwala was a Consultant/Technical Advisory Committee Member for a University of Portsmouth, ICRW and IMC Project on *Violence against women and girls as an unintended outcome of women's economic empowerment: understanding new gender dynamics within the domestic, public and work spaces*. Funded by DIFD, Jan., 2016-March, 2017.

Rajni Palriwala has been involved in a project on *Transformations in Everyday Life and Gender: Life Histories of elder women in India*. This project is in collaboration with Kyoto University, Miyagi-gakuin University, Sendai, Niigata International University, Niigata, and Shibaura Institute of Technology, Tokyo and was for the period 2013-16.

Roma Chatterji has been working on a project on *Words and Images: Intermedial Translations in Narrative Traditions*. She received a grant of Rs 2.8 Lakhs from the India Foundation for the Arts. Nov., 2015 to Aug., 2017.

Meenakshi Thapan has been, for the past one year, anchoring an initiative to create, prepare and organise curriculum material for a rich audio-visual, online teacher education programme for elementary school teachers across the country. Located at the Rishi Valley Institute for Educational Resources (RIVER), this programme has already evoked the interest of the A.P. government for implementation in DIET Centres. The details and modalities for implementation at state-level are being worked out.

### **Seminars Organised**

Dr. Alice W. Clark, (Formerly at the University of California - Berkeley). Aspirational Families and the Professional Imaginary, 3 Feb., 2017.

Dr. Ananta Kumar Giri, Madras Institute of Development Studies. With and Beyond Epistemologies from the South, 27 Jan., 2017.

Dr. Anuj Bhuwania, Sociology, South Asian University. The Politics of Public Interest Litigation in Post-Emergency India, 17 Feb., 2017.

Prof. Ari Sitas, Sociology, University of Cape Town. Between the Canon and the Cannon- Three Reasons why we Sociologists should Unlearn before we Teach, 22 April, 2016.

Dr. Charu Sawhney, Research Associate, Department of Sociology, Delhi School of Economics University of Delhi. Internally Displaced Kashmiri Hindus: Access to Cultural Capital and Resettlement, 29 April, 2016.

Prof. G. Balachandran, Professor of International History and Politics, Graduate Institute of International and Development Studies, Geneva. Colonial Currencies and Money Illusions, 10 Feb., 2017.

Dr. Geetika Bapna, Research Scholar, Department of Sociology, University of Delhi. Lesbian *Gatbandhan* : Portrait of a Social Worker. 23 Sept., 2016.

Prof. John Borneman, Anthropology, Princeton University. The Syrian Refugee Crisis in Germany: Erotic Conflict and Foreigner Integration, 2 Sept., 2016.

Dr. Mahuya Bandyopadhyay, Associate Professor, School of Development Studies, Tata Institute of Social Sciences, Mumbai. Understanding Prison Sociality: Surveillance, Everyday Life and the Ethnographic Method, 31 March, 2017.

Prof. Nandini Sundar, Department of Sociology, Delhi School of Economics, University of Delhi. Justice in a looking glass world, 13 Jan., 2017.

Dr. Philipp Zehmisch, Postdoctoral Research Fellow, Center for Advanced Studies and Department of Social and Cultural Anthropology, LMU Munich. The Invisible Architects of Andaman: Manifestations of Aboriginal Migration from Ranchi, 7 Oct., 2016.

Dr. Prathama Banerjee, Centre for Study of Developing Societies (CSDS), Delhi. The Abiding Binary: Social/Political in modern India, 11 Nov., 2016.

Dr. Ravi Nandan Singh, Assistant Professor, Sociology, Hindu College, University of Delhi. Living and dead in the shifting shadows of place-names, 3 March, 2017.

Prof. Ray Bromley, Geography and Planning, State University of New York, Patrick Geddes and the Early Days of Indian Sociology, 9 Sept., 2016.

Dr. Ruchi Chaturvedi, Department of Sociology, University of Cape Town. The Protester, the Performer and a Common Political Imagination, 6 Jan., 2017.

Dr. Rupal Oza, Associate Professor, Department of Women and Gender Studies, Hunter College, CUNY. What is a drone? Ethics, Technology, and Geography (co-authored with Madiha Tahir), 8 April, 2016.

Justice Dr. S. Muralidhar, Judge, Delhi High Court. Case in Court: Bringing law and society issues before the judiciary, 10 March, 2017.

Dr. Siddharth Sareen, Postdoctoral Fellow, Max Weber Centre for Advanced Cultural and Social Studies, Erfurt, and the Institute of Economic Growth. Discourses around logging: Framing extraction of wood from West Singhbhum's conflicted forests, 30 Sept., 2016.

Prof. Stephen Legg, School of Geography, University of Nottingham. Making India in London: Imperial Internationalism, Atmospheres, and Failures at the Round Table Conferences, 1930-32, 24 March, 2017.

Dr. Subasri Krishnan, Media Lab, Indian Institute for Human Settlement (IIHS). What the Fields Remember? 4 Nov., 2016.

Dr. Sunil Babu C.T., Assistant Professor of Sociology, Delhi School of Economics, University of Delhi. Anthropologising Indian Society: The Colonial Project, 21 Oct., 2016.

Dr. Svati P. Shah, Associate Professor, Gender and Sexuality Studies and Department of Anthropology. University of Massachusetts, Amherst. Making Sexual Subjects: From Agency to 'Majburi', 28 Oct., 2016.

### **Conferences Organised**

A Workshop on *Teaching Kinship* was held on 15 Sept., 2016.

A *Research Scholars' Workshop* was held on 29 Sept., 2016.

A Workshop on *Ethnographic Film Making* was Organised on 20 Jan., 2017.

A Workshop on *Event and Every day: Empiricisms and Epistemologies* was held on 23-24 March, 2017.

### **Seminar / Conference Presentation**

Abhijit Dasgupta, Presented Paper, Seeds of Discontent: Local Knowledge and Agricultural Growth in India at the Diamond Jubilee Seminar on Agrarian Situation in India: Issues and Perspectives, Anthropological Survey of India, Central Regional Centre, Nagpur, 22 to 24 Nov., 2016.

Abhijit Dasgupta, Presented Paper, Caste and Social Exclusion in India in M.D. Girls' College, Kolkata on 28 Nov., 2016.

Abhijit Dasgupta, Presented Paper, The Making of the Muslim Dalits in Bengal at the Conference on Marginality(ies), Minor(ity) and Identities at the Centre for Studies of Discrimination and Exclusion, JNU, on 16 Jan., 2017.

Abhijit Dasgupta, Presented Paper, Society and Governance: Comparative Studies on India and China held in Xiangtan University, Xiangtan, China, 9-12 June, 2017.

Anuja Agrawal, Presented Paper, Unending Stigma: Denotified Communities in India at Politik'17, Department of Political Science, Kamla Nehru College, University of Delhi, 2 March, 2017.

Anuja Agrawal, Presented Paper, Gender questions at the Margins: The case of Denotified communities in India in the Series Feminism beyond Boundaries, Oxford Bookstore and Apne Aap Women worldwide on 9 Sept., 2016.

Anuja Agrawal, Presented Paper, Revisiting the Marxist Approach to Sex Work at International Conference on Marxism and Contemporary South Asia: Issues and Relevance, Department of Sociology, South Asian University & Rosa Luxemburg Stiftung at India International Centre, New Delhi, 11-12 Nov., 2016.

Anuja Agrawal, Presented Paper, Family, Marriage and Kinship: Examining the emerging contours at the Department of Sociology, Ambedkar University, 18 Nov., 2016.

Janaki Abraham, Presented Paper, The breach of Endogamy: What is at Stake? at a Refresher Course organised by the Centre for Women's Studies, JNU, Nov. 2016.

Janaki Abraham, Presented Paper, Consent and marriage at a Round Table discussion on Consent at the LASSNET International Conference held in New Delhi, 10-12 Dec., 2017.

Janaki Abraham, Presented Paper, The lives of others: The production and influence of neighbourhood cultures in



towns in India at a seminar at Mumbai University, Feb. 2017.

Janaki Abraham, Presented Paper, Understanding the shifts in rules of Endogamy at Janki Devi Memorial College, Delhi University on 8 March, 2017.

Meenakshi Thapan, Presented Paper, Understanding Schooling, Teaching and Classroom Management: Reflections, Processes, Activities and on Values and Ethics in Education at Vasanta College for Women, Rajghat, Varanasi, 29 - 30 July, 2016.

Meenakshi Thapan, Presented Paper, Opening up Emotional Pathways in Education at an International Conference on Regulating and Transforming Emotions held under the auspices of the Science for Monks programme at Sherabling monastery, Bir, Himachal Pradesh, 11-14 Nov., 2016.

Meenakshi Thapan, Presented Paper, Krishnamurti, Values and Ethics in Education at an international conference on Values and Secular Ethics in Education organised by the DS Kothari Centre for Science, Ethics and Education, and India International Centre on 19-20 Jan., 2017.

Meenakshi Thapan, Presented Paper, Spiritual striving among single western women at an international conference on Towards the co-existence of various 'single' in global societies at Tokyo University of Foreign Studies, Tokyo, 2-4 Feb., 2017.

Meenakshi Thapan, Presented Paper, 'Finding Faith: Western imaginings of spiritual India at Tokyo University of Foreign Studies, Tokyo, 7 Feb., 2017.

Meenakshi Thapan, Presented Paper, Understanding Ethnography and Schooling, at Dept. of Education (CIE), University of Delhi, 29 March, 2017.

Nandini Sundar, Participated in a Panel discussion on Brexit: Political Rhetoric and Ground Reality, India International Centre, New Delhi, 9 July, 2016.

Nandini Sundar, Presented Paper, Policing the vulnerable – protecting the Marginalised at Vertical Interaction Course with IPS officials, National Law University, Delhi, 26 July, 2016.

Nandini Sundar, Presented Paper, The Propaganda Wars, GB Pant Memorial Lecture, GB Pant Institute of Social Sciences, Allahabad, 10 Sept., 2016.

Nandini Sundar, Presented Paper, Citizenship, democracy and affect, Miranda House, Delhi University, 15 Sept., 2016.

Nandini Sundar, Presented Paper, Gender and Environment in India today, Indraprastha College for Women, Dept. of Political Science, Golden Jubilee Conference on Women, State and Power: Reflections on Democracy, 16 Sept., 2016.

Nandini Sundar, Presented Paper, Social Cohesion in Transformation: The Experience of India and Beyond organised by India Today & Bertelsmann Stiftung, Germany, Taj Palace, New Delhi, 23 Sept., 2016.

Nandini Sundar, delivered Keynote Lecture on Rethinking Conflict in the Age of Development, Jindal National Law University, 26 Sept., 2016.

Nandini Sundar, Presented Paper, How National Security Rhetoric undermines Academic Freedom, Workshop on National Security and Academic Freedom in Turkey, India and the UK, University of Edinburgh, 27 Oct., 2016.

Nandini Sundar, Talk on Three Villages, Two Investigations and the Rule of Law in India at the Centre for South Asian Studies, University of Michigan, Ann Arbor, 15 Nov., 2016.

Nandini Sundar, Talk on Tales from Tadmetla at CUNY GC, New York, 17 Nov., 2016.

Nandini Sundar, Panelist in Panel Discussion at Club of Rome session on Land, Water and Forests, India International Centre, 23 Nov., 2016.

Nandini Sundar, Panelist in Panel Discussion on The Burning Forest at Times Lit Festival, India Habitat Centre, New Delhi, 26 Nov., 2016.

Nandini Sundar, Panelist in Panel Discussion on The Burning Forest at Goa Literary Festival, 8-9 Dec., 2016.

Nandini Sundar, Talk on India's War in Bastar at Manthan, Hyderabad, 4 Jan., 2017.

Nandini Sundar, delivered distinguished Lecture on Not Human, Not Animal: Does India have room for the adivasi? IIIT, Hyderabad, 5 Jan., 2017.

Nandini Sundar, Keynote Lecture on Development, Displacement and Violence; A Story in Three Acts at UGC Sponsored National Seminar on Development induced Displaced, MG University, Kottayam, Kerala, 31 Jan., 2017.

Nandini Sundar, Panelist in Panel Discussion on The Burning Forest titled 'In Tandem: Class, Privilege and Loss', Times Lit fest, Bangalore, 11 Feb., 2017.

Nandini Sundar, Panelist in Panel discussion on Speaking Peace in Times of War at an International Film Festival on Peace, Beyond Thresholds of Conflict, Gandhi Bhawan, Bangalore, 12 Feb., 2017.

Nandini Sundar, Talk on The Heart is a Fractured Object: Chronicling a Civil War at School of Development Studies, Ambedkar University, Delhi, 15 Feb., 2017.

Nandini Sundar, participated in Book discussion on the Burning Forest, India International Centre, New Delhi, 22 Feb., 2017.

Nandini Sundar, Panelist in Panel discussions, The Political Economy of Witch Persecution and Land Rights, Land Acquisition and Inclusive Development in India, organised by CPR, India International Centre, New Delhi, 2 March, 2017.

Nandini Sundar, a Talk on Looking Around, not looking down: what we can learn from adivasi lives . Ted-X talk, Delhi Technological University, 18 March, 2017.

Nandini Sundar, panelist on Taking Humanities and Social Sciences Seriously: Intellectual Advancements and Institutional obligations: Four Questions at O.P. Jindal Global University, Universities of the Future: Knowledge, Innovation and Responsibility, 19 March, 2017.

Nandini Sundar, Talk on Decoding Dissent at Jamia Sociology Festival, Jamia Millia Islamia, 30 March, 2017.

Radhika Chopra presented on Rethinking Religious Synthesis in India: An endangered cosmopolitan alternative? at *Bazaar Divinity* Workshop University of Sydney, 5-6 Jan., 2017.

Rajni Palriwala, Presented Paper, Reflections on the Challenges Facing Women in South Asia at a workshop on Women, Work and Violence Organised by the University of Portsmouth, ICRW and IMC Worldwide, held in Kathmandu, 15 March, 2017.

Rajni Palriwala, Presented Paper, Structures, Processes and Relations in Women's Oppression Today' at a panel on Normalising Patriarchy in Twenty-First Century India, organised by the Department of Political Science, Zakir Husain Delhi College, University of Delhi, 8th March, 2017.

Rajni Palriwala, Presented Paper, Myriad Oppressions and Myriad Struggles at a panel on Women in Search of Justice organised by the All India Lawyers Union at Tis Hazari Court, 7 March, 2017.

Rajni Palriwala, Presented Paper, Region, Language and Comparison in doing Sociology at Thunchath Ezhuthachan Malayalam University, Tirur, Kerala, 3 March, 2017.

Rajni Palriwala, Presented Paper, Rationality, Instrumentality, and the Affective: Framing Relations of Care and Intimacy at the Department of Sociology, School of Social Sciences, University of Hyderabad, 20 Feb., 2017.

Rajni Palriwala, Presented Paper, Dimensions of Paid and Unpaid Work, Paid and Unpaid Care Work in India in the panel on Changing Contours of Paid and Unpaid Work by Women in 21st Century South Asia, at the XV National Conference of Women's Studies, organised by the IAWS, held at Chennai, 22-25 Jan., 2017.

Rajni Palriwala, Presented Paper, Contemporary Concerns in Family, Marriage, Kinship: Conceptual Shifts and Substantive Themes at the plenary on New Perspectives in the themes of Family, Marriage, Kinship at the 42<sup>nd</sup> All India Sociological Conference held at Tezpur University on the theme Rethinking Sociological Traditions of India, Dec., 2016.

Rajni Palriwala, Organised a panel with nine papers on Youthful Modernities: Negotiating with the Past, the Present and the Future with Ravinder Kaur (IIT, Delhi) and Sonalde Desai (University of Maryland) as part of the SASNET conference on Modern Matters: Negotiating the Future in Everyday Life in South Asia held at Lund University, Sweden, 20-22 Sept., 2016.

Roma Chatterji, Talk on Fairy Tales in course on Rhetorics of Development at Maranda House, Delhi University, 19 Aug., 2016.

Roma Chatterji, Panelist in Panel Discussion of Sasanka Parera 2016 on Violence and the Burden of Memory. Remembrance and erasure in Sinhala Consciousness, IIC, Delhi, 23 Aug., 2016.

Roma Chatterji, Presented Paper, Repetition, Improvisation, Tradition. Deleuzean Themes in the Folk Art of Bengal, at the Third Creative Theory Workshop Organised by the Foundation for Creative Social Research at India International Centre, New Delhi, 5 -6 Aug., 2016.

Roma Chatterji, Talk on The Bureaucratization of Craft by Nikita Kaul at the Research Scholars Workshop, Department of Sociology, Delhi University on 29 Sept., 2016.

Roma Chatterji, Talk on Mythology at the Sanawar Literary festival Organised by The Lawrence School, Sanawar, 23 Oct., 2016.

Roma Chatterji, Talk on Manasa on the Modern Stage at the School of Arts and Aesthetics, Jawaharlal Nehru University, Delhi, 4 Nov., 2016.

Roma Chatterji, Public Lecture on Myths, Similes and Memory Traces: The Imageries of Abduction in the Ramayana Universe at Indira Gandhi Rashtriya Manav Sangrahalaya, Bhopal, 20 Dec., 2016.

Roma Chatterji, Talk on Scripting the Folk: Folklore and the Imagination of Place at Writing India: Revisiting Historiographies, Ideology, and Genre Organised by Centre for English Studies, JNU, 16 -17 Jan., 2017.

Roma Chatterji, Panelist in Panel Discussion on Uncertain Ground in Displaced Kashmiri Pandits in Jammu and Kashmir by Ankur Datta, 24 Feb., 2017.

Roma Chatterji, Talk on Myths, Similes and Memory Traces: Imageries of Abduction in the Ramayana Universe at Interpreting Culture: Subjectivity, Ideology and Identity Organised by School of Social Science, IGNOU, 16 - 17 March, 2017.

Roma Chatterji, Panelist in Panel Discussant on Crossing Borders, Boundaries and Temporalities: A conversation on history, myth, politics and art around the mixed media art project, A Tale of Two Cities. Varanasi and Anuradhapura, Organised by gallery Espace, Serendipity Arts Trust, Teertha Artists Collective and South Asia University at Twin Arts Gallery, IGNC, Delhi, 29 March, 2017.

Satish Deshpande, Panelist at a Conference on Governance and Culture of Learning, Ahmedabad University, Ahmedabad, 23 Sept., 2016.

Satish Deshpande, Presented Paper, Notes on the Conceptual Career of the 'Vote Bank' at the Centre for the Study of Social Sciences, Kolkata in the Annual Anjan Ghosh Memorial Workshop, 26 Sept., 2016.

Satish Deshpande, Keynote Address on The Annihilation of Caste at Eighty: The Many Lives of a Classic Text, at the conference on Rediscovering Babasaheb Ambedkar, Institute for Social and Economic Change, Bengaluru, 24 Oct., 2016.

Satish Deshpande, Keynote Address on Development and Identity Politics in the 21<sup>st</sup> Century at the conference on Development and Change in India: Retrospect and Prospects organised by the Sociology Department, Sikkim University, Gangtok, 4 Nov., 2016.

Satish Deshpande, Invited Lecture on Indian Languages in/and the Social Sciences, at the Shodh Samvad research scholars forum, School of Languages, JNU, New Delhi, 21 Nov., 2016.

Satish Deshpande, Invited Lecture on Caste in contemporary India to the Saturday Discussion Group, India International Centre, New Delhi, 26 Nov., 2016.

Satish Deshpande, Presented Paper, The Non-Academic Uses of the Contemporary University, at the 42<sup>nd</sup> All India Sociological Conference of the Indian Sociological Society, Tezpur University, Tezpur, 28-30 Dec., 2016.

Satish Deshpande, Presented Paper, Notes on the Conceptual Career of the Vote Bank, at the conference on Nation, Community and Citizenship in Contemporary India, National Institute of Advanced Studies, Bengaluru, 9 Jan., 2017.

Satish Deshpande, Panelist, Pre-Conference Colloquium, The Flux in India's Higher Educational System of the Indian Association for Women's Studies, Fifteenth Conference, Chennai, 21 Jan., 2017.

Satish Deshpande, Invited Lecture at Department of Sociology, Aligarh Muslim University, Higher Education in Contemporary India, Aligarh, 4 Feb., 2017.

Satish Deshpande, Panelist in theme panel: How does social exclusion impact health? at the Difficult Dialogues Conference, Goa, 11 Feb., 2017.

Satish Deshpande, Inaugural Lecture: Methodological Persuasion, Orientation Programme on Social Science Research, Institute for Studies in Industrial Development, New Delhi, 6 March, 2017.

Satish Deshpande, Panelist in panel on Taking Humanities and Social Sciences Seriously, at the conference on Universities of the Future, O.P. Jindal University, Sonapat, 19 March, 2017.

Satish Deshpande, Invited Lecture, Discrimination based on social hierarchies, at the Samagam '17, the annual festival of the BA Programme Union, Lady Shri Ram College, New Delhi, 24 March, 2017.

Satish Deshpande, Valedictory respondent for the Conference on Engineers and Society in India, EHESS, Paris, 27-28 March, 2017.

Yasmeen Arif, Presented Paper, Event: A Way of Knowing and Opening/Closing Remarks in the Workshop Event and Every day: Empiricisms and Epistemologies, Dept. of Sociology, University of Delhi, 23 March, 2017.

Yasmeen Arif, Panelist in a Panel Discussion on Life, Emergent: The Social in the Afterlives of Violence, at Centre for the Study of Developing Societies (CSDS) Delhi, 2 March, 2017.

Yasmeen Arif, Presented Paper, WIRED: Decoding Tech, Encoding Society, Miranda House, Dept. of Sociology Annual Festival, Delhi University, 15 Feb., 2017.

Yasmeen Arif, Panelist in a Panel Discussion on Life, Emergent: The Social in the Afterlives of Violence at The Institute for Advanced Study and Interdisciplinary Center for the Study of Global Change. University of Minnesota, Twin Cities, USA, 16 Nov., 2016.

Yasmeen Arif, Panelist in a Round Table on Culture of Money on Gifts, Commissions, Bribes and Business Integrity, The University of Sydney Business School, Discipline of Business Law, 12 Oct., 2016.

Yasmeen Arif, Presented Paper, Emotional Cities: The Urban as the Frontier of Crises and Compassion, Dept. of Sociology and Social Theory. University of Sydney, 13 Oct., 2016.

#### **M.Phil. / Ph. D. Awarded**

Ph.D. – 12

M.Phil. – 18

**Faculty Strength –18**

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## **FACULTY OF TECHNOLOGY**

### **BIOLOGICAL SCIENCES AND ENGINEERING**

#### **Major Activities and Achievements**

There are three new research projects – Purification and characterization of compounds from streptomyces chrestomyceticus strain ADP4 with activities against pathogenic Candida spp. and their biofilms; Development of a Mammalian Expression System for Generation of Bispecific Antibodies – A Potential Biomarker and Therapeutics; and Low cost process development for the production of xylitol from waste agricultural biomass with special focus on delignification and downstream processing that have been funded by by DBT/ DST, Ministry of Science, Govt. of India. There are 13 publications of research & review articles, a new M.Tech. Degree programme in Biochemical Engineering starting this year (2017).

#### **Honours / Distinctions**

Prof. A.K. Dubey (HOD, BSE Division) Erasmus+ Teaching Mobility Award (2016-2017)

Dr. Sanjeev Kumar (Faculty) Bioenergy Award for Cutting Edge Research (B\_ACER, 2017) from DBT & IUSSTF.

## Publications

- Singla, R.K., Scotti, L., Dubey, A.K. (2017). In silico studies revealed multiple neurological targets for the antidepressant molecule ursolic acid. *Current Neuropharmacology*, (Article in Press)
- Singla, R.K., Singh, R. and Dubey, A.K. (2016). Important aspects of post prandial anti-diabetic drug, acarbose. *Current Topics in Medicinal Chemistry*, 16(23), 2625-2633.
- Srivastava, V., and Dubey, A.K. (2016). Anti-biofilm activity of the metabolites of *Streptomyces chrestomyceticus* strain ADP4 against *Candida albicans*. *Journal of Bioscience & Bioengineering*, 122(4), 434-440
- Tiwary, M. and Dubey, A. K. (2016). Cypermethrin bioremediation in presence of heavy metals by a novel heavy metal tolerant strain, *Bacillus* sp. *International Biodeterioration Biodegradation*, 108, 42-47
- Rai, S., Bhatnagar, S. (2017). Novel lipidomic biomarkers in hyperlipidemia and cardiovascular diseases: An integrative biology analysis. *OMICS: A Journal of Integrative Biology*, 21(3),132-142
- Rai, S., Bhatnagar, S. (2016). Hyperlipidemia, disease associations, and Top 10 potential drug targets: A Network View. *OMICS: A Journal of Integrative Biology*, 20(3), 152-68.
- Dhiman, A., Rahi, A., Gopalani, M., Bajpai, S., Bhatnagar, S., Bhatnagar R. (2016). Role of the recognition helix of response regulator WalR from *Bacillus anthracis* in DNA binding and specificity. *International Journal of Biological Macromolecules*, 96, 257-264
- Gupta, A, Bhatnagar, S. (2016). Calcium induced conformational changes of thrombospondin-1 signature domain: Implications for vascular disease. *Journal of Receptors and Signal Transduction Research*, 37(3), 239-251
- Scotti, L., Mendonça, J., F. J. B., Ishiki, H., Ribeiro, F. F., Singla, R. K., Barbosa, F.J.M., Da Silva, M.S., Scotti, M.T.(2017). Docking studies for Multi-Target Drugs. *Current Drug Targets*, 18(5), 592-604.
- Nagar, S.D., Aggarwal, B., Joon S., Bhatnagar, R., Bhatnagar, S. (2016). Network biology approach to decipher stress response in bacteria using *Escherichia coli* as a model. *OMICS: A journal of Integrative Biology*, 20(5), 310-24.
- Mohanty, P., Bhatnagar, S. (2016). Structural basis of focal adhesion targeting domain-mediated signaling in cardiac hypertrophy. *Journal of Receptors and Signal Transduction Research*, 37(1), 38-50
- Scotti, L., Singla, R. K., Scotti, M. S. (2016). Editorial: Natural leads in drug discovery against metabolic disorders and their related infectious diseases. *Current Topics in Medicinal Chemistry*, 16(23), 2523-2524
- Scotti, L., Singla, R. K., Ishiki, H.M., Francisco, J. B. M. J., Silva, M. S. D., Filho, J.M.B., Scotti, M. S. (2016). Recent advances in natural hyaluronidase inhibitors. *Current Topics in Medicinal Chemistry*, 16(23), 2525-2531

## Research Projects

- SERB, 2017, *Purification and characterization of compounds from streptomyces chrestomyceticus strain adp4 with activities against pathogenic candida spp. And their biofilms*. Final sanction order is in process.
- Indo-US Science and Technology Forum and Department of Biotechnology, 2016, *Indo-US Advanced Bioenergy Consortium*, Rs. 52, 84,500/-
- DST, 2016-17, *Development of a Mammalian Expression System for Generation of Bispecific Antibodies – A Potential Biomarker and Therapeutics*, Final sanction order is in process.
- SERB-DST, 2016, *A coupled process for simultaneous ethanol and methane production from enzymatically pretreated algal biomass*, Rs.23,49,600/-
- DBT, 2017, *Low cost process development for the production of xylitol from waste agricultural biomass with special focus on delignification and downstream processing*, Rs.12,50,000/-

## Seminars / Conference Organised

One day Seminar on 'Third Generation Sequencing Technologies' Resource Person: Dr. Raja C Mugesimangalam, founder and CEO, Genotypic Technology (P) LTD on 29 Nov., 2016

One day Seminar on 'Reverse Innovation in Healthcare from developing nation to the developed world' Resource Person: Prof. Michael Friebe on 17 Feb., 2017

One week Research Seminar, Workshop and Teaching Classes for students of BSE Division. Resource Person: Prof. Swaroop Ranjan, University of Nottingham, UK

Organised two day workshop (Biohazard Management) on 24<sup>th</sup>-25<sup>th</sup> June, 2016. Supported by NSIT.

### **Seminar / Conference Presentation**

Singla, R.K., Dubey, A.K. (2017).  $\alpha$ -Amylase Inhibitory Potential of *Cocos Nucifera* Endocarp's Extract: *In Vitro* and *In Silico* Studies. International Conference on Drug Design (ICDD), from 7-9 April, 2017 at JNU, New Delhi.

Srivastava, V., Dubey, A.K. (2016). Inhibition of *Candida Albicans* Biofilm by the compounds provided by *Streptomyces chrestomyceticus* strain ADP4. 51st Annual Conference of Association of Microbiologists of India from 24-27 Nov, 2016 at Guwahati.

Mohanty, P. and Bhatnagar, S. (2017). Protein Interactions Of Focal Adhesion Kinase As A Drug Target In Pathological Cardiac Hypertrophy. Presented a poster at International conference on drug designing (ICDD) from 7-9 April, 2017 at JNU, New Delhi

Rai, S. and Bhatnagar, S. (2017). Drug Targets and Biomarkers for Hyperlipidemia and its Associated Diseases. Poster presented at Research Showcase 2017 (RS17) on 1 April, 2017 at IIITD, New Delhi.

Singh, N. and Bhatnagar, S. (2017). Presented a poster on Network Biology: Tools and Applications. Attended a lecture course Organised by EMBO- Global Exchange Lecture Course on Malaria Genomics and Public Health from 29 Jan to 11 Feb., 2017 at CRME, Madurai.

Rai, S. and Bhatnagar, S. (2016). Integrated Lipid-Protein Interaction Network for study of Hyperlipidemia: Pathogenesis, Progression and Drug Targets. Oral session presented at International Conference on Advances in Biomedical Engineering, Cancer Biology, Bioinformatics and Applied Biotechnology (ABECBAB-2016) on 21 May, 2016 at, Jawaharlal Nehru University, New Delhi.

Mohanty, P. and Bhatnagar, S. (2016). Interaction of focal adhesion kinase as a drug target for Pathological cardiac Hypertrophy. Oral session presented at International Conference on Advances in Biomedical Engineering, Cancer Biology, Bioinformatics and Applied Biotechnology (ABECBAB-2016) on 21<sup>st</sup> May 2016 at, Jawaharlal Nehru University, New Delhi.

Gupta, A. and Bhatnagar, S. (2016). Structural insights into the Signature domain of Thrombospondin-1. Oral session presented at International Conference on Advances in Biomedical Engineering, Cancer Biology, Bioinformatics and Applied Biotechnology (ABECBAB-2016) on 21 May, 2016 at, Jawaharlal Nehru University, New Delhi.

### **National / International MoUs**

General Framework Agreement for Cooperation between EPF Ecoloded' ingenieurs (Sceaux), France and Netaji Subhas Institute of Technology, India

Between University of Nottingham U.K and Netaji Subhas Institute of Technology, India under Erasmus + Programme for Staff Mobility.

### **Other Inter-Institutional Collaboration**

International Faculty Exchange:

Inter-Institutional Collaboration 2015-17 between University of Nottingham U.K and Netaji Subhas Institute of Technology under Erasmus Scheme for Teaching. Faculty exchange has been undertaken between NSIT and University of Nottingham, U.K.

Prof. A.K. Dubey, from NSIT, India, visited University of Nottingham, U.K. and Prof. Swaroop from University of Nottingham U.K. visited NSIT, India.

## Placement Detail

Students Placed: 90% (Biotech Division)

Companies visiting campus for recruitment – 40

## M.Phil. / Ph.D. Awarded

Ph.D. – 01

## Faculty Strength – 08

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# COMPUTER ENGINEERING

## Publications

Journals & Book Chapters:

Chakraverty, S. and Saraswat M. (2017). Review based emotion profile for cross domain recommendation. *Multimedia Tools and Applications*, Springer, Online: 1-24, doi: 10.1007/s11042-017-4767-x

Sharma, S., Chakraverty, S., Sharma, A. and Kaur, J. (2017). A context-based algorithm for sentiment analysis. *Inderscience Journal of Computational Vision and Robotics*, Elsevier, 7(5), doi: 10.1504/IJCVR.2017.10005890

Chakraverty, S., Yadav, A. and Sibal, R. (2016). On evaluating the effectiveness of rating similarity on implicit trust. *Journal of Social Network Analysis and Mining*. doi:10.1007/s13278-016-0395-0.

Khanduja, V., Chakraverty, S. and Verma, O.P. (2016). Enabling information recovery with ownership using robust multiple watermarks. *Journal of Information Security and Applications*, 29, 80–92. doi: 10.1016/j.jisa.2016.03.005. Retrieved from, <http://authors.elsevier.com/sd/article/S2214212616300175>

Rai, S. and Chakraverty, S. (2017). Modeling approximations and imprecision in metaphor detection using Fuzzy rough sets. In Polkowski L. et al. (Eds.), *Rough Sets*. IJCRS 2017. 10313, Springer Lecture Notes in Computer Science (LNCS) Book Series, .

Khanduja, V., Chakraverty, S. and Verma, O.P. (2016). Ownership and tamper detection of relational data: Framework, techniques and security analysis. Book Chapter in (Eds.), C.W. Ahn, M. Ali, M. Pant, *Embodying Intelligence in Data Hiding*, GCSR 5, 21-36, Science Gate Publishing. doi: 10.15579/gcsr.5.ch2

Hans, S. and Chakraverty, S. (2017). Learning with skills oriented collaborations. *International Journal of Learning Technology*, Inderscience, 7(5).

Sibal, R., Sharma, R. and Sabharwal, S. (2017). Prioritizing software vulnerability types using multi-criteria decision-making techniques. *Life Cycle Reliability and Safety Engineering*, Springer.

Aggarwal, G. and Sabharwal, S. (2017). Formal validation of data warehouse complexity metrics using distance framework. *International Journal of Intelligent Systems and Applications*. Accepted.

Aggarwal, M., Sabharwal S. and Dudeja, S. (2016). FTCTI: A tool to identify failure triggering combinations for interaction testing. *Indian Journal of Science and Technology*, 9(38). doi: 10.17485/ijst/2016/v9i38/102969

Aggarwal, G. and Sabharwal, S. (2017). Formal validation of data warehouse complexity metrics using distance framework. *International Journal of Intelligent Systems and Applications*. Accepted.

Aggarwal, M. and Sabharwal, S. (2016). Prioritization techniques in combinatorial testing: A survey. *IICIP-2016*.

Aggarwal, M., Sabharwal S. and Dudeja, S. 2016. FTCTI: A tool to identify failure triggering combinations for interaction testing. *Indian Journal of Science and Technology*.

Bansal, P., Sabharwal, S., Mittal, N. and Arora, S. (2016). ABC-CAG: Covering array generator for pair-wise testing using artificial bee colony algorithm. *e-Informatica Software Engineering Journal*, 10(1), 9-29.

Bansal, P., Sabharwal, S., Mittal, N. and Malik, S. (2016). Construction of mixed covering arrays for pair-wise testing using probabilistic approach in genetic algorithm. *The Arabian Journal for Science and Engineering*, 41(8), 2821-2835.

Sabharwal, S. and Aggarwal, M. (2016). A novel approach for deriving interactions for combinatorial testing. *Engineering Science and Technology, an International Journal*.

Sabharwal, S., Bansal, P. and Mittal, N. (2016). Construction of t-way covering arrays using genetic algorithm. *International Journal of System Assurance Engineering and Management*, 1-11.

Sabharwal, S., Nagpal, S. and Aggarwal, G. (2016). Empirical analysis of metrics for object oriented multidimensional model of data warehouse using unsupervised machine learning techniques. *International Journal of System Assurance Engineering and Management*.

Kaur, P., Sibal, R. and Sabharwal, S. (2017). A user story based approach to measure system complexity in agile software development. *International Journal of Control Theory and Applications*, 10(8), 99-111.

Yadav, S. and Chakraborty, P. (2017). Children aged two to five are able to scribble and draw with a smart phone. *Acta Paediatrica*, 106(6), 991-994.

Chakraborty, P. Object oriented compilers – A review. (2017). *Journal of Information Technology*, 13(1), 36-47.

Gupta, T., Yadav, S. and Chakraborty, P. (2017). Compiler bootstrapping and cross-compilation. *Current Science*, 112(5), 906-907.

Jain, A., Goyal, A. and Chakraborty, P. (2016). A domain-specific language for line drawings. *Computer Science and Telecommunications*, 15(3), 49-55.

Jain, A., Goyal, A. and Chakraborty, P. (2017). PPVT: A tool to visualize predictive parsing. *ACM Inroads*, 8(1), 43-47.

Joseph, D., Kaur, G. and Chakraborty, P. (2016). An exercise on hardware/software codesign following the RISC model. *Computer Applications in Engineering Education*, 24(2), 305-312.

Chakraborty, P. Object oriented compilers – A review. *Journal of Information Technology*, 13(1), 36-47.

Rani, P. (2017). Social recommender system using skyline query and reciprocal scoring technique. *IOSR Journal of Engineering*, 7(3).

Sharma, R., Sibal, R. and Shrivastava, A. K. (2016). Vulnerability discovery modeling for open and closed source software. *International Journal of Secure Software Engineering*, 7(4)

Khanduja, V. (2017). Dynamic watermark injection in NoSQL databases. *Journal of Computer Science Applications and Information Technology*, 1-5.

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Gupta, A., Tiwari, D., Gupta, P. and Kulshreshtha, A. (2016). CDIA-DS: A framework for efficient reconstruction of compound document image using data structure. *IC3*, 1-7

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#### **Conference Proceedings:**

Rai, S., Chakraverty, S. and Tayal, D. (2017). *Identifying metaphors using fuzzy conceptual features*. *Communications in Computer and Information Science* CCIS Book Series of Proc. of International Conference on Information, Communication and Computer Technology, ICICCT 2017, New Delhi.

Sharma, S., Chakraverty, S. and Jouhrai, A. (2017). *Leveraging polarity switches and domain ontologies for sentiment analysis in text. communications in computer and information science*. CCIS Book Series of Proc of International Conference on Computational Intelligence, Communications and Business Analytics, Kolkata.

Saxena, G. and Chakraverty, S. (2017). *Relation extraction and enriching structural knowledge in wikipedia article*. 4th International Conference on Computing for Sustainable Global Development and 11th INDIACom – 2017, New Delhi,



- Saxena, G. and Chakraverty, S. (2016). *Generating word clusters by graph clustering using Hearst Patterns*. IEEE India International Conference on Information Processing, Delhi Technical University, New Delhi.
- Rai, S., Chakraverty, S. and Tayal, D. (2016). *Supervised metaphor detection using conditional random fields*. Fourth Workshop on Metaphor in Natural Language Processing, NAACL-HLT, San Diego.18–27.
- Saraswat, M. and Chakraverty, S. (2017). *Evaluation of emotion based recommender system*. International Conference on Computing for Sustainable Global Development and 11<sup>th</sup> INDIACom , New Delhi. To appear in IEEEExplore.
- Sharma, S., Chakraverty, S. (2016). *Tracking context switches in text documents and its application to sentiment analysis*. ICMETE-2016
- Sharma, S., Chakraverty, S. (2016). *An approach to track context switches in sentiment analysis*. International Conference on Advanced Computing and Intelligent Engineering ICACIE.
- Saraswat, M., Chakraverty, S., Mahajan, N., and Tokas, N. (2016). *On using reviews and comments for cross domain recommendations and decision making*. In Computing for Sustainable Global Development (INDIACom), 3rd International Conference. 3656-3659.
- Choudhary, V., Mullick, D. and Nagpal, S. (2017). *Gravitational search algorithm in recommendation systems*. International Conference on Swarm Intelligence.
- Bhatia, M. P. S., Veenu and Chandra, P. (2016). *Empirical study of various weight initialization techniques for FFANN*. IEEE India International Conference on Information Processing.
- Aggarwal, S. (2017). *Applications of computing with words in medicine*. IEEE International Conference on Fuzzy Systems, Accepted.
- Gabrani, G., Sabharwal, S. and Singh, V. K. (2016). *Artificial intelligence based recommender systems: A survey*. Proceedings of the International Conference on Advances in Computing and Data Science.
- Aggarwal, M. and Sabharwal, S. (2016). *Prioritization techniques in combinatorial testing: A survey*. IICIP-2016. doi: 10.1109/IICIP.2016.7975314
- Gupta, A., Bansal, A. and Khanduja, V. (2017). *Modern lossless compression techniques: Review, comparison and analysis*. IEEE International Conference on Electrical, Computer and Communication Technologies, 1083-1090.
- Khanduja, V., Arora, A. and Garg, S. (2017). *Applications of big data in real world*. IEEE International Conference on Computing, Communication and Automation.
- Rani, P. (2016). *Implementation of optimized leach routing protocol for detection and prevention of sybil attack in WSN using BFS*. Poster, National Conference on Recent Trends in Computing and Communication Technologies.
- Rani, P. (2017). *A routing protocol based on stable increased throughput multi-hop protocol for wireless body area network*. Poster, National Conference on Recent Trends in Computing and Communication Technologies.
- Rani, P. (2017). *Issue and challenges in link prediction for social network*. Fourth International Conference on Computing for Sustainable Global Development.
- Sibal, R. (2017). *Adopting test automation on agile development projects: A grounded theory study of Indian software organizations*. Eighteenth International Conference on Agile Software Development, Accepted.
- Aggarwal, S. (2017). *Applications of computing with words in medicine*. IEEE International Conference on Fuzzy Systems, Accepted.

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## **ELECTRONICS AND COMMUNICATION ENGINEERING**

### **Major Activities and Achievements**

The Department offers B.E. programme in Electronics and Communication Engineering (ECE) with an intake of 184 students per year; M. Tech. programme in Signal Processing with an intake of 23 students per year;

and Embedded System and VLSI with an intake of 13 students. In addition, it offers Ph.D. programme in allied areas of ECE. Apart from teaching, faculty members and students have been vigorously pursuing research. The Department has various UG/PG and research laboratories which are equipped with state-of-the-art equipment and advanced software. There are two centres – Centre of Electronics Design and Technology (CEDT) and Texas Instruments Centre for Embedded Product and Design (TI-CEPD). A Summer/Winter Internship Programme is also Organised on Microcontroller based Embedded System Design under TI-CEPD, NSIT Delhi.

### **Publications**

- Aggarwal, A., Rawat, T. K. and Upadhyay, D. K. (2016). Optimal design of L1-norm based IIR digital differentiators and integrators using the bat Algorithm. *IET Signal Processing*, 11(1), 26-35.
- Aggarwal, A., Kumar, M., Rawat, T. K. and Upadhyay, D. K. (2017). Adaptive infinite impulse response system identification using modified-interior search Algorithm with levy flight. *ISA Transactions, (Elsevier)*, 67, 266-279.
- Bansal, U., Gupta, M., & Singh, U. (2017). Frequency compensation of two stage CMOS circuit using negative capacitance and flipped voltage follower. *Analog Integrated Circuits and Signal Processing*, 90(1), 175-18
- Bansal, U., and Gupta, M. (2017). Two stage class AB-AB amplifier using FGMOS for low voltage operation and SSF for frequency compensation. *AEU-International Journal of Electronics and Communications*, 73 (2017): 59-67.
- Bansal, U., Gupta, M., & Rai, S. K. (2017). GBW enhancement of a two stage amplifier using dual approach of feed-forward and passive compensation. *Majlesi Journal of Electrical Engineering*, 11(1).
- Sharma, N., Rawat, T. K., Parthasarathy, H. and Kumar, G. (2016). Realization of a Quantum Gate using gravitational search Algorithm by perturbing three-dimensional harmonic oscillator with an electromagnetic field, *Quantum Information Processing (Springer)*, 15(6), 2275-2302.
- Puri, P., Garg, P. and Aggarwal, M. (2016). Multiple user pair scheduling in TWR assisted FSO systems. *IEEE/OSA Journal of Optical Communications and Networking*, 8 (5).
- Sharma, P. K., Bansal, Garg, P., Tsiftsis, T. and Barrios, R. (2016). Relayed FSO communication with aperture averaging receivers and misalignment errors. *IET Communications*, 11 (1), 45-52.
- Iyer, S. and Singh, S. P. (2016). Spectral and power-efficiency investigation in single and multi-line-rate optical wavelength division multiplexed (WDM) networks, *Photon. Netw. Commun. Springer*, 33(1), 39-51.
- Iyer, S., Singh, S. P. (2017). Effect of channel spacing on the design of mixed line rate (MLR) optical wavelength division multiplexed (WDM) networks. *Journal of Optical Communications (JOC)*, doi /10.1515/joc-2016-0127

### **Seminar / Conference Presentation**

Urvashi Bansal, Maneesha Gupta (2017). Frequency compensated CDOA offering high gain and bandwidth, INDIACom-2017, 4th International Conference on Computing for Sustainable Global Development 1-3 March, 2017, Delhi.

### **Faculty Strength – 17**

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## **INSTRUMENTATION AND CONTROL ENGINEERING**

### **Major Activities and Achievements**

The Department is engaged in teaching and research in the field of Instrumentation & Control Engineering. Each year, we admit nearly 180 students for the graduate course through an All India Entrance Test; around 20 students in two post-graduate courses (M.tech in Process Control & Industrial Electronics) through GATE; and around 5-10 students in PhD. Our Department has some of the best teachers and the faculty members are engaged in frontline areas of research across basic instrumentation and control engineering field. Our faculty members regularly

publish their research findings in top-tier peer reviewed journals. We have published in Nature, Science and other high impact journals. Our faculty members are recognized world leaders in their fields who widely collaborate with International experts. Our teachers are regularly invited to share their novel research findings through keynote and plenary lectures at National and International Institutions.

### **Honours / Distinctions**

Prof. Smriti Srivastava:

Awarded Best Poster Presentation, for Project Based Learning in Engineering Education by BMS College of Engineering Bangalore and IUCEE, INDIA in Jan., 2015.

Awarded Best Paper Award by Springer and India for paper Multi-level Fusion of Palmprint and Dorsal Hand Vein in Information System Design and Intelligent Applications, Springer India in Dec., 2015.

Prof. Perna Gaur was awarded Outstanding Branch Counselor award by IEEE Section, New Delhi in 2016.

Prof. Perna Gaur and Prof. A.P.Mittal were awarded Best Paper Award for Paper Performance Evaluation of Cuckoo Search Algorithm based FOPID controllers applied to a Robotic Manipulator with Actuator by International Conference on Advances in Computer Engineering and Applications, INDIA.

### **Special Lectures / Workshops Organised**

One week short term Course organised by ICE division on Artificial Intelligence in Engineering Applications (AIEA), 26-30 Dec., 2016.

One week short term Course organised by ICE division on Advances in Soft Computing Techniques for Solving Engineering Problems (ASCTSEP), 17-21 July, 2017.

### **Publications**

Journals:

Gopal, Srivastava, S., Bhardwaj, S. and Bhargava, S. (2016). Fusion of palm-phalanges print with palmprint and dorsal hand vein. *Journal of Applied Soft Computing*. doi: 10.1016/j.asoc.2016.05.039

Srivastava, S., Gopal, and Bhardwaj, S. Multi-Scenario dataset for speaker recognition. *Journal of Intelligent and Fuzzy Systems*, IOS Press, (accepted).

Kumar, R., Srivastava, S. and Gupta, J. R. P. diagonal recurrent neural network based adaptive control of non-linear dynamical systems using lyapunov stability criterion. *ISA Transactions* (accepted).

Kumar, R., Srivastava, S. and Gupta, J. R. P. Modeling and adaptive control of nonlinear dynamical systems using radial basis function network. *Soft Computing*, 1-17. doi: 10.1007/s00500-016-2447-9

Kumar, R., Srivastava, S. and Gupta, J. R. P. (2016). Online modeling and adaptive control of robotic manipulators using Gaussian radial basis function networks. *Neural Computing and Applications* 1-17. doi: 10.1007/s00521-016-2695-8

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Chaudhary, G., Shefali Srivastava, and Srivastava, S. (2016). Biometric authentication using local subspace adaptive histogram equalization. *Journal of Intelligent and Fuzzy Systems*, IOS Press, (ccepted)

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Arora, P., Srivastava, S., Bhargava, S. & Hanmandlu, M. (2016). Multimodal biometric system based on Information Set Theory and Refined scores, *Soft Computing, Springer*, doi:10.1007/s00500-016-2108-z

- Tushir, M., Srivastava, S. (2016). Exploring different kernel functions for kernel based clustering. *international Journal of artificial intelligence and soft computing*, Inder Science, 5.3 177-193. doi: 10.1504/IJAISC.2016.078482
- Kler, D., Sharma, P., Banerjee, A., Rana, K. P. S., Kumar, V.. PV Cell and module efficient parameters estimation using evaporation rate based water cycle algorithm. *Swarm and Evolutionary Computation*, Elsevier. (Accepted)
- Prasad, T., K. P. S Rana, Kumar, V., Comments on design and modeling of an intelligent temperature to frequency converter. *Measurement*, 102, 138-141, Elsevier. doi:10.1016/j.measurement.2017.01.042
- Rana, K. P. S., Kumar, V., Gupta, A. (2016). A pole-radius-varying IIR notch filter with enhanced post-transient performance. *Biomedical Signal Processing and Control*, Elsevier, 13, 379-391, (Accepted). doi: 10.1016/j.bspc.2016.12.015
- Kumar, V., Rana, K. P. S., Kumar, J., Mishra, P., Self-tuned robust fractional order fuzzy PD controller for uncertain and nonlinear active suspension system. *Neural Computing and Applications*, Springer, doi: 10.1007/s00521-016-2774-x
- Kumar, V., and Rana, K. P. S., Nonlinear adaptive fractional order fuzzy PID control of a 2-link planar rigid manipulator with payload. *Journal of the Franklin Institute*, Elsevier. (Accepted) doi:10.1016/j.jfranklin.2016.11.006
- Rana, K. P. S., Kumar, V., Mitra, N., Pramanik, N. (2016). Implementation of fractional order integrator/differentiator on field programmable gate array. *Alexandria Engineering Journal, Science Direct*, Elsevier, 55 (2), 1765-1773 (Accepted). doi:10.1016/j.aej.2016.03.030
- Kumar, V., and Rana, K. P. S., (2016). Some investigations on hybrid fuzzy IPD controllers for proportional and derivative kick suppression. *International Journal of Automation and Computing*, Springer 13(5), 516-528, Accepted. doi:10.1007/s11633-016-1009-z
- Yadav, A. K., and Gaur, P., Speed control of an uncertain heavy duty vehicle using improved IMC technique. *The Arabian Journal for Science and Engineering*, Springer, 42(7), 2981-2991. (SCIE, Impact Factor – 0.865).
- Yadav, A. K., and Gaur, P., (2016). Improved self-tuning fuzzy proportional-integral derivative versus fuzzy-adaptive proportional-integral-derivative for speed control of nonlinear hybrid electric vehicles. *Journal of Computational and Nonlinear Dynamics*, ASME Transactions, 11(6), 061013-061013-7 (SCIE, Impact Factor – 1.732)
- Goyal, D. and Varshney, P. (2017). CCII and RC fractance based fractional order current integrator. *Microelectronics Journal*, 65, 1-10. doi: 10.1016/j.mejo.2017.05.002
- Kumar, V., Rana, K. P. S., Narang, S., (2017). Comparative study of type-2 and type-1 fuzzy PI controllers on sensor noise suppression in a control loop. *Journal of Control Engineering and Applied Informatics*, 19(2), 20-30, (SCI Index, Impact factor – 0.695)
- Kumar, V., Rana, K. P. S., Kumar, J., Mishra, P., and Nair, S. S. (2017). A robust fractional order fuzzy P + fuzzy I + fuzzy D controller for nonlinear and uncertain system. *International Journal of Automation and Computing*, Springer , 14(4), 474-488. doi:10.1007/s11633-016-0981-7
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- Rana, K. P. S., Kumar, V., Mendiratta, J. (2017). An educational laboratory virtual instrumentation suite assisted experiment for studying fundamentals of series resistance-inductance-capacitance circuit. *European Journal of Engineering Education*, Taylor and Francis Publication. (Accepted)
- Rana, K. P. S., Kumar, V., Prasad, T., (2017). Comments on development of an ANN-Based linearization technique for the VCO thermistor circuit. *IEEE Sensors Journal*, 17(4), 1187-1189. (SCI Index, Impact factor - 2.512)

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- Kumar, V., Rana, K. P. S. (2017). Nonlinear adaptive fractional order fuzzy PID control of a 2-Link planar rigid manipulator with payload. *Journal of The Franklin Institute*, Elsevier, 354(2), 993-1022. doi:10.1016/j.jfranklin.2016.11.006 (SCI Index, Impact factor - 3.139)
- Kumar, V., Rana, K. P. S., (2017). Comments on design of two-layered fractional order fuzzy logic controllers applied to robotic manipulator with variable payload. *Applied Soft Computing*, Elsevier, 51, 145-146. (SCI Index, Impact factor - 3.541)
- Rana, K. P. S., Kumar, V., Batra, A. (2016). FPGA resource requirements for thermistor linearization: A comparative study. *Experimental Techniques*, Springer, doi: 10.1007/s40799-016-0164-z (SCI Index, Impact factor - 0.932)
- Rana, K. P. S., Kumar, V., Mitra, N. Pramanik, N. (2016). Implementation of fractional order integrator/differentiator on field programmable gate array. *Alexandria Engineering Journal, Sciencedirect*, Elsevier, 55(2), 1765 - 1773. doi:10.1016/j.aej.2016.03.030
- Kumar, V., Rana, K. P. S., Mishra, P., (2016). Robust speed control of hybrid electric vehicle using fractional order fuzzy PD & PI controllers in cascade control loop. *Journal of The Franklin Institute*, Elsevier, 353(8), 1713-1714. doi:10.1016/j.jfranklin.2016.02.018 (SCI Index, Impact factor - 3.139)
- Mishra, P., Kumar, V., Rana, K. P. S., Intelligent ratio control in presence of pneumatic control valve stiction. *Arabian Journal for Science and Engineering*, Springer, 41(2), 677-689, doi: 10.1007/s13369-015-1853-0 (SCIE Index, Impact Factor-0.865)
- Rana, K. P. S., Kumar, V., Garg, Y., Nair, S. S., (2016). Efficient design of discrete fractional order differentiators using nelder-mead simplex algorithm. *Circuits, Systems & Signal Processing*, Springer, 35(6), 2155-2188, doi: 10.1007/s00034-015-0149-7 (SCIE Index, Impact Factor-1.694)
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- Jha, S. K. (2016). Implication of different facets of entrepreneurship: What India can contribute to the World? *Journal of Advances in Economics and Business Management (AEBM)*, 03(5), 554-559.
- Kumar, A. and Sharma, R., (2017). Lyapunov fuzzy markov game controller for two link robotic manipulator. Accepted in *Journal of Intelligent and Fuzzy Systems*, IOS Press, (SCI, IF 1.261).
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- Kumar, A. and Sharma, R., Linguistic lyapunov reinforcement learning control for robotic manipulators. Accepted in *Neurocomputing*, Elsevier, (SCI, IF 3.317)
- Nandan Km. Navin and Sharma, R., (2017). A fuzzy reinforcement learning approach to thermal unit commitment problem. Accepted in *Neural Computing and Applications*, Springer. (SCI, IF 2.505)
- Malik, H., Arora, P., and Sharma, R., (2017). Wind energy forecasting model for northern-western region of india using decision tree and mlp neural network approach. Accepted in *Interdisciplinary Environmental Review Journal*, Inderscience Publishers.
- Kumar, A. and Sharma, R., (2017). Fuzzy lyapunov reinforcement learning for nonlinear systems, *ISA transactions, Elsevier Sciences*, 67, 151-159. (SCI, IF 3.394)
- Malik, H. and Sharma, R., (2017). EMD and ANN based intelligent fault diagnosis model for transmission Line. *Journal of Intelligent & Fuzzy Systems*, 32, 3043-3050, (SCI, IF 1.261).
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Malik, H., Sharma, R. EMD and ANN based intelligent fault diagnosis model for transmission line. Accepted in *Journal of Intelligent and Fuzzy Systems*, IOS Press. (Impact Factor: 1.004). <http://www.iospress.nl/journal/journal-of-intelligent-fuzzy-systems/>

Malik, H., Mishra, S., (2016). application of gene expression programming (gep) in power transformers fault diagnosis using DGA. *IEEE Transactions on Industry Applications*, 99, doi: 10.1109/TIA.2016.2598677

Malik, H., Mishra, S., (2016). Artificial neural network and empirical mode decomposition based imbalance fault diagnosis of wind turbine using TurbSim, FAST and Simulink, *IET Renewable Power Generation*, doi: 10.1049/iet-rpg.2015.0382

Malik, H., Mishra, S., (2017). Selection of most relevant input parameters using principle component analysis for extreme learning machine based power transformer fault diagnosis model. Accepted for publication in *International Journal of Electric Power Components and Systems*. Taylor Francis.

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Parul, Malik, H., Sharma, R., (2017). Wind speed forecasting model for northern-western region of India using decision tree and multi-layer perceptron neural network approach. Accepted for publication in *International Journal of Renewable Energy Technology*, InderScience

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Malik, H., and Kumar, L. (2017). Transmission line faults diagnosis using wavelet and HHT based ANN model for energy management. Accepted for publication in *International Journal of Renewable Energy Technology*, InderScience

Yadav, A.K., Sharma, V., Malik, H., Chandel, S.S. (2017). Daily array yield prediction of grid-interactive photovoltaic plant using relief attribute evaluator based Radial Basis Function Neural Network. Accepted for publication in *Renewable and Sustainable Energy Reviews*, Elsevier. doi: <https://doi.org/10.1016/j.rser.2017.06.023>. (Impact Factor: 8.05).

#### **Book Chapter:**

Chaudhary, G., Srivastava, S., Bhardwaj, S., and Srivastava, S. (2016). Information fusion in animal biometric identification. In *Information Systems Design and Intelligent Applications*. Springer India.

Kumar, R., Srivastava, S., and Gupta, J. R. P. (2016). A soft computing approach for modeling of nonlinear dynamical systems. In *Advances in Intelligent Systems and Computing (AISC) series*, Springer.

Kumar, R., Srivastava, S., and Gupta, J. R. P. (2016). Soft computing technique based online identification and control of dynamical systems. Accepted in *Advances in Intelligent Systems and Computing Series*, Springer.

Chaudhary, Gopal, Srivastava Smriti and Bhardwaj Saurabh. (2016). Multi-level fusion of palmprint and dorsal hand vein. *Information Systems Design and Intelligent Applications*. (pp. 321-330). Springer India. doi: 10.1007/978-81-322-2755-7\_34

Arora, P., Srivastava, S., Chawla, A., Singh, S. (2016) Human gait recognition using fuzzy logic, computational intelligence, cyber security and computational models, Springer Singapore, vol. 412, pp. 277-287. doi: 10.1007/978-981-10-0251-9\_27

Arora, P., Srivastava, S., Jain, R., Tomar, P. (2016). Parametric curve based human gait recognition, *Information Systems Design and Intelligent Applications*, (pp. 367-375). Springer India. doi: 10.1007/978-81-322-2757-1\_37

Arora, P., Srivastava, S. and Shivank. Human gait recognition using gait flow image and extension neural network. *Advances in Intelligent Systems and Computing*, Springer, 380, 1-10. doi: 10.1007/978-81-322-2523-2\_1

Garg, G., Singh, V. (2016). Unified wavelet transform analysis adapted to different biomedical applications. *Intelligent Techniques for Data Analysis in Diverse Settings*, Book Series, (pp.1- 21). IGI Global Publishing.

Garg, G. & Singh, V. (2016). Selection of wavelet features for biomedical signals using SVM learning. *Intelligent Techniques for Data Analysis in Diverse Settings*, Book Series, (pp.306-315). IGI Global Publishing.

Kumar, J., Kumar, V., and Rana, K. P. S. (2016). control of complex systems using self organizing fuzzy controller. In *Advance in Chaos Theory and Intelligent Control, Studies in Fuzziness and Soft Computing*, 337, (pp. 753-772). Switzerland: Springer International Publishing. doi: 10.1007/978-3-319-30340-6\_31

Nair, S. S., Rana, K. P. S., and Kumar, V. (2016). Comparative analysis of different nature inspired optimization algorithms for estimation of 3D chaotic systems. In *Advance in Chaos Theory and Intelligent Control, Studies in Fuzziness and Soft Computing* 337, (pp. 773-790). Switzerland: Springer International Publishing. doi: 10.1007/978-3-319-30340-6\_32

#### **Conferences Proceedings:**

Kumar, R., Srivastava, S. and Gupta, J.R.P, *Artificial neural network based PID controller for online control of dynamical systems*, accepted in first International Conference on Power Electronics, Intelligent Control and Energy systems, IEEE (ICPEICES 2016) –DTU, New Delhi

Kumar, R., Srivastava, S. and Gupta, J.R.P, *Modeling and control of one-link robotic manipulator using neural network based PID controller*, accepted in International Conference on Advances in Computing, Communications and Informatics (ICACCI-2016)-LNMIIT, Jaipur.

Kumar, R., *Time series prediction using focused time lagged radial basis function network*, accepted in 2016 International Conference on Information Technology (InCITe-2016) - The next generation IT Summit.

Kumar, R., Srivastava, S., Dass, A., Srivastava, S. *Stock market prediction using neural networks*, Proceedings of the 11th INDIACom; INDIACom-2017; IEEE Conference ID: 40353, 4<sup>th</sup> International Conference on Computing for Sustainable Global Development, 01st - 03rd March, 2017 at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (Accepted).

Gopal, Srivastava, S., Bhardwaj, S., and Kiran, P. (2016). *Gaussian membership function based speaker identification using score level fusion of MFCC and GFCC*. In Proceedings of the International Congress on Information and Communication Technology, Springer, pp. 283-291. Springer Singapore, 2016. DOI: 10.1007/978-981-10-0767-5\_31.

Dass, A., Kumar, R., Srivastava, S., *Rough set and fuzzy set: A comparative Analysis*. Proceedings of the 11th INDIACom; INDIACom-2017; IEEE Conference ID: 40353, 4<sup>th</sup> International Conference on Computing for Sustainable Global Development, 1st - 3rd March, 2017 at Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (Accepted).

Gopal, Arora, P., and Srivastava, S., *Multimodal biometric authentication based on score level fusion of palmprint and iris*. Proceedings of the 11th INDIACom; INDIACom-2017; IEEE Conference ID: 40353 2017 4th International Conference on Computing for Sustainable Global Development, 01st - 03rd March, 2017 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (Accepted).

Arora, P., Gopal, and Srivastava, S. *Exploiting oriented gradient histogram for dorsal vein recognition* Proceedings of the 11th INDIACom; INDIACom-2017; IEEE Conference ID: 40353 2017 4th International Conference on Computing for Sustainable Global Development, 01 - 03 March, 2017 Bharati Vidyapeeth's Institute of Computer Applications and Management (BVICAM), New Delhi (Accepted).

Gupta, A., Kumar, V., and Rana, K. P. S., *Study of optimization methods for tuning of PID gains for three link manipulator control*, accepted for publication in the IEEE 7<sup>th</sup> International Conference, CONFLUENCE-2017: 7th International Conference on Cloud Computing, Data Science & Engineering held 12<sup>th</sup> - 13<sup>th</sup> Jan., 2017 at Amity University Uttar Pradesh, Noida, India.

Nair, S. S., Rana, K. P. S., Kumar, V., *Efficient second order digital IIR differentiator designs using cuckoo search algorithm*, accepted for the publication in IEEE International Conference on Signal Processing & Integrated Networks (SPIN-2017) held 2<sup>nd</sup> – 3<sup>rd</sup> Feb. 2017 at Amity University Uttar Pradesh, Noida, India.

Nair, S. S., Rana, K. P. S., Kumar, V., *Efficient FIR filter designs using constrained genetic algorithms based optimization*, Accepted for publication in 2<sup>nd</sup> International Conference on Communication Control and Intelligent System (CCIS-2016), Nov 2016, 18-20, GLA University, Mathura, Uttar Pradesh, India.

- Nair, S. S., Rana, K. P. S., Kumar, V., *Efficient 2nd order full band digital IIR integrator design using cuckoo search algorithm*, Accepted for publication in 2<sup>nd</sup> International Conference on Communication Control and Intelligent System (CCIS-2016), Nov 2016, 18-20, GLA University, Mathura, Uttar Pradesh, India.
- Bhatnagar, A., Narula, N. S., Kumar, V., Rana, K. P. S., *A Teacher-learning based optimization approach to tune backstepping controller for a single-link flexible-joint manipulator*. Accepted for publication in 2<sup>nd</sup> International Conference on Communication Control and Intelligent System (CCIS-2016), Nov 2016, 18-20, GLA University, Mathura, Uttar Pradesh, India.
- S. Gupta, S. Srivastava and P. Varshney, *Fractional order chaotic systems: A survey*, presented at International Conference on Computing, Communication and Automation (ICCCA2017), 5-6 May 2017.
- N. Shrivastava, and P. Varshney, *Analysis of fractional order systems with time delay*, presented at the 4th IEEE International Conference on Computing for Sustainable Global Development (INDIACom), 2017.
- D. Goyal, and P. Varshney. *CCII based realizations of half order PI Controller*. Presented in 2017 4th International Conference on Computing for Sustainable Global Development, Delhi, March. 2017.
- M. Mehrol, D. Goyal and P. Varshney, *DVCCTA based PID controller with grounded passive elements*, *Second International Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity (CIPECH)*, Ghaziabad, 2016, pp. 41-45. DOI: 10.1109/CIPECH.2016.7918734.
- M. Mehrol, D. Goyal and P. Varshney, *Differential voltage current conveyor transconductance amplifier based instrumentation amplifier*, *IEEE 1st International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES)*, Delhi, 2016, pp. 1-5. doi: 10.1109/ICPEICES.2016.7853350
- N. Shrivastava, and P. Varshney, *Comparative analysis of order reduction techniques*, in Proc. Second IEEE International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity, 2016, pp. 46-50.
- N. Shrivastava, and P. Varshney, *Implementation of high frequency fractional order differentiator*, in 2<sup>nd</sup> IEEE International Conference on Innovative Applications of Computational Intelligence on Power, Energy and Controls with their Impact on Humanity, 2016, pp. 267-270.
- Gaurav Kumar, Malik, H., *Generalized regression neural network based wind speed prediction model for western region of India*, in Elsevier Procedia Computer Science, 93, pp. 26-32, 2016. Doi: 10.1016/j.procs.2016.07.177.
- Gaurav Kumar, Sandeep Sharma, Malik, H., *Learning vector quantization neural network based external fault diagnosis model for three phase induction motor using current signature analysis*, in Elsevier Procedia Computer Science, vol. 93, Pp. 1010-1016, 2016. Doi: 10.1016/j.procs.2016.07.304.
- Garg, P., Soy, S. K., Mittal, A.P., Malik, H., Yadav, A. K., *Infogain Attribute evaluator and ANN based wind speed prediction model for Rajasthan, North-West region of India*, in Proc. of the Intl. Conf. on Nanotechnology for Better Living, Vol. 3, No. 1, Pp. 233, 2016. Doi: 10.3850/978-981-09-7519-7nbl16-rps-233.
- Malik, H., Mishra, S., *Application Of extreme learning machine (ELM) In Paper Insulation Deterioration Estimation of Power Transformer*, in Proc. of the Intl. Conf. on Nanotechnology for Better Living, Vol. 3, No. 1, Pp. 209, 2016. Doi: 10.3850/978-981-09-7519-7nbl16-rps-209.
- Sharma, R., Aggarwal, A., Malik, H., *Selection of most relevant input parameters using weka for artificial neural network based transmission line fault diagnosis model*, in Proc. of the Intl. Conf. on Nanotechnology for Better Living, Vol. 3, No. 1, Pp. 176, 2016. Doi: 10.3850/978-981-09-7519-7nbl16-rps-176.
- A.P. Mittal, Malik, H., Priya Garg and Soy, S. K., *Selection of most relevant input parameters using WEKA for artificial neural network based wind speed prediction model*, has been accepted for publication in Elsevier Perspectives in Science (ISSN:2213-0209), 17-19 March 2016, JNU Jaipur, India.
- Savita, Malik, H., Yadav, A. K. *Gene expression programming (GEP) based wind speed prediction for assessment of wind energy resource potential in Northwestern India*, has been accepted for publication in Elsevier Perspectives in Science (ISSN:2213-0209), 17-19 March 2016, JNU Jaipur, India.
- Savita, Ansari, M.A., Singh-Pal, N., Malik, H., *Wind speed and power prediction of prominent wind power potential States in India using GRNN*, Accepted in IEEE ICPEICES 2016 (Paper ID: [1570258195](#)), DTU Delhi on 4-6 July, 2016.



Malik, H., Aastha Aggarwal, Rajneesh Sharma, *Feature extraction using EMD and classification through probabilistic neural network for fault diagnosis of transmission line*, Accepted in IEEE ICPEICES 2016 (Paper ID: [1570274820](#)), DTU Delhi on 4-6 July 2016.

Malik, H., Savita, *Application of artificial neural network for long term wind speed prediction*, accepted in IEEE CASP-2016, at Pune, 9-11 June 2016.

Malik, H., Sukumar Mishra, *Application of gene expression programming (GEP) to investigate the health condition of direct-drive wind turbine using fast and turbsim*, accepted in IEEE IICPE 2016 (Paper ID: [1570316632](#)), Thapar University, Patiala, 17-19 Nov. 2016.

Malik, H. and Sukumar Mishra, *Application of fuzzy Q learning (FQL) technique to wind turbine imbalance fault identification using generator current signals*, accepted in IEEE PIICON-2016, Bikaner, on 25-27 Nov. 2016.

Abdul Azeem, Gaurav Kumar and Malik, H., *Artificial neural network based intelligent model for wind power assessment in India*, accepted in IEEE PIICON-2016, Rajasthan on 25-27 Nov. 2016.

Syed Saad and Malik, H., *Selection of most relevant input parameters using weka for artificial neural network based concrete compressive strength prediction model*, accepted in IEEE PIICON-2016, Rajasthan on 25-27 Nov. 2016.

Kukker, A., Sharma, R., and Malik, H., *Forearm movements classification of EMG signals using Hilbert Huang transform and artificial neural network*, accepted in IEEE PIICON-2016, Rajasthan on 25-27 Nov. 2016.

Abdul Azeem, Gaurav Kumar and Hasmat Malik, *Application of Waikato environment for knowledge analysis based artificial neural network models for wind speed forecasting*, accepted in IEEE PIICON-2016, Rajasthan on 25-27 Nov. 2016.

Yadav, A. K. Malik, H., Chandel, S.S., *Tilt Angle calculation for installation of PV systems for mountainous regions of Himachal Pradesh India*, accepted in IEEE [ICEPES](#) 2016, NIT Bhopal on 14-16 Dec. 2016.

Amit Kukker, Malik, H. and Rajneesh Sharma, *Empirical mode decomposition and Hilbert Huang transform based decision tree approach for forearm movement classification*, accepted in IEEE INDIACom 2017, Delhi on 01-03 March 2017.

Kumar, L., Malik, H. and Sharma, R., Kukker, A., *Wavelet and Hilbert Huang transform based transmission line fault classification model using K-nearest neighbour algorithm*, accepted in IEEE INDIACom 2017, Delhi on 1-3 March, 2017.

Parul, Malik, H. and Sharma, R., *Multilayer Perceptron Neural Network Based Wind Speed Prediction Model for Northern and Western Region of India*, accepted in IEEE INDIACom 2017, Delhi on 01-03 March 2017.

Jha, S. K., A. K. Yadav and P. Gaur, (2016). *Various Intelligent Control Techniques for Attitude Control of an Aircraft System*, IEEE 3rd International Conference on Computing for Sustainable Global Development, BVICAM, N. Delhi, 16-18 March, 2016.

Jha, S. K. and Dass, A. (2016). *Investigative Analysis of Bio-Inspired Robust Controller for a CNC System*, IEEE 3rd International Conference on Computing for Sustainable Global Development, BVICAM, 16-18 March, 2016.

### **Conference Attended / Organised**

8<sup>th</sup> International Conference on Science, Technology and Management 2 July, 2017

7<sup>th</sup> IEEE Power India International Conference, PIICON 2016, Nov. 25-27, GEC, Bikaner, Rajasthan.

IEEE 3rd International Conference on Computing for Sustainable Global Development, BVICAM, N. Delhi, 16-18 March, 2016.

### **Ph.D. Awarded**

Ph.D. – 3

### **Faculty Strength**

Permanent – 18

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## MANUFACTURING PROCESSES & AUTOMATION ENGINEERING

### Major Activities & Achievements

The Department offers two B.E. programmes – Manufacturing Processes & Automation Engineering (MPAE;) and Mechanical Engineering (*M.E.*), with an intake of 120 and 60 students respectively. It also offers M.Tech. programme in Production Engineering (*PE*) and Engineering Management (*EM*) with an intake of 18 students in each branch. In addition, it offers Ph.D. programme in allied areas of MPAE/ME.

Besides the conventional labs like Material testing, Welding, Metrology and a well-equipped Workshop, the department has laboratories related to Advance Welding, Mechanical Sciences, Computer Integrated Manufacturing, Robotics & Artificial Intelligence etc. with facilities like EDM, CNC, FMS, UTM, FDM, Robotics, ECM, SAW, Central Lathe, Shapers, UMM, VMM, Muffle and Controlled Atmosphere furnaces.

### Publications

Singh, B., Khan, Z. A., Siddiquee, A. N., Maheshwari, S. (2016). Effect of CaF<sub>2</sub>, FeMn and NiO additions on impact strength and hardness in submerged arc welding using developed agglomerated fluxes. *Journal of Alloys and Compounds*, Elsevier, . 667, 158–169.

Srivastava, M., Maheshwari, S., Kundra, T. K., Yashaswi, R. (2016). integration of fuzzy logic with response surface methodology for predicting the effect of process parameters on build time and model material volume in fdm process. Springer, *CAD/CAM, Robotics and Factories of the Future*.

Srivastava, M., Maheshwari, S., Kundra, T. K., Rathee, S. (2016). Experimental investigation of process parameters for build time estimation in FDM process using RSM technique. *CAD/CAM, Robotics and Factories of the Future*. Springer.

Agarwal, V., Parthasarathy, H (2016). Disturbance estimator as a state observer with extended kalman filter for robotic manipulator. *Nonlinear Dynamics*, Springer. Impact factor: 3, 84(4), 1-17.

Singla, R., Agarwal, V., Parthasarathy, H., Rana, R. (2016). Feedback optimization problem for master-slave teleoperation tracking in the presence of random noise in dynamics and feedback. *Nonlinear Dynamics*, Springer. Impact factor: 3, doi: 10.1007/s11071-016-2908-9, 1-28

Nagpal, N., Bhushan, B., Agarwal, V. (2016). Estimation of stochastic environment force for master-slave robotic system. *Sadhana*, Springer. Impact factor: 0.476

Bajpai, P. K. (2016). Green composite materials based on biodegradable polyesters. *Biodegradable Green Composites*, 9 299.

Tevatia, A. and Srivastava, S. K. (2016). Influence of residual thermal stresses on fatigue crack growth life of discontinuous reinforced metal matrix composites. *Fatigue and Fracture of Engineering Materials and Structures*. doi: 10.1111/ffe.12477

Rathee, S., Maheshwari, S., Siddiquee, A. N., Srivastava, M. (2016). Effect of tool plunge depth on reinforcement particle distribution in surface composite fabrication via Friction Stir Processing. *Defence Technology*, Scopus Index, Elsevier, ISSN: 2214-9147

Rathee, S., Maheshwari, S., Siddiquee, A. N., Srivastava, M. (2016). Process parameters optimization for enhanced microhardness of AA 6061/ SiC surface composites fabricated via Friction Stir Processing (FSP). *Materials Today Proceedings*, Elsevier, Scopus Index, 3(10), Part B, 4151-4156, ISSN: 2214-7853

Rathee, S., Maheshwari, S., Siddiquee, A. N., Srivastava, M. (2016). Analysis of microstructural changes in enhancement of surface properties in sheet forming of al alloys via friction stir processing. *Materials Today Proceedings* Elsevier, Scopus Index, ISSN: 2214-7853

Sharma, S. K. and Maheshwari, S. (2017) Arc characterization study for submerged arc welding of HSLA (API X80) steel. *Journal of Mechanical Science and Technology*, 31(3), 1383-1390, SCI & Scopus indexed . ISSN 1976-3824

Sharma, S. K. and Maheshwari, S. (2016). Multi-objective optimization of HAZ characteristics for submerged arc welding of micro-alloyed high-strength pipeline steel using GRA-PCA approach. *Journal for Manufacturing*

*Science & Production, (De-Gruyter), 16(4)*, pp 263–271, doi: <https://doi.org/10.1515/jmsp-2016-0027>, ISSN 2191-0375 (Emerging source citation index)

Sharma, S. K. and Maheshwari, S., Rathee, S. (2016). Multi-objective optimization of bead geometry for submerged arc welding of API X80 pipeline steel using RSM-fuzzy approach. *Journal for Manufacturing Science and Production, (De-Gruyter), 16(3)*, 141-151. doi: <https://doi.org/10.1515/jmsp-2016-0009>. ISSN 2191-0375

Rathee, S., Maheshwari, S., Siddiquee A.N., and Srivastava, M., Sharma, S.K. (2016). Process parameters optimization for enhanced microhardness of AA 6063/ SiC surface composites fabricated via Friction Stir Processing (FSP). *Materials Today: Proceedings* (Elsevier), 3(10), Part B, 4151–4156.

Srivastava, M., Maheshwari, S., Kundra, T. K., Rathee, S., Sharma, S.K. (2016). Virtual design, modelling and analysis of functionally graded materials by fused deposition modeling. *Materials Today: Proceedings* (Elsevier), 3(10), Part B, 3660-3665, Scopus indexed.

Singh, B., Khan, Z. A., Siddiquee, A. N., Maheshwari, S., Sharma, S. K. (2016). Effect of flux composition on tensile strength and percentage elongation of welds, *Archives of Mechanical Engineering, (De-Gruyter), 63(3)*, 337-354, doi:10.1515/meceng-2016-0019

#### **Conference Proceedings:**

Shandley, R., Narasimulu, A. *Effect of marble powder concentration on mechanical properties of unsaturated polyester resin for the development of rock climbing holds*. International Conference on Advances in Materials & Manufacturing (ICAMM-2016), (pp. 569-575), Dec. 8-10, 2016, Hyderabad, , ISBN: 978-93-86256-19-5

Rathee, S., Maheshwari, S., Siddiquee, A. N. Srivastava, M. (2016). *Production of AA6063/SiC surface composites using friction stir processing*, 4<sup>th</sup> International conference on Production and Industrial Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, ISBN- 978-93-5267-403-9.

Rathee, S., Maheshwari, S., Siddiquee, A. N. Srivastava, M (2016)., *Synthesis of AA6082/SiC surface composites using friction stir processing*, India International Science Festival 2016, NPL campus, 7-11 Dec. 2016.

Sharma, S. K. and Maheshwari, S. (2016). *Effects of process parameters on arc characteristics of submerged arc welding*. Proceedings of International Conference on Advanced Production and Industrial Engineering (ICAPIE-2016), (pp. 265-269). 9-10 Dec., 2016, DTU-Delhi, ISBN: 978-93-85909-51-1,

Sharma, S. K. and Maheshwari, S. (2016). *Hydrogen embrittlement in welded structures of high strength pipeline steels*. IVth International Conference on Production & Industrial Engineering (CPIE-2016), (pp. 19-21) Dec., 2016, NIT-Jalandhar, Punjab.

Agarwal, V. (2016). *An extended kalman filter for real time estimation and control of Omni robot with stochastic noise*. IEEE Advancing Technology for Humanity, INDIACom-2016; ISSN 0973-7529. ISBN 978-93-80544-20-5

Bhardwaj, A., Jain, A., Agarwal, V. (2016). *Preoperative planning simulator with haptic feedback for Raven-II surgical robotics platform*. IEEE Advancing Technology for Humanity, (pp. 3642-3647).

#### **Research Projects**

AICTE, 2013, sRobotics Robotic Surgery Setup Simulation with Haptics, Rs. 13,41,667/-

DST, 2014, sRobotics Preoperative planning system for surgical Robotics using AI and Haptics, Rs. 21,98,600/-

#### **Faculty Strength – 16**

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## COLLEGES

### ACHARYA NARENDRA DEV COLLEGE

#### Major Activities and Achievements

ANDC, certified with 'Grade A' with 'Score 3.31' by NAAC was recognized as 'Star College' by DBT, Govt. of India with seven Science Departments being recognised as Star Departments. ANDC was awarded an 'Incubation Centre' for three years by the Department of Training and Technical Education, GNCTD with a grant of Rs. 1.5 Crores per year. A *Science Setu* programme was initiated in collaboration with THSTI (Translational Health Science and Technology Institute) to bridge the gap between classroom Science teaching and research. Dr. Ravi Toteja and Dr. Gagan Dhawan were awarded Meritorious Teacher's Award 2016 and UGC Raman post-doctoral Fellowship for research at USA, respectively. Two Innovation Projects were recognized as 'Most Promising Innovation' at DU, three students were conferred Science Meritorious Award of the University and four got awards as 'Topper Meritorious Students (2015-16)' by the DHE, GNCTD. One post-doctoral fellow, one research associate and fourteen research scholars are currently carrying out Ph.D. programme under the supervision of faculty in five departments in the college. Six students have been awarded Ph.D. degree so far. This year one scholar has submitted the thesis and three research scholars have registered with the ANDC faculty for Ph.D.

#### Honours / Distinctions

Dr. Savithri Singh (Principal):

Member, Inter-disciplinary and Applied Science Course Admission Committee, DU, 2017

Invited panelist on discussion of 'Academic integrity in digital world' in the 5<sup>th</sup> International Conference on Digital Libraries (ICDL 2016) organised by TERI; Dec. 13-16, 2016.

Invited for World Teacher's Day Forum and 'Expert meeting on facilitating teachers' use of OER' organised by Asia and Pacific Bureau of Education, UNESCO, Bangkok; Oct. 5-6, 2016

Expert in meeting for review of SSPP (Secondary School Preparedness program), NCERT, May 4, 2016

Member, Committee for successful implementation of State Project Directorate - Rashtriya Uchchar Shiksha Abhiyan (RUSA), Directorate of Higher Education since Feb. 2016.

Dr. Ravi Toteja, received Meritorious Teacher Award 2016, by Directorate of Higher Education, Govt. of NCT of Delhi.

Dr. Gagan Dhawan was the recipient of UGC Raman Fellowship for Post Doctoral Research at the University of Massachusetts, Boston, USA for 2016-17.

Dr. Urmi Bajpai featured in Indiabioscience series of interviews with undergraduate teachers across India on 'Teachers weigh in' on March 30, 2017.

#### Students with Distinction

Ankit Pant, B.Sc. (H) Computer Science, won the Silver Jubilee Award for the Best Student category (Rs. 10,000).

Balbeer Singh, B. Sc. (H) Mathematics-IV, secured II position in the University.

Aayush Kumar, B. Sc. (H) Chemistry-VI, secured II position in the University.

Priyanka Dasgupta, B. Sc. (H) Zoology-VI, secured III position in the University.

Madan Khatiwada, B. Sc (H) Biomedical Science-IV, secured III position in the University.

M. Sridevi B. Sc. Physical Science-II, secured I position in the University (South Campus).

Aditi Sharma B. Sc. Life Science-II, secured I position in the University (South Campus).

#### Publications (Selected)

Chandra, S., Hooda, S., Tomar, P.K., Malik, A., Kumar, A., Malik, S. & Gautam, S., (2016). Synthesis and characterization of bis nitrate [4-hydroxy acetophenone semicarbazone] nickel (II) complexes ionophore for thiocyanate-Selective Electrode. *Material Science and Engineering C*, 62, 18-27.

- Chowdhuri, A. & Gupta, C.K. (2017). Assessment of Particulate Matter (PM) concentrations at a typical construction site in Bangalore, India. *International Research Journal of Environment Sciences*, 6(2), 1-5.
- Eniyan, K., Kumar, A., Rayasam, G.V., Perdih, A. & Bajpai, U. (2016). Development of a one-pot assay for screening and identification of *Mur* pathway inhibitors in *Mycobacterium tuberculosis*. *Scientific Reports*, 6, 35134.
- Gupta, C.K. & Chowdhuri, A. (2016). Diminishing public health due to Particulate Matter in the ambient. *International Journal of Engineering Research and Allied Sciences (IJERAS)*, 1(9), 1-5.
- Gupta, C.K., Singh, S., Singh, A., Yagnik, P., Das, B.K. & Chowdhuri, A. (2016). A particulate matter based real-time analysis of odd-even car experiment in Delhi. *DU Journal of Undergraduate Research and Innovation*, 2(1), 31- 39.
- Kumar, R., Arya, D.K. & Singh, N. (2016). Comparative study of heavy metal concentrations in Yamuna River sediment and other rivers. *Journal of Pharmaceutical and Biomedical Analysis Letters*, 4(2), 34-42.
- Kumar, R., Arya, D.K., Singh, N. & Vats, H.K. (2016). Comparative study of removal of Cu and Pd from aqueous solution by using modified rice husk ash and adsorbent. *IOSR Journal of Engineering (IOSRJEN)*, 6 (2), 1-5.
- Naqvi, I., Gupta, R., Makhija, S., Toteja, R., Abraham, J.S., Sripoorna, S. & El-Serehy, H.A. (2016). Morphology and morphogenesis of a new oxytrichid ciliate, *Notohymena limus* n. sp. (Ciliophora, Oxytrichidae) from Delhi, India. *Saudi Journal of Biological Sciences*, 23 (6), 789-794.
- Pant, A., Gupta, A., Gupta, A., Giri, V., Gaur, V. & Kaur, R. (2016). Low cost navigation system for visually impaired. *Advances in Computer Science and Information Technology (ACSIT)*, 3(5), 422-425.
- Sharma, A., Kumar, S., and Tripathi, P. (2016). Evaluation of the larvicidal efficacy of five indigenous weeds against an Indian strain of dengue vector, *Aedes aegypti* L. (Diptera: Culicidae). *Journal of Parasitology Research*. 1-8.

#### Teachers serving as Editor(s)/Member(s) of Editorial Board – 7

##### Research Projects

- Dr. Arijit Chowdhuri, Dr. Charu Khosla Gupta, Dr. Savithri Singh. DST (Indo-Slovenia joint project), 2015-2018, Exposure-Response assessment of Ambient Air Pollution (AAP) and Hg contamination in affected cities of India and Slovenia: A comparative study, Rs. 16.11 Lakhs.
- Dr. Charu Khosla Gupta (Botany), Dr. Sarita Kumar (Zoology). DU Innovation project, 2016-2017, ANDC 301, Development of low-cost, robust, portable water purifier prototype with physical, chemical and biological filtration for field water disinfection and potable water generation in natural calamity afflicted zones with harsh conditions. Rs. 6 Lakhs.
- Dr. Monisha Khanna & Mr. Ravinder Kumar Sagar (Zoology), Dr. Sunita Hooda (Chemistry). DU Innovation project, 2016-2017, ANDC 302, Biodegradation of wastes by microbial extracellular enzymes. Rs. 6.50 Lakhs.
- Dr. Ravi Toteja & Dr. Seema Makhija (Zoology), Dr. Geetu Gambhir (Chemistry). DU Innovation project, 2016-2017, ANDC 303, Ciliate diversity as cellular tool to assess soil quality. Rs. 6.50 Lakhs.
- Dr. Arijit Chowdhuri (Physics), Dr. Chaman Singh & Dr. Sadanand Prasad (Mathematics). DU Innovation project, 2016-2017, ANDC 304, Development of portable electronic nose with autonomous & stand-alone operation for quantified Ambient Air Pollution(AAP) measurement wireless data transfer protocol on android enabled mobile phones. Rs. 6 Lakhs.
- Dr. Pankaj Khanna & Dr. Neeti Misra (Chemistry), Dr. Vibha Gaur (Computer Science). DU Innovation project, 2016-2017, ANDC 305, Designing a virtual chemistry lab for undergraduate students. Rs. 6 Lakhs.
- Dr. Gagan Dhawan (Biomedical Science), Dr. Seema Gupta & Dr. Pooja Bhagat (Chemistry). DU Innovation project, 2016-2017, ANDC 306, The design, synthesis and biological evaluation of oxindole based isoxazolines towards the analog synthesis of marine natural product Flustraminol-B. Rs. 4.50 Lakhs.
- Dr. Sunita Narang (Computer Science) Dr. Shalu Mahajan & Dr. Surinder Kaur (Commerce). DU Innovation project, 2016-2017, ANDC 307, Digital India: Challenges and opportunities. Rs. 3.50 Lakhs.
- Dr. Geetika Kalra & Dr. Saumya Saxena (Botany), Dr. Manisha Jain (Chemistry). DU Innovation project, 2016-2017, ANDC 308, Analysis of the Efficacy of Plant Sources Recommended As Brain Tonics. Rs. 4 Lakhs.

Dr. Mamta Bhatia & Dr. Subhash Kumar (Physics), Ms. Sunita Jetly (Biomedical Science). DU Innovation project, 2016-2017, ANDC 309, Leveraging Big Data For Astronomy And Health Care. Rs. 5 Lakhs.

Dr. Roopesh Tehri (Mathematics), Dr. Harita Ahuja (Computer Science). DU Innovation project, 2016-2017, ANDC 310, Development of an all-in-one module for real time agricultural data acquisition and processing. Rs. 5 Lakhs.

Dr. Amit Garg and Mr. Vishal Dhingra (Electronics), Dr. Abhishek Kumar Mehta (Biomedical Science). DU Innovation project, 2016-2017, ANDC 311, Development of a Multi-Sensor Gesture Controlled Wheelchair System for Persons With Disability. Rs. 5 Lakhs.

#### **Seminars Organised (Selected)**

Prof. Pawan Kumar Dhar, School of Biotechnology, Jawaharlal Nehru University on 'Role of Innovation in the Growth of Science', Feb. 2, 2017.

Prof. D.S. Desiraju, IISc Bengaluru, 'Crystallography', March 25, 2017.

Mr. Anuj Bhasin, Regional Marketing Manager, ICICI Securities Pvt. Ltd, 'A Port Key to the Stock World', Feb. 6, 2017.

Dr. Arun Sharma, Deputy Dean (Information Affairs) and Associate Professor (IT Department, Indira Gandhi Delhi Technological University for Women, Delhi), 'Research Issues on Automatic Computing', Oct. 3, 2016.

Prof. Shibnath Mazumdar, Department of Zoology, University of Delhi, "The Good, the Bad and the Ugly of the Immune System", Feb. 21, 2017.

#### **Workshops / Conferences Organised (Selected)**

Workshop on 'Gender Sensitization Amongst Youth' on Jan. 24-25, 2017 and One-day Accounts Functionaries Training Workshop 'Understanding Accrual System of Accounting' on Jan. 24, 2017; organised by IQAC of Acharya Narendra Dev College.

Workshop for teachers for online Attendance and Internal Assessment, e-content hosting and online assessment, online leave applications and leave record; Sept. 16, 2016 and Jan. 9, 2017; at Acharya Narendra Dev College through College Automation Software.

Innovation Conclave- 2016: Nurturing research at the UG level, a two-day symposium organised under the aegis of Silver Jubilee celebrations; Oct. 25-26, 2016, at Acharya Narendra Dev College (University of Delhi) Govindpuri, Kalkaji, New Delhi, India.

One-day Accounts Functionaries Training Workshop 'Understanding Accrual System of Accounting', Jan. 24, 2017 at Acharya Narendra Dev College. Thirty-three account functionaries from various colleges of University of Delhi, AUD and Sangeet Natak Academy participated in the workshop.

Workshop on 'Segregation of Recyclable Waste and Management at Source' organised by eco-club of Acharya Narendra Dev College on Oct. 6, 2016 to sensitize the students and staff about reducing the burden on landfills, keeping the environment clean, conserving natural resources and saving energy.

#### **Seminars / Conference Presentation (Selected)**

Abraham, J.S., Somasundaram, S., Jangra, S., Yadav, K., Singh, S., Zutshi, S., Singh, B., Dagar, J., Kumar, A., Goyal, A., Bhatnagar, M., Upadhaya, M., Choudhary, A., Toteja, R., Gupta, R., Gambhir, G. & Makhija, S. (2016) "Biodiversity and community structure of soil ciliates collected from three different sites of Delhi, India to assess soil quality." PROTIST-2016 Forum, Moscow, June 6-10, 2016, pp 5.

Bhatia, M. (2016) "Open Education in the Indian context: new approaches and challenges." 13<sup>th</sup> International Conference on Open Education. Richmond, USA. Nov. 3-5, 2016.

Bhatia, M. (2016) "Skill Development Challenge: Ideating the role of Community Colleges; Going Global 2016." British Council. Cape Town, S. Africa. May 2-4, 2016.

Chowdhuri, A. & Gupta, C.K. (2016) "Remote monitoring of landfill gas concentrations in real-time from MSW landfills in Delhi using portable and autonomous Electronic Nose." International Conference on Strategies for

Environmental Protection and Management (ICSEPM - 2016) Jawaharlal Nehru University, New Delhi. Dec. 11-13, 2016. pp: ES2 – ES3.

Dhingra, V., Kumar, S., Garg, A. & Chowdhuri A (2016) “Graphene Oxide (GO) thin films loaded with Cu and Ag nanoparticles for gas sensing applications.” 2<sup>nd</sup> International Conference on Recent Advances in Nanoscience and Nanotechnology-2016 (ICRANN-2016). Special Centre for Nano Sciences, Jawaharlal Nehru University, New Delhi. Dec. 19-20, pp: 107.

Eniyan, K., Kumar, A., Rayasam, G.V., Perdih, A. & Bajpai, U. (2016) “Development of a one-pot assay for screening novel inhibitors targeting Mur enzymes of peptidoglycan biosynthesis.” 7<sup>th</sup> EMBO meeting 2016. Mannheim, Germany. Sept. 10-13, 2016.

Gupta, C.K., Kocman, D. & Chowdhuri, A. (2016) “Comparison of atmospheric mercury (Hg) concentration levels in air at Hg mine area in Idrija, Slovenia and wholesale gold market in Dariba Kalan, Delhi, India.” International Conference on Strategies for Environmental Protection and Management (ICSEPM - 2016). Jawaharlal Nehru University, New Delhi. Dec. 11-13, 2016. pp: 3 – 4.

Hooda, S., Gambhir, G., Agarwal, S., Srivastava, H. & Sharma, D. (2016) “Determination of some soft drink constituents and contamination by some heavy metals.” International Conference on Green Chemistry in Environmental Sustainability (ICGC-2016). Department of Chemistry, Daulat Ram College, New Delhi. Nov. 17-18, 2016. pp: 03.

Kumar, S. & Singh, S. (2017) “A study on awareness of ‘OER’ among content creators.” OE Global Conference 2017: March 8 -10, 2017, Cape Town, South Africa.

Kumar, S., Garg, A. & Chowdhuri, A. (2016) “Comparison of water purification properties of Cu and Ag nano particles decorated graphene Oxide (GO) membranes.” 2<sup>nd</sup> International Conference on Recent Advances in Nanoscience and Nanotechnology-2016 (ICRANN-2016). Special Centre for Nano Sciences, Jawaharlal Nehru University, New Delhi. Dec. 19-20, 2016.

Kumar, S., Garg, A. & Chowdhuri, A. (2016) “Development of Graphene Oxide (GO) membrane embedded with Cu nanoparticles for water purification applications.” International Conference on Advances in Nanomaterials and Nanotechnology. Jamia Millia Islamia, Delhi. Nov. 4-5, 2016.

Kumar, S., Gupta, C.K. & Singh, S. (2017) “OER adoption by University of Delhi, India: Student’s Readiness and Acceptance.” OE Global Conference 2017: March 8 -10, 2017, Cape Town, South Africa

Saxena, R., Kaur, S., Dash, D. & Bhatnagar, V. (2016) “Leveraging Structural Hierarchy for Scalable Network Comparison.” 27th International Conference on Database and Expert Systems Applications - DEXA 2016, Porto, Portugal, Sept. 5-8, 2016, pp: 287-302.

Shandheep, A., Vajpayee, S., Arora, H., Tiwari, S., Gupta, S., Kumar, R., Arora, K., Mittal, N., Mewari, K., Gupta, S., Bhagat, P., Biswas, K. & Dhawan, G. (2016) “Design, synthesis and biological evaluation of oxindole- based isoxazolines towards the analog synthesis of marine natural product Flustraminol-B.” International Conference on Green Chemistry in Environmental Sustainability and Chemical Education. DRC, DU, New Delhi. Nov. 17-18, 2016.

Somasundaram, S., Abraham, J.S., Toteja, R., Gupta, R. & Makhija, S. (2016) “Molecular defence mechanisms in spirotrich ciliates to prevent heavy metal toxicity.” PROTIST-2016 Forum, Moscow, June 6-10, 2016, pp 76.

Somasundaram, S., Abraham, J.S., Toteja, R., Makhija, S. & Gupta, R. (2016) “Evaluation of acute toxicity of heavy metals and the activity of antioxidant enzymes in freshwater ciliates.” PROTIST-2016 Forum, Moscow, June 6-10, 2016, pp 77.

Kumar, S. presented two papers at International Conference ‘OE Global 2017’ held at Cape Town, South Africa; March 8-10, 2017 and chaired two sessions at 26<sup>th</sup> Biennial International Conference of the Asian Association for Biology Education ‘Trends in Biology Education & Research: Practices & Challenges’, Goa, India Sept. 20-23, 2016.

Samal, C. K. chaired a session in the International Conference on Computing Communication and Automation (ICCCA2016); Galgotias University; April 29-30, 2016.

Bhatia, M. was invited by National Law University, Delhi to give a talk on “Legal services: Workforce Development under Skill Development Initiatives of India,” on July 22, 2016.

### **National / International (MoUs)**

MoU signed between Acharya Narendra Dev College (ANDC) and Translational Health Science and Technology Institute (THSTI), Faridabad in July 2016 for Science *Setu* programme. The programme has been initiated to bridge the gap between classroom Science teaching and research. Scientists from THSTI will actively share their research interests with undergraduate students and will provide opportunities to students to work on short-term projects at THSTI under their guidance.

### **Student under Exchange Programmes**

Inbound/Outbound – 01

Pagmadulam Baldorj from Mongolia (Research Training Fellowship for Developing Country Scientists (RTF-DCS) Trainee), sponsored by NAM S&T Centre, worked on the project ‘Molecular biodiversity of microorganisms isolated from Mongolia and screening for effective and industrially important strains’ in Department of Zoology, ANDC, under the mentorship of Dr. Monisha Khanna (Jan 2016 – Jul 2016).

### **Placement Details**

Students Placed – 88 (55%)

Companies/Industries visiting Campus for Recruitment –12

### **Extension and Outreach Activities**

The NSS team organised many cleanliness drives within and outside the college campus under *Swachh Bharat Abhiyaan*. The college has adopted five villages and a poster making competition was organised in the schools of adopted villages to create awareness about cleanliness and sanitization. A day long camp for thalassemia screening was organised for students and faculty members on Sept. 26, 2016 during which 14 students voluntarily donated blood. The annual Diwali Mela (*SAHYOG*) was organised on Oct. 21, 2016 where several NGOs working towards strengthening of the spirits of the underprivileged participated. An amount of Rs.1,00,000/- was raised for these NGOs. In an effort to fight corruption and as part of *Vittiya Saksharta Abhiyan*, NSS members visited rural areas and small local vendors making them aware about many apps and their benefits. NSS members also volunteered to work with *Muskan*, an NGO, and helped to boost the NGO’s sales (of goods made by mentally-challenged children). An anti-cracker campaign was organised on Oct. 21, 2016. The students marched, holding banners denouncing the use of crackers from the college campus to Govindpuri residential area, market area and metro-station to educate children and residents about the ill effects of burning crackers. An environmental health sensitization workshop was organised on Feb. 17, 2017, to raise awareness about the health threats posed by various environmental exposures. *Sashakt*, the society for women empowerment organised a two-day workshop on ‘Gender Sensitisation amongst Youth’ on Jan. 24-25, 2017, to create awareness about gender equality among the youth. On International Women’s day, March 8, 2017, a student’s rally was organised in Govindpuri to create awareness about women’s empowerment and gender equality. A visit was organised for the Gender Champions and Students’ Council members to Saket Court Complex on Feb. 20, 2017 to introduce them about DSLSA activities, Mahila Courts and Fast-track Courts.

### **Library Development**

The college introduced Radio Frequency Identification (RFID) based Library Management System on Aug. 19, 2016. Annual Book Exhibition was held from Sept. 20-21, 2016 in the college library for the faculty and students. Approximately 630 books and 2 journals were added to the library this year. The total numbers of books, journals and magazines in the library have now reached 29679, 18 and 10, respectively.

### **Faculty Strength**

Permanent – 73; Ad-hoc – 52 (Odd Sem); 49 (Even Sem)

### **Financial Allocation and Utilisation**

Grant Sanctioned – Rs. 25,71,00,000/-

Grant Utilised – Rs. 23,43,68,087/-

### **Other Significant Information**

Dr. Savithri Singh, Principal, is a member, National Resource Group (NRG) on ICT in School Education, constituted by the Ministry of Human Resource Development, Government of India since 2015



Faculty members viz. Dr. Monisha Khanna, Dr. Sarita Kumar, Dr. Urmi Bajpai, Dr. Sunita Hooda, Dr. Amit Garg, Dr. Udaibir Singh, Dr. Sharanjit Kaur, Dr. Vibha Gaur, Dr. Seema Makhija, Dr. Gagan Dhawan, Dr. Sadanand Prasad, Dr. Chaman Singh and Dr. Laxmi Narain are recognized Ph.D. research supervisors from University of Delhi.

The college offers 'ELITE Scheme' (Education in a Lively Innovative Training Environment) under which ANDC students undertake short research projects during summer vacations (two months). College provides them with a fellowship of Rs. 1,000/- per month. In the summers of 2016, 96 undergraduate students worked under the ELITE research projects.

Use of ERP for attendance as well as internal assessment, online examination, result analysis, online leave applications, access to own leave ledger, SMS and meeting notices, online service request etc. The ground floor of the building has been made accessible to PwD by constructions of ramps with hand railings at all places. Online system of fee deposit has been started so there is no need to stand in counters outside accounts section. Important college information is shared through SMS with all students as well as teaching and non-teaching faculty along with e-notices.

In 2016-2017, four ANDC faculty members authored text books/contributed chapters in books/reviewed text books, two faculty members uploaded educational e-content on web and two faculty members were resource persons in workshops dealing with review and update of syllabi, school text books by NCERT and Teachers training workshops.

Undergraduate students of the college continue to be a part of CUBE program of HBCSE, TIFR, Mumbai; a program of networking college teachers and students with research scientists across the country to transform undergraduate science education in biology. The 'Think Lab' has been developed, a space only for students to conduct research through addressing state-of-the-art scientific questions by using simple, cost-effective model systems, collaboratively.

The college continues to be an affiliate of Creative Commons in India, has an active SPIE (Society of Photo-Optical Instrumentation Engineers, USA) Students' Chapter and continues to be the Delhi Node of the National Network of Mathematical and Computational Biology (NNMCB) funded by the Science and Engineering Research Board, Government of India.

Simran Virdi and Shazeb Ahmad (B.Sc. (Hons) Biomedical Science) students were given "Young achiever's Award" for presenting IEDC project work (PI Dr. Urmi Bajpai) presented at SYSCON-2016: Recent Advances in Biomedical Research: Strategies and Innovation", AIIMS, New Delhi. 26 -27 May, 2016.

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## ADITI MAHAVIDYALAYA

### Major Activities and Achievements

The college installed two commercial grade RO systems and sanitary napkin vending machine to meet the needs of students. The college infrastructure is improving fast as we have got approval for construction of new six classrooms, canteen complex with NCC/NSS/ Common Room provision. The college has also received a grant of over Rs.10 Lakhs for improving sports activity. The concept of herbal garden is also introduced in the college premises.

### Honours / Distinctions

Dr. Mamta Sharma, Principal, was honoured by International Women's Club by Czech Ambassador Mr. Milan Hovorka for remarkable contribution in education to rural girls. She received the 32<sup>nd</sup> Dr. S. Radhakrishnan Memorial National Teachers Award-2016 in Constitution Club, New Delhi.

Dr. Bhawna Rajput got "Best Teacher Award", 2017 of Directorate of Higher Education, Government of NCT of Delhi.

Dr Asha Sharma won the prestigious award "Hindi Sanskriti" in the Constitution Club organised by Architects of India on 15 Oct., 2016.

Dr. Suruchi Singh received Raman fellowship in USA for post-doctoral research.

### Students with Distinctions

Ms. Usha student of B.A. (Prog.) I year won II prize in Inter College competition of Power Lifting at Ramanujan College and also got selected in National Powerlifting Championship held at Jammu.

Ms. Vaishali, student of B.A. (Prog.) I year won I position in Junior State Open Volleyball Championship on 3-5<sup>th</sup> Nov. 2016.

Ms. Shilpa and Ms. Deepali of B.El.Ed. Final year students secured II and IV Position in the University.

### **Publications**

Devi, R. (2016). Assessing Global Climate Change: Extent and Impacts. *International Journal of Research in Social Sciences*, 2 (4), 886-894.

Goel, N. (2016). Contextualized Teaching and School Mathematics. *Journal of Social Science and Linguistics*, 6 (1).

Kumar, N. (2016). Changing Perspectives in Shashi Deshpande's That Long Silence. In Nagraj, G.H., *Socio-Cultural Values in South Asian Novels*, (pp. 71-81). Delhi: Manglam Publications.

Sehrawat, P. (2016). Agriculture and Farmers: Present Scenario. *International Journal of Global Education Society and Development*, 8(2).

Seth, U., Vatsyayana, S., Goel, M. & Gangwar, S. (2016). *Aao Padhen Aur Samjhen Food Label*. Delhi: Shivalik Prakashan.

Sharma, M. (2016). Human Resource Management in Higher Education. *International Journal of Management and Social Sciences*, ISSN-2321-1784 (Accepted for publication)

Sharma, M. (2016). Physicochemical Properties of Water and Soil Affecting the Socio Economic Condition in Regions of National Capital Territory of Delhi. *DU Journal of Undergraduate Research and Innovation*, 2(1), 109-115.

### **Research Projects**

Dr. Asha, UGC, 2015-2018, Hindi Rangmanch ke Vikas me Mahilaon ka Yogdan, Rs. 11 Lakhs (Approx.)

Dr. Bhawana Rajput, UGC, 2015-2018, Interstate Variations in Financial Inclusion- A Indian Evidence, Rs. 10,08,400 Lakhs.

Three DU Innovation projects (AM-301, 302, 303) were completed.

### **Seminars Organised**

Sh. Keshav Krishna, Congregational preacher, ISCON on 'Bhagwat Geeta and Stress Management', 1 March, 2017.

Ms. Aastha Sachdeva, Counselor, Amity University on 'Mental Health: A Beginning', 24 Jan., 2017.

Ms. Usha Aggarwal, Medhavini Sindhu Srijan on 'Online help for Bank/PO exams for economically weaker sections, SC/ST/OBC', 30 March, 2017.

Mr. Santosh George on 'Save Seeds with a mission, A world free from malnutrition and starvation deaths', 21 Feb., 2017.

Justice Dharendra Rana, Secretary, DLSA on 'Self Defence Training Programme for Women Safety', 16 Jan., 2017.

### **Conferences Organised**

Empowerment of Differently Abled Issues: Concerns and Interventions, Pt. Deen Dayal Upadhyay National Institute of Persons with Disabilities and Department of Empowerment of Persons with Physical Disabilities, Ministry of Social Justice and Empowerment, 2 March, 2017.

### **Seminar / Conference Presentations (Selected)**

Mamta Sharma, Effects of Climate Change in Uttarakhand at International Conference on Strategies for Environmental Protection and Management held at JNU and Biotech Research Society, India.

Manisha Wadhwa, (2017) "School Culture, Hidden Curriculum and Socialization." National Seminar on Exploring Psychosocial Perspectives in Education, Central Institute of Education, University of Delhi, 28 Jan., 2017.

Manisha Wadhwa, (2017) “Encouraging Active Learning in Classroom.” International Seminar on Dialectics of Education, Central Institute of Education, University of Delhi, 18 Feb., 2017.

Nidhi Goel, (2016) “The Beliefs about the nature of Mathematic of Pre-service Teacher.” International Education Conference on Teacher Education: Challenges, Opportunities and Strategies, Faculty of Education, Jamia Millia Islamia, New Delhi, 7-8 Dec., 2016.

Nidhi Goel, (2017) “School Mathematics: A Contextual Perspective.” National Seminar on Exploring Psychosocial Perspectives in Education, Central Institute of Education, University of Delhi, 28 Jan., 2017.

Nidhi Goel, (2017) “Exploring Pedagogical Content Knowledge through the Lens of Mathematics Teachers.” National Conference on Teacher Education: Current Scenarios and Future Possibilities, Central Institute of Education, University of Delhi, 10-11 March, 2017.

Abliasha Baja, (2017) “Encouraging Active Learning in Classroom.” International Seminar on Dialectics of Education, Central Institute of Education, University of Delhi, 18 Feb., 2017.

Abliasha Baja, (2017) “Breaking Monotony in Classrooms: An Alternative Perspective.” National Seminar on Education in Contemporary India, Central Institute of Education, University of Delhi, 22-24 Feb., 2017.

Abliasha Baja, (2017) “Viyarthiyo Ka Samajik Anubhav Aur Hindi Ki Pathyapustaken.” National Seminar on Language, Literature and Society, Central Institute of Education, University of Delhi, 3 March, 2017.

Neenu Kumar, (2017) “Beyond Boundaries: Spatial Identity of the ‘Third Gender’ in Sadak, Tamanna, Welcome to Sajjanpur and Bol.” International Conference on History, Culture and Literature: Reading the Margins, Swami Shraddhanand College, Alipur, Delhi in Collaboration with the Department of English, University of Delhi, held at Arts Faculty, North Campus, University of Delhi, 24-25 Feb., 2017.

Neenu Kumar, (2017) “Discourse of Resistance in Amitav Ghosh’s The Hungry Tide and Rohinton Mistry’s A fine Balance.” National Seminar on Migration and Diaspora: Theory, Cultures and Literature, Bharati College, University of Delhi, 24-25 March, 2017.

Neenu Kumar, (2016) “Popularizing Fiction the Modern Way-A Bird’s Eye View of the Fiction of Amish Tripathi, Chetan Bhagat and Durjoy Datta.” National Conference on Imagining the Indian Popular: Globalization and Its Discontents, Zakir Hussain College (Evening), University of Delhi, 3-4 March, 2016.

Promila Sehrawat. (2016) “Employment In India- A Challenges Task Brief: DDU-GKY.” National Conference on Enhancing Income Generation Skills of Population of Delhi, Aditi Mahavidyalaya, University of Delhi, 1 Oct., 2016.

Roshani Devi, (2017) “Assessing Key Vulnerability and risk From Climate Change in Himachal Pradesh.” International Conference on Spatial Decision Support System for United Nations Sustainable Development Goals, Kalindi College, University of Delhi, 1-2 Feb., 2017.

Roshani Devi, (2017) “Climate Change and Disaster Risk in Shimla City of Himachal Pradesh, India.” National Conference on Making Cities Resilient: Post Habitat-III, Kalindi College, University of Delhi, 3-4 Feb., 2017.

Upasana Seth. (2017) Invited Speaker on “Packaging and Labeling of Traditional Foods” at Global Traditional Food Summit on 26 Feb., 2017.

### **National / International MoUs Signed**

One MOU signed for short term course with Teamlease Pvt. Ltd.

### **Placement Details**

Students Placed – 5 (10.02%)

Companies visiting campus for recruitment – 01

### **Extension and Outreach Activities**

Adoption of Shahbad Dairy Village

### **Library Development**

Six hundred and six new books were added in this academic session. The automation of library is under process. Computers were also installed.

### **Faculty Strength – 108**

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 15.26 Crore (Approx.)

Utilized – Rs. 15.55 Crore (Approx.)

### **Other Significant Information**

Dr. Mamta Sharma was invited as a Guest of Honour at National Workshop on Climate Change, Spatial Technology and Disaster Mitigation at Swami Shradhanand College, University of Delhi.

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## **AHILYA BAI COLLEGE OF NURSING**

### **Major Activities and Achievements**

Ahilya Bai college of Nursing, Lok Nayak Hospital was upgraded from School of Nursing to College of Nursing with an annual intake of 39 with supernumerary 2-3 seats for J & K students. We have now submitted a proposal to start an M.Sc. Nursing programme soon. Our college has been selected by IGNOU University, as a centre of post basic B.Sc. Nursing programme since 2009 and Ms. Ellen Beck is the Program Coordinator. We celebrated the World Yoga Day, Health day in the college and our students participated in various cultural programs, competitive events and health (mela) awareness campaigns at the state and national level.

### **Conferences / Workshop Organised**

Workshop organised on Breast Self-examination in LNH on 16 March, 2017.

### **Seminar / Conference Presentations**

Health awareness talk on prevention & transmission of HIV/AIDS was presented by a group of students in ANC OPD, LNH, 23 Feb., 2017.

Students participated in quiz competition and poster competition in a workshop organised by Ram Manohar Lohiya Hospital on the occasion of Kidney Day celebration, 3 March, 2017.

### **Extension and Outreach Activities**

On 21 June 2016, World yoga day was celebrated in college auditorium and participated by all faculty members of college.

On 10 Oct., 2016 World Mental Health Day was celebrated with the theme of “Psychological & Mental Health First aid for all”

Road Safety awareness program (11 Jan., 2016). Walk for cancer awareness (5 Feb., 2017) and cancer awareness program in Paediatrics OPD, LNH (15 Feb., 2017) were organised by the intern students.

### **Faculty Strength**

– Is as per standards of the Indian Nursing Council

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## AMAR JYOTI INSTITUTE OF PHYSIOTHERAPY

### Major Activities and Achievements

Amar Jyoti Institute of Physiotherapy in its mission to provide education of the highest standards continues to grow every year and is now a renowned centre for undergraduate Physiotherapy education in India. This year saw the successful launch of the Master of Physiotherapy (MPT) programme. It is a regular full-time programme of 2 year's duration and offers specialization in two streams: Musculoskeletal Physiotherapy and Neurological Physiotherapy. The physiotherapy clinics of the Institute continue to treat more than 100 patients a day in its specialty clinics: Musculoskeletal & Sports Physiotherapy, Pediatric and Adult Neurological Physiotherapy, Women's health Physiotherapy, Physiotherapy in Lifestyle Disorders, Falls Prevention and Vestibular Rehabilitation.

### Honours / Distinction

Dr. Raju K Parasher, Director/Principal, was awarded the PHYSIO RATAN at the International Conference of Physical therapy-AIIMS 2016 on 10 Dec. 2016 in recognition of his outstanding professional qualities in providing Physiotherapy services to the community in the realm of academia, clinical practice, innovation and research.

### Students with Distinction

BPT students excelled in the University examination held in June- July 2016. There were 60 subject wise distinctions, while six students received overall distinctions.

Khushboo Kashyap of I year secured I position in the University.

Shreya Vashist of II year secured II position in the University.

Pinky Masih of III year secured I position in the University.

Harithma Wadhwa of III year secured III position in the University.

Sparsh Jain of I year secured I position in the University.

Barkha Tandon of Final year (4 ½ years) secured I position in the University.

### Publications – 2

Jeyanthi, S., Arumugam, N., Parasher, R. K. (2016). Evaluating physical fitness and motor skills in elementary school children with Attention Deficit Hyperactive Disorder- Pilot Study. *International Journal of Current Research*; 8(9), 38886-38891.

Jeyanthi, S., Arumugam, N., Parasher, R. K. (2016). Evaluating the effectiveness of neurolinguistic programming and structured exercises on motor skills, physical fitness and attention in an ADHD child – A case study. *International Journal of Current Research*; 8(12), 43648-43651.

### Teachers serving as Editor(s)/Member(s) of Editorial Board – 3

#### Research Project

Dr. Jeyanthi. S, Dr. Narkeesh Arumugam, Dr. Raju K. Parasher, Self-funded, 2017-19, Effectiveness of Neuro Linguistics Programming (NLP) and Structured Exercises on Motor Skills, Physical Fitness and Attention in Children with ADHD- A Randomized Control Trial.

Dr. Kshitija Bansal, Dr. Barkha Bhatnagar, Dr. Raju K Parasher, Self-funded, 2017, Intra-rater Reliability of Physical Fitness Tests in the elementary school children, A Pilot Study.

Dr. Kshitija Bansal, Dr. Barkha Bhatnagar, Dr. Raju K Parasher, Self-funded, 2017, Fitness of Urban Elementary School Children Impact of Exercise, Nutrition and Socio-Economic Status.

Dr. Sampada Jahagirdar, Dr. Raju. K. Parasher, Self-funded, 2016-17, Body weight support treadmill training for adults with knee osteoarthritis – A Case study.

#### Seminars Organised

Dr. Sameer Srivastava, HOD, Non-Invasive Cardiology, Fortis – Escorts Heart Institute, Delhi on 'Recent advances

in Cardiac Rehabilitation', 14 Oct., 2016.

Dr. Deepak Kumar, Capri Institute of Manual Therapy on 'Manual Therapy for Cervical Spine', 14 Dec., 2016

Dr. Kaushal Bhatt, Certified NDT Practitioner, Bhavnagar, Gujarat on 'Practical aspects of Neurodevelopmental Treatment approach', 17 Dec., 2016.

Dr. Rebekah Das, Adjunct Lecturer, University of South Australia, Adelaide on 'Evidence Based Practice', 23 Jan., 2017.

### **Workshops Organised**

Dr. John Solomon M, Associate Professor, Manipal University on 'Vestibular Rehabilitation', 16-17 Sept., 2016.

Dr. Maneesh Arora, Prof. & HOD, Physiotherapy Department, SBSPGI, Dehradun on Osteopathy & Advance Manual Techniques for Lumbosacral Dysfunction', 24-25 Nov., 2016.

Dr Rajeev Aggarwal, In-charge, NSC, AllMS, Delhi on 'Monitoring & Treatment of Critically Ill Patients', 15-16 Oct., 2016.

Dr. Snigdha Mehta on 'Pre- and Post Natal Physiotherapy', 18-19 March, 2017.

### **Seminar / Conference Presentation**

Raju K Parasher was invited to chair the symposium on "Physical Activity and Exercises for Better Health" at Jamia Millia Islamia University on Physiotherapy day, 8 Sept., 2016

Kshitija Bansal. (2017) "Urinary Incontinence in Women Living in Urban Communities." 2<sup>nd</sup> annual Conference of Society of Indian Physiotherapists held in Bangalore, 10-12 Feb., 2017.

### **National / International MoUs**

With Indian/Foreign Universities – 1 (University of Zealand, Denmark)

### **Students under Exchange Programme**

Inbound / Outbound – 2

### **Extension and Outreach Activities**

Eight camps (6 students in each camp) were organised in the surrounding areas, where about 60-70 patients were enrolled/covered. Around five hours were dedicated for each camp.

### **Library Development:**

Total budget: Overall - Rs. 2,98,395 .00. Number of books added were 27 and six Physiotherapy related Journals were subscribed to.

**Faculty Strength** – 15 (13 Academic and 2 Clinical)

### **Other Significant Information**

National Debate Participation: The Sardar Bhagwan Singh post graduate institute of Biomedical sciences & research, Balawala, Dehradun organised the annual Sardar Gurcharan Singh Memorial 10<sup>th</sup> National debate competition on 10, 11 Feb. 2017 in which around 50 colleges participated. The topic of debate was "Demonetization." Ms. Shivangi Sharma (BPT- IV year), Mr. Digvijay Singh (BPT-III year), Ms. Shreya Vashist (BPT- II year) and Ms. Sakshi Shandilya (MPT- 1 year) participated & received great appreciation from the Judges.

Swami Sharadhanand college, University of Delhi organised an Unconventional and Prometheus debate competition on 7 March 2017. The topic of the debate was "Kaksha main upstithi anivarya honi chahye?" in which around 50 colleges participated. Our students Mr. Digvijay Singh (BPT- III year), Ms. Shivangi Sharma (BPT- IV year) won the third prize which included a Cash Prize.

The Prometheus debate competition (English) comprised of three rounds. The first round was a group discussion & topic was “MNC’S- A step towards strengthening Indian Economy?.” The second round was on the spot topic round & topic was “Bollywood degrading Women’s dignity.” Final round was a double fire round & topic was “Reservation’s is good or not?” Ms. Shivangi Sharma (BPT- IV year) got the cash prize.

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## ARYABHATTA COLLEGE

### Major Activities and Achievements

During the year, five new courses were started in regular mode viz. B.A. (H) History, B.A. (H) Business Economics, B.A. (H) Psychology, B.Sc. (H) Computer Science and B.Sc. (H) Mathematics in the college. Besides, approval to start Bachelor of Management Studies course has been received by the college and this will begin from the academic session 2017-18. Taregna Block (SPS Part-B) was inaugurated. This Block has two-storey library block, two-storey canteen and a faculty research room. Besides, foundation stone laying of new multi-storeyed academic block was done by Mr. Vijay Goel, Hon. Minister of Youth Affairs and Sports, Govt. of India.

### Honours / Distinctions

Sumedha Rathi and Bharat Singh Shekhawat won Gold and Kaustav Barua won Bronze in Taekwondo and represented University of Delhi in All India Inter-University Taekwondo Championship held at Maharishi Dayanand University, Rohtak.

### Students with Distinctions

Mr. Nehal Anurag, B.Sc. (H) Mathematics, VI Semester: 88.53%

Ms. Priyanka Rani, B. Com (H), VI Semester: 80.31%

Mr. Amit Thakur, B.A. (H) Economics, VI Semester: 78.88%

### Publications

Aggarwal, M. and Singh, S.K. (2016). *Management Principles and Applications*. New Delhi, Himalaya Publishing House, ISBN: 978-93-5262-299-3

Rai, P. and Kumar, D. (2017). (Eds.), *Librarianship Today and Tomorrow: Contemporary Issues*. New Delhi: Book Age Publications, ISBN: 978-93-83281-68-8

### Seminar / Conference Presentations

Binoy Bhushan Agarwal, presented paper ‘Narrative History: A vexed Relationship’ at ‘Storytelling’ the 9<sup>th</sup> Global meeting, an International Conference at Mansfield College, Oxford, United Kingdom.

Geeta Budhraj, was invited by the Ministry of External Affairs, Mexico, to give a Lecture-Demonstration based on her book *Bhog: Temple Food of India*, at the first conference of Traditional Foods of the World held in Mexico City.

B. Mangalam, presented a paper “Negotiating Disability in Translation of Short fiction” in a three days IATIS South-Asian Regional workshop on ‘Translating Disability Across Cultures’, Jawaharlal Nehru Institute of Advanced Study.

Devender Singh. “Contributions of Acharya Abhinav Gupta to Indian Art and Aesthetics..” National seminar held at Sri Sri Ravi Shankar’s Ashram, Bangalore organised by J&K Study Centre, 4-6 Jan., 2017.

Kamayani Kumar. “Reading the Politics of Refugeehood and Migration through Garam Hawa, Mammo and Ramchand Pakistani.” National Seminar on ‘Linguistic Impact of Partition’ hosted by Developing Countries and Research Centre and National Council for the promotion of Sindhi Language, Ministry of HRD, 13 Aug., 2016.

Binoy Bhushan Agarwal. “Reinventing Superheroes: Global Superheroes with India Twist,” at Heroism as a Global Phenomenon in Popular Culture.” International Conference at the Freiburg Institute for Advanced Studies in Germany, 28-30 Sept., 2017.

Surajit Deb. “The Nexus between Disability and Poverty: Analysis Based on States Data in India..” 34<sup>th</sup> General Conference of International Association for Research in Income and Wealth (IARIW), Dresden, Germany, 21-27 Aug., 2016.

Surajit Deb. “The Role of Secondary Cities in China’s Urbanization and Economic Growth..” 9<sup>th</sup> All India Conference of China Studies (AICCS) held in University of Mumbai, 12-14 Dec., 2016.

Satish Kumar Jha. “Cultural Politics in Contemporary India..” ICSSR Northern Social Science Congress held in Jiwaji University, Gwalior, 23 Sept., 2016.

### **Placement Details**

Students Placed – 66 (81.48%)

Companies visiting campus for recruitment – 08

### **Extension and Outreach Activities**

Adventure society conducted its 26th Annual Himalayan Trekking Expedition in Feb.-March 2017. Two back-to-back treks of four days each were organised with 69 participants in the first trek and 74 participants in the second trek. All the participants successfully completed the trek to Nagtibba in Uttarakhand, the highest point in the lower Himalayas.

National Social Service:

NSS Unit organised various activities, seminars and camps throughout the academic session 2016-17. Starting with *Azadi 70- Yaad Karo Kurban* (Freedom Fortnight), a Flag March and Flag Hoisting programme was organised in the college premises spreading the message of patriotism. NSS Unit volunteers also participated in *Tiranga March* at North Campus, University of Delhi on Aug. 22, 2016. In Swachhta Abhiyan and Swachhta Pakhwara Campaign, a play, and seminar on Swachh Bharat and cleanliness awareness campaign near Nanakpura, Moti Bagh, was organised in the month of Aug. and Sept., 2016. The college also celebrated NSS Day on 24 Sept., 2016. Two street plays, slogan writing competition and a Drug-Free Awareness rally were held in the College premises. Special Electoral Camps were also organised to sensitize the youth about the right to vote and at the same time the duty to vote. A Debate Competition was also held in collaboration with Railtel, Ministry of Railways on 5 Nov., 2016 on Public Participation in Promoting Integrity and Eradicating Corruption. It organised a Digital Financial Literacy Campaign from 12 Dec., 2016 to 12 Jan. 2017 under Vittiya Saksharta Abhiyan (VISAKA), a campaign by Higher educational institutions for Digital Economy launched by Ministry of Human Resource Development, Government of India. NSS Unit also celebrated the National Youth Day on 12 Jan., 2017 and the National Voters’ Day on 25 Jan., 2017. In collaboration with Shaikshik Foundation, it organised a seminar on Curbing Black Money: Demonetisation and what next? under VISAKA Campaign. On the occasion of International Women’s Day, 8<sup>th</sup> March 2017, NSS Unit also organised 'One Day Free Heart & Cancer Check-up Camp and Dental Health Check-up & Awareness Camp' in the college premises. NSS Volunteers also participated in Walkathon – Walk for Water at the India Gate, on 22 March, 2017, World Water Day. Ekta Kumari, NSS Volunteer, Aryabhata College was selected amongst the Top Eight Delhi University students by National Service Scheme (NSS), University of Delhi.

National Cadet Corps (NCC):

Our cadets have done a good job at the college (Unit), University staff level as well as at All India Level.

### **Library Development**

As the current Reading Room for the students being small, a new Reading Room with computer and internet facilities has been constructed above the Library (on the first floor) with seating capacity of around 100 students. Besides, one reading room for teachers with seating capacity of around 20 has also been constructed above the Library (on the first floor). A new Library cum Reading Room has been constructed in the Taregna Block and will be operational in academic session 2017-18.

### **Faculty Strength**

Permanent – 55; Adhoc – 23



### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 21,78,61,555/- (Approx.)

Utilized – Rs. 13,78,58,076/- (Approx.)

### **Other Significant Information**

The College successfully organised 'Roister'- an Inter College Team Building event in Jan., 2017. During the event 380 men and 170 women from 6 colleges participated in a week-long event to learn how to work in a team, how to lead a team and how to manage teams.

Five of our college students along with few more from other Delhi University Colleges represented Delhi University's 20-20 team at KIIT Premier League held at Bhuvaneshwar.

Various projects and events under Enactus Aryabhata are as follows:

Project Shakti was started with the aim of encouraging women empowerment and self-reliance by imparting self-defense training to women. It also focuses on a business model for the underprivileged women where our team will train them the marketing skills and strategies to sell pepper sprays.

Project Utkarsh is a unique initiative wherein the waste pulp of vegetables such as carrot and beetroot generated in the juice shops situated in our localities is being used to make salty wafers which are tasty and are high on nutrition .

Project Ibtidah is a Financial Literacy Initiative taken by a team of 20 student members with the responsibility of visiting various areas in Delhi in an attempt to identify a severe need for financial literacy. They have been working to disseminate basic financial knowledge and discussed government schemes in two slums as of now, one in Kirti Nagar and another in GTB Nagar. Kirti Nagar and GTB Nagar have both been visited 3 times each by the team.

Project Pehchaan aims to approach people from different backgrounds, communities and lifestyles; go through their diverse life stories, their journey and provide a platform through the means of social media where help can be delivered to those in need.

A cleanliness drive was organised by Enactus Aryabhata, during the DUSU election campaigns with the purpose to collect and recycle the huge amount of paper that is used as promotional purposes during the election campaigns. Waste papers were recycled to make registers, which were sold at low prices to the students and teachers.

The Joy of Giving week was celebrated to bring smile to the underprivileged section of the society. This event received a huge response.

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## **ATMA RAM SANATAN DHARMA COLLEGE**

### **Major Activities and Achievements**

With the establishment of the Centre for Innovation and Entrepreneurial Leadership (CIEL) with support from Ministry of Micro, Small and Medium Enterprises (M/o MSME), GoI, ARSD College has become the first college under the University of Delhi to have a Technology Business Incubator in its premises. Under Mr. the Start Up India Scheme, CIEL is also the Authorized Incubator to issue recommendation letters to upcoming independent entrepreneurs. The Skill Development and Entrepreneurial Cell in association with the Department of Commerce and Bombay Stock Exchange Institute Limited (BSE) has started an add-on course "Mastering Stock Markets-Experiential Learning." The College is the recipient of the STAR College scheme launched by the Department of Biotechnology (DBT), Ministry of Science and Technology, Govt. of India. The North-East Welfare Committee of ARSD College organised the 3<sup>rd</sup> Rainbow Fest on 21 Feb. 2017, showcasing the diverse cultures of North East. The College observed days of national significance, including the celebration of Constitution Day, Azadi 70- Yaad Karo Kurbani, National Youth Day and Rashtriya Ekta Saptah.

## Honours / Distinctions

Institutional Awards and Recognitions:

ARSD College has been ranked All India Fifth among colleges by NIRF (National Institutional Ranking Framework), Ministry of Human Resource Development, Govt. of India.

The College was awarded an A grade by the National Assessment and Accreditation Council (NAAC) in 2017.

The College was awarded the Girl Child Education and Empowerment Award 2017 and the Green Campus Award by Women's Agency for Generating Employment (WAGE) at the India International Centre on 8 March 2017, International Women's Day.

WAGE also felicitated, Dr. G.K. Jha, Principal with a Lifetime Achievement Award at the same event.

The International Association of Educators for World Peace (affiliated to the United Nations) and the Confederation of Indian Universities (CIU) in conjunction with the National Institute of Cleanliness Education and Research (NICER) conferred upon the Principal, a Lifetime Achievement Award and awarded the College a Clean Campus Award on the occasion of the Skill and Vocational Education (SAVE) Summit held at IIC on 12 March, 2017.

The Principal was also the recipient of the Best Theatre Promoter Award, presented to him by the Natsamrat Theatre Group as part of the 9<sup>th</sup> Natsamrat Theatre Awards.

The college was awarded with a Highly Commended certificate for an annual flowering plant entry and the Best Gardener prize went to Sh. Jagdamba Prasad for his excellent service to the college garden and his exhibit of French marigold in the 59<sup>th</sup> Annual Flower Show, University of Delhi.

Faculty Awards:

Dr. Jyothsnaphanija Bolla:

X-ray Main Award for the Telugu poem "Samayam Ceruvayindi" in Dec., 2016

Paturi Manikyamma Smaraka Sahitya Puraskaram in Nov. 2016 for the Telugu poem "O paata vinaboye samayam."

Radheya Uttama Kavita Puraskaram in June 2016 for the Telugu poem "Podi vaana."

Vijayawada's International Women's Day Award in March 2016 for being an exemplary woman

Dr. Syed Mubin Zehra was awarded The Laadli Media and Advertising award for her writings on Gender Sensitivity in 2016.

## Students with Distinction

Two of the College NCC Cadets, Cadet Rishab Purohit and Cadet Suraj were selected for the Republic Day Camp, one of the most prestigious camps organised under NCC. Sapna and Ravikant Prasad of B.A. (Programme) IIIrd year received Merit Award from Delhi Sanskrit Academy.

The following students got distinction in academics

Akesh Grover, B. Com (H) IIIrd year secured 87.04% in the University exam.

Nikita Mishra, B.A. (H) Eco. IInd year secured 84.30% in the University exam.

Avinash Banarji, B.A. (H) Hindi IInd year secured 87.71% in the University exam.

Jitendra Kumar, B. Sc. (H) Physics IInd Year secured 93.33% in the University exam.

Tarun Garg, B. Sc. (H) C.S. IInd Year secured 94.61% in the University exam.

## Publications (Selected)

Baghel, S. S. (2017). *Media ka Bazarikaran aur Loktantra*, Delhi: Yash Publication Ltd.

Bolla, J., (2016). *Ceramic Evening (Poetry collection)*, Calcutta: Writers Workshop.

Jha, V. M., (2016). *Houlton's Bihar, The Heart of India*, Darbhanga: Bihar Heritage Series.

Kaushik et al., (2016). Controllable one step copper coating on carbon anofibers for flexible cholesterol biosensor substrate. *Journal Material Chemistry B*, 4, 229-236.

Reshi, H.A., Singh, A.V., Pillai, S., Para, T.A., Dhawan, S., Shelke, V., (2016). X-band frequency response and electromagnetic interference shielding in multiferroic BiFeO<sub>3</sub> nanomaterials. *Applied Physics Letters*, 109, 142904.

Sharma, N., Chundawat, T S., Mohapatra, S C., Bhagat, S., (2016). Synthesis of novel fluorinated multisubstituted pyrimidines and 1,5-benzodiazepines via fluorinated N,S-acetals. *Synthesis*, 48. 4495-4508.

Singh, A., (2016). South China Sea Dispute: An indian perspective in 'India's Look East to Act East Policy: Tracking the opportunities and challenges. In (Eds.), Prof. Manmohini Kaul and Dr. Anushree Chakraborty, *The Indo-Pacific*, New Delhi: Pentagon Press.

Singh, J., Singh, P., Singh, A., (2016). Fluoride ions vs removal technologies: A study," Special Issue: *Environmental Chemistry of Arabian Journal of Chemistry*, 9. 815-824.

Singh, S., Dubey, S.N., Negi. K. Kishan, B., (2017), *Challenges of Urban Governance in peripheral areas of Delhi Local Self government and Socio-economic and political development* (Ed.), Delhi: Sunrise Publication,

Subramanian, S.S., Kumar, M. (2016). Structural, magnetic, dielectric and magneto-dielectric coupling analysis of ferromagnetic-PbZr<sub>0.52</sub>Ti<sub>0.48</sub>O<sub>3</sub> nanocomposites, *Journal of Material Science: Material in Electronics*, 27, ISSN: 1573-482X

### Teachers serving as Editor(s) and Member(s) of Editorial Board – 13

#### Research Projects

Indian Council of Medical Research, 2015-2018, Design and Synthesis of Natural products isolated from E. Jambolana and its structural analogs for assessment of their antidiabetic potential in STZ induced diabetic rats, Rs. 54 Lakhs.

DST-SERB, 2015-2018, Design and Strategic Synthesis of some Novel Marine Natural Products of Biological Importance, Rs. 43 Lakhs

DST-SERB, 2016-2019, Investigations and Development of the cost effective solid electrolyte for IT-SOFCs, Rs. 35 Lakhs

DST-SERB, 2017-2020, Design and optimization of performance parameters of hybrid capacitors using graphene (nano-carbons)/metal-oxide nano-composites electrodes with sodium ion based electrolytes, Rs. 43 Lakhs

UGC, 2013-2017. Synthesis and characterization studies of some single source molecular precursors of Al (III), V (V), Ti (IV) and related metals for the preparation of ceramic materials, Rs. 13.71 Lakhs

#### Seminars Organised (Selected)

Dr. Mallarika Sinha Roy, Assistant Professor at the Centre for Women's Studies, Jawaharlal Nehru University and Dr. Nivedita Sen, Associate Professor of English at Hans Raj College, University of Delhi on Politics of Representation in Mahesweta Devi's works, 16 Sept., 2016

Prof. R. Kavita Rao, NIPFP on Understanding Goods & Services Tax. on 8 Feb., 2017

Professor Sangeet K. Ragi, Department of Political Science, University of Delhi, Mr. Ashutosh Bhatnagar, Executive Director, JK Study Circle and Colonel Jaibansh Singh, Senior Consultant, ANI on Jammu and Kashmir: Political or Security Problem, on 3 Nov., 2016.

Dr Bipin Kumar Gupta, Scientist, CSIR-National Physics Laboratory on A journey from Literature to Innovation-Luminescent Graphene and its properties on 3 Feb., 2017.

Dr V.K. Tripathi, Professor, IIT Delhi, on Plasma and its applications on 20 Feb., 2017.

The Popular Lecture Series:

Dr. Kumar Krishen, Senior Scientist, NASA, Why Space Matters, 10 Feb. 10, 2017.

Mr. Sushant Sareen, Senior Fellow, VIF and Ms. Prabha Rao, Senior Fellow, IDSA, Professor, Chintamani Mahapatra, Rector, JNU on Balochistan as a Factor in India-Pakistan Relations, 21 Oct., 2016.

#### Conferences Organised

No Brushings Aside: Literature and the Visual Arts, 27-28 of Feb., 2017, organised by English Seminar & English Association, Dept. of English, ARSD.

### **Seminar / Conference Presentations (Selected)**

Nutan Sharma and Sunita Bhagat. (2016) "Solid support mediated chemo- and regioselective synthesis of 3H-1,5-benzodiazepines from diversely substituted  $\alpha$ -oxoketene dithioacetals." International Conference on Green Chemistry in Environmental Sustainability and Chemical Education, Daulat Ram College, University of Delhi, Nov. 17-18, 2016.

Nutan Sharma, Tejpal Singh Chundawat, Sunita Bhagat. (2016) "Expedient exploration of fluorinated N,S-acetals for the synthesis of novel fluorinated multisubstituted pyrimidines and 1,5-benzodiazepines using nitrogen binucleophiles." International Conference on Frontiers at the Chemistry-Allied Sciences Interface, University of Rajasthan, April 25-26, 2016.

Sunita Bansal, Sangita Aggarwal, Ankit Kumar, Bhavnesh Kumar. (2016) "Size and co-anion dependent conductivity, band gap and do studies of nano-graphene functionalized by transition metals." National Conference on Environmental Challenges, Human Health and Society, Rajasthan University, Jaipur, Sept. 08-10, 2016.

Parminder Kaur. (2016) "Empirical Study on Autonomy and Dependence in Franchisor-Franchisee Relationship." 5th International commerce conference 2016, Department of Commerce, University of Delhi, Nov. 4-5, 2016.

Neetika Sharma, Pritam Sharma and Jyotika Jogi. (2016) "Mobility Degradation in Nano-Dimensional InAlAs/InGaAs Single Gate HEMT." In proceeding IEEE Conference TENCON 2016, Nov. 22-25, 2016, Marina Bay Sands, Singapore, ISSN: 2159-3450, ISBN: 978-1-5090-2596-1.

Pritam Sharma, R. S. Gupta and Jyotika Jogi. (2016) "Simulation of Device Behavior for InAlAs/InGaAs HEMT under Optical Illumination." The Eighth International Conference on Advances in System Simulation, SIMUL 2016, (pp-52-55), Aug. 21 - 25, 2016, Rome, Italy, ISSN:2308-4537, ISBN: 978-1-61208-50

Achingliu Kamei. (2017) "Tribal Culture and Women: A Critique on Women's Status through a Close Reading of Easterine Kire's 'A Terrible Matriarchy.'" Two Day International Conference on History, Culture and Literature: Reading the Margins, organised by Dept of English, Swami Shradhdhanand College in collaboration with the Department of English, University of Delhi on 24-25, Feb., 2017.

Syed Mubin Zehra. (2016) "Sikh Shaheedaane –e –wafa –a Sufi Marsiyaah –an analytical source called the Second Karbala.." National seminar organised by Department of History, Mata Sundari College for Women, University of Delhi on 6-7 Oct., 2016.

M. Sadiq, Ashish Kumar Yadav, Anil Arya, Manoj K Singh, A. L. Sharma. (2016) "Scheme of Polymer-Ion–Clay Interaction and Ion-Ion Interaction in Polymer Nanocomposite Electrolytes Films." Third International conference on nanotechnology for better living National Institute of Technology Srinagar, INDIA May 25-29, 2016

Indra Mohan Jha. (2017) "Whither Modi's Foreign Policy and Diplomacy?." National Seminar, Kumaun University, Nainital, 28-29 March, 2017

Amit Singh. (2017) "India as an Emerging Global Power: The Role of Indian Diaspora." International Conference on 'India and its Diaspora Engagement: Comparative Global Practices' organised by Organization for Diaspora Initiatives (ODI), Diaspora and International Migration Programme (DIMP) of CAS-SIS, JNU, Heinrich Boll Foundation, India and MEA at Bengaluru, 10-11, Jan., 2017.

Amit Singh. (2017) "India's Act-East Policy and its Diaspora." International Conference on 'New Indian Migrants and the Indentured Diaspora: Emerging Opportunity for Indian Foreign Policy' organised by the Centre for Studies in International Relations and Development (CSIRD), Kolkata, ODI, the Institute of Foreign Policy Studies (IFPS), University of Calcutta in collaboration with ICSSR & MEA on Kolkata, Nov. 3-4, 2016.

Charu Mathur. (2016) "Human Rights and Refugee Rights: A Common Road Ahead at Regional Human Rights." Seminar, organised by Society for Social Development and People's Action, on 27 Aug. 2016.

Indrajeet Kumar Jha. (2016) "Challenges of Social Security for Unorganised Workers: An Experience from Asiad Workers Case to CWG Workers Case." National Seminar on Labour Laws Reforms and Implementation of Unorganised Workers Social Security Act-2008, Mahatma Gandhi Labour Institute, Ahmedabad, Gujarat, 31st March 2016.

Indrajeet Kumar Jha. (2017) “Crisis of Mainstream Politics and the Relevance of Non-Party Politics.” Fifth Northern Regional Social Science Congress of ICSSR, organised by the joint auspices of Mohanlal Sukhadia University, Udaipur and Northern-Regional Centre- ICSSR, New Delhi, Mohanlal Sukhadia University, Udaipur, Rajasthan, 24-26 Feb. 2017.

Vikas Kumar. (2017) “Trade Union Movement and Democratic Rights in post 1900s: In the context of Delhi\_NCR labour Movement.” Fifth Northern Regional Social Science Congress, Organised by Northern Regional Center-ICSSR, New Delhi and Mohanlal Sukhadia University, Udaipur, on 24<sup>th</sup>-26<sup>th</sup> Feb. 2017.

### **National / International MoUs**

The College has 5 MoUs with –

Jaagruti for recycling of paper waste of the College since 12 Sept., 2016.

Pom Pom Recycling Pvt Ltd for pick up and recycling of dry waste, since Sept., 2016.

BSE Institute Ltd, a subsidiary of BSE Limited for an add on course “Mastering Stock Markets-an experiential learning” since Aug. 2016.

Spoken Tutorial Project supported by MHRD along with IIT-Mumbai.

Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India under STAR COLLEGE funding scheme. Under this scheme, the College has received financial support for improving and enhancing critical thinking and experimental work in the technologies needed for biological studies and undergraduate level in Life Sciences of Rs. 47 lakhs for 3 years.

### **Placement Details**

Students Placed – 139 (2%)

Companies/Industries visiting campus for recruitment – 09

### **Extension and Outreach Activities**

‘Swachhta Pakhwara’ was observed by the NSS unit in the college from 16-09-2016 to 01-09-2016. Many activities were organised as a part of pakhwara; a seminar on ‘Waste paper recycling’, cleanliness drives in college, a swachhta rally and door to door campaign to spread awareness about cleanliness in the market and JJ clusters of Satyaniketan. NSS unit, being the flag bearer of the ‘Swachh bharat Abhiyaan’ in the college organised various cleanliness drives in college in this session. Large number of NSS volunteers, NCC cadets, students and teachers participated in ‘*Shramdaan*’.

Swachhta rally and door to door awareness campaign were conducted on 2 Sept., 2016 in which a large number of NSS volunteers participated with enthusiasm. The route of the rally was from College to JJ clusters of Satyaniketan via the Dhaula Kuan bus stand, Satyaniketan market and then back to college thus targeting a lot of people for creating awareness about cleanliness.

### **Library Development**

The library has over 1,10,000 books out of which about 45,936 are textbooks. It subscribes to 41 journals, 19 newspapers and 29 magazines. Using mezzanine slabs, an additional space of 177 sq.mts. has been developed towards reading space for teachers and to add more stacks to the library. The library uses SOUL Integrated Library Management Software to automate housekeeping operations. Library software also facilitates OPAC (Online Public access catalogue) functions, enabling users to access their required documents. The College Library also subscribes to INFLIBNET-NLIST database.

### **Faculty Strength**

Permanent – 137; Adhoc – 55

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 35.8501 Crore

Utilized – Rs. 35.5429 Crore

### **Other Significant Information**

In the current academic year, a Student-Faculty Committee for every Department has been constituted in order to keep the dialogic space and facilitate discussion on student concerns, complaints, and feedback. The forum comprises of four Faculty members and academic toppers from each class for every Department. Apart from taking on board issues faced by the student body, the Committee will also focus on innovation in academic, pedagogical and cultural activities of the College.

In the current academic year, the College has appointed a psychologist and a counselor, Mrs. Kushal Kaushik to look after the emotional and mental well being of students and staff.

Priyanka Kathuria and Rishika Rai, students of B.A (Hons) Political Science represented the University of Delhi on a Study tour to Paris organised by International Association for Political Science (IAPSS) from 2-6 Nov. 2016. Twenty students were selected from all over the world and four were from India (One each from JNU & Jadavpur University and two from our college).

The College Volleyball team secured the first position in Delhi University Inter-College Men Volleyball Tournament.

'Rangayan', the Dramatics Society of ARSD College, organised its 3rd three-day Theatre Festival, "Rangsheersh Jaidev Natya Utsav" in honour of acclaimed Hindi drama critic, Dr. Jaidev Taneja from 11 to 13 Jan., 2017. This is the only College to organize a theatre festival.

Students participated in an election survey on Uttar Pradesh election 2017, conducted by Developing Country Research Centre. A team of 55 students and two faculty members participated in this survey.

Development Cell organised a seminar on Gender Sensitization on 14 Sept., 2016, "Respecting the Substance of Women." The panelists included Ms. Esha Pandey, IPS, Additional DCP, Ms. Deepti Rawat, founder of OORGA and Ms. Ranjana Kumari, Director, Centre for Social Research. Nimbus, the English Debating Society, organised its first ever Inter-College ARSD Youth Conclave in which more than 150 students participated in Feb. 2017.

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## **AYURVEDIC & UNANI TIBBIA COLLEGE**

### **Major Activities and Achievements**

The A and U Tibbia College and hospital celebrated International Yoga Day on 21<sup>st</sup> June in the presence of Director, AYUSH. Renovation of fully air-conditioned OPD was done. We organised 6 days CME in the Department of Dravyaguna for teachers where faculty from all over India participated.

### **Publications**

Idris, M. Saleem, M. (2016). Podina (*Mentha arvensis*) Transformation from food addictive to multifunctional medicine. *ARC journal of Pharmaceutical Sciences*, 2(2), 6-15.

Idris, M. T. (2016). Trans-dermal Unani Female contraceptive formulation-designing & In-vitro Transdermal Activity Evaluation. *Indo-American journal of Pharmaceutical Research*, 6(7), 6265-70.

Kushwaha, I., Behra, B., Mahapatra S., Bhushan, V. (2017). HP TLC study of Yashtimadhu (*Glycyrrhiza glabra*) an approach for rawdrug standardization. *World Journal of Ayurveda Science* 2(2).

Mishra, S. (2016). Yogic Management for Menstrual disorders. *International Journal of Applied Ayurvedic Research*, 2(9), 2347-6362.

Moharana et al. (2017). Therapeutic efficacy and mechanism of action of Ayurvedic Shirodhara. *World Journal Of Ayurveda Science*, 2(1), 131-139.

Moharana, H. (2017). *A text Book on Shalaky tantra-Part-I*. New Delhi: Chowkhamba Oreintalia

Pandey, S., Rasale P. (2017). Assessment of analgesic property of Karpoor oil Matra BAsti in the patients of acute fissure in Ano by using VAS. *World Journal of Pharmaceutical Sciences*, 216-218.

Shamkuwar, M., Rajan, S., Singhai, S. (2016). Applied approach of Virechan karma in Tamak Shwasa. *International Journal of Panchakarma And Ayurved Medicine*, 1(1), 55-59.

Sharma, R., Kushwaha, I. (2017). *Medicinal plants with Macro and Microscopic study*. New Delhi: Daya Publication House

### **Seminar / Conference Presentations**

Sujata Rajan. (2016) "Role of Ayurveda in life style disease with special reference to obesity- management and prevention." Multidisciplinary Health Care Conference AIIMS, New Delhi.

Manoj Shamkuwar. (2016) "Pinda Sweda." Multidisciplinary Health Care Conference, AIIMS, New Delhi.

Deepa Mishra. (2016) "Childhood to motherhood with respect to to PCOS" at the Multidisciplinary Health Care Conference, AIIMS, New Delhi.

Fahmida Kousar. (2016) "Medication in Paediatric" at the National workshop by Central Unani Development.

Ravishankar Khatri. "Role of diet and life style in the management of childhood Diabetes mellitus." National Symposium organised by AIIA.

Shalini Varshney. (2016). "Evidence based review on medicinal plants in pain Management and rehabilitation." Multidisciplinary Health Care Conference AIIMS, New Delhi.

### **Faculty Strength**

Ayurved & Unani – 51

### **Financial Allocation and Utilization**

Grant sanction– Non-Plan- Rs. 19,00,00,000; Plan- Rs 9,50,00,000/-

Utilized – Non-Plan- Rs 18,83,92,363; Plan- Rs 9,16,91,041/-

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## **BHAGINI NIVEDITA COLLEGE**

### **Major Activities and Achievements**

During the year, the total pass percentage for all the semesters put together was 95.08%. with 53.85% students securing first division. The college organised several co-curricular and extracurricular activities. The National Youth Day was celebrated with the organisation of the Digital Literacy Workshop in which more than 200 students participated in Jan. 2017. During a one month long literacy programme, the NSS students taught other students and local people, different modes of digital payments under the Vittiya Saaksharta Abhiyan (VIKASA), Physics Department of the College organised a Digital Literacy Camp several times in April in Kair village. For facilitating this camp, a door to door survey was conducted covering 480 households. In Oct., 2016, the NSS unit along with more than 250 volunteers and Swach Bharat Committee performed the Swach Bharat Abhiyan in the college premises. A pledge for cleanliness was made and a Nukkad Natak was performed.

### **Students with Distinction**

Ms. Guneet Kaur (BA programme, II year) received the best volunteer Award from Mr. Prakash Javaddekar, Minister of Human Resource Development and Mr. Ravi Shankar Prasad, Minister of Electronics and Information Technology and Minister of Law and Justice, at Vigyan Bhawan, New Delhi on 8 March, 2017 on the occasion of the National Convention Vittiya Sakasharta Abhiyan (VIKASA).

### **Publications**

Sharma, C. (2016). Role of Creative Drama in fostering developmental skills of primary school children. In *Drama and Theatre with Children: International Perspectives*, UK: Routledge.

Sharma, C. (2016). Co-creating Joyful Learning and Augmenting Social Skills in Children by Employing Creative Drama. In *Education as Social Construction: Contributions to Theory, Research and Practice*, USA: Taos Institute Publications.

Sharma, C. (2016). (Ed.), *Drama and Theatre with Children: International Perspectives*, UK: Routledge

Sharma, V. (2016). *Bhartiya Shastriya Sangeet mein Sitar Dwara Saundryanubhati Vegeeshwari*.

Govindan, K., Garg, K., Gupta, S., and Jha, P. C. (2016). Effect of product recovery and sustainability enhancing indicators on the location selection of manufacturing facility. *Ecological Indicators*, 67, 517-532.

Darbari, J.D. and Gupta, S. (2016). Rough set theory approach for analyzing the global retail sales performance. *National Conference on Advances in Computer and information Technology 2016 (NCACIT- 2016)* (pp. 39-44), ISBN: 978-93-5258-249-5

Gupta, S. and Bhatt, C.P. (2016). *Performance Assessment of 52 Countries Across the Globe in Retail Sector and Ranking Based on TOPSIS*. Retail Marketing in India Trends and Future Insights, (pp. 130-143), Emerald Publishing, ISBN: 978-1-7863541-0-5

### **Research Projects**

DU innovation research project, 2016, Anthropometric considerations in novel Uniform Design of Women Cadets, BNC-301, Rs. 5.5 Lakhs.

DU innovation research project, 2016, Synthesis of Thermoelectric Nanomaterial and their use in Energy Harvesting, BNC-302, Rs. 5.5 Lakhs.

### **Seminar / Conferences Presentations**

Charru Sharma gave a talk on Drama as a Pedagogical Tool to Augment Development of Children and Facilitate the Teaching Learning Process in Schools, University in Canada.

Alokka Dutta. (2016) "Positioning South Korea in India's foreign Policy, International Seminar with the Theme" India's foreign Policy." Jawahar Lal University, 24-25 Oct. 2016

Alokka Dutta. (2017). "Trends and Challenges of Cooperative Federalism" in an international seminar on the theme: Globalization and federal governance" organised by the department of Political Science on 19-20 Jan., 2017.

Alokka Dutta's paper on India's Forging a Multidimensional Partnership was selected as the best paper of the session on International Politics in an International Seminar organised by School of International Studies, Jawaharlal Nehru University held on 18 -19 April, 2016

Seema Gupta. (2016) "Rough Set Theory Approach for Analyzing the Global Retail Sales Performance." National Conference on Advances in Computer and information Technology 2016, 19-20 Dec., 2016 sponsored by UGC and DRDO and organised by Department of Computer Science, Shyama Prasad Mukherji College, University of Delhi.

Shubhra. (2017). National Conference on Creating Employment & Entrepreneurial Opportunities for Women through Professional and Technical Education at A.P. Goyal University at Shimla on 4 March, 2017.

### **Extension and Outreach Activities**

On the occasion of Rashtriya Ekta Saptah, the NSS unit along with more than 300 volunteers took a pledge and performed Nukkad Natak; and a 'Run For Unity' programme was organised from college to Mitraon. In Oct., 2016, the NSS unit along with more than 250 volunteers and Swachh Bharat Committee performed the Swachh Bharat Abhiyan in the college premises. Also, a pledge for cleanliness was taken and a Nukkad Natak was performed.

### **Library Development**

The total number of books added during the current year is 858. The library committee changed the sitting arrangements in library to create space and to allow in more light and air. It has set up an audio-visual section and placed order for DVD's. Computer and internet facilities are now available to teachers, students and library staff within the library itself. The work of manual catalogues was updated. On the demands of the students, CCTV camera was installed.



### **Faculty Strength**

Permanent – 40; Ad hoc – 31

### **Financial Allocation and Utilization**

Grant sanction – Rs.14,59,00,000/-

Utilized – Rs.11,48,82,932/-

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## **BHARATI COLLEGE**

### **Major Activities and Achievements**

One of the high points of this academic session was the inauguration of the College Hostel by Dr. Satbir Bedi, Member Secretary, and Women's Commission on 17 Dec. 2016. It has been fully functional since Jan., 2017. Its stately imposing structure has well laid corridors, wash rooms, water coolers, solar panels for warm water. Hostellers also have the added advantage of availing the library, gym and sports facilities available in the college. There is an in-house doctor available for five days a week in the morning hours. The college is in the process of employing a nurse. An Academic Support Cell to enhance English language skills and assist students in Mathematics and Economics to prepare for competitive examinations and an Outreach and Extension Cell are the other key initiatives of the IQAC in the current year.

### **Honours / Distinctions**

Dr. Mukti Sanyal was awarded the Best Lecturer for Bharati College by Directorate of Higher Education, Government of NCT of Delhi.

Dr. Anubhuti Maurya from the History Department was selected as the Visiting Scholar for the University of Columbia for the academic year 2016 – 17.

Dr. Rashmi Kumari was honoured with the Best Teacher Award by National Institute for Student Education (NISE) Group on 5 Feb., 2017.

Mr. Ankur Betagiri was awarded 'Aralu Prashasti-2015' for Creative Writing in Kannada given jointly by Kannada Sahitya Parishat and Karnataka State Road Transport Corporation.

Dr. Nandini C. Sen won the "Write India" Contest organised by the Times group for a nationwide best story contest in May' 16.

Dr. Sutapa Das received World Gender Sensitization Award on March 8, on the occasion of the International Women's Day. The award was given away by the High Commissioner of Botswana, Ms. Lesego Ethel Motsumi in presence of diplomats and foreign dignitaries on the occasion of the 2017 World Girl Child Education and Empowerment Summit held at India International Centre, New Delhi.

Principal, Dr. Mukti Sanyal, Bharati College was given "The Green Campus Award" at World Girl Child Education and Empowerment Summit held at India International Centre, New Delhi.

### **Students with Distinction**

Six athletes participated in the University Open Trials for Cross Country Run for six km and secured the fourth place.

The College secured positions in 100 metres, high jump and Shot Put at the Inter College Athletic Invitational Championship organised by Kirori Mal College and Mr. Ram College of Commerce.

Chilman (Dramatics Society) under the guidance of Dr. Sonali Jain, performed '*Khol Do*', based on the famous story by Saadat Hasan Manto, at several venues. The team bagged the best production at Kalindi College. Jennifer A. Chuks was judged the Best Model, Female Category at 'Splash', the Annual Cultural Fest of Lady Harding College and at DUSU (Delhi University Student's Union) festival held at the Polo ground, University stadium it bagged the first position.

## **Publications (Selected)**

### Books:

Bansal, V. (2017). *Business Laws*. Delhi: Vikas Publications Ltd.

Bansal, V. (2017). *Corporate Laws*. Delhi: Vikas Publications Ltd.

Kaushik, S. (2016). *Cyber Crimes*. Delhi: Galgotia Publications.

Kataria, K., & Rajni. (2016). *Financial Institutions, Financial Markets and Financial Services*. Delhi: Galgotia Publications.

Srivastava, D. (2017). *Political Theory*. Delhi: Centre for Distance and Open Learning, Jamia Milia Islamia.

### Research Publications:

Jain, R. (2017). Seeking justice for the extreme marginalised social-class: A study of hijra in India. *The Delhi Journal of Humanities and Social Sciences*, 5, 7-11.

Kale, B. (2017). Is humour gendered? A theoretical and textual analysis. *The Criterion*, 8(1).

Kumar, S. (2016). B R Ambedkar: Caste in past, present and future. *Indian Economic Journal*, 2(1), 298-303.

Rani, S. (2017). *Social Media: Sambhavnaye aur Chunautiyan*. Delhi.

Saroha, K. (2017). Bama: Through a Dalit womanist lens. *International Journal of Applied Research*, 3(1), 444-448.

## **Research Projects**

UGC, 2016-17, Historic Preservation in the wake of Urbanization in the 21st Century: Exploring two cities Delhi and Kolkata, Rs. 1.6 Lakh (Approx.)

## **Seminars Organised (Selected)**

Dr. Nandini C. Sen on 'The Centenarian wish of the Activist-Writer Mahasweta Devi: A Tribute,' 16 Aug., 2016.

Mr. Ankur Betagiri on 'A Case for the Standardization of Indian English,' 20 Sept., 2016.

Dr. Kanta Bhatia on 'Relevance of Abhigyaanashaakuntalam in Modern Times,' 7 Feb., 2017.

Ms. Anavisha Banerjee on 'Bankimchandra Chattopadhyay and Women in Nineteenth Century Colonial Bengal,' 11 April, 2017.

Rishikesh Kumar Singh, ASLE, President on 'Environment and Literature', 6 Feb., 2017.

## **Conferences Organised**

Migration and Diaspora: Theory, Cultures and Literature, organised on 24-25 March, 2017 and sponsored by ICSR

Modern Sanskrit Literature on 25 Jan., 2017, organised by the IQAC committee of the college.

## **Seminar / Conference Presentations**

Anubhuti Maurya. (2017) "On the Edge of the Empire: Representations of Kashmir as Borderlands in the Travel Accounts of Seventeenth to Nineteenth Centuries." Seminar Lines of Control: Rethinking Borders and Borderlands, University of Chicago, 2-3 March 2017.

Shailza Singh. (2016) "Security in the Contemporary World: Securing 'What' and 'How'." International Studies Association (North-East) 44th Annual Conference, Baltimore, Maryland, USA, 3-4 Nov., 2016.

Saloni Gupta. (2016) "Financial Returns of Intangibles in Luxury Market: A Cross Sectional Study of 2015." International Conference organised by the Department of Commerce, Delhi School of Economics on "Startup to Sustainability: Initiatives and Challenges", 4-5 Nov., 2016.

Rajni. (2016) "Analysis of Financial Literacy and Financial Behaviour among College Student in Delhi." 2<sup>nd</sup> International Management Conference on Innovation and Sustainable Development in Global Economy" organised by Fortune Institute of International Business, New Delhi, 20-21 Dec., 2016.

### **National / International MoUs**

MoU with NIIT Ambit Computing Pvt. Ltd. to qualify NIELIT.

MoU with Kryptos Solutions for College App on Google Play.

### **Placement Details**

Students placed – 35 (25%)

Companies/Industries visiting campus for recruitment – 7

### **Extension and Outreach Activities**

The college organised nine camps in the surrounding areas in which 25 students participated and 25 people were enrolled/covered. In total, 27 hours were dedicated to these camps. Besides, the Outreach and Extension Cell under the guidance of Dr. Rekha Sapra initiated the 'Library Every Friday' programme for providing free Library facilities to the children of Nirmal Chhaya. The college in collaboration with CFAR (Centre for Advocacy and Research) organised a Public Art show on 6th and 7th Feb., 2017 under OBR (One Billion Rising) campaign. The art exhibition brought together the creative outputs that had emerged from the various workshops that had taken place over the last year as part of a school project.

### **Library Development**

This year, 767 books were added in the collection of library making a total of 51,061 books. To promote research activities among faculty members, the institutional membership of N-List was renewed this year. Further, an enabling unit for differently abled students was introduced in the library. Children's corner for children under the age group of 5-10 years was created for staff members with young children on the first floor of the library. Since the College is not in a position to provide a crèche, the children's corner can be used by the children of staff members.

### **Faculty Strength**

Permanent – 66; Ad hoc – 32

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 1564.25

Utilized – Rs. 1765.03261

### **Other Significant Information**

Bharati College Non-Collegiate Center marked an exciting and fun-filled academic session. An orientation programme was held on 7 Aug. 2016, the first day of the new academic session 2016-17. Three students from the Bharati NCWEB Centre made it to the toppers from overall NCWEB and were felicitated at the Annual Day. A number of outreach and awareness generation programmes were conducted by the Centre by inviting dedicated resource persons. Two students of Bharati NCWEB Himani and Shalu got best actor award in Nukkad Nataak competition held in Shyam Lal (Eve.) College. Anshul and Smita got third prize in debate Competition in PGDAV College.

Among the non-teaching staff, the Administrative Staff, Mr. Pawan Babbar participated in a four Week programme on Educational Administration, University Management, Finance and Accounts conducted by the University of Delhi. Mr. Parmamand Singh attended a one day workshop on Accounting conducted by Acharya Narendra Dev College which was a skill enhancement training session sponsored by the UGC. Mrs. Poonam Khosla, Mr. Gavish Chandra and Ms. Lajwanti attended three days Training Programme on Educational Administration organised by the Sri Venkateswara College. Ms. Poonam Khosla also attended a one day Training Programme on Smart Office Administration organised by Delhi College of Arts & Commerce, University of Delhi.

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## BHASKARACHARYA COLLEGE OF APPLIED SCIENCES

### Major Activities and Achievements

Bhaskaracharya College of Applied Sciences has made significant contribution to the society in terms of producing scholars and intellectuals who have reached unparalleled heights at a global level. Three students of our college have secured top University positions and have also brought laurels in sports, co-curricular and extracurricular activities. The college has recently been awarded with Star College Status by Department of Biotechnology (DBT) in recognition to the introduction of enrichment programmes in the curriculum and efforts towards the society at large. The college faculty is actively engaged in research which has also helped to getting extra resources for undergraduate students. Some of the faculty members have been awarded by various organizations for teaching and research. Several international and national conferences, seminars, workshops were organised in the college. Memorandum of Understanding (MoU) has also been signed by the college which has given new dimensions to academic life, quality of education, improved standard of research undertaken by students and faculty.

### Honours / Distinctions

Dr. Shalini Sehgal was awarded 'Excellence in Food-Technology 2016' by AATSEA, Thailand and SAB, India and nominated as the Fellow of the Society.

Dr. Lalit Kapur received the best content award for paper, 'Frequency Domain Analysis of Selected Heart Rate Variability and Respiratory Variable of Male Sport Students and Non-sports Students from Science Stream Background.'

Dr. Vijaya Kumar Nalla received an MHRD sponsored 'Chinese Government Scholarship'.

Dr. Uma Chaudhry has been awarded UGC Research Award for the year 2016-18 to work independently on a research problem.

Dr. Uma Dhawan has received UGC Raman Fellowship (2016-17) for pursuing Post-doctoral research at Department of Neurology, Boston University School of Medicine, USA.

### Student's Achievements

Ms. Stabonia Maji of B. Sc. (Hons) Biomedical Science III year, secured I rank in the University.

Ms. Swati Yadav of M. Sc. in Fabric and Apparel Science, secured I rank in the University.

Ms. Pallavi Katyral of Post Graduate Diploma in Dietetics and Public Health Nutrition, secured I rank in the University.

Anjali Gaur won Gold medal in University of Delhi Taekwondo Tournament 2017 and National Junior Taekwondo Championship 2016.

### Publications

Kumar, P., Bali, A.K. and Kapur, L. (2016). A comparative study of heart rate variability (Time Domain) of selected variables of male science students from sports and non-sports background. *Online International Interdisciplinary Research Journal*. 6, 267-272.

Deep, B., Kumar, N. and Kumar, P. (2016). Overview of data centre in cloud based environment. *Journal of Electrical and Electronics Engineers (IJEET)* 8(2)372-376.

Bansal, N., Dhewa, T., Thakur, M., Sehgal, S., (2016). Probiotic drugs and labeling practices in Indian market. *DU Journal of Undergraduate Research and Innovation*. 2(1): 215-223.

Bhatt, G., Khanna, M. and Pani, B. (2016). Consumption pattern, behaviour & awareness towards e-waste among mobile users in New Delhi. *International Journal of Environmental Policy and Decision Making*. 2(1).

Shukla, S. K., Shukla, S.K., Govender, P.P. and Giri, N. G. (2016). Biodegradable polymeric nanostructures in therapeutic applications; opportunities and challenges. *Journal of RSC Advances*. 6(97) 94325-94351.

Nain, R., Singh, D., Jassal, M. and Agrawal, A.K. (2016). Zinc oxide nanorod assisted rapid single-step process for conversion of electrospun poly nanofibers to carbon nanofibers with high graphitic content. *Nanoscale* 8 4360-4372.

### Teachers serving as Editor(s) Members(s) of Editorial Board – 06

#### Research Projects

Dr. Balaram Pani and Dr. Manjeet Singh, 2016-2018, Board of Research in Nuclear Sciences (BRNS), Spatial Distribution of Uranium and associated water quality parameters in groundwater/surface water of six districts (Agra, Mathura, Mahamaya Nagar, Kanshiram Nagar, Etah and Badaun) of Uttar Pradesh, Rs. 26.94 Lakhs.

Dr. Balaram Pani and Dr. Deepak Gupta, 2016-2018, Department of Science and Technology (DST), Synthesis and Post Self-assembly Functionalization of Re and Ru-based Metallacycles and its Effects on the Photo physical and Electrochemical Properties, Rs. 23.29 Lakhs.

Dr. Uma Chaudhry and Dr. Balaram Pani, 2017-2019, Department of Science and technology (DST), Rs. 22.72 Lakhs.

#### Seminars / Workshops Organised

National Workshop on 'Intellectual Properties Rights: Culmination of Research' in association with Ministry of Micro, Small and Medium Enterprises, Government of India was organised on 23-24 Sept., 2016.

Dr. Geeta Sheshadri, Assistant Director, Mr. ram Institute for Industrial Research, Delhi on 'Nano Technology: Development of Nano films and its Applications in Food Packaging,' 20-22 Feb., 2017.

Prof Arun Jaganathan, Department of Botany, University of Delhi on 'Genetically Modified Organisms,' 30 March, 2017.

Dr. Amulya Panda, Scientist, National Institute of Immunology gave a talk on 'Vaccine Delivery and Tissue Engineering using Biodegradable Polymer Particles,' 21 April, 2016.

Dr. Avinash Bajaj, Associate Professor Regional Centre for Biotechnology on 'Introduction to Nanotechnology – Future to Every Disease' 21st April, 2016.

Dr. Anshu Bharadwaj, CSIR-Open Source Drug Discovery, on "Increasing Drug Resistance in *Acinetobacter Baumannii*" on 3rd June, 2016 by.

Prof. B C Das, Amity University on 'Gene, Genomics and Cancer,' 31 Jan., 2017.

Organised popular lecture on 'Current Challenges in Science and Society: Opportunities for fresh graduates' in collaboration with the Career Counseling and Placement Cell of the College, 7 Feb., 2017.

Dr. Deepak K Saini, Associate Professor at Indian Institute of Science, Bangalore on 'Career Prospects in Biomedical Science,' 16th Feb. 2017.

#### Conference Organised

National Conference on Clean & Green Energy: The Chemical & Environmental Aspects (NCGE-2017)' organised on 17 Feb., 2017.

#### Seminar / Conference Presentations

Uma Dhawan, (2016) Structural Bioinformatics and Molecular Docking." Department of Biochemistry, VP Chest Institute, University of Delhi, 5 May, 2016.

Shalini Sehgal, (2016) "Consumer Perception and Quality Assessment of Probiotic Foods in Indian Market." National Conference on Nutritional, Functional and Safety challenges of food and health issues in the current scenario, SHIATS, Allababad, 6-7 Oct., 2016.

Eram S. Rao, (2016) "Assimilation of Food safety Culture: Keeping pace with a rapidly developing Food Processing Industry in India." Seminar on Ensuring Safety of Food, Agrochemical, Medical Devices and Pharmaceuticals, IIC, New Delhi, India, 16 Nov., 2016.

**Placement Details**

Students Placed – 05

Companies visiting campus for recruitment – 02

**Extension and Outreach Activities**

The 'Vivekananda Vichar Manch' celebrated the Universal Brotherhood Day on 21 Oct. 2016. National Youth Day was also celebrated on 12 Jan., 2017 to mark the birth anniversary of Swami Vivekananda. Students of Microbiology and Biomedical Science Departments took initiatives to train school students in problems associated with obesity. Several foldscope workshops were organised at Vigyan Prasar and Children Book Trust to create awareness of microbial contamination in foods.

**Library Development**

The Library has a collection of 24,506 volumes of books including reference book, 336 bound volumes of journals and 978 CD ROMS. Apart from the regular subscription to some journals, the library, this year, has renewed its subscription to N-LIST (National Library and Information Services infrastructure for Scholarly Contents) programme of INFLIBNET. This has provided the facility to access a large number of e-Resources to the students and staff throughout the year 24x7.

**Faculty Strength**

Permanent – 46; Ad-hoc – 37

**Financial Allocation and Utilization**

Grant Sanction – Rs. 15,27,00,000/-

Utilised – Rs. 1445323533.43/-

**Other Significant Information**

An Internal Quality Assurance Cell (IQAC) has started functioning as per the directives of UGC. Out of the twelve DU Innovation projects of the year 2015-16, five projects were selected for display during the Convocation Ceremony of University of Delhi and received special awards.

Bhavya Deep was awarded the Best Paper Award for the paper 'Security and Data Transmission Techniques in Cloud Environment' at the 8<sup>th</sup> International Conference on Recent Innovations in Science, Engineering and Management held on 21 Oct., 2016.

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**BHIM RAO AMBEDKAR COLLEGE****Major Activities and Achievements**

The college organised an awareness programme under Digital India initiative while facilitating the NDLM T20 Cricket Tournament. 'Baba Saheb Memorial Lecture' was delivered by Prof. Sanjit Kumar and Prof. Sri Prakash. Special Lectures were organised on the occasion of 125<sup>th</sup> Birth Anniversary of Baba Saheb and 61<sup>st</sup> Maha Parinirvaan Divas. The college organised a debate and an essay writing competition on the constitution day; organised Disaster Preparedness Training, an Inter-College Baba Saheb Memorial Trophy tournament, a two-day student centered programme 'Abhivyakti' and 'Divyangjan Mahotsav,' 'Delhi Best Cadet Award 2016' and participated in the Govt. of India sponsored 'Run for Unity,'. Herbal & Rose Gardens won, 'Department of Sociology Cup and Jagran Devi Memorial Cup.' The College was nominated by GNCTD and the NCC Unit 2 Delhi Girls Battalion as the Nodal Agency on the occasion of International Yoga Day. The college team won the Volleyball Tournament at BITS Pilani; and the Inter-College and Inter-University Softball tournaments..

### **Honours / Distinction**

SUO Avdesh Kumar won the 'I prize in Delhi Best Cadet Competition' organised by the college Alumni association.

JUO Amarchand was selected as the best shooter during firing competition held at CATC-I.

16 girl cadets led by SUO, Pooja participated in the *PM Rally*.

### **Students with Distinction**

Three students Nikita, Firoz and Amarnath were awarded certificates for having got the Highest Attendance in library in the academic session 2016-17.

### **Publications (Selected)**

Arora G. K. (2016), Make in India: The missing linkages. In *Academia – An International Multidisciplinary Bi-annual Journal in Social Sciences, Humanities and Languages*, Jan-June 1(1), BRAC, New Delhi. ISSN-2395-0161

Bhardwaj, T. (2016). Serodiscordance and gender dynamics in Indian culture. In *Cross Cultural Perspectives on Couples With Mixed HIV Status: Beyond Positive*, New York, LCC: Springer

Bhardwaj, Tushti. (2016, July). Diminishing Social Support; Increasing Social Responsibility. an online lecture on [www.psychevisual.com](http://www.psychevisual.com).

Dash, B. M. (2016). Teachership; and Dignity and worth of life. Two Chapters in Prof. Gracious Thomas, (Ed.), *Social work-A Value Based Profession*, Jaipur: Rawat Publications.

Dash, Bishnu, Mohan. (2016). Food Security and Child Labour. Book Review, *BSSS Journal of Social Work*, 7 (1).

Kumar, A. (2016). *E-commerce and Consumer Interests*. Delhi: Raj Publication. ISBN: 978-93-82281-60-3

Kumar, S. (2016). Impact of institutional credit on agricultural production. *Academia, An International Multidisciplinary Bi-Annual Journal in Social Science, Humanities and Languages*, 1(1), ISSN: 2395-0161

Kumar, S. (2016). Organizational Transformation and its after effects on employees' attitude: A study on power distribution. *Asia Pacific Journal of Advanced Business and Social Studies (APJABSS)*, Australia, 2(2), ISSN: 2205-6033, ISBN (eBook): 978 0 9943656 7 5

Nehra, K. (2016). Ek Dalit masiha ka samajik sangharsh. *Samanya Jan Magazine*, Sept-Oct 2016.

Prasad, R. (2016). Gross national happiness: The development philosophy of Bhutan. I In B. Thakur, H.S. Sharma, S. Misra, S. Chattopadhyay and S. Singh, (Eds.), *Regional Development: Theory and Practice, II*, (Dec. Concept Publishing Company (P) Ltd. ISBN No. 93-5125-202-7

### **Journals published by the College**

The College publishes the Journal *Academia*, which was released by the college GB on 17 Oct., 2016.

### **Teachers serving as Editor(s)/Member(s) of Editorial Board – 02**

### **Research Projects**

Dr. Mohnish Kumar, Dr. Monica Ahlawat, Mr. Purushottam. DU Innovation Project, 2016, Development of entrepreneurial venture of DU (daily use) bottles: A study of tech/economic and marketing feasibility, Rs. 3.5 Lakhs.

Dr. D.K. Pandya, Dr. Vinod Kumar & Dr. Sunita Sharma. DU Innovation Project, 2016, Social & economic value based study of ageing population: A case study of *Brij* region, Rs. 3.5 Lakhs.

### **Seminars/Workshops Organised**

Two-day workshop on Data Analysis using R Studio conducted by Vaibhav Garg, (*Alumni BBE*).

### **Seminar / Conference Presentations**

Arora G. K. (2016) "Make in India as Development Model: Analysing Missing Linkages." 36<sup>th</sup> International Business Research Conference held in Canada, 12-16 July, 2016.

Bhardwaj Tushti. (2016) "HIV-Status Disclosure: A Call for Helping Profession in Public Health." World Social Work Conference on Social Work Education and Social Development SWSW-2016 held in Seoul, South Korea, 2016.

Kumar Anil. (2016) "A Study of Ecotourism in Himachal Pradesh." 69<sup>th</sup> All India Commerce Conference, University of Lucknow, Lucknow, 11-13 Nov., 2016.

Dutta, Sonam. (2016) "Association of Quality Function Deployment and Target Costing for Start Up India." 69<sup>th</sup> All India Commerce Conference, 11-13 Nov., 2016.

Galhotra M. K. (2016) "Role of Libraries in Social Empowerment." Gandhi Peace Foundation, New Delhi, organised by Compact Society for Social Welfare (CSSW), 21-22 Oct., 2016

Kadayan Mohinder Singh. (2016) "Input-Output Analysis of Energy Use in Agriculture: A Micro-Level Study in Bhiwani District of Haryana." 38<sup>th</sup> Indian Geography Congress (NAGI), University of Mysore, held from Dec. 26–28, 2016.

Shahani Rakesh. (2016) "Empirical Investigation of the Presence of Structural Break in the Behaviour of Returns of the S&P NSE 500 Index." Second International Conference on Applied Business & Economics (in Collaboration with Indian Econometric Society), SMVDU, Katra, 2016.

Yadav, Arvind Kumar. (2016) "Cosmopolitan Tribals in Delhi: A Study of North East Migrants." Presented in a National Conference on Sustainable Development of Tribal Population: Challenges and Strategies Organised by Bhopal School of Social Sciences (BSSS), 5 Nov. 2016.

### **Placement details**

Students placed – 101

Companies visiting campus for recruitment – 14

### **Extension and Outreach Activities**

The students of BSW III year organised a rural camp during 3-7 Oct., 2016 at Samridhi- Gram Niyojan Kender, Roopwas, Bharatpur, Rajasthan. The college faculty spoke on many issues to motivate the village students for higher education and community development.

### **Library Development**

Books provided to the economically weaker and brilliant Students under Students Aid Fund Scheme: (S.A.F): (a) Number of students 60; and (b) Number of books 200. The College Library is computerized and covered under CCTV surveillance and using *Libsys software*. It also provides *OPAC* (Online Public Access Catalogue) facility which help to check his or her library account. Library has space for 100 readers with a separate space for consultation of Newspapers & Magazine. Special Collection of Dr. Ambedkar, Gandhi, Nehru & other personalities are also available along with Dictionaries on each floor and not to be issued Textbook section. Student Orientation Programme was organised on 26 Aug. 2016.

Many other initiatives taken and services provided by the Library to the Students/ Faculty Members include: Desktop computer with Wi-Fi connectivity and Laptop charging facility; Link to access e-Resources in the library from DULS; access to N-list Programme of INFLIBNET; Question papers of the previous years; Notification of job openings, and Subject-wise and Floor-wise Signage's. The library is equipped with Special Facilities offered to the Divyangjan. Those include: Separate air-conditioned cabin (Named Helen Keller Unit) with two computers; Online membership of Sugama Pustakalaya free of cost; and Separate sitting space for reading of Braille study materials.

### **Faculty Strength**

Permanent – 73; Ad-hoc – 43



### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 21,22,00,000 /- (100% funded by the Delhi Government)

Utilized – Rs. 21,55,40,216 /-

### **Other Significant Information**

A new course, B. A. (Hons), History has been introduced.

Dr. Sunita Chaki completed five modules as content writer for 'e' pathshala (UGC Project).

Anti-Tobacco Committee of the College organised awareness programme about the ill effects of tobacco consumption on human health including Motivational talk by Dr. Manju Gupta, ex-Head and Monica Gupta Hindu Rao Hospital and (4 Nov., 2016); Anti-Tobacco Rally in Gokalpuri Village (8 Nov., 2016); and Poster Making Competition in the College (3 Nov., 2016).

Department of Psychology organised a counselling workshop for their students on 7 Oct., 2016 with Dr. Uday Sinha, the then acting HOD, IHBAS, Delhi as the Chief Guest.

Cadet Rohit participated in the Republic Day Camp (All India Guard of Honour) & CC Kailash Ranwa participated in Pre-Republic Day Camp 2017.

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## **COLLEGE OF ART**

### **Major Activities and Achievements**

The college organised several activities – Annual: Induction day, Education study tour, Sports meet and Art exhibition, to mention a few. The new students and their parents were welcomed to the College with the “Induction Ceremony” to meet the Faculty, Staff and students on 20 July, 2006. Sh. Lalit Mansingh, Former Indian Foreign Secretary was the Chief Guest and Prof. Suneera Kasliwal, Dean, Faculty of Music and Fine Art was the Guest of Honour. In the 64<sup>th</sup> art exhibition (7-21 Feb., 2017), selected work of the students was displayed and the event was inaugurated by Padma Vibhushan Dr. Kapila Vatsyayan, an eminent art scholar. Smt. Punya Salila Srivastava, IAS, Secretary DTTE, Sh. Manoj Kumar, IAS, Director, DTTE Sh. Nand Katyal, Eminent Artist (Painting 1961 Batch), Prof. Suneera Kasliwal (Dean Faculty of Music & Fine Arts), University of Delhi, were the guests of Honour.

Ms. Supriya Soni, Dept. of Applied Art, MFA Final Year and Sh. S. Elanchezian, Dept. of Painting, MFA Final Year were nominated to design the calendar of the National Book Trust, India which was released by Sh. Prakash Javadekar, Hon'ble Union Minister of Human Resource Development during the New Delhi Book Fair 2017 on 10 Jan., 2017.

### **Honours / Distinctions**

Arun Bhandar's sculpture, from the department of sculpture MFA, was selected in the 25<sup>th</sup> Ravi Jain Annual Art Exhibition, organised by Dhoomimal Art Gallery, New Delhi.

Rajeev Ranjan, BFA, Department of Sculpture participated in 9<sup>th</sup> National level students workshop organised by Chamrajendra Govt. College of Visual Arts, Mysuru.

Ashok Kr Vishwakarma of BFA (Applied Art) final year secured first position in the university.

Kashish Gupta of BFA (Printmaking) final year secured first position in the university.

Rhea Jose of BFA (Art History) final year secured first position in the university.

Supriya Soni of MFA (Applied Art) final year secured first position in the university.

Sangeeta Grover of MFA (Painting) final year secured first position in the university.

### **Seminars / Workshops Organised**

Sh. Nanda Kumar PK, Eminent visual artist and sculptor interacted with the students and faculty and gave a Lecture/Slide show, showcasing his work on 3<sup>rd</sup> Feb., 2017 in the College auditorium.

Sh. Manoj Nair, gave a Lecture/Slide show on Art media. Sh. H.G. Arun Kuma gave a talk on Sculpture and Installations.

College organised the annual educational study tour from 7-21 Feb., 2017 for the students of BFA III Year of specialization classes of the six disciplines.

### **Extension and Outreach Activities**

Department of MFA Painting, Ritika Sharma, Volunteered at Happy Move Camp – 2016, a cultural exchange programme between Indian and Korea Senior – Junior Artist’s exhibition – 2016 in AIFACS.

Students of MFA Applied Art and MFA Visual Communication accompanied by Dr. Sumita Kathuria and Dr. Kumar Jigeeshu visited the leading Thompson Press, Okhla.

Department of Painting BFA IV Year Students’ have had an impressive participation and contribution – In Election Commission.

### **Library Development**

Budget was Rs. 4 Lakhs; 205 books were added and 17 journals were subscribed to.

### **Faculty Strength**

Permanent – 15

### **Other Significant Information**

Department of Applied Art, MFA had an impressive contribution in the RBI Art competition 2016.

The College organised the Annual Sports Meet at Karnail Singh Stadium, New Delhi on 24 March, 2017.

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## **COLLEGE OF NURSING ARMY HOSPITAL RESEARCH & REFERRAL**

### **Major Activities and Achievements**

College of Nursing, Army Hospital (R&R) conducts B.Sc. (H) Nursing course with an annual intake of 30 students. College Day was celebrated in Ayurvigyan Auditorium of AHRR on 01 Jun 2016. Chief Guest for the event was W/o Army Chief, Mrs. Namita Suhag, President; AWWA. College also released its first magazine ‘Tarangini’ during the occasion. On 70<sup>th</sup> Independence Day, an Interhouse group song competition, and slogan writing competition was held. Students made ‘Thankyou cards’ as a sign of gratitude for hardwork, dedication and sacrifice of soldiers of Indian Army. An interhouse model competition was conducted on ‘Air Pollution’ at College and Prize winners presented it on 10 March, 2017 at IMA during International Summit on Air Pollution. On the eve of International Yoga day, College organised a lecture at Nursing Cadets Mess on yoga and its benefits. Students took the Yoga Pledge and were demonstrated different postures/asanas, which they also practiced under the supervision of trained yoga instructors.

### **Honours / Distinctions**

N/Cdt Mousumi Parveen of III year B.Sc.(H) Nursing participated in state level SNA Poster making Competition held at RAK College of Nursing, New Delhi and secured second position.

N/Cdt Renu Bisht of II year B.Sc. (H) Nursing participated in state level SNA Miss personality contest and stood first

Students of this college participated in SNA state level relay race & 100 m race and secured first position in both the event

### **Students with Distinction**

V Semester B.Sc. (H) Nursing Examination Nov-Dec 2016, DU- N/Cdt Arunima GP.

III Semester B.Sc. (H) Nursing Examination Nov-Dec 2016, DU- N/Cdt Parul.

### **Publications**

Jilmy, Anu. Jose. (2016). Effectiveness of structured teaching programme in practices in prevention of needle stick injury. *Journal of Nursing Today*, 1(2), 11-20.

### **Teachers serving as Editor(s)/Member(s) of Editorial Board – 01**

### **Research Projects**

Lt. Col. Dola Banerjee, Armed Forces Medical Research Committee, 2014-2016, A descriptive study to assess the adherence to existing protocol of needle stick injury among health care worker at a tertiary health care worker at a tertiary health care hospital, Rs. 20, 000/-.

Lt. Col. Rajusha Raju, Armed Forces Medical Research Committee, 2014–2016, A comparative study to assess the effect of Kangaroo mother care vs conventional care to pain response among neonates in tertiary care hospital, Rs. 65000.

Lt. Col. Alka Thomas, Self funded by students as study was part of the curriculum, 2016-17, A study to assess the internet addiction among the nursing students of a selected college of nursing.

Lt. Col. Reena Ojha, Self-funded by the students, 2016-17, A descriptive study to assess the knowledge regarding HIV/AIDS among adolescence studying at selected higher secondary school of New Delhi.

Lt. Col. Mary Priya AV, Self-funded by the students, 2016-17, A study to assess the knowledge and practices of infection control among renal transplant recipient availing services of nephrology department of a selected quaternary hospital New Delhi.

### **Seminar / Conference Presentations**

Continuing Nursing Education Programme on ACLS BLS, 21–27 Nov. 2016, DGAFMS

Workshop on “Home procedures in community” 29 Dec., 2016, self funded by 58<sup>th</sup> batch of Nursing students of College of Nursing Army Hospital (R&R)

Workshop on Advanced Nursing procedures, 28 Jan., 2017, Self funded by PB Diploma Trainee officers of College of Nursing Army Hospital (R&R)

### **Placement Details**

Students Placed – 116 (96.66%)

Companies are not invited for campus recruitment as College of Nursing AHRR is an Armed Forces Organization and all students are absorbed to service after completion of training.

### **Extension and Outreach Activities**

Students organised a health camp for the general public on “General Assessment” at UHC Dwarka Sector II, 11 Jan., 2017. Health Camp was organised by III year B.Sc. (H) Nursing students at Village Ujwa of Najafgarh along with role play to create awareness on prevention of female foeticide, 22 Feb., 2017. Students participated in Womens day Celebration and performed a role play on womens health at Naval auditorium organised by NWWA. Chief Guest for the function was Naval Chief Admiral Sunil Lanba. 28 Feb., 2017. Students enacted a role play on Depression “Let’s Talk” in NCC auditorium organised by AWWA for the families of Armed Forces. Chief Guest for the

occasion was Mrs Madhulika Rawat, president AWWA. They also organised Nutrition Mela to create awareness among women on food rich in iron & how to prevent anemia, 19 March 2017. 88 students planted 225 saplings at 132 Territorial Army (Eco) Rajput Regt on the occasion of “World Forest Week Celebration.” Students also attended a lecture on harmful effects of deforestation. They attended seminar on “World Health day” at ACMS, 21 March 2017.

### **Library Development**

Total No of Books in College of Nursing – 4630

Total number of books in Army Hospital (R&R) library – 10000

### **Faculty Strength**

Total – 25; Ad-hoc – 03

### **Financial Allocation and Utilization**

Grant sanction

ACG grant – Rs 9,01,349/-

TTIEG grant – Rs 2,04,444/-

CSD Fund – Rs 4,08,742/-

IHQ Fund – Rs 62,500/-

Utilized – 100%

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## **COLLEGE OF VOCATIONAL STUDIES**

### **Major Activities and Achievements**

The college has been awarded ‘A’ Grade by The National Assessment and Accreditation Council (NAAC). We celebrated the World Tourism Day on 27 Sept., 2016, where various activities such as ‘Mind Palace,’ ‘Catechism,’ ‘Q-Riosity’ and ‘Epcocalypse’ were organised to test the detective abilities, quick wit, economic quiz and logic application of the students. Gender Equality Drive was conducted by the Women Development Cell of the College to sensitize the students at large. ‘ECONOX’: The Economics society of the college hosted the events.

### **Honours / Distinctions**

Dr. Inder Jeet, Principal:

Member of the Academic Council of Delhi University from Oct., 2014 to 2016.

Nominated by the Vice Chancellor, University of Delhi to the Business Advisory Committee, Standing Committee (Students) of the Academic Council and the Committee to Formulate the Admission Modalities for B.Voc. Program in Colleges of University of Delhi as well as Commerce and Business Courses Admission Committee for the year 2016.

Nominated by the Vice Chancellor, IGNOU, as member of the Expert Committee for designing B.Voc. Programme

Dr. Surender Singh was appointed as Member of the Expert Group on the paper ‘Risk Management’ by Institute of Chartered Accountant of India to revise their final year course syllabus in 2016-2017.

Dr. Kumar Ashutosh, Department of Tourism was invited as a key note panelist in a conference organised by WTTC at Indonesia, 20-22 May, 2016.

### **Students with Distinction**

Prashant Sharma of B. Com (Hons.) secured first position in the university.

Ritika Khurana of B.A.(Hons.) Economics secured first position in the university.  
Amritansh Kumar of B.A.(Hons.) History secured first position in the university.  
Aishwarya Jha of B.A.(Hons.) English secured first position in the university.  
Poorvi Pandey of Bachelor of Management Studies secured first position in the university.

### **Publications**

Nangia, M. (2016). Banking sector reforms: Here's Why We Need to Watch Closely the Effects of Demonetization on the Banking System. *Don't speak, don't tell, The Hindu*. Retrieved from web link, 'the wire'.

Singh, S. (2016). *Management Accounting*. New Delhi: PHI Learning

Singh, S. (2016). *Fundamentals of Cost Accounting' and Elements of Cost Accounting*. Allahabad; Kitab Mahal.

### **Research Projects**

Principal Investigators: Dr. Gauri Mishra, Mrs. Anuradha Bawa Singh and Dr. Anu Satyal, DU Innovation Project, 2016, CVS-301.

### **Seminars Organised (Selected)**

A seminar on career awareness in IT by Mr. Chadha, the founder and chief mentor of the institute Encrypt, well-known teacher of mathematics in I.P University. organised Mr. Dheeraj Chauhan & Mrs. Juhi Chauhan, Finance & investment Cell of the College organised a motivational lecture, Sept., 2016.

Ms. Roma Roca, India Head of Tedex Gateway Campus Connect, A special lecture on 'Global Education System Entrepreneurship Skill,' organised Oct., 2016.

Mr. Ravi Kumar, Mercadeo, Marketing Society of the College organised a special lecture on 'Group Discussion & Personal Interview skills,' Oct., 2016.

Mr. Sidharth Marwah & Mr. Dhruv Bhushan, youngest entrepreneur & holder of record in Limca Book of Records, World Merit Global Young Leader, Tech Crunch Top Start-up founder, TEB organised a 2 days workshop in March 2017 on 'Entrepreneurship Skills Development'.

### **Seminar / Conference Presentations**

Nandini Guha, (2016). Translating Disability in Bangla Fiction at the IATIS South-Asian Regional Workshop on Translating Disability Across Cultures. Jawaharlal Nehru Institute of Advanced Studies, New Delhi.

Inder Jeet chaired a session in 5<sup>th</sup> Annual International Commerce Conference 2016 on "Startup to Sustainability: Initiatives and Challenges", organised by Department of Commerce, Delhi School of Economics, University of Delhi.

Surender Singh participated in a live Web Cast Programme on Strategic Financial Management for CA final year students on the Institute Website in 2016-2017.

### **Placement Details**

students placed and percentage – 83 (33%)

Companies visiting campus for Placements – 29

**Library Development** – Rs. 52,000/-

### **Faculty Strength**

Permanent – 44; Ad-hoc – 77

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 21,17,89,316/-

Utilized – Rs. 16,17,71,806/-

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## DAULAT RAM COLLEGE

### Major Activities and Achievements

The college was awarded the Green Campus award by the search committee constituted by Women Agency for Generating Employment (WAGE). DRC was awarded Star status by Department of Biotechnology (DBT), GOI, for undertaking innovative practices in science departments. Award of appreciation was given to the DRC for participation in the “say no to drugs” awareness campaign by National Institute of Social Defence Ministry of Social Justice and Empowerment, Govt. of India. Science instrumentation lab, Drosophila laboratory and Zebra fish laboratory have been added in the college to give impetus to science research. This year college also witnessed the visit of peer team from National Assessment and Accreditation Council (NAAC) for accreditation of the college and the college was accredited ‘A’ Grade. To add to green initiative taken last year in the DRC, 540 trees belonging to 102 species have been mapped with names and number by Dr. Malkani, Department of Botany. A new conference hall, drinking water facility and toilet block have been added to college infrastructure.

### Honours / Distinctions

Dr Savita Roy, Principal, was awarded Life time achievement award by Women’s Agency for Generating Employment.

Dr Meetu Khosla was awarded ICSSR Research Fellowship (2016-17).

Best Research Outcome award for Research poster display at Delhi University Convocation 2016, for the Innovation project “Zebra Fish as a Biosensor for assessing Yamuna river water quality in Delhi NCT region.” Dr. Chitra Bhasin, Dr. Padmshree Mudgal, Dr. Anita Mangla, and Dr. Madhu.

Dr Rashmi Saroha received Young Achiever Award for services in the field of education in Dec., 2016.

Simran Motwani of B.Sc. (H) Biochemistry, I year secured first position in the university.

Rashmi Sharma of B.Sc. (H) Biochemistry I year secured first position in the university.

Varsha Singh of B.Sc. (H) Biochemistry, II year secured first position in the university.

Bhumika Tyagi of B.A. (H) Philosophy II year secured first position in the university.

Meenu of B.A. (Programme) II year secured first position in the university.

### Publications (Selected)

Bhasin, C., Mudgal, P. et al.,(2016), Zebrafish early stage developmental defects as indicator of site specific water composition of river Yamuna. *DU Journal of Undergraduate Research and Innovation*, 2 (1), 40-45.

Bhasin et al., (2016). Zebrafish Early Stage Developmental Defects as Indicator of Site Specific Water Composition of River Yamuna. *DU Journal of Undergraduate Research and Innovation*, 2(1), 40-55.

Garg et al., (2016). Laboratory and field scale bioremediation of hexachlorocyclohexane (HCH) contaminated soils by means of bioaugmentation and biostimulation. *Biodegradation*, 27, 179-193.

Khetrpal et al., One pot synthesis of green detergents from biowastes, *DU Journal of Undergraduate Research and Innovation*, 2(1), 92 – 98.

Khosla, M. (2016). Psychoanalytic interpretation of the film ‘Zindagi Na Milegi Dobara’: A peep into the self. *Research Journal of Social Science and Management*, 64, 72-77.

Khosla, M. (2016). Understanding others emotions. *Research Journal of Social Science & Management*, 5(9), 69-74.

Malkani, N.P.(2016). Habitat response and survival of the common weed *Chenopodium album*. *Phytomorphology*, 66 (1&2), 21-33.

Onkar, M., Roy, S. and Ostikov, K., (2016). Dense plasma focus-based nanofabrication of III-IV semiconductors: unique features and recent advances. *Nanomaterials*, 6(1), 4.

Anand, P. V. (2016). Enhancing emotional intelligence: An intervention based study. *Journal of Positive Psychology*, 4 (1,2), 5-16.

Saroja, R. (2016). Gender differences in Indian bureaucracy: A comparative study. *International Journal of Multidisciplinary Research*, 6(3), 136-140.

### **Research Projects**

SERB-ECRA, 2017-2020, "Devise strategies to deliver drug to *in-vitro* and *in-vivo* model of glioblastoma." Rs. 46 Lakhs.

UGC-FRPS startup grant, 2017-20, "Optimize in-situ chick chorioallantoic model for characterizing and monitoring drug release kinetics of nanoliposomal formulation." Rs. 10 Lakhs.

Following Star Innovation Projects were funded by University of Delhi, 2016-17:

"Campus Sustainability Index- Carbon footprint and handprint of the college campus." Rs. 7.21 Lakhs.

"Incidence of Polycystic Ovarian Syndrome in Young Girls." 3.71 Lakhs.

Environmental Impact Statement: Clean energy from waste with microbial fuel cell. Rs. 3.36 Lakhs

Recycled polyvinyl alcohol (PVA) from waste and its Applications. Rs. 6.51 Lakhs.

Synthesis of Biobased mesoporous material and its application in water. Rs. 4.51 Lakhs.

"Status of Women, Children and Youth in Slums of Delhi: with focus on Health, Education and Employment." Rs. 2.86 Lakhs.

"Evaluating the effects of common food additives on vertebrate development and organogenesis using Zebra Fish as a Model System." Rs. 17.91 Lakhs.

### **Seminars Organised**

National Seminar on 'Contribution of Acharya Abhinava Gupta: Philosophy of Kashmir to the Overall Growth and Development of Indian Thought' from 19-20 January 2017. Speakers: Shri. Sunil Ambekar Ji, National Organising Secretary, ABVP, Prof. S. R. Bhatt, Chairman ICPR, Prof. Abhiraj Rajender Mishra, Former V. C, Sampurnanand Sanskrit University, Varanasi, Prof H.S.Prasad Head, Department of Philosophy, DU, Dr. Ashutosh Bhatnagar, Director, Jammu and Kashmir Study Centre, Prof. Bharat Gupt, Trustee and Member EC, IGNCATrust, Prof. Hari Ram Mishra, Jawaharlal Nehru University, Dr. Rajanish Mishra, Jawaharlal Nehru University and Dr. Jay Prakash Singh, Feature Editor, Divya Himachal.

National Seminar on 'Interface of Philosophy with Various Art Forms' from 30-31 March, 2017. Speakers: Shri Amarendra Khatua Director General of ICCR, Professor Waman Kendre, Director of the National School of Drama, Painting, Drama and Dance as works of Art, Manish Pushkale, Eminent painter, Guru Prerana Shrimali, Kathak Dancer, Jaipur Gharana, Professor Vijay Tankha, Sudhir Mishra, noted Film-maker, Shivani Wazir Pasrich, noted Dancer and Actor, Professor Balaganpati Department of Philosophy, University of Delhi, Dr. Nilanjan Bhowmick of the Department of Philosophy, University of Delhi.

### **Conferences Organised**

Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016), 17-18 Nov., 2016, sponsored by SERB, DBT and DRDO.

Exploring the Meeting Ground of Moral, Medical and Legal Aspects of Social Dilemmas in Public Interface, 21-23 Oct., 2016, sponsored by ICPR

### **Seminar / Conference Presentations (Selected)**

Deepshikha M. Bortamuly. (2017) "Violence and Fear in Folk/Fairy Tales: Reading Burhi Aair Xaadhu through Kothanodi." National Conference on Location, Identity, Solidarity: Hegemonic Formations and Contestations (With a special focus on the Northeast), IIT Guwahati 15-17 Feb., 2017.

Indu Jain. (2016) "Role of Companies in Environmental Management through Corporate Social Responsibility and Sustainability Policy." International Conference on Green Chemistry, Daulat Ram College, University of Delhi, 17-18 Nov., 2016.

Meetu Khosla:

(2017) "Morality, Culture and Health." International Seminar, University of Paris Descartes, Paris, France, 28 Jan., 2017.

(2016) "Role of Emotions in Human Development and Growth: an Intercultural Perspective." WISP, University of Warsaw, Poland, 15 Nov., 2016.

(2016) "Culture, Emotion and Communication: Implications for Well-being, Social High School of International Branches (IB)." Warsaw, Poland, 29 Nov., 2016.

(2016) "Role of Emotions in Human Development and Growth: An Intercultural Perspective." Psychology Department, University of Gdansk, Gdansk, Poland, 01 Dec., 2016.

(2016) "Spirituality and Emotional Wellbeing." Invited seminar at University of KardynalaStefanaWyszynskiego, Warsaw, Poland, 25 Nov., 2016.

(2016) "Steps to Enhance Mental Health." American Centre organised by USIEF, Delhi, 19 May 2016.

(2016) "Culture and Education Fulbright-Nehru Scholar Orientation Program" USIEF, Delhi, 27 May, 2016.

Monika Prabhakar. (2016) "The Ethical Unity of the Nicomachean Ethics and the Bhagavadgita." World Congress Aristotle 2400 years, Interdisciplinary Centre for Aristotle Studies, Aristotle University of Thessaloniki, Greece, 23 – 28 May 2016.

Padmshree Mudgal. (2016) "Zebrafish as a Bio-sensor to Assess the Impact of Water Pollution on Human Health." The 9th Zebrafish Disease Models Conference, Singapore, 4-7 Oct., 2016.

Pooja V. Anand. (2016) "Emotional intelligence and optimism: Understanding the Relationship with Health Behaviours." International Conference on Health and well-being, Jamia Millia Islamia, New Delhi.

Poonam Lakhotia. (2017) "Computable Frames in Computable Hilbert Spaces." International Conference on Applicable Analysis, ICAA 2017, Department Of Mathematics, Shaheed Bhagat Singh College, 8 -11 Feb., 2017.

Sarita Nanda, Anju Jain, Anna Senrung. (2016) "Phytoremediation plants for metal contaminated soils." International Conference on Green Chemistry in Environmental sustainability & Chemical Education (ICGC-2016), Daulat Ram College, University of Delhi, 17-18 Nov., 2016.

(2017) "From the Margins to the Mainstream: Cultural Appropriation, Politics and Marketing." International Seminar Reading Margins, Department of English, Swami Shraddhanand College, University of Delhi, 25-26 Feb., 2017.

### **National / International MOUs**

The college has signed MoU with the following agencies –

Swalamban with DRC (recycling unit) on 7 July, 2016 to promote recycling of waste on campus.

Department of Zoology, University of Delhi on 6 May, 2016 for research collaboration.

Greenobin recycling Pvt. Ltd since 29 May, 2015 to recycle paper waste off campus.

Sanskriti foundation for Education and Research since 22 June, 2015.

National Institute of Immunology (NII) since 26 March, 2015 for Science Setu programme to promote science.

### **Other Inter-Institutional Collaboration**

With DRC, Krishi Sanskriti, For conference; and Explore DU, for digital advertisement.

Padmshree Mudgal, Biochemistry, IGIB-CSIR, Mathura road, Delhi, Research.

K. Nirmala, Biochemistry, Sahitya Akademi, Delhi, Book exhibition-cum-sale.

Sarita Nanda, Biochemistry, DIPAS, Mall road, Research.



### **Placement Details**

Students placed – 19

Companies visiting campus for recruitment – 7

### **Extension and Outreach Activities**

North East cell of Daulat Ram College (DRC) in association with the Ministry of Development of North Eastern Region (DoNER) organised two days Inter-College North East Cultural Extravaganza which was graced by Minister of State, Dr. Jitendra Singh, Minister of DoNER. The NSS DRC Unit conducted “Swachhta Pakhwara - The Cleanliness Campaign” for a month which was presided by Dr Ashok Rawat, District Health Officer, Karol Bagh. In collaboration with the Election Commission of India, DRC organised the Voters Day Awareness programme which was honoured by Mrs Manju, Sub-Divisional Magistrate, Election Commission of India. NSS unit was also instrumental in carrying out an awareness drive for importance of e-wallets, digital payments and their benefits. Cycle Rally was organised in collaboration with Delhi Police which was aimed at giving wings to women empowerment. On the “International Women's Day” NSS unit honoured women Non-teaching staff for their contribution in the institute.

### **Library Development**

During the academic year, 1151 books were added to the library and new computers and server were installed to promote and facilitate E-learning.

### **Faculty Strength – 174**

### **Financial Allocation and Utilization**

Grant sanctioned: From UGC (2016-17) – Rs 24,63,10,000/-

Utilized – Rs. 30,71,59,027/-

### **Other Significant Information**

NAAC accredited Daulat Ram College with ‘A’ Grade.

Sonia Mehta was awarded Best Speaker at 4<sup>th</sup> International Conference on “Science and Holistic Health: Issues, Challenges, Opportunities, Prevention, Awareness” (Holistic Health: 2017) organised by Krishi Sanskriti Publication and Dr Mishra Educational Foundation at JNU, New Delhi, on 25 Feb. 2017.

Divya Gupta won ‘Best Paper Award’ in 5<sup>th</sup> Annual Commerce Conference organised by Department of Commerce, Delhi School of Economics for research paper, ‘*Transforming education sector through digital technology: opportunities and challenges for start-ups*’ held on 4-5 Nov., 2016.

Divya Gupta was awarded ‘Best Paper Presenter/Speaker’ in International Conference on Public Health held at Daulat Ram College, Delhi University for research paper, ‘Examining Interstate Disparities in Child Malnutrition in India’ held on 15-16 Jan., 2016.

Divya Gupta was awarded with Best Poster Award for innovation project, ‘*An Empirical Study of Using Social Media for Facilitating Effective Students*’ in Poster Presentation organised by Delhi University on 19 Nov., 2016.

Dr Rekha Kathal won I prize for Best Poster Presentation, “Pollution Status of Yamuna River - A National Concern” in a National Seminar on *Water and Air Quality in Urban Ecosystem*, hosted by Department of Botany, Shivaji College, University of Delhi on March 22, 2016.

Dr Vidhi Chaudhary won prize for Best Poster Presentation, “Pollution Status of Yamuna River - A National Concern” in a National Seminar on *Water and Air Quality in Urban Ecosystem*, hosted by Department of Botany, Shivaji College, University of Delhi on March 22, 2016.

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## DEEN DAYAL UPADHYAYA COLLEGE

### Major Activities and Achievement

The year 2016-17 is a landmark year in the annals of history of our College. We got the distinction of being placed 9<sup>th</sup> in the NIRF Ranking by MHRD among general degree colleges in India. The college has also been consistently ranked 8<sup>th</sup>/9<sup>th</sup> in Delhi and among top 40 at All India level in the Science stream by the India Today - Nielsen Best Colleges Survey consecutively during the last five years. Our magnificent new campus at Dwarka, became operational from July 2016. This year, the faculty members have received grants from various funding agencies, viz. SERB, UGC, ICSSR and University of Delhi. The books/ chapter in books published are 11 and edited books and conference proceedings are 7, while articles published in International, National Journals and Periodicals were 54. Faculty members delivered 14 invited lectures/talks in Conferences/ workshops etc and made 27 Oral and 16 poster presentations. Four students have been awarded Ph.D. degrees under their guidance.

### Honours / Distinctions

Nitin Luthra received the Fullbright fellowship from Institute of International Education (US Govt) as a Foreign Language Teaching Assistant (FLTA) at Ohio University (US) for academic year 2016-17.

Dr. Sudhir Verma was awarded UGC-NRCBS Visiting Research Fellowship at Madurai Kamaraj University (June-July, 2016).

Dr. Manoj Saxena has been recognized as IEEE Electron Device Society Distinguished Lecturer from IEEE-EDS USA.

### Students with Distinction

Rohit Kumar, B.Sc. (Hons.) Physics I year, Meritorious Award from Faculty of Sciences, University of Delhi.

Shashank, B.Sc. (Hons.) Physics I year, Meritorious Award from Faculty of Sciences, University of Delhi.

Aman Saini, B.A. II year, won Silver medal in Individual and team Event at Asia Cup Stage-2, 7-12 Sept., 2016, Taiwan; and Gold Medal in team event at Asia Cup Stage-2, 20-25 March, 2017, Thailand.

### Publications

Jain, H. C. and Sachdeva, P. (2016). Corporate Tax incentives and growth of chemical industry. *International Journal of Management and Social Sciences Research (IJMSSR)*, 5(6) 47-51.

Jain, H. C. and Sachdeva, P. (2016). Tax Incentives and Growth of Paper Industry in India. *International Journal of Management and Social Sciences Research (IJMSSR)*, 5(5), 1-5.

Aggarwal, M. (2016). Liquidity considerations in investment portfolio of a commercial bank in India, *IRA-International Journal of Management and Social Science*, 3(2), 149-162.

Srivastava, et al., (2016). Organic amendment impact on SOC dynamics in dry tropics: A possible role of relative availability of inorganic-N pools. *Agriculture, Ecosystems & Environment*, 235: 38-50.

Singh, V., Singh, R. and Genwa, M. (2016). Photoelectrochemical effect in dye sensitized Solar Cell: Cetyltrimethylammonium Bromide-Bromothymol Blue-Oxalic Acid System. *International Journal of Education and Science Research Review*, III (2) pp.1.

### Books / Chapter in Books

Rajpal, A. A. & Mishra, R. B. (2016). Extreme Learning Machine for Semi-blind Grayscale Image Watermarking in DWT Domain. In Mueller P., Thampi S., Alam Bhuiyan M., Ko R., Doss R., Alcaraz Calero J. (Eds.), *Security in Computing and Communications. Communications in Computer and Information Science*, 625. Singapore, Springer, ISBN: 978-981-10-2737-6 (Print) 978-981-10-2738-3 (Online)

Soni, A. & Gaur, V. (2016). A Methodological Approach to Identify Type of Dependency from User Requirements, Computational Science and its Applications. In *ICCSA 2016, Part IV, Volume 9789 of the series Lecture Notes in Computer Science* pp. 374-391. Switzerland: Springer International Publishing. ISBN: 978-3-319-42088-2

Jain, H. C. & Tiwari, H. N. (2017) *Computer Application in Business*. Delhi: Taxmann Publications. ISBN 978-93-86394-58-3

Mahaveer. (2016). *Avocado: A wonder fruit Medicinal Plants*, New Delhi: Campus Books International. ISBN: 978-81-8030-474-3

Verma, S. & Goel, P. (2016) Reproductive system. In *Biology Programme for S5*, Rwanda Publications. ISBN: 978-0-8389-9227-2

### **Research Projects**

Dr. Avnindra Kr. Singh, Science & Engineering. Research Board (SERB), 2016-17, The study of the atomic processes for multi-charged ions for plasma diagnostics, Rs. 44,07,480/-.

Dr. Varnika Bhatia, UGC Start up Grant, 2016, Metabolic engineering of taxol to enhance its anti-cancerous efficacy, Rs.10 Lakhs.

Dr. Sangeeta Mohan, ICSSR, 2016-2018, Murder on Highway as a Result of Rash Driving, an Unraveled Study of Urban and Rural India, Rs. 7 Lakhs.

Ms. Sonal Singh, DU Innovation Project, 2016, Exploring solar energy and its energy: Fabrication of day to day utility appliances / Devices, Rs.5 Lakhs. Completed in Oct. 2016.

### **Seminars Organised (Selected)**

Dr. V.K. Singhania, an eminent tax expert on 'E-filing of Returns,' Jan. 14, 2017 organised in collaboration with the Indian Accounting Association, Delhi Chapter and IQAC of DDUC.

Mr. Vikas Kundra, a Senior Software Engineer, Josh Labs, Conducted a session during full day workshop on 'Development of Mobile Apps using DRF and AngularJS' on Feb., 4 2017.

Dr. M. K. Radhakrishnan, Vice President of Regions and Chapters, IEEE Electron Devices Society and Director of *NanoRel* Technical Consultants Singapore on 'Silicon Nanodevices: Interface Physics and Analysis Challenges,' April 04, 2016 organised by Science Foundation.

Mr. Ved Prakash Sandlas, Mentor, ITM University, Gurgaon on 'Satellite Communication Trends' on National Science Day, Feb. 28, 2017.

Ms. Roopa Kapoor, member Nutrition and child Rights from National Commission for Protection of Child Rights (NCPCR) on Rehabilitation of Street Children,' 23 March, 2017. Representatives from NGOs– Jamghat, Prayas, Badhte Kadam and Kaveri working for the rehabilitation of street children participated in the panel discussion.

### **Conferences Organised**

The Annual Business Convention, Ecclesia' 17, India's Edge over the World, Feb. 10, 2017 at the Hotel Ashok, New Delhi. The Hon'ble Union Minister for Human Resource Development of India, Sh. Prakash Javadekar was the Chief Guest.

Emerging Issues in Marketing and HR in Current Corporate Scenario Nov. 8, 2016.

Managing Indian Economy: Challenges for Future, 11 Feb., 2017.

### **Seminars / Conferences Presentations (Selected)**

R. M. Bhardwaj. (2017) "The Training of the Monks in Tibet: Atisa Dipamkaras Bodhipathpradipa,' The Nature and Function of the Bodhisattva Vrata in Atisa Dipamkaras Bodhipathpradipa,' and "The Heritage of Nalanda and its Academic Tradition." National Seminar on Significance of Indo-Tibetan Studies: A Cultural Heritage of Nalanda Tradition, Department of Indo-Tibetan Studies, Visva-Bharati, Santiniketan, West Bengal, 27-28 March, 2017.

Hem Chand Jain. (2016) "Examination Reforms" National Conference on Examination Reforms in Higher Education, organised by ABRSM and Department of Commerce, Maharishi Dayanand Saraswati University, Ajmer, 5-6 Dec., 2016.

Rakesh Kumar. (2016) "International Energy Price Spillover and behaviour of Emerging Stock Markets." International Conference organised by YMCA University, Faridabad, 26-27, 2016.

Monika Bansal. (2017) "Impact of Digital Era on Leadership." National Conference on Embracing the Digital Era: Management Perspectives, Guru Gobind Singh Indraprastha University, Delhi, 13<sup>th</sup> Jan. 2017.

Monika Bansal. (2017) "Impact of Digital Era on Leadership." National Seminar on Emerging Issues in Commerce and Management, Hansraj College, University of Delhi, 7 Jan. 2017.

Ankit Rajpal. (2016). IEEE International Conference on Signal Processing, Communications and Computing (ICSPCC) held at Hong Kong, China, 5-8 Aug., 2016.

Ankit Rajpal. (2016). Fourth International Symposium on Security, Computing and Communications, Jaipur, India, 21-24 Sept., 2016.

Sangeeta Mohan. (2016) "Role of social loafing in managing team dynamics during crisis: A study of Electronic Media." Media Technology and Power of Politics. The Indian Conventicle, Department of Mass Communication, Mizoram University Aizwal, 24 Nov., 2016.

Manoj Saxena:

(2016) "Tunnel Field Effect Transistor and its Application as Highly Sensitive and Fast Biosensor." IEEE Distinguished Lecture at ED University of Calcutta Student Branch Chapter, Calcutta, 22 Sept., 2016.

(2016) "Dielectric Pocket MOSFET: A Novel Device Architecture." IEEE Distinguished Lecture at ED Vellore Institute of Technology - Chennai Student Branch Chapter, Chennai, 14 Oct., 2016.

(2016) "Modeling and Simulation of Tunnel Field Effect Transistor as a Biosensor." IEEE Distinguished Lecture at ED Vellore Institute of Technology Student Branch Chapter, Vellore, Tamil Nadu, 15 Oct., 2016.

(2017) "Modeling and Simulation of Tunnel Field Effect Transistor as a Biosensor." IEEE Distinguished Lecture at one day workshop on compact modeling (including device simulation) at IIT Kanpur organised by ED Uttar Pradesh Section - Kanpur Chapter Kanpur, Uttar Pradesh, 03 March, 2017.

(2017) "Dielectric Pocket MOSFET: A Novel Device Architecture at 7th IEEE ED Mini-Colloquium ON Quantum Devices." IEEE Distinguished Lecture, National Institute of Science and Technology, Palur Hills, Berhampur, Odisha, 07 March, 2017.

(2017) "Application of Tunnel Field Effect Transistor as a Biosensor." Invited Talk at 2nd International Conference "2017 Devices for Integrated Circuit (DevIC)", Kalyani Government Engineering College, organised by IEEE KGEC Student Branch Chapter in association with Department of ECE, KGEC, technically co-sponsored by IEEE EDS Kolkata, Chapter, 23-24 March, 2017.

(2017) "Embedded Insulator based Novel Nanoscaled Novel MOSFET Structures." IEEE Distinguished Lecture at Meghnad Saha Institute of Technology, Kolkata organised by ED Meghnad Saha Institute of Technology Student Branch Chapter, Kolkata, India, 25 March 2017.

### **Placement Details**

Students Placed – 116

Companies visiting campus for recruitment – 11

### **Extension and Outreach Activities**

This year, our volunteers helped children from slums and JJ colonies in their studies at (1) a centre run by an NGO Ran Bhoomi Foundation at JJ colony Sector 16 B, Dwarka and (2) centre in Ramesh Nagar run by "Reach Out and Pass it On" (ROPIO). Eight NSS volunteers, trained by office of Chief Election Officer, Delhi in collaboration with Ministry of Social Justice, worked to facilitate disabled voters cast their votes in the by election (Rajouri Garden), on 9 April, 2017. Three cartons of winter clothes were collected and distributed amongst the needy, together with Deen Dayal Lok Foundation. To promote talent and motivate children from Sector 16, Dwarka and Ramesh Nagar, one day festival was organised by the NSS unit on 25 March, 2017. Several sports and talent competitions were held for them in which more than 50 children participated.

### **Library Development**

Our library is fully computerized and has a dedicated library software. It has up-to-date bibliographic database of books and journals. The library has 43,573 volumes of text-books and reference books (including an addition of 1134 this year). The library subscribes to 68 journals & magazines of national and international repute in the relevant subject areas. Besides this the library subscribes to 15 national newspapers. It has 594 bound volumes of

journals and 800 CDs in its collection. To complement class-room teaching with e-learning, the library has computing facility with Internet access through 8 Mbps MTNL broadband connectivity. Through the University provided 100 Mbps fiber-optic dedicated RailTel link, the library has access to more than 44,000 peer reviewed journals, 84 databases and other educational materials subscribed by the University of Delhi. Through the NLIST programme of UGC-INFLIBNET, the faculty and students also enjoy the facility of remote access to more than 6000 e-journals and 97,000 e-books. Besides this, library also downloads relevant subject material and other useful information available in public domain on to its local network for students' ready reference. The Library boasts of fully air-conditioned reading hall facility with a total seating capacity of approx. 300 persons sprawling over two floors with one floor having facility of internet based library services also.

#### **Faculty Strength – 130**

Permanent – 93; Ad-Hoc – 37

#### **Financial Allocation and Utilization**

Sanctioned – Rs. 33, 12, 61,364/-

Utilized – Rs. 25, 59, 38,838/-

#### **Other Significant Information**

The New campus got Vishwakarma Award 2017, by The Construction Industry Development Council established by Planning Commission, Govt. of India as the best infrastructure project of the year.

Robotics Club conducted eight workshops during 2016-17 and on the occasion of National Science Day, 28<sup>th</sup> Feb. 2017, put up a Project Exhibition showcasing the innovative and real time projects of our students like security alarm, flame detectors, soil moisture mobile alert, Bluetooth and IR controlled lights, automatic hand dryer, lamp-lighting using magnetic sensors and so on. A Firebird-V Parade was also shown.

Dr Nityanand Agasti successfully completed Masters of Research (MRes) at School of Chemistry, University of Nottingham, UK, the scholarship for which was awarded by the University of Delhi in 2016.

Dr. Varnika Bhatia got Best oral paper presented award at “Looking beyond 21<sup>st</sup> century for Environmental & Agricultural Revolution” (SPREA 2016) organised by Society for Plant Research & Department of Botany, Delhi University.

The college also established a foreign language centre and started a new Add-on certificate course in French offered by the Department of Germanic and Romance Studies, University of Delhi.

The college organised “Ek Bharat Shreshtha Bharat Program” in March, 2017 to celebrate the cultural vibrancy of the country with a focus on the Sikkim and Assam with three major attractions: Literary event, Tourism, culture and natural resource day of the two states and an exhibition of Handicrafts and Handloom products from these states.

Many students were selected for on-campus internships. A total of 18 students were selected by IDBI Federal Life Insurance Ltd. Apart from this, several companies like Sociowash, Internshala Nation Wide Online Contest, Vebbler, Indian Economists, ASMAT, University Express, Scraplabs fellowship programme, Sportido, Helpiez, Saviours, NGO, IDBI Federal Life Insurance Ltd. Roposso, City Furnish, Breakthrough, Archon, Chalkstreet, Sportspal, Feeding India, Oyo Rooms, Shashwank Travels have invited students for off-campus internships.

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## **DELHI COLLEGE OF ARTS & COMMERCE**

#### **Major Activities and Achievements**

The college celebrated International Yoga Day, National Unity Day, Constitution Day and National Youth Day. Swachh Bharat Abhiyan was also commemorated by carrying out a cleanliness drive in the college. The college inaugurated and installed Sanitary Pad Wending Machine. The college celebrated Women Day in collaboration with an NGO Womenite. An OBC Cell was constituted to safeguard the rights of the teaching and non-teaching staffs and students of college. The NCC unit of the college participated in Republic Day Camp,

Advanced Leadership Camp All India Trekking Expedition Camp, All India Mountaineering, Combined Annual Training Camp, Thal Sainik Cam, Prime Minister's Rally/Chief Minister's Rally Traffic Management drive with Delhi Traffic Police for to and fro movement of VVIP cavalcade, etc. NSS unit of the college has continued its social and education activities with renewed energy and enthusiasm through its projects like Tanzeal, Arts and Carft, Clean and Green, etc. Prakriti: Environment Society of DCAC organised several plantatiton cum awareness drives in and around the college.

### **Honours / Distinctions**

Dr. Deepti Taneja of Economics Department was awarded the Best Lecturer Award by Directorate of Higher Education, GNCT of Delhi for the year 2016-17.

Dr. Shilpa Chowdhary of Department of English was awarded by the Government of Bihar on the occasion of International Women's Day, 2017.

### **Students with Distinctions**

Asana Tokas (Swimming) won 4 Gold Medals at the state level;

Dinesh (Boxing) got II Position in the national games;

Sahil Pawar (Swimming) won 4 Gold medals at the state level;

Navjeet Kaur (Ice Hockey) got III Position in the international games;

Shourya Rathee (Taekwondo) won 1 Gold medal in the Inter-University games.

### **Publications (Selected)**

Bagoria, M. (2016). Canadian Indigenous sovereignty, self government and identity: Recent Dichotomy. *Intellectual Resonance: DCAC Journal of Interdisciplinary Studies*. 3(4), 1-8.

Bhela, A. (2016). Shakespeare and Popular Culture: The Indian Context. *Journal of Rajasthan Association for Studies in English*, 12(2016):1-7. ISSN09753419

Bupinder. (2016) *Fundamentals of Financial Accounting*. Delhi: Galgotia Publishing Company. ISBN 978-93-86184-09-2

Chopra, R. (2016). *Investing in Stock Market*. New Delhi: Supriya Books. 978-90-84471-10-1

Gupta-Chaturvedi, V. ( 2016). The changing image of the Nation in popular hindi cinema: From nehruvian socialism to the Present. *Intellectual Resonance, DCAC Journal of Multidisciplinary Studies*, 3(4). ISSN: 2321-2594

Saksena, S. and Deb, M. (2016). Transition pattern of Indian states across different categories of growth and development: Post economic liberalisation experience. *Business and Economic Horizons*, 12(3), 121-140. ISSN 1804-5006

Taneja, D. (2016). Growth and Drift Pattern of Foreign Direct Investment in India. *Indian Economic Journal, Special Issue*. ISSN: 0019-466)

Yadav, A. K. (2016) Translated (with Rittvika Singh) Dhoomil's Poems from *Sansad se Sadak Tak. Muse India: The Literary E-Journal* Issue 69 (ISSN No.: 0975-1815).

Yadav, Neelam (2016). Amalgamation of tradition and modernity in William Dalrymple's Nine Lives. *Intellectual Resonance: DCAC Journal of Interdisciplinary Studies*. 3(4) 156-168. ISSN: 2321-2594.

### **Journal Published by the College**

*Intellectual Resonance*, a UGC approved Journal of Multidisciplinary Studies.

### **Teachers serving as Editor(s)/Member(s) of Editorial Board – 7**

### **Seminars / Workshops Organised (Selected)**

Dept. of Commerce organised a National Workshop on Changing Paradigm of Pedagogy, 29 Dec., 2016.

Mr. Subhashish Datta, Sr. Creative Director (Art) from DDB Mudra, delivered a talk on Creativity in Advertising, 29 Oct. 2016.

Dr. Sumangala Damodaran, Associate Professor, School of Development Studies, AUD gave a talk on Music and Social Change: The Forgotten Tradition of IPTA, March, 2017.

William Dalrymple, a renowned Travel writer and Historian, delivered a talk on 'Kohinoor 2 March 2017.

Dr. Sami Ahmad Khan, a novelist, gave a talk on 'Creative Writing 24 March, 2017

### **Conferences / Seminars Presentation**

Animesh Mohapatra. (2017) Looking Beyond the West: A Study of Natabara Samantaray's Critical Practice. International Seminar on Beyond Postcolonial Hermeneutics: Comparative Perspectives, School of Translation Studies and Training, IGNOU in Collaboration with Sahitya Akademi, 3-5 March, 2017.

Anita Bhela. (2016) Pava Kathakali: The Puppet Folk Theatre of India Akin to the Classical Kathakali. International Comparative Literature Association (ICLA) International Conference on The Many Languages of Comparative Literature, organised by the University of Vienna in Vienna, 21-27 July, 2016.

Deepti Taneja. (2016) Growth and Drift Pattern of FDI in India. 99th Annual Conference of Indian Economic Association, 27-29 Dec., 2016

Devika Narula. (2016) Resistance and Resilience in the Novels of South Asian Women Writers. International Comparative Literature Association (ICLA) International Conference on The Many Languages of Comparative Literature, organised by the University of Vienna in Vienna, 21-27 July, 2016.

Shalini Saxena. (2017) Empowering Lives: Envisioning Sustainable Inclusive Socio-economic Development. 4th International UN PRME Conference on "Sustainability and Innovation: Key Drivers of Responsible Management", organised by IILM Institute for Business and Management, New Delhi, 9-11 Feb. 2017. The paper won the Best Research Paper award of the Conference.

Mukesh Bagoria. (2016) "India Canada Relations in the Recent Times." National seminar on Changing dynamics of India's Foreign Policy Under Modi's Regime, Department of Political Science, Shaheed Bhagat Singh College, University of Delhi, 25 Oct., 2016.

Neeru Kapoor. (2016) "Consumers' Perception About Mobile Marketing." International Academic Conference held at the West East Institute, Barcelona, Spain, 7-9 March, 2016.

Shalini Saxena, Neeru Ailawadi, & Smita Bannerjee. (2017) "Kshataa: Empowering Lives, Envisioning Sustainable Inclusive Socio-Economic Development." Fourth International Conference on Sustainability & Innovation; Key Drivers of Responsible Management at IILM, New Delhi, 9-11 Feb., 2017. Best paper award (Cash Prize of 1500 USD).

Smita Bannerjee. (2016) "Multiple Texts, Multiple Selves: Performing the Bhadramahila through Female Star Biography." 24 European Conference on South Asian Studies, International Conference at University of Warsaw, Poland, 27-30 July, 2016.

Vinita Gupta Chaturvedi. (2016) "The Language of Silence in Literature and Cinema." International Comparative Literature Association (ICLA) International Conference on The Many Languages of Comparative Literature, organised by the University of Vienna in Vienna 21-27 July, 2016.

### **Placement Details**

Students Placed – 140 (84% approx.)

Companies visiting campus for recruitment – 38

### **Extension and Outreach Activities**

The NSS Unit of the college with its various socio-educational activities has been reaching the marginalized sections of the society. The Unit has adopted a slum area near the ARD Complex in R. K. Puram area of Delhi to execute its various activities such as educational awareness programmes, cleanliness drives, health awareness programmes, anti-drug or substance use programme, etc. It involves the local inhabitants of the area in its activities. The ENACTUS unit of the college runs various projects to instill entrepreneurial skills in the economically weaker section of the society, especially women.

### **Library Development**

The library with a budget of Rs. 7,35,0000 has fully air-conditioned reading rooms for teachers and students; a new magazine and newspaper section for the students; printing and photocopying facilities for both teachers and students; E-resources section for the students as well. Internet facilities have been upgraded – Subscription of N-LIST and DELNET facilities; Electronic Books and Journals through DULS; WEB-OPAC facilities for the students and teachers with the campus.

### **Faculty Strength – 93**

**Financial Allocation and Utilization** Grant sanctioned – Rs. 1755.65 + 747.21 Lakhs (Opening Balance) Utilized – Rs. 2073.42 Lakhs

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## **DELHI INSTITUTE OF PHARMACEUTICAL SCIENCES AND RESEARCH**

### **Major Activities and Achievements**

The college was sanctioned a total grant of Rs 83.16 Lakhs for research projects under various schemes like “Fast track scheme for young Scientists”, “Utilization of Scientific Expertise of retired Scientists scheme” to Dr. S.K. Gupta, Dr. Meenakshi K. Chauhan and Dr. Rajani Mathur. Various events such as Pharmacist Day, Gurupurab, Sports Day, Freshers Day, Teacher's Day and Independence Day were organised by the college in 2016.

### **Students with Distinction**

Lucky Maurya (D.Pharm II Year)

Manjusha (B.pharm III year)

Sheena Sharma (B.Pharm IV Year)

Tanvi Rajput (M.Pharm II Year)

### **Publications (Selected)**

Amin S., Parle, A. (2016). Delicate, fragrant, lady of the night- A medicinal gift. *Journal of Medicinal Plants Studies*, 4(6), 13-17.

Arora, P., Ansari, S.H., Anjum, V., Mathur, R., & Ahmad, S. (2017). Investigation of antiasthmatic potential of Kanakasava in ovalbumin-induced bronchial asthma and airway inflammation in rats. *J Ethnopharmacol*, 197, 242-249.

Arya, A., Majumdar, D.K., Pathak, D.P., Sharma, A.K., & Ray, A.R. (2016). Design and evaluation of acrylate polymeric carriers for fabrication of pH-sensitive microparticles. *Drug Dev Ind Pharm*, 43(2), 305-318.

Chauhan, M.K., Bhatt, N. (2016). Amphotericin-B loaded Chitosan nanaoparticles intended for oral delivery: Biodistribution, Pharmacokinetics and Scintigraphy study in rabbit model. *International Journal of Engineering Technology Science and Research*, 3(11), 1-6

Kaur, I., Wakode, S.R., Singh, H.P., Manchanda, S. (2016). Development and validation of a stability indicating Reverse Phase HPLC-PDA method for determination of Canagliflozin in bulk and pharmaceutical dosage form. *Pharmaceutical Methods*, 7, 54- 62.

Keservani, R.K., Sharma, A.K., Jarouliya, U., & Singh, A.K. (2016). Ebola virus disease and its complications. *Universal Journal of Pharmaceutical Research*, 1(1), 1-5.

Kumar, B., Sahoo, P.K. (2017). A study on an autoimmune disease psoriasis. *International Journal of Pharmaceutical Research* 9(3),1-5.

Kumar, S., Bodla, R.B., Bansal, H. (2016). Antioxidant Activity of Leaf Extract of *Aeglemarmelos correa* ex Roxb. *Pharmacognosy Journal*, 8(5), 447-450.



Saklani, R., Gupta, S.K., Mohanty, I.R., Kumar, B., Srivastava, S., & Mathur, R. (2016). Cardioprotective effects of rutin via alteration in TNF- $\alpha$ , CRP, and BNP levels coupled with antioxidant effect in STZ-induced diabetic rats. *Mol Cell Biochem*, 420(1-2), 65-72.

Singh, S., & Singh, M.V. (2016). Comparative in-vitro anti-inflammatory activity of aerial parts of *Hamelia patens*. *International Journal of Innovation Sciences and Research*, 5(9), 855- 861.

### **Research Projects**

DST-UKEIRI PROJECT, 2015-2017, Development of herbal drugs for the prevention and treatment of Diabetic retinopathy and to elucidate their mechanism of action in experimental rat models, Rs 18.24 Lakhs.

DST–Fast track Scheme for young Scientists, 2015-2018, Design, synthesis and biological evaluation of novel phosphodiesterase-4 (PDE4) inhibitors, Rs. 25 Lakhs.

DST–Fast track Scheme for young Scientists Science and Engineering Research Board (SERB), 2015-2018, Rivastigmine loaded nanostructured lipid carrier (NLC) integrated scaffolds transdermal patch system for the treatment of Alzheimer's disease and Parkinson's disease dementia, Rs. 20.54 Lakhs.

DBT, 2015-2018, To Study the Intestinal Fructose Transport (via GLUT2& GLUT 5 transporters) in Rodent Model of Fructose Induced Childhood- overweight/obesity and Investigate the Preventive Potential of Medicinal Plants therein, Rs. 19.38 Lakhs

### **Conferences Organised**

'Fourth International Conference of Pharmacoeconomics & Outcomes Research,' Oct. 31, 2015, funded by DST, DBT and ICMR.

An International Conference on 'Recent Advances in Heart Health and Research' in association with International Society for Adaptive Medicine, 22 April, 2016 organised by DPSRU.

### **Seminars / Conference Presentations**

Aggarwal H, Kaur H, Saba N, Tiwari M, Mathur R. (2016) "Rutin alleviates insulin resistance by favorably resetting hepatic insulin signaling pathway (PI3K/mTOR) that was skewed by fructose in hepG2 cells." 49th Annual Conference of Indian Pharmacological Society. Chandigarh, India, 20-23 Oct., 2016.

Agnihotri S, SK Gupta. (2017) "To evaluate the potential of *Curcuma longa* and *Terminalia arjuna* bark effective against diabetic cardiomyopathy in Streptozotocin induced diabetic rat model." 5th International Conference of Pharmacoeconomics and Outcomes Research (India Chapter). DPSRU, New Delhi, 3-4 March, 2017.

Chauhan MK and Yadav N. (2017) "Instantaneous self-assembly of a conformationally restricted ultrashort peptide into highly stable hydrogel for drug delivery and tissue engineering." 5th Annual International Conference On "Bioinformatics and Proteomics Driven Biomarker Developments", sponsor by Indian Council of Medical Research (ICMR). Chitkara University Punjab, 2017.

Sharma N, Pathak DP, Sharma R.K. (2017) "Novel Topical Radiation Decontamination Formulations." National Conference in Chemistry (NCC 2016): Environment and Harmonious Development, Department of Chemistry, Shyam Lal College, University of Delhi, April 2017.

### **National / International (MoUs)**

UKEIRI PROJECT: ONE

Research Collaboration between Aravind Medical Research Foundation, Madurai and DIPSAR (University of Delhi) for ARPE-19 cell line.

### **Placement Details**

Students Placed – 47 (100%)

Companies/industries visiting campus – 16

### **Library Development**

We have one of the richest Pharmacy Library collections in India with over 17,000 + books covering all the branches of Pharmaceutical Sciences like Pharmaceutics, Pharmaceutical Chemistry, Pharmacology, Pharmaceutical Biotechnology, Pharmacognosy and Pharmaceutical Technology along with a good collection of books for basic sciences like Medicine, Pathology, Biochemistry and Microbiology. During the year 2015-16 the library has added 334 books. It has also subscribed to 8 international and 17 national journals.

### **Faculty Strength**

Permanent – 11; Contractual – 05

### **Financial Allocation and Utilization**

Grant Sanction – Rs. 111800/-

Utilized – Rs. 57326.2/-

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## **DESHBANDHU COLLEGE**

### **Major Activities and Achievements**

In games and sports activities, the college teams retained State/University level titles in archery. Students represented India in U.S. Open International Taekwondo championship, Las Vegas, Nevada Thaitae Open International Taekwondo championship and won Silver Medal in Bangkok. They also participated in 1<sup>ST</sup> Malasia Open International Taekwondo championship, Kuala Lumpur. Faculty members won prestigious fellowships, honours and recognitions like Dr. Seema Lal, Young Research Forum Award at the 9<sup>th</sup> World Drug Delivery Summit New Orleans, USA; Post-Doctoral Research Fellowship for Women Candidates, UGC, Dr. Sunita Sawaria filed a Patent, (with Srivastava R. K. Nandan B. Kankariya N Pal J) Indian Patent 847-DEL-2013. Various departments organised conferences/seminars/talks of significant interest inviting distinguished personalities from various fields across the country – Prof R K Sharma, Director SSPL, DRDO GoI, Prof. Akhilesh Tyagi, JC Bose National Fellow, University of Delhi South Campus, New Delhi and President, National Academy of Sciences, India, Mimi Radhalrishnan, a renowned artist from Shantiniketan etc.

### **Honours / Distinctions**

Dr. Meenakshi Prajneshu, received Certificate of Appreciation for Innovation Project , ‘‘Food for future: Studies on nutritional value of kuttu (*Fagopyrum esculentum*)- a pseudocereal and efficacy of weed based botanicals against its Root-rot disease at the Research display held at Convocation ceremony on 19 Nov., 2016.

Dr. Seema was awarded the Young Research Forum Award, attributed in recognition of research paper quality novelty and significance in the 9<sup>th</sup> World Drug Delivery Summit held at Crown Plaza, New Orleans, Louisiana state, USA, 30 June-2 July 2016; and a DBT travel grant to present a research paper in 9<sup>th</sup> World Drug Delivery Summit held at Crown Plaza, New Orleans, Louisiana state, USA 30 June -2 July 2016.

### **Students with Distinction**

Akshay Kumar represented India in 26<sup>th</sup> Meeting of the Shooting Hopes in Czech Republic. He also won two bronze medals in National Shooting Championship.

Students represented India in U.S. Open International Taekwondo championship, Las Vegas, Nevada Thaitae Open International Taekwondo championship and won Silver Medal in Bangkok.

Dimple Sehrawat, B.A. Pol.Sci. (H), participated in CFFAI 1<sup>ST</sup> Asian Circle Fencing Championship 2016, Malaysia.

Rajni, B.A. Prog., won Gold medal at National Power Lifting Championship held at Jammu.

Aatish, B.A. Prog., secured I position in U-23 Youth National Fencing Championship. He also got II and III positions in 6<sup>th</sup> Fencing Federation Cup and All India Inter University Fencing Championship, respectively.

## Publications (Selected)

Singh, B. (2016). 'JALWA' - a Short Story; New Delhi: HANS, ISSN NO.2454-4450.

Singh, G., Kumar, A., Leelavati, Sharma, K.K., Kumar, A., Tyagi, S. (2015). Structure and synthesis of some imidazole derivatives containing 2-(4-chlorophenyl)-4, 5-diphenyl imidazole moiety as anti-inflammatory and antimicrobial agents. *Heterocyclic Letters* 5(2), 205-212.

Dutt, I. (2017). *Organic Chemistry Volume-2*; New Delhi: Manakin Press; ISBN: 9789384370619

Singh, K. (2015). *Women Empowerment through Skill Development*. New Delhi: Discovery Publishing House Pvt. Ltd. ISBN 978-93-5056-7562

Kayesth, S. and Gupta, K. K. (2016). An assessment of antifeedant potential and cidal activity of plant extracts on fifth instar nymphs of red cotton bug, *Dysdercus koenigii* Fabricius (Heteroptera: Pyrrhocoridae). *Journal of Entomology and Zoology Studies*. 4(4): 216-222.

Prajneshu, M., Pathak, N. B., Gaur, M., Suri, S. (2016). Seed germination behaviour and preliminary screening of bioactive components in buckwheat (*Fagopyrum spp.*). *DU Journal of Undergraduate Research and Innovation*, 2(1), 121-130. ISSN- 2395-2334.

Pathak, N. B., and Prajneshu, M. (2016). Kuttu (Buckwheat): A promising staple food grain in our diet. *Journal of Innovation for Inclusive Development*, 1(1), 43-45. ISSN- 2456-4478

Singh, P., Gambhir, K., Singh, P., K. D. J., Mehrotra, R. (2015). Thermal stability and hydration behavior of ritonavir sulfate: A vibrational spectroscopic approach. *Journal of Pharmaceutical Analysis*, 5, 348-355.

Sanjay Kumar (2016). Study towards the evaluation of leaching behavior Of Zineb Fungicide. *International Journal of Environmental Sciences* 6(5). ISSN 0976-4402

Seth, R. Zarin, M., Khan, Z. and Seth, R. K. (2016). Towards phytosanitary irradiation of *Paracoccusmarginatus* (Hemiptera: Pseudococcidae): Ascertaining the radiosensitivities of all life stages. *Florida Entomologist* 99(sp2), 88-101

## Research Projects

Dr. Pratibha Kumari, DST-SERB, 2016-2019, Start-up Research, "Synthesis of novel calixarenes functionalized magnetite (Fe<sub>3</sub>O<sub>4</sub>) nanomaterials and their potential applications in waste water treatment: "Little solution to big problems" Rs.18.8 Lakhs.

Dr. Umesh Kumar, UGC, (2017-2019), Ni(II)/Co(II) complexes with O-/N-donor ligands for their supramolecular architectures and catalytic activities, Rs. 6 Lakhs.

Twelve DU Innovation Research Projects (DBC 301-DBC 312) were completed (Oct. 2015-Nov. 2016). Rs. 60 Lakhs.

DBC 301: Food for Future: Studies on nutritional value of kuttu (*Fagopyrum esculentum*)-a pseudocereal and efficacy of weed based botanicals against its Root-rot disease, Rs. 4 Lakhs.

DBC 302: Recycling of Organic Matter Coming from Religious Activities to Save Water Bodies of Delhi, Rs. 3.1 Lakhs

DBC 303: Silver Chalcogenide Nanoparticles for their Catalytic and Biomedical Applications, Rs. 5 Lakhs.

DBC 304: Microwave Assisted Synthesis of Potent Metal Complexes of Schiff Bases Derived from Carbazole Moiety: A Green Approach, Rs. 6 Lakhs.

DBC 305: The Impact of Lifestyle Change during Adolescence on Lifestyle Chronic Diseases, Rs. 4 Lakhs

DBC 306: Remediation of Organic Contaminants from Soil using Magnetic Iron Oxide Based Nanomaterials, Rs. 7 Lakhs.

DBC 307: Investigation on the improvement of the electricity generation capabilities of triboelectric generator: Analysing the role of nanomaterials. Rs. 5.5 Lakhs.

DBC 308: Green approach to synthesize noble metal nanoparticles and their application in Surface Enhanced Raman Spectroscopy, Rs. 5 Lakhs.

DBC 309: Fabrication Improvement and Technological Promotion of Polymer Gel Electrolyte Based All Solid Dye Sensitized Solar Cell, Rs. 5 Lakhs.

DBC 310: Spintronic Devices for Data Storage Applications, Rs. 4.5 Lakhs.

DBC 311: Unbeatable air pollution in Delhi: Trees for rescue- A comparative study of different plant species to combat rising pollution in Delhi, Rs. 5.5 Lakhs.

DBC 312: Optimizing Condition for the Synthesis of Nanofiber from Block Copolymers by Self-Assembly Approach, Rs. 4 Lakhs.

Dr. Ranjana Seth, Completed an International IAEA Research Project, Contract No. 15852/RB, (2009-2016). "Development of generic irradiation doses for phytosanitary treatment of mealy bug spp. infesting agricultural commodities", under IAEA CRP D62008, "Development of generic irradiation doses for quarantine treatment", Rs. 32 Lakhs

#### **Patent Filed / Granted – 1**

Dr. Sunita Sawaria, Srivastava R. K. Nandan B. Kankariya N.; Sanwaria S. Pal J. were granted a patent on Solvent free process of making a three dimensional porous scaffold. Indian Patent 847-DEL-2013

#### **Seminar Organised**

Prof. Arun Jagannath, Department of Botany, University of Delhi on 'Plant Biology: Science without Boundaries,' 5 Oct., 2016.

Dr. J. S. Sharma, General Manager (Chemistry) and Head Environment Division, ONGC, New Delhi on 'Energy security & climate change issue of hydrocarbon sector,' 9 March, 2017.

Prof. Atul Kumar Johri, Director, UGC- HRDC JNU New Delhi on 'Use of reverse vaccinology approach for the vaccine development against group Streptococcus which cause high mortality rate in Neonates' 9 March, 2017

#### **Seminar/Conference Presentation**

Preeti Karwal. (2016) "Recent approaches in using transgenerational epigenetic effects as molecular indicators of exposure to environmental pollutants", 2nd National Symposium on Environment: Greener future and Awareness held at Deshbandhu College, 19 March, 2016.

Eklavya Chauhan. (2016) "Some Frequently Asked Questions in Classical Genetics." CPDHE (UGC-HRDC), Refresher Course in Contemporary Studies, University of Delhi, 10 June, 2016.

Dharmendra K. Mallick. (2016) "Air Quality Index: an efficient tool to keep a check on rising air pollution in Delhi", International Conference on "Green Chemistry in Environment Sustainability & Chemical Education" (ICGC-2016), Daulat Ram College, University of Delhi, 17-18 Nov, 2016.

Aparna Shekhar. (2016) "Novel Nanoherbal Formulation Strategies: A New Paradigm for Improving Targeted Drug Delivery System." BIOTIKOS 2016 National Symposium on Nano biotechnology, TERI University, 31 March-1 April 2016.

Zarin, M. Seth, Ranjana and Seth, R.K. (2016) "Bio-efficacy of phytosanitary irradiation against the various ontogenic stages of the Solenopsis mealybug, *Phenacoccusolenopsis* (Homoptera: Pseudococcidae)." XXV International Congress of Entomology (ICE 2016), Orlando, Florida, USA, 25-30 Sept., 2016.

Irengbam Rocky Mangangcha, Ajay Kumar Arora, Nupur Bhargawa, Nikhil Sharma, Somya Mishra, Arvind Sharma, Manik Gupta, AnkitaMadheshiya, Neelam, Manvendra Kumar, Romariya Adhikary, Indrakant Kumar Singh. (2016) "Association between smoking, drinking of alcohol and lack of physical exercises and mental stress and hypertension in the urban population of North India." Green Chemistry in Environmental Sustainability & Chemical Education" (ICGC-2016), Daulat Ram College, University of Delhi, 17-18 Nov. 2016.

#### **Other Inter-institutional Collaborations**

CUBE (Collaborative Understanding of Biological Education)-TIFR (Tata Institute of Fundamental research) Mumbai with Deshbandhu College (Department of Zoology) Unit of Delhi University.

#### **Placement Details**

Students placed – 160 (80%)  
Companies visited – 15

### **Extension and Outreach Activities**

The NSS Unit organised a blood donation camp in association with the Red Cross Society, 10 Feb., 2017. Project Treya (Employment, Empowerment and Enrichment of Human Trafficking Survivors), Project Amartya (all-round development and upbringing of visually impaired women and acid attack survivors & Visit to Rohingya refugees camp(Sarita Vihar) with an aim to provide them basic sanitation facilities and education. Enactus Deshbandhu organised two workshops: “Bachpan Bachao Andolon” to make students aware about noble laureate Kailash Sathyarti’s brainchild “100 Million for 100 Million” Campaign, to improve the life of 100 million unprivileged children by 100 million privileged students and an interactive session on Entrepreneurship with the director of “SHEROES” Ms. Avani Parekh.

### **Library Development**

Digital Library of the College was inaugurated on Feb. 1, 2017. A total of 2476 books were added this year. E-Facility for visually impaired students has been created and also the library software with Webopac facility is upgraded. CCTV Monitoring with 32 HD cameras inside the library at various locations to cover all the corners was installed. Also, two 40 inches LED’s screen at circulation counter for seeing the library transaction through *Libsys* and two Touch Screen Information Kiosk for accessing the library database were installed. Air conditioned reading room facility with capacity of 100 students and reading room facility for the teachers was also established. Renovation of various sections of the library was done and the teachers’ information resource center in the library was restored. The library users are now able to access E-Shodhsindhu, NLIST, Open Access E-resources and other useful e-resources through college website.

### **Faculty Strength**

Permanent – 124; Ad hoc – 79

### **Financial Allocation and Utilization**

Grants sanctioned – Rs 50,63,09,000/-  
Utilized – Rs 43,81,58,846/-

### **Other Significant Information**

The college has been accredited with a B++ grading by NAAC.

Dr Ranjana Seth, invited to present a paper, “Establishing a generic radiation dose as post-harvest phyto-sanitary treatment against bruchid species (Coleoptera: Chrysomelidae) infesting legumes”, in “Third FAO–IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques”, IAEA Headquarters, Vienna, Austria, 22–26 May, 2016.

Dr. Madhuri Goyal: Associated with Educational Multimedia Research Centre (EMRC), Roorkee, under the flagship of (CEC) New Delhi, for the development of E-content under NME-ICT project for undergraduates on the basis of UGC model curriculum in Chemistry and Industrial chemistry. Nominated by CBSE as an expert to revise, edit, and to enhance the quality of the content of Subject Chemistry for UDAAN classes conducted by the CBSE.

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## **DURGABAI DESHMUKH COLLEGE OF SPECIAL EDUCATION (VISUAL IMPAIRMENT)**

### **Major Activities and Achievements**

The college was established in 2006 to conduct a Bachelors Degree programme in special education for the visually impaired under the Faculty of Education, University of Delhi and recognized by the Rehabilitation Council of India. The college is established & run by the Blind Relief Association, Delhi, a premier non-government organization. The college gets partial financial support from the National Institute for Empowerment of the Persons

with Visual Impairment (Divyagngjan) an apex body under the ministry of social Justice & Empowerment. The college has an intake capacity of 27 students per academic session. The college organised workshop on Autism Spectrum Disorder on 3-6 Oct., 2016. All teacher trainees of I year batch attended the workshop.

### **Students with Distinctions**

The following visually impaired students of college participated in IBSA-BRA game from 13-16 Dec., 2016.

Raju Kumar: Javeline, Shot put  
Afzal: 200M, Javeline, Discuss  
Arvind Kumar: Javeline, Discuss, Shot put  
Dharmendra: 100m, 200m & 1500M race  
Naresh Kumar: Chess  
Sunita Mehra: 100m, 200m  
Ms Juile: Long jump, Shot put  
Km. Priyanka: Long jump, Shot put

### **Publications**

Dubey, S.K. (2017). *Special Education and Curriculum*.

### **Conferences Organised / Presentations**

Pubali Agrawal:

(2017) “Need and Importance of ICT in the Education of Teacher Trainees with Visual Impairment”, National Conference on Teacher Education: Current Scenarios and Future Possibilities, Department of Education, University of Delhi, 11 March 2017.

2017) “Verbalism among Children with Visual Impairment” National Conference on Language, Literature and Society: A Contemporary Educational Discourse, Department of Education, University of Delhi, 03 March, 2017

(2016) “Addressing Barriers in the Environment for Persons with Visual Impairment” Amity University, 22 Oct., 2016 .

(2016), “Visual Impairment- Causes and Characteristics” CRE organised by NIMH, 19 May, 2016.

(2016), “How to Teach Independent Living Skills to Adolescents who lost their vision in war or calamities” organised by Hope Foundation, Kashmir and National Association For The Blind, Delhi on 26 Oct. 2016.

Pubali Agrawal, jointly contributed with Gagandeep Bajaj as a writer and reviewer of a module (Unit-s4) deals with developing understanding of the adolescent years with focus on children with visual difficulties on the RMSA project , “Modules on Promoting Inclusive Education at the Secondary Level.”

### **Inter-Institutional Collaboration**

College has close collaboration in terms of delivering Guest lectures, Paper setting, Examination, with Jamia Millia Islamia, IGNOU, DIET, NCERT, RCI, and NIVH etc.

### **Placement Details**

Companies/industries visiting campus for recruitment: *Various NGOs & Public/private schools* from Delhi & other states requested for Special teachers from the college.

### **Library Development**

The college library has 4219 books (print + braille), 2101 titles, 22 Print journals on education (including special education), 200+ Talking books in Mp3 and Daisy format, 6000+ E-Journals and 93000+ E-books;  
E Resources (Online) Through N-LIST Programme under the UGC- INFONET Digital Library Consortium

### **Faculty Strength**

Permanent – 4

### **Financial Allocation and Utilization**

Financial budget: Rs. 73 Lakhs, out of which grant sanctioned from National Institute for Empowerment of the Persons with Visual Impairment (Divyagngjan) Dehradun was Rs. 34,43,338/-

### **Other Significant Information**

The sighted teacher trainees (first year and second year) of college volunteered for the Indian Blind Sports Meet at J. L. Nehru stadium held during 13-16, Dec., New Delhi.

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## **DYAL SINGH COLLEGE**

### **Major Activities and Achievements**

The college got NAAC accreditation with 'A' grade (CGPA 3.01). Ministry of HRD awarded All India 8<sup>th</sup> Rank to the college in NIRF. The college installed Grid connected 100 KW solar power panel and generated Rs 9,74,840; reduced 97.48 tonnes of CO<sub>2</sub> emission; total power generated was 121703.42 kwh. Commissioned Effluent Treatment Plant (ETP) with 10 KLD capacity. Clean Campus Award and Life Time Achievement Award was given to the Principal, Dr. I.S. Bakshi, by NICER. IQAC organised a lecture on 'India as an Emerging Global Power' by RFI Smith, Melbourne University, Australia, on 8 March, 2017. The college staff and students actively participated in the International Yoga Day. The CII YI YUVA DSC members organised/participated in programmes like Talk on 'Effective Communication'; 'Young Makers' conference; 'Horn Not Ok Please'. "Certificate of commitment" was awarded by the Central Vigilance Commission to uphold highest standards of integrity and good governance and to follow ethical practices in conducting its activities.

### **Honours / Distinctions**

The college won 10 prizes in the 59<sup>th</sup> Annual Flower Show for the college garden, rose garden, herbal garden, clean/green campus and cut flowers.

Boxing Team won 9 medals, out of which 5 Gold and 1 Bronze Medals were won by boys and the girls won 2 Gold and 1 Bronze medal.. In all India Inter University tournament, Miss Anjali won Silver and Mr. Chirag won Bronze.

The college shooting team won 2 Gold, 3 Silver, 3 Bronze in various events. In 60<sup>th</sup> National Shooting Championship Rifle held at Pune; Mr. Anil Kumar (Gold), Mr. Shivam Singh (Silver), Mr. Abhinav Chaudhary (Bronze). In XXXII Delhi State Shooting Championship Mr. Anmol Arora (Gold), Mr. Vivekanand (Silver & Bronze), Mr. Aatesh Kumar (Silver). In Haryana Shooting Championship, Mr. Himanshu Jindal won Bronze medal.

Students with special abilities: Mr. Vaibhav Rajoria won Silver in 100 metres free style and 50 metres free style swimming championship. He also won 3 Gold medals in 9th Delhi State and power lifting Championship, Long Jump and 400 metres. Race. Mr. Himanshu Otwal won Gold in High Jump, Silver in Shot Put, Silver in Javelin, Silver in 100 metres and Gold in EOC Meet Inter college. Also won Silver in 50 metres Back Stroke in Delhi state paralympic swimming tournament, Gold in 50 metres. Free style.

Inter College Athletics: Kumari Shiva won Bronze medal in Hephthlon Inter College DU. Chander Shekhar won Sliver medal in Decathlon Inter College tournament DU. Wrestling: Mr. Pankaj Verma won 3rd position in 65Kg. weight category in Inter College Free Style Wrestling. Archery: Inter College Archery Tournament; Mr. Ayush Nandan won Silver medal. Mr. Ayush selected for Inter-University Archery. Tournament: The football team played reached reliance cup semifinals.

### **Students with Distinction**

University Science Meritorious Award was given to Mr. Mohit Yadav, B.Sc. (H) Zoology I & II year.

### **Publications (Selected)**

Arora, N., Banati, H. (2016). multiobjective group search optimization approach for community detection in networks. *International journal of Applied Evolutionary Computation*, 7(3), 50-70.

- Banati, H., Arora, N. (2016). Detecting communities in complex networks-A discrete hybrid evolutionary approach. *International Journal of Computers and Applications*, 38(1), . 29-40.
- Banati, H., Chaudhary, R. (2016). Multi-modal bat algorithm with improved search (MMBAIS). *Journal of Computational Science*, doi: 10.1016/j.jocs.2016.12.003
- Fozail, A., Singh, D., Arya, P.V. and Singh, H.S. (2016). *In-silico* Phylogenetic tools employed on some members of five major families of Monogenea viz., Monocotylidae, Ancylo-discoididae, Ancyrocephalidae, Cichlido-gyridae and Polystomatidae for investigating their relatedness and global diversity distribution. *Journal Experimental Zoology, India*, 19(1), 505-513.
- Krishna, T.S., Gowrisankar, M., Nain, A. K., and Munibhadrayya, B. (2016). Temperature dependent study of thermophysical and optical properties of binary mixtures of imidazolium based ionic liquids. *Indian J. Chem. A*, 55, 664-675.
- Nain, A.K. (2016). Physicochemical study of solute-solute and solute-solvent interactions of glycine, l-alanine, l-valine and l-isoleucine in aqueous-D-mannose solutions at temperatures from 293.15 to 318.15 K. *J. Chem. Thermodyn.*, 98, 338-352.
- Nain, A.K., Droliya, P., Manchanda, R. K., Khurana, A. and Nayak, D. (2016). Physicochemical studies of homoeopathic formulations (extremely diluted solutions) of acidum salicylicum in ethanol by using volumetric, acoustic, viscometric and refractive index measurements at 298.15, 308.15 and 318.15 K. *J. Mol. Liq.*, 215, 680-690.
- Nain, A.K., Pal, R., and Droliya, P. (2016). Study of solute-solute and solute-solvent interactions of homologous series of some  $\alpha$ -amino acids in aqueous-streptomycin sulphate solutions at different temperatures by using physicochemical methods. *J. Chem. Thermodyn.*, 95, 77-98.
- Pandey, P.K. (2016). An efficient method for the numerical solution of Helmholtz type general two point boundary value problems in ODEs. *International Journal of Mathematical Modelling & Computations*, 6(4), 291-99.
- Pandey, P.K. (2016). Solving third-order Boundary Value Problems with Quartic Splines. *Springerplus* 5(1), 1-10.
- Singh, A. P. (2016). Duality of fully measurable grand Lebesgue space and Hardy type operators on grand Lebesgue spaces for non-increasing functions, *Transaction of A. Razmadze Math. Inst.*, 170, 34-46.

### Research Projects

- Completed 6 DU Innovation Projects (2015-2016). Total grant received was Rs 31 Lakhs.
- UGC; 2015-2018; Synthesis and Characterization of Macrocyclic Ligands and Their Metal Complexes, Rs. 7 Lakhs.
- UGC; 2015-2018; Synthesis and study of peptide based self-assembled nanostructures for biomedical applications; Rs.13.7 Lakhs.
- UGC; 2015-2018; Punjabi Diaspora Literature: Issues of Cultural Identity; Rs. 9.97 Lakhs.
- CCRH, New Delhi; 2016-2019; Physicochemical Studies of Homoeopathic Drug Formulations by using Volumetric, Acoustic, Viscometric, Optical and Conductometric Measurements; Rs. 44.68 Lakhs.

### Seminars organised

A national seminar on Disability and Higher Education funded by the Department for Empowerment of Persons with Disability, Ministry of Social Justice and Empowerment, Govt. of India was organised during 22-23 March, 2016

### Seminar / Conferences Presentations

- Nain, A.K. (2016) "Physicochemical studies of homoeopathic formulations of sulphur in ethanol." International Convention on World Homoeopathy Day jointly organised by CCRH and Liga Medicorum Homoeopathica Internationalis (LMHI), Vigyan Bhawan, New Delhi, 9-10 April, 2016.
- Banati, H. (2016) "Issues & Challenges in Data Analytics" Invited Speaker at Technical session at National Seminar on Trends in Data Analytics. hosted by Gita Rattan International Business School, Delhi, 8 Oct., 2016



Gupta, A. (2016) "Self assembled nanostructures from short oligomers of  $\beta$  amino acids as drug delivery vehicles." International Conference on Polymers and Material Science, Bangkok, Thailand, 14-16 Jan., 2016.

### **Placement Details**

Students Placed – 220+

Companies visiting campus – 58+

### **Extension and Outreach work**

Nine camps were organised in the surrounding areas in which 17 students worked and about 100-150 people were enrolled/covered. Number of hours dedicated to these camps was 5-8 hours/camp.

### **Library Development**

A well-equipped library with over 97,000 books, a large number of periodicals and journals and internet facility, IT based services to visually impaired student/ faculty members exists. The library has given one month training to eight students of Delhi Library Association.

### **Faculty Strength**

Permanent – 163; Ad-hoc – 88

### **Financial Allocation and Utilization**

Grant Sanction – Rs. 46,13,37,000/-

Utilized – Rs. 46,39,00,000/-

### **Other Significant Information**

The college has submitted NIRF 2017 for ranking of the college.

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## **DYAL SINGH EVENING COLLEGE**

### **Major Activities and Achievements**

Dyal Singh Evening College is a University maintained under-graduate institution established in 1958. Presently it has eleven departments and the approximate student strength is 2850. The college has been actively organizing campaigns and programmes for the betterment of the teachers and students alike. During the academic year 2016-17 the college organised activities such as 'International Yoga Day,' 'Youth Day,' 'Drug and Substance Free Campus Campaign' a 'Donation Drive: Clothes and Food,' 'Blood Donation Camp' and a 'Cleanliness drive' (Swachhta Abhiyan). College also organised an interactive session for differently-abled students on 1 March, 2017 in which Mr. O.P. Kohli, Governor of Gujarat, Mr. delivered a motivational lecture and interacted with the students.

### **Students with Distinction**

Heena Ansari of B.Com (H) secured 85% in the University exam.

Komal of B.Com (P) secured 85% in the University exam.

Shikha Singh of B.Com (P) secured 82% in the University exam.

Aishwarya Luxmi Jain of B.Com (H) secured 81% in the University exam.

Riddhi Singh of B.Com (P) secured 81% in the University exam.

## **Publications**

### **Books**

- Chand, P. (2016). *Public Policy: Concepts, Theories and Practices (co-authored)*. New Delhi: Sage Publications
- Singh, S.K. (2016). *Management Accounting: Theory And Practice*. New Delhi: A.K. Publications.
- Singh, S.K. (2016). *Management Principles and Applications (co-authored)*. New Delhi: Himalaya Publishing House
- Singh, S. (2017). *Governance: Issues and Challenges (edited)*. New Delhi: Sage Publications
- Sharma, P. (2017). *Kash Pankh Hote Hamare*. New Delhi: Kitabghar Prakashan
- Thapar, P. R. (2017). *Fiction of Bant Singh Chattha di galapa cetana*. New Delhi: Pahili Wara

### **Research Publications**

- Deepak, M. K. Human – environment interaction. In Dr. Shivani Singh (Ed.), *Governance: Issues and Challenges*, Sage Publications.
- Kumari, R. (2016). Holistic health with Yoga and acupuncture: tourism and reflections on Asia medicine, In *Evolving Indo-Korean Relations: Perspectives On South Asia*, Manak Publication,
- Oraon, M. R. (2016). Public Service delivery and good governance in India. In Singh, Shivani (Ed.), *Governance: Issues and Challenges*, Sage Publications.
- Singh, A. (2016). Dislocated Identity and Sense of Social Awareness in Mira Nair’s film Mississippi Masala. In *Text Contexts, Theories and Praxes: selected Essays on Literature and Humanities*, Vol-I, Blurb, Inc. San Francisco, C.A. USA. ISBN 97 813 676 14901
- Singh, N. Research paper on Yaksha Iconography: Thematic Variation and its Implications In the two volume set *Archeology and Tradition: Prof. D.N. Tripathi Felicitation Volume* by B.R.Mani, I.D.Dwivedi and VimalTiwari, Agam Kala Prakashan.
- Singh, S. MNREGA: Rights based Policy in a Book on Public Policy. co- authored by Prof. Bidyut Chakrabarty, Dr. Prakash Chand, Sage Publications.

### **Research Projects**

- Dr. Bhawna Pandey, UGC Minor Research Project, 2016-17.
- Dr. Prakash Chand, ICSSR, 2016-17, Department of Political Science, Environmental policy and politics in India: a case study of air pollution in Delhi, Rs. 8 Lakhs.

### **Seminars Organised**

- Dr. Mohd. Abdulla, Assistant Professor, University of Mumbai on ‘Folk songs of Punjabi and Urdu,’ International Seminar on Linguistic & Cultural Relationship between Urdu and Punjabi, 27 March, 2017.
- Mr. Gurubachan Singh Bhullar, Eminent Punjabi writer spoke on ‘Relationship between Punjabi and Urdu,’ International Seminar on Linguistic & Cultural Relationship between Urdu and Punjabi, 28 March, 2017.
- Mr. Nitish, a professional trainer on ‘logical reasoning’ in association with Career Launcher, and a workshop on ‘Careers in Finance,’ 23-24 March, 2017
- A seminar on Discussion on Democracy: In Present Context was organised by the department of Political Science on 21 Sept., 2016. TMr. Ram Bahadur Rai, President IGNC; Prof. Anand Kumar from JNU; Sh. Joydip Chokkar, Founding President, Association for Democratic Reforms. organisedhe discussion was chaired by Dr. Rajiv Sharma.

### **Seminar / Conference Presentations**

- Abha Singh. (2016) “Fantasizing and Re-inventing Shakespeare in Children World.” Second Biennial Conference of Asian Shakespeare Association, Indira Gandhi National Centre for Arts, New Delhi, 1-3 Dec., 2016.
- Abha Singh. (201) “Localization and Appropriation of Shakespeare Play in Hindi and Bhojpuri Literature.” Tenth World Shakespeare Congress in Startfordupon Avon and London, 31 July-6 Aug., 2016.

Prithavi Raj Thapar, department of Punjabi, delivered a lecture on 'Motivation of Senior citizens' in Delhi.

Brijesh Kumar. (2016) "Cultural dimensions of contemporary Poetry." International seminar in JNU, 28-29, Sept., 2016

Poonam Gupta. (2017) "A study of recent developments and trends in electronic payments in India'. INBUSH ERA World submit, Feb., 2017

Priya Sharma. (2016) "Concept of Moksh and Nanak Vani." Seminar organised by Indian Puran Study Institution, New Delhi, 7, May, 2016.

### **Placement Details**

Students Placed – 100

Companies visiting campus for recruitment – 10+

### **Library Development**

Air conditioned and semi computerized library having more than 1490 books, 25 Periodicals and 13 Newspapers.

### **Faculty Strength**

Permanent – 32; Adhoc – 57

### **Financial Allocation and Utilization**

Grant received – Rs. 18, 9297000/-

Utilized – Rs. 14, 8024927/-

### **Other Significant Information**

Dyal Singh college (evening) will be converted into a day college.

NAAC Report was compiled and uploaded on the college website.

The College Art and Culture Association won more than 100 Inter-College Prizes during the academic year 2016-17. A talk on India's Foreign Policy during Modi Era was organised by the Department of Political Science. It was addressed by by Prof. Sanjay Bharadwaj (JNU). Indian Language Club organised an Inter-College Paper Reading was held on the topic 'Guru Gobind Singh – Shakti & Bhakti'. Students of various languages i.e. Sanskrit, Urdu, Punjabi, Hindi and English read their papers. Students from other colleges participated with great enthusiasm.

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## **GARGI COLLEGE**

### **Major Activities and Achievements**

The Golden Jubilee year of the college was inaugurated with the theme 'Service to Humanity' and children from different NGO's were invited to showcase their talents. A plethora of activities like national conference, lecture series, workshops, add-on course, seminars, alumni meet were organised throughout the year. An Invitational Inter College Tournament was also organised. For its remarkable contribution to the protection of the environment Gargi college has been awarded a 'Green Campus Award' by Women Agency for Generating Employment (WAGE). A National Conference on "Combating Industrial Pollution for Sustainable Environment – A Fusion of Industrial and Scientific Efforts (CIPSE 2016)." The Annual 'Global Education Fair' in collaboration with Study Overseas saw the participation of 25 college/university representatives from UK, Australia and USA. College has implemented three pilot project of rainwater harvesting sites at its premises in association with Delhi Jal Board to conserve and save the rainwater.

### Honours / Distinctions

Gargi College was awarded a 'Green Campus Award' by Women Agency for Generating Employment for its remarkable contribution to the protection of the environment (WAGE).

Promila Kumar, Department of Mathematics received "Meritorious Teacher Award" from Directorate of Higher Education, Government of NCT of Delhi for the year 2015-16 and "Life time Achievement Award" from Women's Agency for Generating Employment on 8<sup>th</sup> March, 2017.

Our faculty member Chingrishon Kathing (Department of Chemistry), Priyanka Varshney (Department of Elementary Education), Supriya Singh and Usha Kumari (Department of Zoology) were awarded Ph.D. Degree.

### Students with Distinction

Twelve students were awarded the Science Meritorious Award by University of Delhi and ten students were position holders in South Campus, University of Delhi.

Ms. Shubh Gulati represented India in the 8<sup>th</sup> Asian Soft Tennis Championship in Chiba, Japan.

Ms. Pincky Balhara represented India in World School Games, Turkey and secured 2<sup>nd</sup> position in Judo. She secured Gold Medal in All India Inter University, Junior National, Delhi State and D.U. Inter College Competitions.

### Publications (Selected)

Bhandari, V. (2016). Performance of socially responsible portfolios across sectors in Indian stock market. *International Journal of Business Ethics in Developing Economies*, 5(1), 10-24.

Gupta et al., (2016). Reflective practice of ecological living in educational settings. *DU Journal of Undergraduate Research and Innovation*, 2(2) 7-16.

Gupta, P. (2016). The glass menagerie and mirrored identities. In Payal Nagpal (Ed.), *The Worldview Critical Edition of 'The Glass Menagerie'*, (pp. 161-167), Delhi: Worldview

Kumar, P. & Sharma, B. (2016). Multi-objective variational Problem through Generalized (F, $\rho$ )-Invex Functionals of Higher Order. *Communication on Applied Nonlinear Analysis* 23(3), 79-92. ISSN 1074-133X

Kumari, T., Chauhan, R., Sharma, N., Kaur, K., Krishnamurthy, A., Pandey, P. & Aggarwal, S. (2016). Zinc Chloride as Acetamide based Deep Eutectic Solvent. *DU Journal of Undergraduate Research and Innovation*.2 (1), 203-210.

Luthra, V., Kaur, A., Saini, S., Ahuja, D., Nagpal, A., Pal, M., Uniyal, M. and Bharadwaj, A. (2016) Awareness and Use of Free/ Open Software for Science and Mathematics Education. *International Journal of Humanities Social Science and Education*, 3(11) 65-69.

Negi, B., Kumar, D., Kumbukgolla, W., Jayaweera, S., Ponnann, P., Singh, R., Agarwal, S., Rawat, D. (2016) Anti-methicillin resistant *Staphylococcus aureus* activity, synergism with oxacillin and molecular docking studies of metronidazole triazole Hybrids. *Eur. J. Med. Chem.* 115, 426-437. ISSN: 0223-5234

Ranjan, R., Khurana, R., Malik, N. et al. (2017) bHLH142 regulates various metabolic pathway-related genes to affect pollen development and anther dehiscence in rice. *Scientific. Reports* 7, 43397.

Rawal, M.K., Banerjee, A., Shah A, Khan, M., et al. (2016) Newly identified motifs in *Candida albicans* Cdr1 protein nucleotide binding domains are pleiotropic drug resistance subfamily-specific and functionally asymmetric. *Scientific. Reports* 6, 27132.

Rustagi, A., Shekhar, S., Kumar, D., Jayaswal, A., Bhat, B. and Sarin, N.B. (2016). Genetic Fidelity of In Vitro Cultures of an Elite Indian *Musa* (AA) Variety Matti. *Advances in Plants and Agriculture Research* 4(3). 00141.

Rustagi, S., Majumdar, S. and Sharma, P. (2016). *In Silico* Analysis of Gene Expression Profile in Human Breast Cancer Cells. *International Journal of Biotechnology and Biomedical Sciences*, 2, 9-13.

Saini, G., Sharma, V., Luthra, V., Tandon, R.P. (2017). Synthesis, characterization and photovoltaics studies of 3-alkylthienyl thiophene based polymers prepared via direct arylation polymerization. *Advanced Material Letters*. 8(7), 813-818.

Siwal, A. & Agarwal, R. K. (2016). Workforce diversity: a key to improve productivity. *Research Directions: International Interdisciplinary Research Journal*, 3(11), 1-5.

Verma D. and Satyanarayana, T. (2016). Retrieval of xylanase genes from environmental metagenomes by metagenomic approaches. In Saif Hameed and Zeeshan Fatima (Eds.) *Biotechnology Progress and Applications*, (pp: 19-34). ISBN 978-93-5124-729-6

### **Teachers serving as Editor(s)/ Member(s) of Editorial Board – 03**

#### **Research Projects**

Beena Negi, UGC-BSR Research Start-Up-Grant, Rs. 10 Lakhs.

Anjana Neira Dev, The Indian Council of Social Science Research, 2017, *The Ganga in Indian Literature and Folklore*. Rs. 9 Lakhs.

Sutapa Dutta, UGC Minor Grant, *Early Vernacular Dialogue Books: Language and Identity in Colonial Bengal*.

Madhu Yashpal, UGC Start-up Grant, *Bactericidal Properties and Mechanism of Actions of Plant-mediated synthesized Gold Nanoparticles*. Rs. 10 Lakhs.

Supriya Singh, UGC-Faculty Research Promotion Scheme Start-Up Grant, *Molecular Characterization of Human Immunodeficiency Virus (HIV) & Impact of HLA on Viral Evolution*. Rs. 10 Lakhs.

#### **Seminars Organised (Selected)**

Prof. Raj Dhankar, Vice Chancellor of Ansal University, Prof. IM Pandey, Director General of Delhi School of Business, Ms. Neha Punater, Partner – Fintech of KPMG (Mumbai) and Mr. Gaurav Kachru, CEO of Today Retails, India Today Group, National level Seminar: CASCADE on 'Fintech: a renaissance in finance', 6 October, 2016.

National Seminar and Literary Festival on 'Commemorations, Legacies, Afterlives: Four Hundred Years of Shakespeare and Cervantes,' Jan. 17-19, 2017.

Dancer Navtej Johar, film-maker Ryan Lobo, Vibha Maurya, Professors Shirshendu Chakrabarti, Soumyabrata Choudhury, Sumanyu Sathpathy, S. P. Ganguly and Vijaya Venkataraman, Surabhi Sonya Gupta and N. P. Ashley, National Seminar and Literary Festival on 'Commemorations, Legacies, Afterlives: Four Hundred Years of Shakespeare and Cervantes', January 17-19, 2017.

A national level inter-disciplinary seminar on 'Mental Health and Lifestyle,' focused on lifestyle habits, food habits, sleeping patterns, exercise and stress experiences of college going students was organised by the Department of Psychology and Department of Physical Education collaboratively on 21 Oct., 2016

An interdisciplinary seminar in collaboration with Marketing Society, Department of Mathematics and Department of Economics on 'Impact of advertising on marketing: A paradigm shift' on 30 Sept., 2016.

Mr Dilip Cherian (India's Image Guru), Mr Sudhir Chaurdary (Editor and channel head, Zee News), Padma Shri awardee Mr. Pushpesh Pant, Dr. Sushila Madaan (Author), Mr Praveen Jaipurian (Head of Marketing: Dabur) and Mrs Vibha Paul (Director, Tata chemicals), conducted an interdisciplinary seminar in collaboration with Marketing Society, Department of Mathematics and Department of Economics on 'Impact of advertising on marketing: A paradigm shift' on 30 September, 2016.

Dr. Jyoti Raghvan, Assistant Professor, Department of Journalism and Ms. Gauri Singh, our Alumni and student of Law Faculty, A panel discussion on 'Scams in Business World,' 18 Oct., 2016.

Lecture Series cum Workshop' on the theme "Physics and Society" on 23 March, 2017. Prof. Ajoy K. Ghatak, Chairman NASI- Delhi Chapter and Former Professor, IITD, Dr. Hema V. Raghavan, Former Principal, Gargi College, and Prof. Pratik Kumar (AIIMS) in association with NASI – Delhi Chapter,

#### **Conferences / Workshops Organised (Selected)**

A national conference on 'Combating Industrial Pollution for Sustainable Environment – A Fusion of Industrial and Scientific Efforts (CIPSE 2016),' where five technical sessions which had invited lectures, oral presentations, panel discussion and a poster session were held, was organised on 22-23 Sept., 2016.

Two inter college workshops were organised; one for the laboratory staff (14-15 July, 2016) and the other for the faculty members (13 Aug., 2016) for teaching the Skill Enhancement Course on Green Chemistry.

i-Senso Robotics Workshop was organised in association with E-cell of IIT Bombay and Robokart wherein our students learnt how to design robots using Arduino, 10-11 Jan., 2017.

Two-day workshop on the nuances of writing for visual screenplay and documentaries was organised on 24-25 Jan., 2017.

A Workshop on 'It's in my genes: A molecular biology approach' to impart practical knowledge of laboratory equipments and molecular biology methods, 14-15 March, 2017.

### **Seminar / Conference Presentations**

Anjana Rustagi. (2016), International Conference on Functional and Interaction Proteomics organised by National Institute of Plant Genetic Resources (NIPGR), New Delhi from Dec. 14-17, 2016. Department of Botany was awarded Best Poster award.

Jyotika Bahl. (2016), ICSSR sponsored National Seminar on Emerging issues of Climate Change: Sustainability and Economic Implications organised by Sri Aurobindo College held on 21-22 Oct., 2016. Department of BBE was awarded the Best Presenter.

Sabeen H. Rizvi. (2016), 23<sup>rd</sup> meeting of International Association of Cross Cultural Psychology held at Nagoya, Japan, 30 July-3 Aug., 2016. Department of Psychology received Witkin-Okonji Award.

Indu Tucker Sidhwani, Sushmita Chowdhury and Veena Tu. (2016) National conference on "Combating industrial pollution for sustainable environment – A fusion of industrial and scientific efforts (CIPSE-2016) held in Gargi College on Sept. 22-23, 2016.

Rekha Navneet. (2016) "Ethos of Compassion, Friendship and Reverence towards Animals in Ancient Indian Tradition." 3<sup>rd</sup> Global Conference on Animal-Human Bond at Mansfield College, University of Oxford, U.K., 19-21 Sept., 2016

### **Placement Details**

Students Placed – 108 (22.3%)

Companies visited for campus recruitment – 35

### **Extension and Outreach Activities**

Under government scheme of *Swachh Bharat*, NSS Gargi organised various cleanliness drives. On Sept. 1, student volunteers from the college went to India Gate to participate in cleanliness drive organised by University of Delhi. Various events were organised in and around Gargi College to promote the concept of cleanliness and make people enthusiastic about it. NSS organised awareness campaign near Green Park metro station. NSS Gargi organised a blood donation camp in association with Blood Connect and AIIMS on 7 Oct.. NSS celebrated joy of giving week and the donations were handed over to GOONG, NGO. On 27 Oct., NSS organised Diwali mela, which saw footfall of students from different colleges of DU interacting with the fifteen invited NGOs like JAMGHAT, AADI, Cheshire home etc. On 19 Jan., a mammography test camp was organised; thirty women were examined, followed by a seminar which was conducted to spread awareness about breast cancer. Enactus Gargi initiated its second project Udayachal in the Ghaziabad community. Multiple drives on sanitation and hygiene were conducted for the women and children in collaboration with the Rortract Club, Faridabad. The club is making provisions for certified medical professionals according to the needs of the people. Enactus Gargi helped the women of the community register as a Self-Help Group for the purpose of producing sanitary napkins.

### **Library Development**

WEBOPAC and facility of UGC INFLIBNET and access to DU Library Catalogue continued during the year. 736 books were added making total of 73408 accessioned books in all. At present library has an asset of 217 CDs and subscribed to 47 periodicals and 10 newspapers. Electronic Resource Management package for e-resources: User control provided by NLIST. The library subscribes to a large number of Electronics Resources through UGC-Infonet which includes around 97000+ eBooks and 6000+ e-sources and University of Delhi connectivity which includes a large number of Electronic Resources available for access through Delhi University Library System.

### **Faculty Strength**

Permanent – 149; Ad-hoc – 61

### **Financial Allocation and Utilization**

Grant sanctioned – Rs.384887000/- (UGC)

Utilized – Rs.425637483/-

### **Other Significant Information**

Yusuf Hameid Inspirational Chemistry Programme for training of school science teachers was conducted on 24-25 Oct., 2016 by Chemistry Department in collaboration with Royal Society of Chemistry (London). Thirty teachers from a wide section of schools benefitted.

Aerobics team of Gargi College remained unbeaten champion in all Inter College Aerobics tournament organised by different colleges of Delhi University. Cricket and Judo team secured I position in D.U. Inter College Competition. Ball Badminton team secured III position in D.U. Inter College competition. Ball Badminton team also secured 1<sup>st</sup> position in Miranda House Sports Fest and Kalindi College Sports Fest.

Our Cultural societies have earned laurels across various competitions at University and State level.

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## **HANSRAJ COLLEGE**

### **Major Activities and Achievements**

Internal Quality Assurance Cell (IQAC) organised five workshops, six faculty development programs and one seminar for enrichment of the faculty members and two training programs for library, administrative and non-teaching staff. Mentorship week to strengthen the student-teacher bond and Internship fair where close to 50 companies participated were organised by IQAC. A total of 117 publication including research papers, popular articles, books and book chapters were written by the faculty members. Nine workshops and invited lectures along with 52 minor research projects were conducted under the aegis of DBT Star College Programme. 130 students along with 43 teachers successfully completed 13 innovation projects sanctioned by University of Delhi. Indian national flag at 115 feet long pole is placed in the main lawn. College secured many prizes in the annual flower show organised by University of Delhi, Indraprastha Flower show and at Garden of Five senses.

### **Honours / Distinctions**

9 Gold Medals were bagged by Hansraj College in the year 2016-17.

20 first positions, 17 second positions and 20 third positions were also secured.

Inter-college championship in Men Air Pistol, Air Rifle, Squash, Table-Tennis, Archery (Compound), Archery (Indian Round) and Table-Tennis (Women).

Arjun Mann, B. A. (H) History, I year, secured a Bronze Medal in Trap Shooting in International Junior Shotgun Championship, Finland, Italy.

Arjun Mann, B. A. (H) History, I year also secured a Gold Medal at International Shooting Championship.

Dr. Mona Bhatnagar was awarded by Best Teacher Award (Dr. S. Radhakrishnan Memorial National Teacher & Media Network Award – 2016) and Women Excellence Award in Education, Lions Club.

Dr Archana Singh was awarded UGC Raman Fellowship.

### **Students with Distinction**

Delhi University Gold Medalists 2016-17

Ms. Preetika Dhawan – M.Sc. Physics

Ms. Aditi Tailor – M.Sc. Botany

Mr. Anup Das – B.Sc. (H) Zoology  
Ms. Shivani Grover – B.Sc. (H) Physics  
Mr. Sarthak Malhotra – B.Sc. (H) Anthropology

### Publications

- Chand, S. (2017). Empirical survey of Machine Translation Tools. *Proceedings of Second International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN)*, 181-185.
- Gupta, C., Rathi, B., Gupta, N., Sharma, S., Sharma, R.K., Bohidar, H.B. (2016). Magnetic Iron oxide Nanoparticles encapsulating horse radish peroxidase (HRP): Synthesis, Characterizations and Carrier for the generation of free radicals for potential applications in Cancer therapy. *RSC Advances*, 6, 111099-111108.
- Hanief, M. Pandey, N. (2016). *Mallotus philippensis* (Lam.) Müll. Arg: Its Ethnobotany and Ecology. *Botanica*, 66, 1-5.
- Kumar, S. (2017). Synthesis and Characterization of tris-(4-Phenoxyphenyl) amine by Conventional Method. *ChemSci Trans.*, 6(1), 8-12.
- Rajpal, V.R., Ambica., Anjali. (2016). Herbal Cosmetics with anticancer and antimicrobial properties. *J Mat. Nano Sci.* 3(1), S1-S23, S15.
- Rana, B., Juneja, A., Agarwal, R.K. (2017). FMRI based Computer-aided Diagnosis of Schizophrenia Using Fuzzy Kernel Feature Extraction and Hybrid Feature Selection. *Multimedia Tools and Applications*, 1-27.
- Singh, A., Rathi, B., Medvediev, V.V., Shishkin, O., Bahadur, V., Singh, T., Singh, B.K., Vijayan, N., Balachandran, V., Gorobets, Yu.N. (2016). Functionalized Organic Frameworks Explored As Second Order NLO Agents. *J.Chem.Sci.*, 128, 297-309.
- Subramaniam, S., Rather, S.A., Danda, S. (2016). Two New Records to the Flora of Himachal Pradesh (India) from Sirmour District. *Pleione*, 10(2), 406-408.
- Subramaniam, S.S., Danda., Rather, S.A., Pandey, A.K. (2016). A new species of *Crotalaria* (Fabaceae, Crotalariaeae) from Meghalaya, India. *Systemat. Bot.*, 41(2), 307-315.

### Research Projects

- Dr Brijesh Rathi, SERB, 2016-19, A New Class of Anti- Malarials: Constituting New Avenues for Anti- Malarial Therapy. Rs. 32.89 Lakhs.
- Dr Brijesh Rathi, DRDO, 2017-20, Design and Catalytic Large-Scale Synthesis of New Functionalized Dr Aparna Bansal, UGC, 2016-18, Structure diversity and Stability of G-rich DNA sequences. Rs. 6 Lakhs.
- Dr Brijesh Rathi, Indo-Hungarian Bilateral Research Grant, DST, 2017-20, Thio-click approach for the synthesis of stable glycomimetics and chiral oxathiacrown ethers. Rs. 36.81 Lakhs.
- Dr Brijesh Rathi, DST, 2015-17, Conjugates and Analogues of Antiviral Compound AUY1. Rs. 24.28 Lakhs.

### Seminars Organised

International:

“वैश्विक पटल पर प्रवासी हिंदी साहित्य” विषय पर अन्तरराष्ट्रीय संगोष्ठी का आयोजन हंसराज कॉलेज में 20 जनवरी 2017 को किया गया जिसमें विख्यात कहानीकार एवं सिनेमा विशेषज्ञ तेजेन्द्र शर्मा (लंदन), विख्यात प्रवासी उपन्यासकार सुषम बेदी (अमेरिका) ने वक्ता के रूप में भाग लिया

National Seminar:

Prof. Salil Gupta, Convener, ISCA, Delhi Chapter, Dr. Kaushik, Consultant, NII, Dr. Sunil Mittal, Neurosurgeon, Dr. Prabhat Ranjan, TIFAC, DST, Govt. of India, seminar on National Science Day on ‘Science & Technology for Persons with Disability,’ Feb. 28, 2017



Dr. D K Tuli, DBT-IOC Advanced Bio-Energy Research Centre, Indian Oil Corporation, and Dr. B. Basu, Energy Bioscience Overseas Chair Position, DBT-IOC DBT-IOC Centre for Advanced Bioenergy Research on 'Role of Analytical Sciences in Sustainable Development,' March 4- 5, 2016.

Mr. Upender Gupta, IRS, Commissioner GST, Ministry of Finance, Govt. of India; CA Atul Gupta and Prof. Kavita Sharma, Head and Dean, Department of Commerce, Delhi School of Economics, University of Delhi on 'Goods and Services Tax - The Road Ahead' organised on Feb. 15, 2017, Self-funded;

CA Amarjit Chopra, Former Chairperson, ICAI; Prof. Madan Lal, Prof. H. K. Dangi Prof. Kavita Sharma, from, Delhi School of Economics, University of Delhi, Prof. J. S. Pasricha, Professor Emeritus; Dr. Shraddha Mayuresh Bhome, Associate Professor & Co-ordinator, BAF, Satish Prabhan Dnyanasdhana College, Thane, Maharashtra; Prof. Kirit Sharma, Co-ordinator-International Relations at Management Development Institute, Gurgaon; Prof. Ashwini Bhalla, Secretary, Faculty of Business Management and Commerce, Punjab Univeristy, Chandigarh; Prof. V. K. Sareen, Registrar, DAV University, Jalandhar; Prof. K. V. Bhanu Murthy, Former Dean and Head, Department of Commerce, Delhi School of Economics, University of Delhi on 'Emerging Issues in Commerce and Business Management' Jan. 7, 2017, Self-funded; the seminar was divided in 3 areas, namely, Finance, HR and Marketing.

Dr. V. B. Aggarwal, Dean (Info Tech), IIMS, Prof. M. Moni, former DG, NIC, Dr. Huzur Saran, Professor, Department of Computer Science & Engineering, IIT, Delhi, Mr. Anuj Aggarwal, Chairman, Centre for Research on Cyber Crime and Cyber Law and Dr. Anup Girdhar, CEO-Founder, Sedulity Solutions and Technologies, Cyber Crime Investigator and Cyber Security Consultant on 'Cyber Security in Cloud Computing and Social Networking' on Jan. 12, 2017

#### **Seminar / Conference Presentations**

Koul, M and Thakur. (2016) "New Delhi, Plantation of Shrubs in Urban Areas to Contest Air Pollution." Proceedings of the National Seminar on Water and Air Quality in Urban Ecosystem. New Delhi, (pp. 62-67) 22, March, 2016..

Rajpal, V.R. Thakur, R. Sonkar, A. Raina, S.N. (2016). "Quantitative Estimation of Berberin using TLC and HPLC: *Tinospora cordifolia*, *T.sinesis* and *T.crispa*." J.Integr.Sci. Technol., 42: S1-S23, S2.

Gulia, S. and Kakkar, R. (2017) "Theoretical Investigation of Glycine-(ZnO)<sub>12</sub> and Cysteine-(ZnO)<sub>12</sub> complexes in Aqueous Phase", UGC-sponsored National Seminar Proceedings on *Recent Innovations in Chemical Science and Environment Technology*, Sri Aurobindo College, University of Delhi, 2017, Shree Kala Prakashan, Delhi.

Yadav, P., S. Shrutika, and H. Kaur. (2017) "Comparative Study of Sentiment Analysis Techniques and its Application on Twitter." National Conference of Information Technology and Business Analytics (NCITBA 2017)

Sonam.S. GH-Bank Linkage Model- Its Impact on the Political Participation of Women, Proceeding of Emerging Issues in Commerce and Business Management, Department of Commerce, Hansraj College, University of Delhi, 7<sup>th</sup> Jan. (pp. 127-135). ACP.

#### **National / International MoUs**

With AKS University, Satna, M.P.

#### **Placement Details**

Students Placed – 476 (29%)

Companies visiting campus for recruitment – 40

#### **Extension and Outreach Activities**

##### **NSS:**

Organised a visit to a co-educational school along with volunteers to ensure proper toilet facilities for girls. Anti-malarial fogging drive and installation of dustbins at different places and encouraging the students to use them.

An interactive session with the non-teaching and the canteen staff was organised to discuss the issues of proper waste disposal and nutritional value of the canteen food. "Kilkari" an orphanage for girls was distributed and distributed edible items. Stationery items and notebooks were distributed by the students of NSS to *Padhaku*. Birth anniversary of Sardar Vallabh Bhai Patel was commemorated as "Rashtriya Ekta Diwas." A mass pledge-taking

ceremony and a unity run was also organised on Oct. 31, 2016. The flagship project, “Samarpan” started off with the help of an NGO, Viksit Gram Abhiyan where a slum, Bhalaswa Cluster Area, near Jahangirpuri metro station was adopted. Many sessions on e-literacy and women empowerment were conducted.

Earth Saviours Foundation in Badhwari, Gurgaon was visited to meet the elderly people and distribute edibles, sponge balls for arthritis patients, medicines and injections. Kilkari Rainbow Home for girls, Kashmere Gate was visited to spend time with 140 orphan and displaced girls. Friendicoes, an animal shelter in Defence colony, Jangpura for care towards injured, sick and abandoned dogs. Organised a play by Aveksha, the theatre group of Guru Gobind Singh Indraprastha University and USS, to perform a street play on the topic-The Indian Muslim. A Blood Donation Camp was organised in the college premises in collaboration with Blood Connect and Lady Hardinge Medical College. A dental checkup was simultaneously organised with “iSmile” for the children of *Padhaku*.

#### **NCC:**

Seven cadets participated in All India Trekking Camp in Dehradun, 9 cadets went for Army Attachment in Meerut. On Jan., 24 Cadets participated in Annual Training Camp (ATC) in Paschim Vihar, Delhi and the last camp of this session was SSB in Gujarat, where NCC Hansraj met Veer Chakra awardee Col. T.P. Tyagi on Jan. 15. Two Cadets attended Thal Sainik Camp Final, in which one cadet was the All India Parade Commander of NCC national games 2016. Two ATCs were attended by 37 cadets in all, two ALCs by 3 cadets, the Pre-Republic Day Camp by 3 and Army Attachment Camp by 11 cadets.

International Yoga Day was celebrated with the theme “Yoga for Harmony and Peace” led by yoga Practitioner, Sh. Praveen Ji from Bhartiya Yog Sanstham. NCC Hansraj also organised the Swachh Bharat Abhiyan in college on 27 Sept. and surroundings with complete active participation of all the cadets. NCC day was celebrated on Nov. 27. The event had the opportunity to welcome Monika Arora (Advocate, Supreme Court) and Col. Kanwarpal Singh (CO, 6DBN). The cadets organised the Republic Day event in the college and witnessed the monumental national flag hoisting in University of Delhi. Cashless India campaigning was led by NCC seniors for promoting the BHIM app in nearby markets. NCC won the sports trophy of Tug-of war and gold medal.

#### **Library Development**

The library consists of spacious reading room, discussion room, computer room and separate stack halls for science and arts-commerce streams. Library also consists of a book bank for needy students where nooks are available on loan for a year. Keeping pace with the technology the library system has shifted towards faster and user-friendly RFID-based system. RFID Technology is a non-line of sight AIDC technology that provides numerous advantages over the existing options for identification of items. Efforts have also been made to integrate the RFID system with ‘KOHA,’ which is an Open-Source Integrated Library Management System (ILMS) the system provides comprehensive functionalities to the RFID.

**Faculty Strength – 188**

#### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 38,94,00,000/-

Utilized – Rs. 38,16,52,316/-

#### **Other Significant Information**

Our Cultural societies have earned laurels across various competitions at University and State level.

Several new construction and renovations were done in the college this year. Rain water harvesting system is now in place and tactile path for visually impaired persons were laid down in all the corridors of the College premises. LCD overhead projectors have been installed in every class room. A crèche has been set up at campus to facilitate the young staff of the college who have toddlers and young children to look after. A new media and computer laboratory is also in place along with department (humanities and commerce) and society rooms. Amphitheatre, college office and seminar room were renovated along with the ground and first floor of science block. First and second floor of the library was renovated along with construction of third and fourth floor.

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## HINDU COLLEGE

### Major Activities and Achievements

The year saw several notable achievements for the College culminating in the 118<sup>th</sup> Founder's Day on 15 Feb., 2017, with Mr. Anil Baijal, Hon'ble Lieutenant Governor Delhi as the Chief Guest. The College was awarded A+ by NAAC with 3.6 points. The College also undertook comprehensive Green Audit and Gender Audit. Selected students interacted with the Hon'ble Prime Minister Mr. Narendra Modii, on the theme 'Celebrating the spirit of Participatory Democracy' in Aug. 2016 at The Town Hall, Delhi. College hosted talk by the Minister of HRD, Mr. Prakash Javadekar on 5 Jan., 2017 on 'Vittiya Saksharta Abhiyan.' The Vice-Chancellor, University of Delhi, Prof Yogesh Tyagi was also present. Nearly 62 faculty members made significant academic contributions – supervision of 2 Ph.D thesis, about 108 international & national publications and conference papers, 13 chapters/ articles, 14 e-content modules/ video lectures, 19 invited talks, 14 reviewed articles/modules, 46 workshops organised/ attended.

### Honours / Distinctions

Dr. Neera Sharma, Assistant Professor in Chemistry was awarded "Bharat Jyoti Award" from IIFS, 2016 for meritorious services, outstanding performance and remarkable role.

Dr. Manoj Kumar Varshney, Assistant Professor in Statistics, received II prize for the research paper, "To assess the Role of CD4 cell counts and other opportunistic infections to estimate the mortality of HIV/AIDS patients on ART in the presence of competing risks" in the International Conclave on Innovations in Engineering & Management (Oman Vision 2020: Opportunities & Challenges), Feb. 24-25, 2016, at Waljat College of Applied Sciences, Muscat, Sultanate of Oman.

### Students with Distinction

Diwakar Sharma of B.A. (Hons.) Music secured first position in the university.

Bhanu Batra of B.Sc. (Hons) Statistics secured first position in the university.

Sarika Choudhary of M.A. History secured first position in the university.

Niyati Sharma of M.A. Pol. Science secured first position in the university.

PayalYadav of M.A. Pol. Science secured first position in the university.

### Publications (Selected)

Bhalla, G. (2016). Prophylactic role of Melatonin against X-band microwave radiation induce toxicity in testis of Swiss Albino mice. *International Journal of Current Research*, In press.

Chopra, V. (2016). Formulation and Evaluation of novel orodispersible drug delivery system for the administration of bromhexine hydrochloride. *World Journal of Pharmacy and Pharmaceutical Sciences*, 5, 2278-4357.

Kumar, S., Vashisht, H., (2017). L.O., Olasunkanmi, Bahadur I, Verma H., Goyal Madhusudan, Singh Gurmeet, 2017, Polyurethane based tri-block copolymers as corrosion inhibitors for mild steel in 0.5 M H<sub>2</sub>SO<sub>4</sub>. *Industrial and Engineering Chemical Research*, 56(2), 441-456.

Kumar, S., (2016). Experimental and theoretical studies on inhibition of mild steel corrosion by some synthesized polyurethane tri-block co-polymers. *Scientific Reports* 6, 30937.

Kut., KMK., Saraswat, A., Srivastava, A., Pittman, Jr, C.U., Mohan, D. (2016). A review of fluoride in african groundwater and local remediation methods. *Groundwater for Sustainable Development*, 2-3, 190-212

Manocha, R. (2016). Do Bilateral Investment Treaties promote FDI Inflows? Evidence from India. *Vikalp: Journal of IIM Ahmedabad*, 41.4

Paswan, A. K.. (2016). Audit Quality, Auditor's independence and other parties, *AKGIM Journal of Management*, 6(2)

Sharma, P. Jain, R., Ghosh,. C. (2016). Role of Ascorbic Acid in imparting tolerance to plants against oxidizing pollutants, *International Journal Of Scientific & Technology Research*, 5(8), 43-47.

Suryanarayan, S. (2016). *How Green is my Valley? An Evaluation of the Development of Karnataka State in the Wake of the Information Technology Revolution*. In Sarma, Pranjali (Ed.), *Urbanization and Industrial Development*. EBH Publishers (India), Guwahati: Eastern Book House

Tandon, A. P. (2016). *Sustaining Spiritual Connect through Education on Wheels*. In Srivastava, P.K., Rai, Pratibha. (Eds.) *Spiritual Ecology and Sustainability, Practice and Confluence*. Author Press.

Verma, H. (2016). Experimental and theoretical studies on inhibition of mild steel corrosion by some synthesized polyurethane tri-block co-polymers, *Scientific Reports* 6, 30937.

### Research Projects

The College faculty and 80 students completed the following eight Interdisciplinary Innovation Projects funded by University of Delhi in the academic session 2015-2016. Total grant received was Rs. 43 Lakhs:

Dr. K. K. Koul, Dr. Anju Srivastava, Dr. Reena Jain, DU Innovation Project, 2016, Nutraceutical Evaluation of Some Green Microalgae, HC-301, Rs. 5.5 Lakhs.

Dr. Soma M. Ghorai, Dr. Meenu Srivastava, Dr. Neha Kapoor, DU Innovation Project, 2016, Development of Theranostics based product with Curcumin-Oligonucleotide-Rare earth metal based Nanoparticle probes as MRI contrast agent, HC-302, Rs. 6 Lakhs.

Dr. C. K. Seth, Dr. Neera Sharma, Dr. Mansi Saxena, DU Innovation Project, 2016, Design and implementation of Electronic Laboratory Notebook, HC-303, Rs. 4.5 Lakhs.

Dr. Sachin Vashistha, Dr. Sudarshan Kumar, Dr. Hemant Kumar, DU Innovation Project, 2016, Thermodynamic Electrochemical and Quantum Chemical Investigation of some PEG Based Polyurethanes as Corrosion Inhibitors for Mild Steel in Cyclohexane Propionic Acid, HC-304, Rs. 5 Lakhs.

Mr. Ajai Kumar, Dr. N. Santa Kruz, Dr. Lalit Kumar, DU Innovation Project, 2016, Study of an efficient ZnO based solar cell as a source for clean energy, HC-305, Rs. 6 Lakhs.

Dr. Aparna Saxena, Dr. Pramod Kumar, Dr. Ranjeet Kumar, DU Innovation Project, 2016, Nutraceutical Evaluation of Some Green Microalgae, HC-306, Rs. 6 Lakhs.

Dr. Harinder Kumar, Mr. Sanjeev D Sharma, Mr. Sidharth Kanoujia, DU Innovation Project, 2016, Effective use of ICTs and other innovative ways to enhance learning in affordable private schools, HC-307, Rs. 4 Lakhs.

Dr. C.L. Jonwal, Dr. V. S. Rawat, Dr. Geetika Bhalla, DU Innovation Project, 2016, Effects of 10 GHz radiation in male infertility and its amelioration by melatonin, HC-308, Rs. 6 Lakhs.

**Seminars Organised** – 46 + 6 additional academic activities

**Conference Organised** – 46 + 6 additional academic activities

**Seminar / Conference Presentations** – 58 International and National Conference papers

Chandan Singha. (2016) “Analysing adoption of soil conservation practices by farmers in Darjeeling district, India.” European Association of Environmental and Resource Economists 22<sup>nd</sup> Annual Conference, Zurich, Switzerland, 24 June, 2016.

Krishna Mani Pathak. (2016) “Intuition as Blend of Cognition and Consciousness: An Examination of Parallels between Kant’s and J. Krishnamurti’s Definitions of Mental Representations.” 2<sup>nd</sup> Kant in Asia International Conference held at Hong Kong Baptist University, Hong Kong, 17-20 Dec., 2016.

Anupam V. Sharma. (2016) “Potential of the growth-inhibiting activity of *Datura innoxia* Mill. (Solanaceae) in the management of tobacco caterpillar, *Spodoptera litura* Fab, (Lepidoptera: Noctuidae).” XXV International Congress of Entomology, Orlando, Florida, USA, 25-30 Sept., 2016.

Reena Jain. (2016) “Removal of toxic organic dyes using novel, low cost and green adsorbents in waste water.” RSC Workshop on “Green Chemistry and Water Treatment”, Hotel Maidens, New Delhi, India organised by Hindu College, Green Chemistry Network Centre & University of Delhi, 17 Oct., 2016.

Sudhir Kapoor. (2017) “Affirmative Action in South Africa: Addressing the Labour Market Inequity.” National Seminar on “Affirmative Actions in Theory and Practice: Achievements and Challenges” organised by Department of Political Science, Sri Aurobindo College, University of Delhi, 6-7 Jan., 2017.

Shalini Suryanarayan. (2016) “Prospects and Possibilities for Empowering Women: A Look at the National Policies for Skill Development.” National Conference on Empowering Women through Skill Development: Challenges and Opportunities, at the Centre for Study of Social Exclusion and Inclusive Policy, University of Mysore, sponsored by the National Commission for Women, July 1-2, 2016.

### **National / International MoU**

International – 6, National –1

With Indian / Foreign Universities:

MoU with the National University of Singapore, since 2011 for a student and faculty exchange Programme. Under this MoU, students from NUS have been spending one semester each academic year.

In its first year, the College is hosting students from University of Heidelberg, Germany and UBC, Canada through the affiliating University’s MoU with the respective universities.

The College offers foreign language courses through MoUs and joint collaboration with well known institutions such as Goethe Institute, Max Mueller Bhawan for German; Instituto Cervantes for Spanish, Alliance Francaise de Delhi for French and Department of Slavonic and Finno-Ugrian Studies for Russian.

MoU named *Science Setu Programme*, with the National Institute of Immunology and Department of Science and Technology since 2014 for students and faculty exchange Programme. Under this MoU, students from Hindu College have been doing summer and winter laboratory training in each academic year. Under this scheme our students also attended various workshops and satellite Programme associated with it.

In the World Bank sponsored project of Kabul University-Delhi University Exchange Programme, the College faculty devised curriculum on site and the College hosted their faculty for training.

### **Other Inter-Institutional Collaboration**

The College is a core group member of the LEADearthSHIP–TERI Tetra-Pak Youth Initiative Programme of TERI. This programme for undergraduate and postgraduate students focuses on business and sustainability and aims to be the springboard for future youth leaders who have their world views deeply rooted in sustainability, ethics and innovation.

### **Students under Exchange Programme**

Mr. JelleVerlinde-University of Leiden, Netherlands, B.A. (H) Sociology attended Hindu College under an exchange programme.

### **Placement Details**

Students Placed – 70 (Approx.40%)

Companies visiting campus for recruitment – more than 15 renowned companies and start-ups.

### **Extension and Outreach Activities**

Extension activities in the College are organised through the NSS, NCC and other societies, prominent being the environment society (*Panchtatva*), The Equal Opportunity Cell (*Ankur*), Women’s Development Cell (WDC), etc. Several camps were organised in the surrounding areas with a total of about 250 people enrolled and 200 participation of more than 200 students.

NSS organised Health Camp, Cleanliness Drive, Blood Donation Camp, Tree Plantation, Anti Smoking campaign and Awareness drive.NCC organised combined annual training camps, Ship attachment camp, Republic day camp, Para sailing camp, Nau-Sainik Camp, Blood donation camp, and Yoga workshop.

### **Library Development**

Total Budget this year was Rs. 8,71,500/- (Book Fund) and Rs. 8,71,500/- (Library Development fee). A total of 1334 Books and Journals were added. Also, internal facility was upgraded and Wifi facility is now available in the Library.

### **Faculty Strength – 163**

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 22,39,25,000/-

Utilized – Rs.31,35,65180/-

### **Other Significant Information**

Dr. Hemant Verma and Dr. Richa Tyagi, Assistant Professors in Chemistry were awarded third prize in Poster Presentation , “Determination of Enthalpy of Neutralization for Weak Acid and Weak Base by Simple Thermochemical Method” at National Conference on Innovation in Chemistry Laboratory Teaching, held on 8-9 Feb., 2017, Department of Chemistry, Zakir Husain Delhi College University of Delhi.

Dr. Anupam V. Sharma, Assistant Professor in Zoology was given second position in the Poster presentation on “Ovicidal activity of *Datura innoxia* on *Spodoptera litura* (Fab.) (Lepidoptera: Noctuidae).” International Conference on Entomology, Department of Zoology and Environmental Sciences, Punjabi University, Patiala and Association of Entomologists, 3-5 Dec.. 2016.

Two Ph.D thesis were supervised by the college faculty

A number of successful annual events were organised: the first Inter College Sanjay Mr. vastava Memorial Debate, *Vaktavya'17*; The Annual Conclave; *Mushairah 2017*–literary festival and Mecca–the Cultural Festival.

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## **HOLY FAMILY COLLEGE OF NURSING**

### **Major Activities and Achievements**

Students started the academic session with a fresher’s party and talent show. Before clinical posting in the Hospital, the nurses pledged to care effectively for patients in a Lamp Lighting Ceremony.. Elections for (SNA) Students Nurses’ Association body were held in Sept. 2016. SNA is involved in assisting the co-curricular activities of students and helping the students. In Oct. 2016 students of college participated in MTNL Health Mela and Medico – Masti organised for all medical students in MAMC, Delhi. Students won 1st prize in dance and in group song, II in choreography and skit. Health related important National and International Days were celebrated. College celebrated various festivals like Diwali, Christmas by organizing cultural programs. Annual fete was conducted in Holy Family Hospital on 29 Jan., 2017. Annual sports week was celebrated in Feb.. Students participated in various unit level and state level competitions organised by SNA.

### **Honours / Distinctions**

Dr. (Mrs.) Raminder Kalra was awarded Doctor of Philosophy (PhD) in Nursing.

### **Students with Distinction**

Alphy Alphonsa George  
Anjali Babu  
Blessy Babu  
Diya Jose  
Elizabeth T Thomas  
Jeny James

### **Publications**

Thomas, A. & Pattnaik, S. (July-Dec 2016). Effect of foot reflexology on vital parameters of hypertensive patient. *Indian Journal of Nursing Studies*, 7(2), 48 - 58.

### **Research Projects**

A Descriptive study to assess the knowledge and attitude regarding stem cell and umbilical cord blood banking among antenatal mothers attending antenatal OPD in a selected Hospital of New Delhi.

A comparative study to assess the knowledge and health seeking behavior related to obstetric morbidities among antenatal mothers of selected hospital of New Delhi.

A Descriptive study to assess the Knowledge and practice regarding prevention and Management of Anemia among antenatal women attending antenatal Clinic of a selected private hospital in Delhi.

A Descriptive study to assess the Knowledge of mothers regarding behavioral problems among children in Pediatric unit of selected hospital of New Delhi.

A Pre-experimental study to assess and evaluate the effectiveness of planned teaching Programme regarding antibiotic therapy in terms of Knowledge and attitude among the nursing staff of selected hospital of New Delhi.

A study to assess the knowledge of adult women on reproductive tract infection before and after a planned teaching Programme in selected urban slums of Delhi.

### **Conference Organised**

“Depression: Let’s talk” organised by HFCON on 6-7 April, 2017.

### **Seminar / Conference Presentations**

Raminder Kalra was a resource person for a workshop on ‘Nursing Administration and Supervision for Effective and Efficient Nursing Care’ organised by TNAI.

Anney Avarachan and Sherly Thomas attended a session on ‘Child Sexual Abuse’ at IMA House on 05/10/2016.

Thresiamma George attended Workshop on ‘Multi-Disciplinary Health System’ 4-6 Oct., 2016 at AIIMS New Delhi.

Session on ‘Quality in Nursing Care and its standards’ was organised by HFCON on 20 Dec., 2016 and was attended by Jincy, Angel, Kochuthresia, Smitha, Shanti, Meena.

Half day Symposium on ‘Market forces on ‘Breast feeding’ was attended by Cimil Babu at Constitution Club ITO on 30 Dec., 2016.

A Lecture on ‘Courage and Cowardice’ by Salman Aktar on 16 Feb., 2017 was organised by HFCON.

### **Placement Details**

Students Placed – 100%

Companies visited for campus recruitment – Not encouraged as all students preferred and were offered job in the parent hospital (Holy Family Hospital).

### **Extension and Outreach Activities**

A Health Camp was arranged at Ali Village for Screening for Diabetes Mellitus and Hypertension by five M Sc. Nursing (CH) students. 107 people were screened under the camp on 25 Oct., 2016. School Health camp was held in Sept. 2016. Thorough health assessment (including eye, dental and nutritional assessment) was done for 50 students in a private school. Need based health education sessions were conducted including exhibition and street play. Students requiring vitamin supplements and deworming were given medicines. Referral services were also provided to the 50 students who worked in the camps. A Disaster Drill along with relevant talk was conducted by M.Sc. Nursing students at MCD School Subhash camp on 28 March, 2017.

### **Library Development**

This year, 15 new journals have been subscribed to. Amount spent on nursing textbooks was Rs.134775/- Total number of magazines on current topics and general interest are 12. Total number of nursing books in the library was 4421 in the year 2016-2017.

**Faculty Strength**

Permanent – 29

**Financial Allocation and Utilization**

Grant sanction –Self Financing –Income generated– Rs. 22,019,227/-,

Contribution from Holy Family Hospital – Rs.26,45,311/-

Utilized Rs.– Rs. 24,664,538.76/-

**Other Significant Information**

The college started two new courses – Post Basic B.Sc. Nursing programme with 23 students and M.Sc. Nursing with 25 students—from the academic session 2016–17.

First Graduation Ceremony of the college of Nursing was held on 17 March, 2017. The chief guest of the civic function was Prof. Yogesh Tyagi, Vice Chancellor, University of Delhi and it was presided over by Archbishop Anil. J. T Couto, President, New Delhi Holy Family College of Nursing Society.

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## **INDIRA GANDHI INSTITUTE OF PHYSICAL EDUCATION & SPORTS SCIENCES**

**Major Activities and Achievements**

The Institute submitted a proposal for RUSA (Rashtriya Uchter Shiksha Abhiyan) for the year 2016-17 to the Directorate of Higher Education, Govt. of N.C.T. of Delhi. The Institute celebrated its 29<sup>th</sup> Foundation Day on 3 Aug., 2016, Swachhta Pakhwara from 16 Aug. to 1 Sept., 2016, Alumni Meet – 2017, Student Cultural Fest – Shankhanad, Annual Day Function. It also organised first Placement Drive, Fitness Trainer Course, Certificate Course on Yoga Education, Free Yoga Camp on International Day of Yoga, Mass Plantation Programme, Workshop on Basic Life Support and Emergency Management, Mass Recitation of the National Anthem, Handball and Tug-of-War Intra-murals, Teacher’s Day, Lecture on Vector Borne Diseases, Blood Donation Camp, Road Safety Awareness Programme, Seven Heaven Football Tournament, Debate Competition, Handball Inter-College Men, Intramural Cricket Tournament, Alumni Games and Sports Meet, Annual Athletic Meet. The Institute organizes Daily Assembly of the students which concludes with recitation of National Anthem.

**Honours / Distinctions**

Dr. Dhananjay Shaw was awarded with ASAR Excellent Paper Award for the paper, “Frequency Domain Analysis of Selected Heart Rate Variability (HRV) and Respiratory Variables of Male Sports Students and Non-Sports Students from Science Stream Background – A Comparative Analysis” at ASAR International Conference held in New Delhi on 9 Sept., 2016.

Dr. Sarita Tyagi received Certificate of Appreciation for being selected for Research Display of Innovation Project IGPE-301., Nutritional Status and body composition of Sports persons- Relation with selected physiological and physical fitness parameters, during Research Display at Convocation Ceremony of University of Delhi on 19 Nov., 2016.

**Students with Distinction**

Meenu Dabas of M.P.Ed. secured I position in the university.

Preeti Tyagi of M.P.Ed. secured II position in the university.

Shalini Rathi of B.P.Ed. secured I position in the university.

Nidhi Singh of B.P.Ed. secured II position in the university.

Dhruv Arora of B.Sc. secured I position in the university.

Pooja of B.Sc. secured II position in the university.



### **Publications (Selected)**

Avutu, S. Reddy, Bhatia, D., Shaw, D. (2016). Effect of Gender and performance of EMG activity of selected Knee Extensor Muscles during Isometric Contractions of Fully Extended Knee in Athletes. *International Journal of Computational Biology and Bioinformatics*, 2(2) 1-6.

Kaur, M., Nara, S., Shaw, D., Bhatia, D. (2016) EMG Asymmetry of Selected Knee Extensor Muscles in Sustained Squat Posture (A Yogic Posture) of Athletes in relation to their gender and performance. *Journal of Novel Physiotherapies*, 6, 322.

Kaur, M., Singh, S., Shaw, D. (2016). Advancements in soft computing methods for EMG classification. *International Journal of Biomedical Engineering and Technology*, 20(3), 253-271.

Nara, S., Kaur, M., Bhatia, D., Shaw, D. (2016) Co-Contraction of Knee Stabilizer Muscles during Sustained Squat Posture (A Yogic Posture) in Athletes. *Journal of Yoga and Physical Therapy*, 6, 256. DOI: 10.4172/2157-7595.1000256.

Satsangi, E. (2016). A comparative Study on Body of Body Shape Concern among Exercise and Non-exercise Women in the proceedings of International Conference in Physical Education and Sports Sciences *Emerging Trends in Fitness and Sports Sciences* organised by Department of Arts, Manipal university, Jaipur.

Shaw, D., Kumar, R., Singh, N., & Bhat, S. A. (2016). Effect of Examination on Pittsburgh Sleep Quality Index and Pittsburgh Insomnia rating Scale Score of Sports and Non-Sports Male Students of West Delhi Public School. *International Research Journal of Management Sociology & Humanities* 7(3), 36-40. Retrieved July 12, 2017.

Shaw, D., Kumar, R., Singh, N., & Bhat, S. A. (2016). Variance Among the Selected Games and Sports in regard to Selected Autonomic and Cardio-Circulatory Variables in a Repeated Measure of Design of Training Protocol (A Longitudinal Study). *International Research Journal of Management Science and Technology*, 7(3), 31-34.

Shaw, D., Kumar, R., Singh, N., & Bhat, S. A. (2016). Effect of Examination on Pittsburgh Sleep Quality Index and Pittsburgh Insomnia rating Scale Score of Sports and Non-Sports Female Students of Basva International School. *International Research Journal of Management Sociology & Humanities*, 7(4), 66-71.

Singh, R., (2017). Pro-Kabaddi: A Grand Commercial success with Socio-cultural Dimensions. *Scientific Journal in Sports and Exercise*, 13(1), 49-54.

Tyagi. S. (2016) *The Gym Management*. India: Friends Publications ISBN:978-81-7216-485-0

### **Journals published by the College**

PRIYADARSHINI – 2016.

### **Teacher's serving as Editor(s)/Member(s) of Editorial Board – 07**

### **Research Projects**

Dr. Sarita Tyagi, DU Innovative Project, 2016-2016, Nutritional Status and body composition of Sports persons-Relation with selected physiological and physical fitness parameters, Rs. 5.0 Lakhs.

Dr. Pardeep Kumar, DU Innovative Project, 2016-2016, Attitude, Wellbeing, Friendship in relation to Academic and Sports Achievement of D.U. College Students-A Contextual Understanding, Rs. 3.6 Lakhs

### **Seminars Organised (Selected)**

A Seminar on E-filing of Income Tax return was conducted in the institute for 2 days (5-6 Aug., 2016) under Staff Development Programme.

A National Seminar on NAAC and SSR – Procedure and Follow-up was held during 26-27 Aug., 2016.

One day seminar was organised in the Institute on the topic 'Physical Fitness Nutrition and Sports Performance, under the Innovation Project on 30 Sept., 2016.

A seminar on “Psycho-Social Determinants of Sports and Academic Performance” was organised by the Institute under Innovation Project–302 on 21 Oct., 2016.

In association with the Paralympic Committee of Delhi, a seminar was organised on “Inclusion of Paralympic Sports for Sustainable Development in India” on 31 Jan., 2017.

National Seminar on “Pedagogic Technology of Physical Education & Sports Sciences for Paralympic & Differently-abled Persons” was organised on 28 Feb., 2017.

### **Conferences / Workshops Organised**

A National workshop was organised on ‘Research Design and Application of SPSS in Physical Education & Sports Sciences,’ 05-11 May, 2016 and 13-17 June, 2016.

A workshop on ‘MATLAB Application for Researcher in Physical education ad Sports Sciences’ was organised during 4-18 Nov. 2016.

Workshop on ‘Competency in Excel for Physical Education and Research,’ was organised on 22-24 Aug., 2016 and 29 Aug.–01 Sept., 2016.

A two day National level Workshop ‘Curriculum Design and Development in Physical Education,’ 23-24 March, 2017.

### **Seminar / Conference Presentations**

Dhananjoy Shaw:

(2016). ‘Professional Management of University Sports in India’. M. D. University and Associations of Indian Universities (AIU), New Delhi, 06 April, 2016.

Lecture & Interaction: Physical Activity Refines Outlook’. All India Association of Sports for All and Aditi Mahavidyalaya at Delhi University Guest House, 27 July, 2016.

National Conference on Biomechanics and Rehabilitation Engineering (BIOREHAB – 2016), Department of Biomedical Engineering, Northern Eastern Hill University (NEHU), Shillong, 15-16 Sept., 2016.

Current Advances in Integrated Biomedicine for Health’. 37<sup>th</sup> National Annual Conference of Indian Association of Biomedical Scientists, Shobit University, Meerut, 3 – 6 Nov., 2016.

(2017). ‘Mechanics of Flexibility for Sports Performance and Rehabilitation’. International Conference on Physical Education and Sport Science, Manipal University, Jaipur, 5– 7 Jan., 2017.

(2017). ‘Biomechanical Principles – Sports Training and Performance Enhancement’. International Congress on Sports Science and Yoga (ICSSY – 2017), Lakshmi Bai National Institute of Physical Education under the auspices of Ministry of Youth Affairs & Sports, Government of India, 2-4 Feb., 2017.

### **Placement Details**

Students Placed – 64 (53.33%)

Companies visiting campus for recruitment – 03

### **Extension and Outreach Activities**

Mass Plantation was done by the students on 12 Aug., 2016 under the Green Environment campaign and Azaadi 70 with Plantation Programme for 250 trees at IGIPSS Campus and around. Swachhta Pakhwara was organised by NSS unit of IGIPSS from 16 Aug. to 1 Sept., 2016. A blood donation camp was organised in association with Red Cross Society of India on 22 Sept., 2016 in which students and staff participated with full zeal and enthusiasm. A programme was organised in the Institute for creating awareness among students and staff for Road Safety on 13 Jan., 2017 in association with Prajapati Brahma Kumari’s Ishwariya Vishwavidyalaya and Delhi Traffic Police. Alumni meet–2017 and seminar on Interfacing among IGIPSS Faculty, Alumni and Students for Development of Physical education and Sports Sciences was organised in the Institute on 23 Jan., 2017 in which old students of all batches commencing from 1987 took part in the programme. Alumni Games and Sports Meet was organised on 26 Jan., 2017 in the Institute in order to promote constructive competition between Alumni and present students.

### **Library Development**

With successful implementation of digital library, users of IGIPSS have access to the full text documents in digital format i.e. old question papers, M.P.Ed., B.P.Ed. B.Sc. Syllabus, all Ph.D. Thesis and all M.P.Ed. Dissertations awarded from 2013 onwards. Presently IGIPSS library database “Vidya: Library Management Software” put on-line through XAMPP Server. Total Library collection 12177 (8748 Accessioned Books, 2154 Reading Room, 677 Thesis and 598 Department Books) has been computerized in the database and Bar-coded which is searchable through Online Public Access Catalogue (OPAC). Library has organised three library orientation programs to enhance the use of physical and digital information resource.

### **Faculty Strength**

Permanent – 27 (including Officiating Principal)

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 12,59,00,000/-

Utilized in: Rs. 10,64,43,573/-

### **Other Significant Information**

100 students from the Institute participated/achieved positions in different events ranging from International, national levels to state, inter-university and inter-college levels.

Dr. Dhananjoy Shaw served as a mentor in the DU Innovative Project of Bhaskaracharya College of Applied Sciences, University of Delhi (BCAS 301) from Oct. 2015 to Nov. 2016, , “Development of Norms of Selected Autonomic Nervous System Functions, Lipid Profile, Electrolyte and Selected Respiratory Variables of College Students with and without Sports Background”, Sanctioned amount was Rs. 6 Lakhs.

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## **INDRAPRASTHA COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

The Internal Quality Assurance Cell was constituted. Additional spaces were created – New Academic Block with Conference Room and Research Rooms, 30 seats and lift in the Hostel, Library Reading Room and Seminar Room. Two additional Learning Resource Centres were created, namely Centre for Earth Studies (CES) and Centre for Inter-Disciplinary Studies (CIDS). A refereed and peer reviewed research journal, Journal of Innovation for Inclusive Development was launched. Add-on Certificate Courses on “Editing & Publishing (bilingual)” and “Disaster Risk Preparedness: Knowledge for Life” were conducted. All documents and notices are published in Hindi. Software for Time Table, Feedback and Mobile App for Student Information were developed. Rs. 10 Lakhs was earmarked for research activities of the College with Rs. 2 Lakhs dedicated to the Centenary Decade Under-Graduate Research Grant. A successful interaction with the parents was organised on Orientation Day. Admission to B.A. (H) MMMC and seven other entrance examinations across courses of the University were conducted in College.

### **Honours / Distinctions**

Dr. Babli Moitra Saraf, Principal, awarded the Certificate of Felicitation of International Women’s Club (A Unit of UNF) for Remarkable Contribution in the field of Administration & Education for Girls, 30 March, 2017.

Dr. Chitra Joshi awarded fellowship from the Humboldt University, Germany on *Work, Body and Time: Understanding Labour Regimes Beyond the Factory*, Oct. 2016-July 2017.

Mr. Rajat Roy awarded fellowship (funded by Inlaks Research Travel Grant, 2016) from the New Zealand India Research Institute, Victoria University of Wellington, New Zealand on *Writing Caste in Postcolonial Politics: A Study of the Namasudras of Bengal*, Nov. 2016.

### **Students with Distinction**

Twenty-five students awarded the Principal's Honor Roll for Individual Initiative & Significant Beyond Curriculum. Paper presentation by seven students in International Conferences.

Two students of NCC selected in the Republic Day Marching Contingent in RDC 2016.

Eight Gold Medals in Sports (National and State level) in Taekwondo, Chess and Shooting Championships.

### **Publications (Selected)**

Chopra, D. (2016). An empirical study of software entropy based bug prediction using machine learning. *International Journal of System Assurance Engineering and Management*, 7(2), 7-18.

Das, B. (2016). Ecofeminism: Women-Nature connection. *Stree: A Journal of Women Studies*, 7(7), 19-21.

Mishra, S. K.. (2016). Upanishatparam-paraayaam Gahan-apaaristhitiykiya-chintanam. *Sanskrit-ratnaakarah*, 2(26), 12-13.

Panja, S. & Saraf, B. M. (Eds.). (2016). *Performing Shakespeare in India: Exploring Indianness, Literatures and Cultures*. New Delhi, New Delhi: Sage Publication

Saha-Roy, A. (2016). MGNREGA as an Environmental Policy: A Case Study of Pithoragarh, Uttarakhand. *Journal of Innovation for Inclusive Development*, 1(1), 3-10.

Sethi, R. (2016). *Vigyapan: Bhasha aur Sanrachna*. New Delhi. New Delhi: Vani Prakashan.

Shagufta. (2016). India in a Globalized World - Reflections on Hegemony, Sovereignty and Social Reality. *The Indian Journal of Political Science*, LXXVI (4), 774-778.

Sharma, H.B. (2016). Conflict Management in Gender Perspective: Question of Leadership and Quest of Solution through Indian Methodology. *International Journal of Science, Technology and Management*, 5(4), 136-142.

Singh, G. (2016). Urban Metabolism of River Yamuna in the National Capital Territory of Delhi, India. *International Journal of Advanced Research*, 4(8), 1240-1248.

Singhal, R. and Singhal, A. (2016). Rising Future of Agile Software Development using Cloud Computing: A Study Using Cloud Computing in Different Phases of an Agile Method-SCRUM. *International Journal of Computer Technology and Applications*, 7(2), 240-246.

### **Journals Published by the College**

*Journal of Innovation for Inclusive Development* (ISSN 2456-4478, print and online), Journal of the Centre for Earth Studies

*CODE*, Journal of the Translation and Translation Studies Centre.

### **Teachers serving as Editor(s)/Member(s) of Editorial Board – 06**

#### **Research Projects**

University of Delhi, 2016-2017, "Contextualizing the Indian State in the Post Liberalized Era-A Study on the Perspectives of Welfarism in Policy Orientations." Rs. 1.2 Lakhs.

University Grant Commission, 2015-2018, "Subversion on the Margins: A Study of Folk Songs and Oral Narratives from the Regions of Bihar and Bengal." Rs. 7.5 Lakhs.

ICSSR, June 2014-2016, "Economic Reforms, The Growth in Metropolitan Middle Class and Democracy in India: A Case Study of the Attitude of Software Industry Workers in Noida." Rs. 5 Lakhs.

Indraprastha College for Women Oct., 2016-2017:

"An Audio Repository Mobile Application for Visually Challenged Students," Rs. 29,500/-

"Kobigaan: Change over Time and Across Boundaries," Rs. 30,000/-

"Parks, Places and Buildings: The Past in Delhi's Present," Rs 39,000/-

"Being a Mental Health Professional: A Psychological Enquiry," Rs 30,000/-

“The Impact of Compulsive Texting in Adolescents’ Well-Being and the Role of Personality Traits in Compulsive Behaviour,” Rs 30,000/-

### **Seminars Organised**

Prof. M. K. Pandit, Dean, Faculty of Science & Head, Department of Environmental Studies, University of Delhi on Intertwined Geophysical and Ecological Processes: A Case Study of the Himalayan Floral Divergence, 31 Aug. 2016.

Faculty Development Programme (FDP) on ‘Augmenting Research Using ICT,’ organised by the IQAC, I.P. College for Women, 17 Dec. 2016.

Faculty Development Programme (FDP) on ‘Public Opinion and Survey Research,’ organised by the IQAC, I.P. College for Women, 12-14 Jan., 2017.

Faculty Development Programme (FDP) on ‘Teaching and Research Innovation in Psychology,’ organised by the IQAC, I.P. College for Women, 14-20 March 2017.

### **Conferences Organised**

Women, State and Power: Reflections on Democracy, Department of Political Science, Indraprastha College for Women, 15-16 Sept., 2016.

Dilli: Perspectives on Delhi, Centre for Inter-Disciplinary Studies, Indraprastha College for Women, 06 Oct., 2016.

Hindi Mahotsav, in collaboration with Vani Foundation, 3-4 March, 2017.

### **Seminar/Conference Presentations**

Saraf, Babli Moitra.:

(2017) The Chalet and other Swiss Myths – Deconstructing Myths about Switzerland in the Popular Imagination. Swiss Plenary. XXVII International Federation of Modern Languages and Literatures (FILLM, UNESCO) International Congress, India International Center, New Delhi, 15-17 March, 2017.

Hindi Aur Videshi Bhashain: Samwad Aur Anuvad. Hindi Mahotsav. Indraprastha College for Women, University of Delhi and Vani Foundation, Delhi, 03 March, 2017.

Women at War: Subhas Chandra Bose and the Rani of Jhansi Regiment.” Panelist and Discussant, India International Center, New Delhi, 01 Feb., 2017.

Status of Protection of Women from Domestic Violence Act 2005 (PWDVA).” National Level Round Table Conference. Engagement of Men and Boys in Advocacy of Domestic Violence, Centre for Social Research. New Delhi, 31 Jan., 2017.

Globalisation and the Emergence of Indian Urban Middle Class Identity, V.V. Giri National Labour Institute, Noida, 08 Nov., 2017.

(2016) Translation, Memory, Circulation and Retrieval: A Case Study from South Asia. 5<sup>th</sup> Asia-Pacific Forum on Translation & Intercultural Studies, University of Hawai’I, Manoa, Honolulu, Hawaii, 28-30 Oct., 2016.

Framing a Curriculum. Conference on Engaging Men and Boys in Fight against Violence. Centre for Social Research and The Asia Foundation, New Delhi, 9 -10 Aug., 2016.

Alamelu, B.R. (2016) “Globalization and Education with Special Reference to Visually Impaired Women in India. Empowering visually Impaired Women in the 21Century: Challenges and Strategies.” All India Confederation of the Blind, New Delhi, 12-13 Nov., 2016.

Yogi, Manasvini M. (2016) Down the Memory Lane– The Cultural Memory of Ramlila. Memory, Commemoration and Communication: Looking Back, Looking Forward. International Association for Media and Communication Research Annual Conference, Leicester, United Kingdom, 27-31 July, 2016.

Gogoi, Mayuri. (2016) Empathy: The Foundation of the Value of Karma–Yoga (Right Action). The Empathy Project: 3<sup>rd</sup> Global Meeting, Mansfield College, Oxford, United Kingdom, 14-16 July, 2016.

Nandi, Monica M. (2016) Governance of Federal Capitals: A Case Study of Delhi. 6<sup>th</sup> Annual International conference, PSSIR 2016, PSSIR with GSTF, Singapore, 26-27 Sept., 2016.

Konwar, Papori. (2016) Women and Right to Food in India: The National Food Security Act in Perspective. 6<sup>th</sup> Annual International conference on Political Science, Sociology and International Relations, Global Science and Technology Forum, Singapore, 26-27 Sept., 2016.

### **Other Inter-Institutional Collaborations**

All India Foundation for Peace and Disaster Management; *Sahapedia*; Vani Foundation; Australian Research Council, University of Technology, Sydney, Australia; IGNOU-Katha; National Skill Development Corporation-Team Lease; International Board of Justice; I-MADE; NIDA School of Translation Studies; USIEF; Rio+; Golden Key International Society; National Museum; Hindustan Times; Enactus; Delhi Heritage Walks Book Club; International Award for Young People; Wildlife Rescue; Heritage Associates; Jaagruti; Daily Dump

### **Placement Details**

Students Placed – 77 (38.5%)

Companies visited campus for recruitment – 24

### **Extension and Outreach Activities**

Student Research Projects on “Survey of Students Enrolled in Non-Collegiate Women’s Education Board (NCWEB)” and “Happiness, Women and Ageing – A Comparative Study of Middle Age and Old Age Women” programme in Public – Queer and LGBT Awareness Programme with Alok Vaid-Menon. A Conversation with Ashley Judd was kept on ‘What’s on my Mind and Tell Me What’s On Yours?’ Legal Awareness Programme in collaboration with North-East Cell of National Commission for Women; Panel Discussion on ‘Race, Language, Culture: Locating the Northeast in India in collaboration with Control Arms Foundation of India (CAFI); Public Lecture: ‘Outbreak of Chikungunya and Dengue’ in collaboration with National Institute of Disaster Management, National Disaster Management Authority, Forever Living Products, Delhi and KamKus Clinic, London were organised.

Mock Drill on ‘Fire Safety Preparedness by Delhi Fire Service, Govt. of NCT of Delhi for the entire College Community was held and Anti-Cracker and Safe Holi Campaigns were organised. Heritage Walks and Public Lecture Series with Loktantrashala-School for Democracy were also organised. Implementation of Government of India Programmes on ‘Yaad Karo Qurbani,’ ‘Swachhata Pakhwada,’ ‘Vigilance Awareness Week’ and ‘Vittiya Saksharta Abhiyan’ was carried out; Braille menu for VH students; Visit of VH students to National Museum under Anubhav Programme

### **Library Development**

The college offers OPAC, UGC-NLIST, DELNET online services and Reprographic Service that includes Photo copying and printing service and Book Bank Service: Text books for EWS students. We also have PH/VH facilities and services that are fully accessible through Lift. The other features are special cubicles with computers, three-in-one Angel Pocket Daisy Player; Daisy Books (Talking books); Braille Books; Braille Magazines; Braille Reference Books – Dictionaries, Jaws enabled computers with scanner, Embosser (Braille Printer) and Lex-Air Camera (Print assisting device) with Notebooks.

### **Faculty Strength**

Permanent – 92; Ad-hoc – 71

### **Financial allocation and Utilization**

Grant sanctioned– Rs. 22,82,93,000/- (tentative on the basis of Revised Estimate)

Utilized – Rs. 27,87,95,000/- (actual unaudited expenditure)

### **Other Significant Information**

College celebrated its 94<sup>th</sup> College Day.

11<sup>th</sup> Annual Public Lecture by Prof. Yogendra Yadav was held in the college campus.

Music Society of the college was invited to perform at the Swedish Embassy on the occasion of the King's Birthday and Advent of Spring.

KG Hostel (70+ years old ) on IP Campus was renovated and extended.

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## **INSTITUTE OF HOME ECONOMICS**

### **Major Activities and Achievements**

Institute of Home Economics today occupies a premier stature amongst the Higher Educational Institutes in India disseminating meaningful, contemporary knowledge and education to women. The Institute was started in the year 1961 by Dr S Malhan, our founder director who had a vision for women's education. Over the years, it has grown from strength to strength and offers undergraduate courses in Home Science, Microbiology, Biochemistry, B.El.Ed as well as some of the Post-graduate courses. Two new courses has been introduced viz B.Sc. (Hons) in Food Technology and B.A. (Hons) in Journalism, this year. Institute has been awarded 'A' grade by the National Assessment and Accreditation Council (NAAC) in Nov. 2016. Institute was awarded with FIST grant (Funds for Improvement in Science and Technology infrastructure) from the Department of Science and Technology, Government of India and was selected for recognition and support in science teaching under the Star College Scheme by the Department of Biotechnology, Government of India. These recognitions and support are an eloquent testimony to the hard work and efforts put by our institute in imparting quality education to girl students.

### **Honours / Distinctions**

Dr. Harshita Chaudhary from Department of Fabric and Apparel Science and Dr. Sonal Gupta & Dr. Ritu Jain from Department of Food and Nutrition were awarded Doctorate Degree at the University of Delhi Convocation.

International Awards:

Dr. Nidhi Gulati was awarded Madonna and Michael Marsden International Travel Grant to visit US by the Popular Culture Association in Jan. 2017.

Dr. Nidhi Gulati was awarded Fulbright Distinguished Awards in Teaching (FDAT) Program, USIEF in Oct. 2016.

Mr. Pankaj Das was awarded Full Scholarship to present the paper in ACEID conference at Kobe, Japan in March 2017.

Ms. Sharmila Rathee was selected to participate at Youth Innovation Competition YICGG, 2016 at Fudan University, Shanghai in July, 2016.

Ms. Shraddha Chauhan and Dr. Bani T Aeri were selected for the Best Abstract Award (Travel Fellowship) for presenting paper , 'Role of Dietary and Lifestyle Modifications vis A vis Consumption of Any Specific Edible Oil in Management of Dyslipidemia' at the 38<sup>th</sup> European Society for Clinical Nutrition and Metabolism (ESPEN) Congress 2016 held in Sept., 2016 at Copenhagen, Denmark.

National Awards:

Ms. Shraddha Chauhan and Dr. Bani T Aeri were awarded Young Scientist Award for their research paper, 'Lipid lowering effect of canola oil vis' a vis' other commonly consumed oils among dyslipidemic adults' presented at the Annual Nutrition Society of India Conference held at Bangalore in Nov. 2016.

### **Students with Distinction**

Ms. Neha Shahid of B.El.Ed IV year secured 1<sup>st</sup> rank in the University.

Ms. Swati Yadav of M. Sc. in Fabric and Apparel Science secured 1<sup>st</sup> rank in the University.

Ms. Pallavi Katyal of Post Graduate Diploma in Dietetics and Public Health Nutrition secured 1<sup>st</sup>rank in the University.

Ms. Anjali Gaur won Gold medal in University of Delhi Taekwondo Tournament 2017 and National Junior Taekwondo Championship 2016.

Ms. Garima Tokas won a gold medal in University of Delhi Judo Tournament 2017.

Students bagged several medals in 'Dr. Bharat Ram Sports Meet'- Silver medal in Triple Jump and Long Jump and Bronze medal in 100 metres race by Pooja Chaudhary. A Bronze medal was won by Usha Dagarin in High-jump.

#### **Publications:** Total 63

Chaudhary, H., Gupta, D. and Gupta, C. (2017). Multifunctional dyeing and finishing of polyester with Sericin and Basic dyes. *The Journal of the Textile Institute*, 108(3), 314-324.

Kaur, B., Chanchal, and Arora, R. (2016). Protective Clothing: Requirement for wet processing of textiles. *International Journal of Science, Technology and Management*, 5(10),252-256.

Lalita, and Rekhi, T. (2016) Nutritional Contribution of Mid-Day Meal (MDM) as per Quantity norms at Upper Primary Classes in Delhi. *International Journal of Scientific and Research Publication*. 6(10), 60-76.

Magu, P. (2016) A study of urban kitchens constructed by Delhi Development Authority. *Journal of Civil Engineering and Environmental Technology* 3(9), 774-778.

Martineau et al., (2017). Effect of vitamin D supplementation on incidence of acute respiratory infection: systematic review and meta-analysis of individual patient data (AVID-ARI). *BMJ* 15, 356, i6583.

Soni, N., Chitra, A., and Parmar, M.S. (2017). Oil and Gas Industry: Review on Fire Hazards and Protective Textiles. *International Journal of Advance Research in Science and Engineering*, 1(6),:275-282.

Pannu, P., Kataria, D. and Aggarwal, S. (2016). Consumer Perspective towards Safety of Street Food. *DU Journal of Undergraduate Research and Innovation*, 2(2), 80-90.

Sharma, D. and Chanchal. (2016). Assessment of structural behavior of thermocool and polyester yarns. *International Journal of Scientific & Engineering Research*, 7(5), 642-45.

Sudha, Gupta, C., and Aggarwal, S. (2016). Dyeing wet-blue goat nappa skin with a microbial colorant obtained from *Penicillium minioluteum*. *Journal of Cleaner Production*, 127, 585-590.

Suri, M., Saini, N., and Gupta, S. (2017). Exploring the effect of yoga and diet counseling on dietary intake of college-going females. *International Journal of Physical Education, Sports and Health*, 4(1), 155-160.

#### **Teachers serving as Editor(s) Members(s) of Editorial Board – 06**

##### **Research Projects**

Dr. Geeta Trilok Kumar and Dr. Shipra Gupta, project funded by UK-India Education and Research Initiative (UKIERI), 'Statistical and epidemiological capacity building to enhance India-UK collaborations,' Rs. 53 Lakhs.

Dr. Savita Aggarwal and Dr. Geeta Punhani, project funded by UGC, 'Gender and Climate Smart Agriculture: Enhancement on Adaptive Capacity of Rural Women,' Rs. 15 Lakhs.

Dr. Seema Puri and Dr. Tejmeet Rekhi, project funded by University of Toronto, Canada, 'Consumer Acceptability Trials of Iron Fortified Tea.'

##### **Seminars / Workshops organised**

Seminar, 'The Role of Exercise Science on Health Awareness' organised in Feb., 2017.

International workshop, 'Applied Statistics for Health Researchers using STATA' organised in Nov. 2016 under UGC-UKIERI Thematic partnership: Statistical and epidemiological capacity building to enhance India-UK collaboration.

Two workshops -, 'Filmmaking: screen play and writing' and 'Filmmaking: Ideation and Production' were organised in association with Mr. Sanjeev Kumar, Director and Communication Consultant, Associate, Ministry of Information and Broadcasting and Ms. Akriti Suman, Director, Media Network Ltd., respectively in Aug., 2016.

Workshop, 'Ari Work Embroidery' by Mr. Balkrishnan and 'Fashion Illustration' by Mr. Sudhir Kumar organised in 2016.



Two day workshop, 'Techniques of Molecular Biology and Immunology' for providing hands-on experience to students organised in Aug., 2016.

### **Conferences Organised**

Conference, 'Comprehensive Early Childhood Care and Development: Health Care and Learning' organised in association with Indian Child Abuse Neglect & Child Labour (ICANCL) Group and Indian Academy of Paediatrics (IAP) organised in Nov., 2016.

### **Seminar / Conference Presentations**

Bhavna Negi presented a paper, 'A transition in childhood play: Exploring Children's Mental Wellbeing through Play areas in Malls' at 14<sup>th</sup> *International Humanizing Work and Work Environment 2016* at National Institute of Technology, Jalandhar held during Dec., 2016.

Bhupinder Kaur presented a paper, 'An Ecofriendly Approach for Wet Processing of Textiles' at the 2<sup>nd</sup> *International conference on 'Innovative Trends in Science, Engineering and Management'* at YMCA, New Delhi, India in Nov., 2016.

Divya Puri, Deepshikha Kataria and Vandana Sabharwal presented a poster, 'Effect of Curcumin addition on Stability of Cooking Oil' at the 25<sup>th</sup> *Indian Convention of Food Scientists and Technologists (ICFoST-XXV)*, organised by AFST (I)-HQ and Amritsar chapter at Guru Nanak Dev University, Amritsar, Punjab during Nov., 2016.

Divya Puri, Deepshikha Kataria and Vandana Sabharwal presented a paper, 'Enhancing Stability of Soybean Oil by addition of curcumin' at the *International conference on Development of Economies through Innovation and Sustainable Growth: Vision 2020* organised by Institute of Hotel Management, Catering and Nutrition and International Association of Research and Development Organization during Oct. 2016.

Pratima Singh presented a paper, 'Assessment of Indoor Air Quality in Air-Conditioned and Naturally Ventilated Schools in Delhi' at the 8<sup>th</sup> *International Conference on Children's Health and the Environment* organised jointly by the International Network on Children's Health, Environment and Safety (INCHES), the Institute of Environmental Assessment and Water Research (IDAEA) and Spanish Council for Scientific Research (CSIC) in Barcelona, Spain held during Sept. 2016.

Seema Puri presented a paper, 'Societies in Transition: Challenges for Dietetic Professionals' at the 17<sup>th</sup> *International Congress of Dietetics* at Granada, Spain held during Sept. 2016.

Pankaj Das presented a paper, 'Situational Analysis of the Vulnerability of Potential Dropouts: A Case Study of Indian schools' on seminar theme '*Education in the Age of the Anthropocene*' at University of British Columbia, Vancouver held during July 2016.

Sharmila Rathee presented a paper, 'Inclusive Education: What Social Psychological Perspectives can add to its conceptualization?' at the "European Conference on Education" organised by the International Academic Forum at Brighton, United Kingdom during 29 June to 3 July, 2016.

Akshima Sharma, Savita Aggarwal and Geeta Punhani presented a paper, 'Potential of ICTs for empowering rural women: A case study of Himachal Pradesh' at the *India International Science Festival 2016* at CSIR- Young Scientist Conclave held during Dec., 2016.

Bani T. Aeri invited as a Guest Speaker at the 24<sup>th</sup> *Annual Conference on Diabetes by the Delhi Diabetic Forum* in April, 2016 at Hotel Royal Plaza, New Delhi to speak on the topic, 'Low calorie sweeteners- A boon or bane.'

### **Other Inter-Institutional Collaboration**

Dr. Geeta Chopra conducted a training workshop, 'Screening and Early Detection – Introduction to a Screening tool' for programme managers and coordinators from Public Health Resource Network (PHRN) and its partner organisations working in the states of Bihar, Jharkhand, Odisha and Chhattisgarh in the month of Jan. 2017.

Dr. Kavita Vasudev in collaboration with Delhi Public School teachers from across India organised a lecture, 'Physical and motor development during first 6 years: Milestones & implications' at Delhi Public School, Dwarka, Delhi during Dec., 2016.

### **Placement Details**

Various organizations like Arohan, Freepathshala, GoBarefoot, MASH project group, Flywings stimulator, 24alife, Myrus Solutions, Internshala Teach for India and American Express organised their orientation programmes to interact with students for placements. Many schools like Heritage, Presidium, Lead Schools, Teacher City, DPS etc. also visited the institute for placements. Many B.El.Ed. students were shortlisted by schools in Delhi for teaching positions. The screening process is in progress. Nine students are placed so far. On campus placement drive was also conducted by Dr Shikha Sharmas NutriHeath, Inclen and VLCC for M.Sc. Food and Nutrition students in April 2016. Twenty students were offered job as dieticians at VLCC (6), Dr. Shikha Sharma's Nutrihealth (9) and INCLN (5).

In addition students were also placed through off campus placements by Ishi Khosla's Whole Foods (1), Centre for Chronic Disease control (1), Social Development and Promotion Center, Nepal (1), ILSI- India (2), Delhi University (1) and Gogia Chemical Industries (1).

### **Extension and Outreach Activities**

The College has initiated a project , 'Sanrachna,' an initiative to provide employment to underprivileged women and girls by providing them with the skills of making creative accessories from remnant clothes like bow pins, rubber bands, earrings, hand bands etc. These products were displayed for sale in various college fests.

Around 100 volunteers of NSS unit from the college actively participated in various activities that involved working with the community, markets, metro stations, NGOs, schools and college students. Events like Swachhta Pakhwara and Unity week were conducted to motivate general public regarding cleanliness of public places.

VISAKA campaign was organised to educate and mobilize shopkeepers of nearby markets for adopting digital payments. The NSS unit served as a forum for election office for getting voter cards made for students and other people of community. A Lab play school, Aarambhis, initiated by the college under the guidance of the Human Development Department in which various activities are conducted for the children.

### **Library Development**

The college has a fully computerized library with adequate infrastructure and a rich collection of more than 25,000 reference materials in the form of text/reference books, journals, thesis and periodicals. College subscribes to nearly 40 national, international and DU journals. A bar code system with smart cards and scanners is used for the circulation of books. Laptops are available to students for finding the location of books in library and accessing online resources made available by Delhi University.

### **Faculty Strength**

Permanent – 47

Adhoc – 56

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 16.11 Crore

Grant Utilised – Rs. 15.41 Crore

### **Other Significant Information**

College has started two new courses from the academic session 2017-18, namely, B. Sc. (Hons.) Food Technology and B.A. (Hons.) Journalism.

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## INSTITUTE OF HUMAN BEHAVIOUR AND ALLIED SCIENCES

### Major Activities and Achievements

IHBAS as an apex neuropsychiatric institute has been continuously working to expand the patient care services beyond the hospital based care to community. This has been achieved through the community outreach services in various parts of Delhi, awareness campaigns, active liaison with the NGOs, user and carer groups, RWAs and sensitization programmes to facilitate involvement of the various stakeholders. In addition community oriented programmes, programmes for school children such as poster competition, workshops, symposia were organised to increase awareness about positive mental health for prevention of neuropsychiatric illnesses; and the facilities available at the institute.

It was a year of awards for IHBAS, as the institute received the prestigious International 'Rose of parasalsus' Award and the Skoch award this year. IHBAS was awarded consolation prize in KAYAKALP, an initiative launched by the Delhi State Health Mission.

Two halfway homes/long stay homes were opened on 7 Feb., 2017 – Saksham A for women and Saksham B for men. This is the first government run home in a hospital campus to ensure that these patients are not neglected. Delhi State Legal Clinic, a unique initiative for the benefit of the patients, was inaugurated in IHBAS in October 2016. Five beds exclusive for Juvenile De-addiction have been added on 1 July, 2016. MD Psychiatry seats will be increased from 04 to 08 from the Academic Year 2017-18 onwards.

### Publications

Sinha, P., Desai, N.G., Prakash, O., Kushwaha, S., Tripathi, C.B. (2017). Caregiver burden in Alzheimer-type dementia and psychosis: A comparative study from India. *Asian Journal of Psychiatry*, 26, 86-91

Gourie-Devi, M., Gupta, R., Sharma, V., Pardasani, V., Maheshwari, S. (2017) An insight into death wish among patients with amyotrophic lateral sclerosis in India using Wish-to-Die Questionnaire. *Neurology India*; 65(1), 46-51.

Jha, D.K., Chaturvedi, M., Jain, M., Arya, A., Kushwaha, S. (2016). Delayed Presentation of Atlanto-Occipital Dislocation with Fracture of Adjoining Bone (AODF) with Diagnostic Challenge: Report of Two Cases. *Indian J Neurotrauma*, 13, 124-127.

Jha, D.K., Pandey, P., Jain, M.K., Arya, A., Kushwaha, S., Kumari, R. (2016). Clinical methods of spinal level localization in lumbar and lumbosacral spine surgeries through posterior approach. *J Spinal Surg*, 3(2), 1-6.

Jha, D.K., Thakur, A., Tripathi, C.B., Jain, M., Kumari, R., Chaturvedi, M., Arya, A. (2016). Upper Airway Dimensions in North Indian Population: A Possible Guide to Appropriate Length of Laryngoscope Blade. *Indian J Neurotrauma*, 13, 88-93.

Mishra, R., Kar, S. K., Goyal, P., Kumar, D., Sinha, U K, Gupta, S. K. (2016). Gender identity disorder in an adolescent boy: an attribution of adverse childhood experience. *Journal of Indian Association of Child & Adolescent Mental Health*, 12(4), 336-344.

Tripathi, C.B., R. Kumar., R. C. Sharma, R. Agarwal., (2016). Assessment of performance of service in a tertiary care Neuropsychiatric Institute using Pabon Lasso Model. *Asian J Med Sci.*, 7(6), 69-74.

Gautam, V., Gupta, R., CNS tuberculosis: diagnostic challenges and review of recent laboratory investigations. *International Journal of Medicine*, 5(1), 56-61.

Pant, I., Chaturvedi, S., Gautam, V.K., Pandey, P., Kumari, R. (2016). Extra-axial medulloblastoma in the cerebellopontine angle: Report of a rare entity with review of literature. *J Pediatr Neurosci.*, 11(4), 331-334.

Gupta, A., Mirza, S, Khurana, S., Singh, R., Chaturvedi, S., Singh, B. Enigmatic weak D antigen: an experience in a tertiary care hospital of East Delhi. *J Clin Diagn Res.*, 10(6), 12-15.

Sharma, S., Tabassum, F., Khurana, S., Kapoor, K. (2016). Frontline Workers' Perception of Medication Safety in India. *Therapeutic Advances in Drug Safety*, 1-13 doi: 10.1177/ 2042098616665290

Sarbjee, K., Shweta, S. National mental health program of India: A review of the history and the current scenario. *Int J Community Med Public Health*, 3(10), 2696-2704. doi: <http://dx.doi.org/10.18203/2394-6040.ijcmph20163191>

## **Research Projects**

Department of Neurology (Sep 2016): Completed the World Federation of Neurology (WFN) Project *Saving the Brain- Proposal to increase awareness of Thrombolysis (Acute Stroke Management) among General Physicians, Health Care Workers and in the Community.*

## **Patents Filed / Granted**

Jha DK.:

Indigenous neuroendoscopic working sheath for intra-ventricular surgeries. The patent office journal; application no. 201711007375 a; publication date : 24/03/2017.

Wooden spinal model for teaching and training. The patent office journal; application no.201711007374 a; publication date : 24/03/2017.

Single blade retractor for spinal surgery. The patent office journal. Filed on 1<sup>st</sup> june 2016; application no. 210611018817; publication date : 10/06/2016

Single blade vertebral spreader for anterior cervical discectomy. The patent office journal. (filed on 17.08.2016; application no. 201611027957 a; publication date: 02.09.2016

**Faculty strength – 38**

## **Library Development**

Library & Information Centre enables learning and advancement of knowledge to promote academic & research activities of the Institute. Library has developed an updated collection of books, periodicals, annual reports in the area of mental health and neurosciences. Approximately 279 new titles on different subjects were added to the library holdings and 144 scientific journals (85 Foreign & 46 Indian) were subscribed during the year. WHO resources (Print) under Global Subscription has also been subscribed in order to facilitate the users during the year. Library & Information Centre subscribed to Karger E-resources Package with 17 e-journals series and five e-books series, i.e. from 1998 to 2017.

## **Financial Allocation and Utilization**

Grant sanctioned – Rs. 9000.00 Lakhs

Utilised – Rs. 7784.21 Lakhs

## **Extension and Outreach work**

IHBAS as apex neuropsychiatry institute has, since its inception in 1993, strived to expand the patient care services beyond the hospital based care to community. Various kind of community based initiative being under taken by IHBAS:

Community Outreach Services under District Mental Health Programme:

Community Outreach Initiatives for Homeless Population

Community Awareness Activities

Liaison with User and Carer Groups

Efforts at Communitization for in-patient at IHBAS

Mobile Mental Health Unit (MMHU)

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## JANKI DEVI MEMORIAL COLLEGE

### Major Activities and Achievements

Janki Devi Memorial College is a college that strives to make a difference in the lives of its students and create an excellent resource base for society at large. The college was founded in 1959 by the famous Gandhian Mr. Brij Krishan Chandiwala, in memory of his mother Smt. Janki Devi, in order to promote women's education. In recognition of the changing global scenario, the college has altered its priorities and perspectives which is amply reflected in the syllabi and curricula. A research facility which has around ten computers and a printer has been created for faculty members and also for the Career Counseling Cell. Avani, the Environment Club of college was involved in collecting relief for GOONJ and participated in a Swacchta March to the local councilor's office. JDMC has become an e-waste collection centre, the only one in the neighborhood! organisedThe GSC-JDMC is pleased to announce that the Peace Research Institute, Oslo, one of the premier institutions engaged in Peace and Conflict Resolution Studies in the world, has offered to sponsor one student enrolled in the GSC-JDMC Peace and Conflict Studies Course for the prestigious International Summer School, at the University of Oslo, Norway from June 24.

### Honours / Distinctions

The college has received an International Felicitation by WAGE (Women's Agency for Generating Employment) for its green practices and was awarded a 'Green Campus Award' for a clean and pollution free Campus on 8 March 2017.

Dr. Swati Pal has received a Lifetime Achievement Award for outstanding contribution in the area of educational planning and administration besides gender development, by WAGE.

Dr. Deepshikha Shahi was awarded Post-doctoral Research Fellowship by Käte Hamburger Kolleg, University of Duisburg-Essen, Germany.

Dr. Rajshree Chandra was awarded International Research Collaborative Award by the Law Society Association, USA in Sept. 2016.

Dr. Saumya Gupta has received a Charles Wallace India Trust Research Grant, 2017 and Association for Asian Studies Grant for participating in AAS- in -Asia Conference, in Seoul called 'Beyond Borders and Boundaries.'

### Students Distinction

Four students have received a laptop each at a competition held at AICB. Ten students received scholarships from the Vice Chancellors Fund University of Delhi, Help the Blind Foundation (Chennai) and two received from the UP Government.

Neha Chaudhary of B.A. (Hons.) Mathematics II year received goodyear merit scholarship for her academic records.

Shaalka of B.A. (Hons.) History I year student received the 'Excellence in Education Award' from the Directorate of Education, Government of NCT of Delhi in 2016.

Amrit of B.A. (Hons.) English III year secured gold medals for karate at national championships.

Akanksha Verma of B.A. (Hons.) English II year secured first prize in HEROX International Competition (Paper Writing) for two consecutive years. She teamed up with Saurabh Hans of IIT Hyderabad to work on these papers.

Shrusty Pradhan from the B.A (Hons.) Sociology III year was selected and participated in the training programme, "Education for Sustainable Development Leadership Training" organised by UNESCO in association with TERI. She also participated in the International Youth Leadership Training and Empowerment Programme (IYLTEP) organised by Research for Adult and Child Education (RACE), Odisha at Skill Development Training Complex, Copenhagen, Denmark.

Nimsha Devi of B. Com (Prog.) II year won over a dozen awards for her classical Odissi dance performances in different inter-college competitions.

### Publications Total – 85

Arora, P. (2016). Musician's musical faculty and environment. *Vageeshwari – Journal of Faculty of Music and Fine Arts*, University of Delhi. ISSN 0975-7872.

Chandra, R. (2016). Understanding change with (in) Law: The Niyamgiri Case. *Contributions to Indian Sociology*,

50(2). Doi [10.1177/0069966716635395](https://doi.org/10.1177/0069966716635395)

Khushoo, B., Dey, D., Kumar, M. And Dass, B. (2016) Kupy-Neev Hash Function. In *Italian Journal of Pure and Applied Mathematics*.

Megha, M. (2016). Women and Healthcare in colonial times: A Focused Study of the CDA (1860-1940). *International Journal of Studies in History and Culture*. 2(2) ISSN NO: 2349 0934.

Shahi, D. (2016). Engaging with the Post-secular moment in Post-9/11 Afghanistan: The search for a humanist political discourse. *Cambridge Review of International Affairs*, ISSN: 0955-7571.

#### **Books:**

Chandra, R. (2017). Farmers' Rights in India: Globally Sui Generis. *South Asia Chronicle*, Focus: Law in Context: Case Studies from India.

Gupta, S., Kumar, C. and Riamei, L. (2017). Understanding global politics. *Knowledge World*.

Nagpal, P. (2016) *William Shakespeare's Macbeth*. New Delhi: Worldview Publications, ISBN: 978-93-82267-23-2.

Sharma, R. (2016) मृच्छकटिककेस्त्रीपात्र. 'Sanskrit Sahitya Parisheelanam-Delhi Sanskrit Academy, ISBN:-978-93-83636-14-3

Shahi, D. (2017). Understanding Post-9/11 Afghanistan: A Critical Insight into Huntington's Civilizational Approach. *E International Relations Publishing, Bristol: UK*. 2017, ISBN 978-1-910814-25-3 (paperback) ISBN 978-1-910814-26-0 (e-book)

### **Teachers serving as Editor(s) / Member of Editorial Board – 03**

#### **Research Projects**

Dr. Saumya Gupta, project funded by Indian Council for Social Science Research (ICSSR) and Japan Society for the Promotion of Science (JSPS), , Ideas of Food and Body in South Asia: Analyses of Cookbooks form the Medieval Times to the Present.

#### **Seminars / Workshops organised**

Seminar, 'Gender in Women's Writing in English,' by Prof. Eiko Ohira from Tsuru University, Japan.

Seminar, 'Is there an Indian Secularism?' by Prof. Akeel Bilgrami, the Sidney Morgenbesser Professor of Philosophy at Columbia University.

Seminar, 'Struggles of Manual Scavenging' by Mr Bezwada Wilson, Magsaysay Awardee organised on 29 Sept., 2016.

Lecture series on 27 Sept., 2016: Prof. Aditya Bhattacharjea (Delhi School of Economics) on the topic 'Economics of Competition Policy'; Dr. Rajat Kathuria (Director and Chief Executive, ICRIER) on the topic 'From Voice to Data, The Revolution Within'; Dr. Farzana Afridi (Indian Statistical Institute) on the topic 'Why is Women's Labor Force Participation is Declining in India'.

Dr. Vijay Nath Memorial Lecture, 'Caste System' by Prof. Vinay Srivastava organised on 27 Oct., 2016.

#### **Conferences Organised**

International Conference, "प्रवासीसाहित्य: भाव और विचार" organised in the college.

Department of History, in collaboration with Gandhi Smriti and Darshan Samiti (an autonomous body under Ministry of Culture, Government of India) organised a one day National Conference, 'Dynamics of Indian Culture: Past, Present and Future with special emphasis on Baa and Babu' on 27 March 2017.

Department of Philosophy under the aegis of Indian Council of Philosophical Research organised three days National Conference, 'Tribes of the North East: Exploring, Identities, Culture, Politics and Philosophy'. during 9 to 11 March 2017.

#### **Conference Presentations**

Perna Arora presented a paper, 'Changing Scenario of Performance Practices in Indian Music' at the International Seminar ceremony organised by Faculty of Music and Fine Arts during 16 March, 2016.

Ruchika Bhatia presented a paper, 'Re-negotiating Caste and Gendered Spaces in a Graphic Novel: A Study of a gardener in the wasteland: Jyotiba Phule's Fight for Liberty' at the 24<sup>th</sup> European Conference on South Asian Studies, University of Warsaw, Poland held during 27 to 30 July, 2016.

Saumya Gupta presented a paper, 'The Nation and Its Kitchen: Dietary Diktats from Hindi Recipe Books' British Association of South Asian Studies Annual Conference, Fitzwilliam College, University of Cambridge, UK held during 6 to 8 April, 2016.

Indu Jain presented a paper, 'Resisting and Negotiating Traditional Representational Legacies: Anamika Haksar's: Antar Yatra' at the International Federation for Theatre Research, Stockholm held during June, 2016.

Mridul Megha presented a paper, 'Body Politic: Sexuality, Health and Hygiene in Colonial India (1860-1930)' at the INTCESS 2017- 4<sup>th</sup> International Conference on Education and Social Sciences, Istanbul, Turkey held during 6 to 8 Feb., 2017.

Puja Pal presented a paper, 'Social Security for Workers in India's Informal Economy since the Early 1990: An Analysis of Welfare Board in the Construction Sector' at the International Conference on Labour Questions in the Contemporary Global South, Harare held during 16 to 20 Jan., 2017.

Naiyer Azam presented a paper, 'Muslim Women Discourses in Aligarh Movement and Sir Syed Ahmad Khan' at the National Seminar on "Islam in India: Politics, Society and Culture" held at Arab Cultural Centre, Jamia Millia Islamia, New Delhi during 15 to 16 Dec., 2016.

Rahul K Maurya presented a paper, 'Reason, Truth and Knowledge' at the National Conference on "Contemporary Epistemological Issues with Special Reference to the Contributions of Alvin I Goldman" held at Lucknow, Uttar Pradesh during 18 and 19 Jan., 2017.

**सीमा शर्मा जामिया मिलिया इस्लामिया विश्वविद्यालय** (20 जुलाई-9 अगस्त, 2016) यू.जी.सी. –मानव संसाधन विकास केंद्र द्वारा आयोजित पुनश्चर्या कार्यक्रम आपदा प्रबंधन (अंतर्विभागीय) पेपर प्रस्तुति: हिन्दी सिनेमा में अभिव्यक्त आपदा का स्वरूप

### **Other Inter-Institutional Collaborations**

Collaborated with Bhartiya Anuvaad Parishad for conducting a Certificate Course in Translation.

Organised a three days National Conference, 'Tribes of the North East: Exploring, Identities, Culture, Politics and Philosophy' in collaboration with Indian Council of Philosophical Research (ICPR) held during 9 to 11 March, 2017.

Collaborated with Gandhi Smriti and Darshan Samiti and organised National Conference, "Dynamics of Indian Culture: Past, Present and Future with special emphasis on Baa and Babu" held during 27 March, 2017.

### **Placement Details**

Students Placed – 132 (55%)

Companies visiting campus for recruitment – 06

(Concentrix, Aon Hewitt, Genpact, EY, Universal Data Solutions and FIS Global Services IND Pvt. Ltd.)

### **Extension and Outreach Activities**

Thrust areas of Extension and outreach societies were Gender Sensitization, National Integration, Social Harmony, Disaster Management and Environment Enrichment. JDMC organised various activities in and around these issues to develop a sense of responsibility, humane attitude and sensitivity towards fellow human beings in its students. To name a few:

NSS organised the International Yoga Day on 21 June 2016 at the college and five of our volunteers participated at the camp held in the university. The NSS unit also took out a march along with the volunteers from Avani and visited the office of the local MLA to create a sense of cleanliness amongst the students and the public at large. In collaboration with TRAX a road safety workshop was organised to create a sense of responsibility in the students about the hazards of walking on the roads with the headphones, not wearing the seat belt and helmet while driving.

Swachhta Pakhwara was held in the college from 16 Aug. to 1 Sept. 2016 and the volunteers not only cleaned the college but also the surrounding areas around the college. A blood donation camp was organised in collaboration with Blood Connect and DDU Hospital on 28 Sept. 2016. Around 50 students donated blood. Student volunteers participated in Pink Marathon organised by BLK hospital to create awareness about cancer and Salwan Marathon to help school students with disabilities to run at the marathon. Participation in Salwan Marathon is a regular feature of the NSS cell. NSS and NCC volunteers of the college participated in the Vishaka Campaign of MHRD. The students have not only become enlightened and aware about digital modes of payment but have also organised and visited various markets, NGO's, neighbourhood slums to create awareness among the public about digital modes of payment. Two volunteers Shivani Chauhan and Kritika Dhuliwal have been appointed as SVEEP Ambassadors of the college and administered a voters pledge on the 25<sup>th</sup> Jan., 2017 to the students, teachers and administrative staff alike.

### **Library Development**

The college has a fully computerized library with adequate infrastructure and a rich collection of more than 1273 reference materials in the form of text/reference books, journals, thesis and periodicals. College subscribes to nearly seventy one journals and magazines. A bar code system with smart cards and scanners is used for the circulation of books. Laptops are available to students for finding the location of books in library and accessing online resources made available by Delhi University. E-Resource: Subscription to analyst database through INFLIBNET

### **Faculty Strength**

Permanent – 78; Ad-Hoc – 77

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 28.61 crores

Utilization – Rs. 28.21 crores

### **Other Significant Information**

Under the students exchange programme, Pratyasha Ghosh attended the Peace and Conflict Studies certificate course sponsored by Peace Research Institute, University Oslo during the months of June and Aug. 2017. The college conducted a 'Tree Census and Labelling' project which aimed to number and identify all the trees present on the college campus in an effort to raise awareness about the on-campus flora and its importance to the students. This small initiative became the launch pad for the first ever 'Green Audit,' which was co-organised with the help of various faculty and students of AVANI - The Environment Club.

The college canteen has been completely reconstructed and renovated and is now an attractive and comfortable place to be in with a brand new caterer providing wholesome meals

Avani has also completed the Green audit of the college. National Service Scheme (NSS) team organised blood donation camps, participated in the Swachhta Pakhwara, visited the office of the local MLA to create a sense of cleanliness amongst the students and the public at large.

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## **JESUS AND MARY COLLEGE**

### **Majors Activities and Achievement**

During the year 2016-17, the College witnessed growth and evolvment in various spheres of academics and sports, extra-curricular and social outreach activates. One of the major highlights was the visit of His Holiness, The Dalai Lama (Nobel Laureate) to the College on 7 Feb., 2017. He addressed a huge gathering of students and staff and enlightened us on "Compassion, Mercy and Universal Responsibility" which was followed by an Interactive session. Another landmark achievement in the College's relentless endeavor to excel in academics and



education was the launch of the JMC International e-Journal. The JMC Review: An Interdisciplinary Social Science Journal of Criticism, Practice and Theory on 29 July, 2016.

### **Honours / Distinctions**

Dr. Renny Thomas was awarded with International Research Grant, American Academy of Religion (AAR), New York, USA to work on Ayudha Puja: Machines, Rituals and Religion (2016-17)

Dr. Renny Thomas became member of Association for the Sociology of Religion, New York, USA (2016-17).

### **Students with Distinction**

Ananya Pattnaik, Sociology was awarded the Best Journalist ZESTMUN.

Teertha Iska, Sociology was adjudged the Outstanding Sports Player for the year 2016-17 at the Egypt International Tournament 2016.

Sergeant Shruti, NCC was selected in Delhi Directorate's Basketball Team in NCC National Games, 2016.

### **Publications**

Marwah, R. (2016). Buddhism in Nepali and Sri Lankan Perspective in Prapin Manomaivibool and Chih – Yu Shih Relations. *Bangkok : Asia Research Center* , (pp 71-100), Thailand: Chulalongkorn University .

Nandhi, M.A. (2016). Role of Micro Credit in Risk Coping and Consumption Smoothing in Rural India. *Microfinance Review*, 8(2), 67-82.

Ramaswamy, S., Mukherjee, S. (2016). *Theoretical Foundations of Comparative Politics*. Hyderabad: Orient Blackswan. ISBN 978-93-86296-30-6

Thomas, R. (2016). Being Religious, Being Scientific: Science Religion and Atheism in Contemporary India. *Yiftach Fehige(ed) Science and Religion*: East and West London: Routledge. ISBN: 978113866813-3

### **Seminars/Workshops Organised**

International:

Seminar, "India- UK Relations" was organised on 24 March 2017. The eminent speaker was Hannah Cockburn, Head of Political and Bilateral Affairs, UK High Commission, New Delhi.

Seminar, "Economics Survey" was organised on 18 April 2017.

Lecture Series, "Modernisms in South Asia" was organised on 11 Jan. 2017. The eminent speaker was Prof. Saurabh Dobe, Centre for Asian and African Studies, El Colegio de Mexico.

National:

UGC National Seminar, "India's Development Challenges: Ideas for the Next Generation" was organised on 28 March 2017.

UGC National Seminar, "The Stranger's Case: Outriders, Aliens and Others" was organised by Department of English on 13<sup>th</sup> Oct, 2016

### **Seminar / Conference Presentations**

Nilima Chitgopekar presented paper, "Shiva: The Reluctant Family Man" at *Kean University, New Jersey, USA* in June, 2016.

Renny Thomas gave a talk, "Beyond Conflict and Complementarity: Science and Religion in Contemporary India" at *University of Manchester, UK* on 2 July, 2017.

Mani A. Nandhi presented paper, "Innovative use of Micro Credit Groups to Food Security and Employment Generation: A Case Study of Amma Unavagans from the state of Tamilnadu, India" at *International Conference at Copenhagen Business School, Denmark* held during 7 to 9 July, 2016.

Sushila Ramaswamy presented paper, “India’s Crisis of Governance : Women’s Perspective, in Quotas for Women : A Recipe to Reduce Gender Inequality (RC 19.10)” at 24<sup>th</sup> World Congress of the International Political Science Association (Politics in a World of Inequality) at Poznan, Poland held during 23 to 28 July, 2016.

Amita Paliwal presented paper, “Bio-diversity: Current Scenario and Future Strategies” at St. Bede’s College, Shimla during 6 to 8 Oct., 2016.

Richa Raj presented a paper , “Alternatives to Educating the Empire: A Study of the Nationalist Response to Colonial Education in Punjab, 1890 – 1930” at 4<sup>th</sup> South Asian History International Conference at Punjab University, Patiala held during 7 to 9 Oct., 2016.

Molly K.A. presented a paper, “Our Culture Our Identity : Mapping the Cultural Pattern in the Life of Gaddi Tribe of Himachal Pradesh” at Two – day International Conference at Salesian College, Sonada, Darjeeling held during 14 to 15 March, 2017.

Nilmia Chitgopekar read paper, “Building Synergies through Digitization” at ASEAN Conference in collaboration with Ministry of External Affairs at Jakarta, Indonesia in Jan., 2017.

Maya John read paper, “Class Societies and the Urban Rape Phenomenon : Understanding Vulnerability, Culpability and Complicity in Contemporary Times” at the National Conference on Women in a Changing World at Indian Association of Women’s Studies, Chennai held on 23 Jan., 2017.

Amrita Sastry presented paper, “Changing Gender Roles in Contemporary Times” in International Conference on Gender Equality and Women’s Empowerment: Dimensions, Directions and Challenges at Department of Sociology, Jai Narayan Vyas University, Jodhpur, Rajasthan during 23 March, 2017.

### **Other Inter-Institution Collaboration**

Initiated add on course “Corporate Communications and Public Relations” in collaboration with Focus Learning Group.

Initiated add on course “Financial Management” in collaboration with Focus Learning Group.

Initiated add on course “Media Studies” in collaboration with R.K. Films & Media Academy

Initiated add on course “Sports and Event Management” in collaboration with SEDA (Sports Education Development Australia).

### **Placement Details**

75 companies visited for campus recruitment and 73 students have been placed.

### **Extensions and Outreach Activities**

Road Safety Awareness Programme was organised by the History Department on 5 and 10 April, 2017.

On 8 March, 2017 to commemorate International Women’s Day, JMC’s Women’s Studies Centre hosted a Public Cultural Meeting of South Campus Colleges’ WDCs and Women’s Organizations.

Workshop on “Problems and Prospects of the Sexual Harassment at Workplace” was organised in collaboration with RAHI Foundation in Feb., 2017

Cleanliness Drive was organised by NSS on 24, 29 and 30 Aug., 2016.

### **Library Development**

The Library acquired 748 books during 2016- 2017. During the year, 95 Journals have been subscribed to, out of which 79 are National Journals and 16 are foreign Journals. The total collection of the Library books has augmented to 53458 books i.e. 47055 General Books + 4975 Donated Books + 1428 Book Bank. The Library is also enrolled for N-List (INFLIBNET) Programme during the year where user can easily access 6000 e- journals and 97000 e-books. The total budget for library development this year was Rs. 11.22 Lakhs.

### **Faculty Strength – 131**

### **Financial Allocation and Utilization**

Grant sanctioned for Non-Plan – Rs. 25.34 Crore

Utilized – Rs. 24.38 Crore

### **Other Significant Information**

The JMC Review is an interdisciplinary refereed e-journal published annually by Jesus and Mary College, University of Delhi. It is a journal of criticism, practice and theory. It covers a range of disciplines including anthropology, cultural studies, economics, education, english studies, history, international relations, philosophy, political science, psychology and sociology. Its aim is to provide an interdisciplinary platform for scholarly debates and exchange of ideas.

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## **KALINDI COLLEGE**

### **Major Activities and Achievements**

College was accredited with “Grade A” by NAAC (National Assessment and Accreditation Council). A Memorandum of Understanding (MOU) was signed between IBSD - Kalindi Centre for Women Entrepreneurship in North East and the Kalindi College and the North East Centre was inaugurated by Dr. Najma A. Heptulla, Governor of Manipur. The college has been able to increase its infrastructure significantly by completing twenty six infrastructure projects. Four National Conferences were organised by the Departments of Sanskrit, Mathematics, Sciences and Journalism. Forty eight students of the college have secured 100% marks and 625 students have secured 95% to 99.5% marks in various papers of different streams. Five Innovation Projects funded by DU, 04 major projects, 02 each funded by IUAC and NASI were successfully completed. Under ISR initiatives, college students assisted the Class XII students of the nearby government school, in their preparation for the Board Exams.

### **Honours \ Distinctions**

Dr. Anula Maurya, Principal of the college, conferred with “Lifetime Achievement Award” for outstanding contribution in the area of educational planning and administration and gender development on the occasion of International Women’s Day 2017.

Dr. Arti Singh has received “Award for College Lecturer 2015-16” from Directorate of higher Education, Government of Delhi.

Ms. Anuradha Kotiyal was awarded “Youth Icon Award” from the then Uttarakhand Chief Minister-Mr. Harish Rawat.

Dr. K. Vandana Rani completed Master of Research Course in Advanced Genomic and Proteomic Sciences in School of Biosciences, University of Nottingham, U.K. 2016.

### **Students with Distinction**

Tapsi Bansal of B.A. (Hons) Journalism secured 5<sup>th</sup> rank in the University.

Shubra Sharma of B.A. (Hons) Journalism secured 8<sup>th</sup> rank in the University.

Himani of B.A. (Hons) Journalism secured 11<sup>th</sup> rank in the University.

Nisha of B.A. (Hons) Journalism secured 12<sup>th</sup> rank in the University.

Pinky of B.A. Programme won a bronze medal in 1<sup>st</sup> TIA Open Taekwondo International Championship for outstanding players.

Bharti Khaushik of B.Sc. Life Sciences won a gold medal in Inter College Tournament.

Rakhi of B.A. Programme won a bronze medal in Open Delhi State Competition for Judo.

Deepika Singh of B.A. Programme won a silver medal in the International Powerlifting Championship, a gold medal in Inter College Tournament and a bronze medal in Delhi State Competition.

### **Publications**

Arora, N. and Banati, H. (2016). Multi objective group search optimization approach for community detection in networks. *International Journal of Applied Evolutionary Computation (IJAE)*, IGI Global Publishers. 7(3), 50-70.

Kapoor, N. (2016). Electronic Initiatives in corporate Governance: A Study of Shareholder's Perspectives in India. *Journal of IMS group*, 13(2), July -Dec..

Kumar, M., Sahu, N., Robertson, A.W., Boer, R., Behera, S., DeWitt, D.G., Takara, K. and Singh, R. B. (2016). Probabilistic Seasonal Streamflow Forecasts of the Citarum River, Indonesia, Based on General Circulation Models. *Stochastic Environmental Research and Risk Assessment*, Springer, doi: 10.1007/s00477-016-1297-4.

Mishra, R.R. (2016). Genetically Modified Plants: Boon or Bane? *Everyman's Science*, 50(5), 320-324.

Rajni. (2017). Associating Knowledge Management to Human Resource Management: A Conceptual Study. *Innovate Journal of Social Sciences*, 5.1.

Singh, V., Priyam, M., Tripathy, M. and Rai, U. (2017). Purification and identification of 25-hydroxycholesterol in a reptile: Seasonal variation and hormonal regulation. *General and Comparative Endocrinology*. 1(247),130-137.

Verma, V.K., Rani, V.K., Sehgal, N. and Prakash, O. (2016). Prevention of histopathological damages in the liver, spleen and kidney of *Channa punctata* infected with *Aeromonas hydrophila*. *DU Journal of Undergraduate Research and Innovation*. 2(1), 227-232.

### **Seminars Organised**

International Seminar, 'Globalization and Federal Governance in India' organised during 19 and 20 Jan. 2017.

International Conference, 'Spatial Decision Support Systems for United Nations Sustainable Development Goals' organised during 1 and 2 Feb. 2017.

International Seminar, 'Sanskrit Literature and Human Values' in collaboration with Delhi Sanskrit Academy to commemorate the Golden Jubilee celebration organised during 2 and 3 March 2017.

International Seminar, 'सोशलमीडियामेंसाहित्यकाबदलतास्वरूप' sponsored by Hindi Academy, Government of Delhi organised during 9 and 10 March 2017.

UGC sponsored National Seminar, 'Theatre and Dramaturgy in Modern Perspective' organised by the Department of Sanskrit on 10 and 11 Aug. 2016.

### **National \ International (MoUs)**

Memorandum of understanding (MoU) with the Institute of Bioresources and Sustainable Development, Imphal, Manipur, to set up an IBSD-Kalindi Centre for Women Entrepreneurship in North East at Kalindi College.

NSS unit of the college signed an MoU with IIT Delhi for the INDIAN ROAD SAFETY CAMPAIGN - IRSC, a National Project with the maxim to inculcate significant Road Safety and prohibit catastrophes on roads.

MoU with Dainik Jagran, Noida for B.Voc (Printing Technology) and Sisoft Technologies for B.Voc. (Web Designing).

MoU signed with R K Films & Media Academy for Add-on Courses on "Video Production" and "Photo Journalism"

MoU signed with *Englitude Academics* for Add-on Course on Communication Skills & Personality Development.

MoU signed with Aeris Communications India Pvt Ltd., NOIDA, UP for making of Smart Identity Card.

MoU signed with Hero Solar Energy Pvt Ltd. for Solar Photovoltaic Power Plant.

### **Placement details**

Students placed – 56

Companies\Industries visiting campus for recruitment – 06

### **Extension and Outreach Activities**

IQAC collaborated with Baba Ramdev Sarvodaya Kanya Vidyalaya, Prasad Nagar and initiatives were undertaken to provide students with the required academic support. A Sensitization Workshop, “Caring for Elderly” was conducted on 6 April 2016 by the NSS Unit of the College. NSS volunteers visited Arya Mahila Vridh Ashram, Rajender Place, New Delhi and spent an entire day with the elderly. NSS street play team performed various programs at Mandi House and India Gate to awaken the people with a satirical representation of the social menaces. An Organ Donation Awareness Camp was organised in collaboration with Organ India on 13 Aug., 2016. Ms. Sunayana Singh (CEO-ORGAN India) addressed the college on the intricacies of Organ Donation.

During Digital Financial Literacy Campaign (*Vittiya Saksharta Abhiyaan*) the NSS volunteers implemented colossal awareness by educating students in campus and invigorating the Digital Financial Literacy at Tank Road market. Passport Awareness Camp delved into providing notable information in reference to the Passport procedures. Health Camp and Awareness Talk on the Subjects of Cancer and Narcotics, and Polycystic Ovary Syndrome were conducted on 28 Feb., 2017 in association with the Zoology department and Anti-Tobacco Cell of the college.

### **Library Development**

Library resources increased during the year 2016-17 and the total collection of the library reached up to 79,759 books including Book Bank and Student Aided Fund books. At present, the library subscribes to 101 magazines/journals and 15 newspapers in English and Hindi languages on different areas of interest.. The library has a web centre for access of e-resources, separate reading room for consultation purposes and photocopy facility for the students and staff. The remote login access of e-resources through N-List login ID is also provided by the library.

### **Faculty Strength**

Permanent – 81; Ad hoc – 87

### **Financial Allocation and Utilization**

Grant Sanction– Rs. 23.85 crores

Grant Utilized – Rs. 25.25 crores

### **Other Significant Information**

On the occasion of Golden Jubilee of the college, a hawan ceremony was organised on 20 July, 2016 in the TRI Block of the college. It was attended by present and retired teaching and non-teaching staff, students, and also by the alumni. Mr. Deepak Marwah, Chairman Governing Body, blessed the students and congratulated all. A special Logo for the Golden Jubilee was also released. Several other programs were organised for celebrating Golden Jubilee of the college.

Department of Physical Education celebrated the Golden Jubilee of the College from 13 to 16 Feb. 2017. Golden Jubilee Invitational Inter-College Tournaments were organised which included Ball Badminton, Futsal, Kabbaddi, Table Tennis, Volley Ball, Yoga and Sports Quiz. Chess and Carrom. Mr. Manish Sisodia, Deputy Chief Minister, Delhi was the Chief Guest and Mr. Bipin Tiwari, coordinator, EOC, University of Delhi, was the Guest of Honour.

NCC organised UDAAN festival on 20 Feb., 2017. Chief Guest was Mr. Bikes Chandra Bose Ex-deputy General NCC. Colonel VS Dhankar, Dy. Chief Administrative Officer, Ministry of Defense was the Guest of Honour. Around twenty three colleges of University of Delhi participated. Department of English organised a Film Festival on disability on 22 and 23 Feb. 2017. Ms. Shalini Khanna, Hony. Secretary/Director, NAB India Centre for Blind Women and Disability Studies was the Chief Guest of the occasion.

Economics Department organised a National Level Paper Presentation Competition “Battle of Young Minds” on the topic “Are We Ready for Digital India” on 28 Feb. 2017. Other events included Battle of Entrepreneurs, Connectonomics, Magazine cover Designing, Photography and Ad Mania. The closing ceremony of the Golden Jubilee Celebrations were held on 18 April 2017 and this day marked the beginning of a new era of the College.

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## KAMALA NEHRU COLLEGE

### Major Activities and Achievements

Established in the year 1964, Kamala Nehru College has completed 50 glorious years of imparting quality education and thus making a meaningful contribution to society. The college has been accredited with 'A grade' (CGPA 3.33) by National Assessment and Accreditation Council (NAAC), an autonomous institution of University Grants Commission (UGC). The college ranks among the top ten colleges of the University of Delhi according to the Cumulative Grade Point Average (CGPA) awarded to University of Delhi colleges by NAAC till Feb., 2017.

### Honours / Distinctions

Ph.D. Awards:

Dr. Albert Abraham and Dr. Carmel Christy from Department of Journalism; Dr. Shubhra Sinha from Department of History; Dr. Shivani Datta and Dr. Itisha Nagar from Department of Psychology; Dr. Suman Arora, the college Librarian were awarded with their Doctoral Degree

National Awards:

Dr. Sushma Choudhary was awarded "Sanskrit Samaradhak Samman" in Aug., 2016 by the Delhi Sanskrit Academy.

### Students with Distinction

Sangeeta Choudhary secured I position in the Triathlon Race championship in 2016.

Tanuja secured I position during the Delhi State Athletics Meet 2016.

Cricket team of the college participated in the 1<sup>st</sup> Kalpana Chawla Memorial Women's Cricket Tournament 2016 and secured I position.

Pinki and Kalpana participated in the Women's Triangular Series 2016-17 as a member of Lucknow team and secured I Position.

Football team of the college was the winner of CII Football Tournament 2016.

Farida secured Gold and Neetu secured Silver medal in 44 Kg weight, Nasreen & Soumya secured Bronze medal in 52 Kg weight & Shama secured Silver medal in 63 kg weight category in LSR Dr Bharat Ram Sports Meet 2016.

**Publications** –Total number of books: 5, Publications in Journals: 20, and Chapters in Books: 8

Agrawal, A. (2016). GST in India: Necessity vs feasibility. *Companies Act 2013 and Goods and Services Tax (GST) in India*, ISBN No. 978-93-83047-91-8

Arora, S. (2017). *Assessing information needs: A case study of faculty members*. New Delhi, Delhi: Book Age. ISBN No. 978-9383281-66-4.

Bhakuni, K. (2016). *Appraisal of natural scenery in Kumaon Himalaya: A resource perspective*. New Delhi, Delhi: RK Books.

Bhakuni, K. (2016). *Community-based ecotourism & livelihoods in Kumaon*. New Delhi, Delhi: RK Books.

Bhakuni, K. (2016). Issues and challenges of sustainable tourism in Nainital. *Sustainable Smart Cities in India*, New Delhi, Delhi: Springer India Pvt. Ltd.

Bhardwaj, R. (2016). Personality, stress and coping resources among working women. *Indian journal of health and wellbeing*, 7 (9) ISSN No: 877-883

Gautam, P. (2016). A new common tripled fixed point result in two quasi partial b-metric spaces. *British Journal of Mathematics & Computer Science*, 13(2) ISSN: 2231-0851

Khanna, S. (2016). A commentary on Derrida's essay 'Structure, Sign and Play in the Discourse of the Human Sciences'. In Anjana Neira Dev (Ed.) *A Critical Reader for Literary Theory*, . New Delhi, Delhi: Pinnacle Learning.

Singh, A. (2016). Inside Out: Autobiography, History and the Comic Form in Malik Sajad's 'Munnu: A Boy from Kashmir.' *Cafe Dissensus*.

Journal Published by the College: *Akademios*: The tenth issue of *Akademios* marked a decade of the multidisciplinary research journal of Kamala Nehru College. Since 2016-17, the journal is peer-reviewed, ensuring the highest

standards of research. It was co-edited by Namita Paul and Amrita Singh from the Department of English and the Hindi section was edited by Sushma Sehrawat from the Department of Hindi.

### **Seminars / Workshops Organised**

Seminar, 'Women in Indian Knowledge Tradition: Philosophy, Spirituality, Nature and culture' organised in Feb. 2017.

Seminar, 'Marketing in the New Era- Blogger's View' was organised in July 2016.

Department of Commerce organised three workshops namely: 'Intellectual Property Rights' and 'Entrepreneurial Outlook Development' and 'Personal Tax Planning and E-filing of Income Tax Return' during the academic year 2016-17.

An inter-college workshop , 'Digital Empowerment of Society for Panchayat Level Planning and Governance' was organised.

A Camera Workshop was organised by the Department of Journalism for its third year students during the month of Oct. 2016.

Snapshots, the Photography Society of the College in collaboration with Pearl Academy, Delhi, organised a workshop on the theme of 'Portrait Photography' on 9 Nov. 2016.

### **Conferences Organised**

Conference, 'Himalayan Perspectives- Land, People and Resources' organised during 12 April 2016.

International Symposium, 'Pilgrimage and Ritual: Philosophical Reflections on Religion and Culture' organised on 30 July 2016. Dr. Paul Donnelly and Ms. Jennifer Hunter from Department of Comparative Cultural Studies, North Arizona University, Flagstaff (Arizona, USA) as the speakers.

### **Seminar / Conference Presentations**

Alka Agrawal presented a paper, 'Services Sector in India: Issues and Prospects' at the 3<sup>rd</sup> International Conference on the theme "Booming Service Sector: From Achievements to Growth Prospects" held at GGSCC, University of Delhi in 2016.

Jyoti Dhawan presented a paper, 'CSR Doing Right Things The Right Way' in the "IOD:11th International Conference on Corporate Social Responsibility" held during 20 and 21 Jan.. 2017 at Bengaluru.

Soma SenGupta presented a paper, 'Eco-Tourism in Ecologically-Fragile Zones of India – A Social Marketing Approach' at the 33<sup>rd</sup> International Geographical Congress (IGC) held at Beijing (China) during 21 to 25 Aug. 2016.

Jyoti Raghavan presented a paper, 'Media coverage of Business Scams' at the "Comicono Crunch Series-2", organised by the Department of Business Economics, Gargi College on 18th Oct., 2016.

Pragati Gautam presented a paper, 'Some New Coupled Fixed Point Theorems in Two Quasi-Partial b-metric Spaces' during the International Conference on "Differential Geometry, Algebra and Analysis" held at Jamia Millia Islamia from 15 to 17 Nov., 2016.

Pragati Gautam presented a paper, "Coupled Fixed Point Theorem in Two Quasi-Partial b-metric Spaces with Same Coefficients" during the International Conference on "The Indian Mathematics Consortium (TIMC)" organised in collaboration with American Mathematical Society (AMS) held at Banaras Hindu University, Varanasi, India from 14 to 17 Dec., 2016.

Sushma Choudhary presented a paper , 'Paryavaran suraksha sanskrit sahitya ke pariprekshya mein' in a National Seminar organised by Rashtriya Sanskrit Sanstha, Bharti College, University of Delhi and Kalidasa Academy of Sanskrit Music and Fine Arts during 13 and 14 Feb., 2016.

Sushma Choudhary presented a paper , 'Sanskrit Shastron Ka Adyayam: Mahavidyalyon Ke Vishisht Sandarbh Me' in a Nation Seminar organised by the Department of Sanskrit, University of Delhi during 11 and 12 March, 2016

संगीता वर्मा, विश्वविद्यालय अनुदान आयोग द्वारा आयोजित 'बदलता भारतीय परिदृश्य और स्वातंत्र्योत्तर हिंदी नाटक' विषय पर आयोजित दो दिवसीय राष्ट्रीय संगोष्ठी में 12-13 फरवरी 2016 को भाग लिया तथा 'समकालीन रंगमंच: हिंदी बाल नाटकों की रंगमंचनीयता के सन्दर्भ में' विषय पर शोध - आलेख प्रस्तुत किया।

### **Other Inter-Institutional Collaboration**

Toni McLaughlan from University of Delaware, USA was a visiting faculty as a part of a collaborative programme with English Language Fellow (ELF) programme of the Regional English Language Office (RELO, American Embassy).

The Canadian High Commission of India in association with the Department of Political Science, Kamala Nehru College organised an interactive panel discussion on 'Economic Independence and Skilled Empowerment: Is it the Way Forward?' in Feb., 2017.

### **Placement Details**

Students placed – 54

Companies visiting campus for recruitment – 10

### **Extension and Outreach Activities**

Department of English conducted remedial classes in English from Aug. to Nov. 2016. The classes were held for 2-3 hours per week. The teachers constructed their plans based on the needs, aptitude, interests and requirements of the students in each group.

Department of Geography organised a field excursion to Jabalpur and surrounding areas in Madhya Pradesh from 17 to 22 Sept. 2016 in order to sensitize students with the culture of that area.

The Equal Opportunity Cell and Enabling Unit of Kamala Nehru College aims to make a meaningful contribution to society. Students and faculty of the cell visited families of disabled children in Janak Puri to interact and help them. The team visited UNNATI, a multipurpose rehabilitation centre situated in Shyam Vihar, Najafgarh area on 22 Dec. 2016.

NCC cadets participated during the Republic Day celebrations and the college annual day celebrations. Cadets started the mission to clean the college and its surroundings under the Swachh Bharat Abhiyan Campaign during the month of Oct. 2016. International Yoga Day celebrations were organised during 21 June 2016, wherein several NSS and NCC cadets participated. 16 Aug. 2016 marked the beginning of the 'Swachhta Pakhwara,' a special fortnight campaign. NSS day was also celebrated in the college premises on 24 Sept. 2016. The theme for the day was Drug Abuse.

Women Development Cell in association with Goonj organised clothes collection drive for flood victims in the month of Aug. 2016. WDC donated 225 school kits as part of *Joy of Giving* initiative, the money for which was raised through a donation drive in College.

### **Library Development**

The college library is fully automated which is connected with one server and eleven clients of Local Area Network. Two computers are equipped with Internet facility so that the teachers and students may have access to electronic archives from the college premises, provided by University of Delhi, like Jstor, Project Muse etc. The prestigious DELNET (Developing Library Network) facility is provided to all users. Library added more than 2135 titles during the year 2016 and the total collection of books reached 94871, along with 394 CDs and 592 DVDs. In addition 77 Journals /Periodicals (62 in English and 15 in Hindi) and 11 Daily Newspapers (7 in English /4 in Hindi) are being subscribed to for the benefit of students and staff. Book Club activities were organised for developing guided reading habits among students.

### **Faculty Strength**

Permanent – 93; Ad-hoc – 69



### **Financial Allocation and Utilization**

Grant Sanctioned – Rs 21.71 crores

Grant Utilized – Rs 29.09 crores (Deficit amount has been sanctioned, but yet to be received)

### **Other Significant Information**

Several Faculty Development Programmes (FDPs) were organised:

‘Qualitative Research in Social Sciences’ organised during 23 to 30 July, 2016 by Department of Commerce.

‘Demonstration of open source GIS-QGIS’ organised during 9 Jan., 2017 by the Department of Geology.

‘Mentoring the Young Adult’ was organised on 9 and 10 Aug., 2016 by Dr. Anjana Srivastava and Namita Paul of the Department of English, to train the faculty members of Kamala Nehru College how to guide and mentor students in an effective manner. This

Equal Opportunity Cell of the college organised a mentoring workshop, ‘Interview Facing Communication Skills’ for the third year students during the month of Nov., 2016.

Nupur, the Dance Society of the college organised a workshop, ‘Odissa - The Aesthetics’ under the guidance of Guru Madhumita Raut in the month of Sept., 2016.

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## **KESHAV MAHAVIDYALAYA**

### **Major Activities and Achievements**

Keshav Mahavidyalaya was ranked 15th amongst the top 200 colleges of India under NIRF ranking. The college has recently introduced a certificate course on radio broadcasting with Dr. Anjali Thukral as the course coordinator. The course comprises of 40 hours duration and has been designed in consultation with Mr. R.K. Singh as Consultant (Technical and Program) and Delhi University Community Radio (DUCR). Non-Collegiate Women’s Education Board (NCWEB) was established which allows women students to study on Saturdays and during vacations.

### **Honours / Distinctions**

Dr. Divya Haridas received the Meritorious Teacher Award from the Directorate of Higher Education, Government of the NCT of Delhi.

Dr. Pardeep Kumar was elected as Academic Council member of University of Delhi for the year 2016-18.

Dr. Divya Haridas along with her student Harshit Goyal of B.Tech Electronics poster was selected for display during the Convocation Ceremony of the University of Delhi held on 19 Nov., 2016. A Certificate of Appreciation was also awarded to the team.

### **Students with Distinction**

Naman Sharma of B.Sc. (Hons) Mathematics received Rai Bahadur Brijmohanlal Saheb Memorial Gold Medal, Mr. Suresh Bhatia Memorial Gold Medal and Dr. J.N.Mitra Memorial Prize during the Convocation Day Ceremony of University of Delhi.

Harshit Goyal, Rohit Bharti and Ridhima Bhandari of B.Tech Electronics were awarded I prize of Rs. 1000/- cash for their poster, ‘To design a chemical filter capable of reducing emissions of SO<sub>2</sub> and NO<sub>x</sub> from vehicular pollution’ presented at Acharya Narendra Dev college, Innovation Conclave held during 25 and 26 Oct. 2016. Aditya of B.Sc. Computer Science II year secured II position in Princess Cup, Thailand Open in March 2017.

Sarthak Kataria secured I position in Delhi University Inter College Taekwondo Championship 2016-17.

### **Publications**

Arora, P. and Arora, H. (2016). Bank characteristics, ownership and profitability of commercial banks: panel evidence from India. *International Journal of Services and Operations Management*, 26(3), 347-364.

- Bansal, A. and Kumar, A. (2016) Heisenberg uncertainty inequality for Gabor transform *J. Math. Inequal*, 10(3), 737-749.
- Gupta, R. and Sehgal, P. (2016). A survey of attacks on iris biometric systems. *International Journal of Biometrics*, 8(2), 145-178.
- Jindal, V. and Bedi P. (2017) Reducing waiting time with parallel Preemptive algorithm' vanets. *Vehicular Communications Elsevier*, 7, 58-65.
- Pandit, S. (2016). Household Level Consumption in India: A study using NSS Unit Level data. *International Journal of Humanities and Social Studies*, 4(11), 6-12.
- Sharma, V.K., Madan, D. and Kapoor, A. (2016) High Extinction Ratio and Short Length Surface Plasmon Polariton Polarizer. *IEEE Photonics Technology Letters*, 28(14), 1541-1544.
- Sharma, N. (2016). Optimizing the power required in hyperthermia treatment using magnetic nanoparticles. *International Journal of Control and Automation*, 9, 181-188.
- Singh, M. (2016). Dalit Text as Testimony: A Conversation with Bama. *Indian Literature*, 59(3), 23-44.
- Singh, A.K., Shankar, G. and Sachdeva, A. (2016). Provision of Work Life Practices And Their Impact on Work Life Balance And Life Satisfaction: An Empirical Study Among Educationists. *Journal of Positive Psychology*, 4(1), 59-72.

### **Seminars Organised**

Seminar , 'Ushering a Creative Revolution: From Ideation to Innovation' organised on 21 Feb. 2017 as part of Cognizance 2017.

### **Seminar / Conference Presentations**

Surinder Singh presented a paper, 'Comparison of Participation time of Wrestler and Boxer' at the "National Conference on Yoga for Holistic Health" held at Babasaheb Bhimrao Ambedkar University, Lucknow on 29 Aug., 2016.

Virender Yadav presented a paper, 'Sant naamdev ke manavtavaad itathajyaati sambandh vichaar' at the International Conference on "Bhakti aandolan main sant charitaakyan manavtavaad aur jyati sambandh vichaar" held at ShyamLal College University of Delhi during 21 and 22 Oct., 2016.

Daisy Sharma presented a paper, 'Spirituality and ageing: Implications for psychological well-being of the elderly' at the "National Conference on Perspectives of Successful Ageing" held at Mata Sundri College for Women, University of Delhi on 23 and 24 Sept., 2016.

Ritu Arora presented a paper, 'Linear Fractional Bilevel Programming Problem with Multi choice Parameters' during the "National Conference on Algebra, Analysis, coding and Cryptograph" organised by Department of Mathematics, University of Delhi held on 14 and 15 Oct., 2016.

Singh presented a paper, 'Analyzing the Reliability and Mean Time to System failure of complex system Models by using Algebraic Method Technique' during the National Seminar on "Recent Advances in Mathematics and its Computational aspects" organised by Department of Mathematics, Shaheed Mangal Pandey Govt. Girls P.G.College, Meerut, UP from 11 to 12 Nov., 2016.

### **Placement Details**

Students placed – 13

Companies visiting campus for recruitment – 08

### **Extension and Outreach Activities**

A tree plantation drive was organised and held in various districts from 1 to 7 July, 2016. Several students participated in the event and they achieved the target of planting 600 saplings in the following locations: Sampurna NGO, sector 9, Rohini; Working Women's Hostel, sector 9, Rohini; Kendriya Vidyalaya, sector 11, Rohini. Members of Rotract club of Keshav Mahavidyalaya volunteered to be a part of World Polio Day grid formation at

Hindu College, University of Delhi on 24 Oct. 2016. Rotary District along with Rotract District organised Kashmir to Kanyakumari, Cycling Rally. This Cycling Rally was the first of its kind on a national platform for all the cyclists and other people.

The Rotract club of Keshav Mahavidyalaya organised a visit to Sparsh: a school for special children at Rohini Sector-5, on 28 Oct. 2016 to celebrate Diwali with the children. The club also organised a Book Donation Drive in the college premises. The books collected were donated in the orphanages.

Saksham – A literacy project was organised at the Aashima Foundation, an NGO situated at Deepali Chowk Rohini. Students from the club visited daily to the NGO to teach basics of computers to the children.

A cancer awareness programme, namely ‘A walk of life’ was also organised on 5 Feb., 2017.

### **Library Development**

1051 books were added across different disciplines during the academic year 2016-17.

### **Faculty Strength**

Permanent – 47; Ad-Hoc – 53

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs.13.91 Crores

Grant Utilized – Rs. 12.847 Crores

### **Other Significant Information**

The Environmental Club is developing a Herbal garden in the college for growing herbs in a sustainable way. Two compost pits were made in the college premises for disposing the campus green and food waste and this is used as manure for growing healthy plants in the garden.

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## **KIRORI MAL COLLEGE**

### **Major Activities and Achievements**

Kirori Mal College, established in 1954, is one of the leading institutions of higher learning constituent to the University of Delhi for all academic and administrative purposes. In a journey spanning over six decades, the college has evolved from its humble beginning to a bustling institution catering to thousands of students across the country. Set up in the Nehruvian model of ‘a temple of higher learning for the spread of modernity,’ the college continues to cherish its ideal of a providing an excellent yet affordable higher education to a large social cross-section of students as befitting a public-funded institution. The College has recently been accredited with NAAC A<sup>+</sup> Grade, with a commutative CGPA score of 3.54. An Alumni Meet with Mr. Amitabh Bachchan was arranged in Mumbai to fuel the effort towards renovating the college auditorium and hoisting the flag of myriad academic credentials. Recently the hostel block was completely renovated and repaired, with new facilities for students; library facilities were revamped with new reading rooms and increased capacity for books; Wi-Fi enabled Campus; renovation of the college gymnasium; renovation of Common rooms, for both boys and girls; facilities for differently abled students, in the form of ramps, angel recording system, Hindi Braille software etc.; a mini Academic Auditorium; renovation and repair of the canteen premises; a new committee room for meetings and other activities; a new examination cum evaluation centre etc.

### **Honours / Distinctions**

PhD. Awards:

Dr. Amit Kumar Suman from Department of History was awarded Doctorate degree from University of Delhi

#### International Awards:

Dr. Amit Kumar Suman was awarded with the fellowship of the Transnational Research Group *Poverty and Education in India* at the German Historical Institute, London, UK, 2017

Dr. Seema Joshi represented India in APO's project, funded by Ministry of Foreign Affairs Japan, on multi-country Observational Study Mission on Industrial Human Resource Development for Women held at Tokyo, Osaka and Kyoto (Japan), from 3 to 7 April, 2017

Dr. Seema Meher Parihar is the Member Advisory Board of European Centre for the Study of Extremism, Cambridge, England, United Kingdom.

#### National Awards:

Dr. Anita Kamra Verma was awarded with fellowship of SBMLS (FBMLS) for outstanding contribution in the field of "Nanotechnology" by *The Society of Biomedical Laboratory Scientists, India*

#### Students with Distinction

Simran Arora of B.Sc. (Hons) Mathematics III year secured I position in the University examinations.

Krunal Bipin Gedia of B.Sc. (Hons) Physics III year secured I position in the University examinations.

Lakshay Verma of B.Sc. (Hons) Statistics III year secured I position in the University examinations.

Kshitiza Mohan Dhyani of B.Sc. (Hons) Zoology III year secured I position in the University examinations.

Shery Grover of B.Com. (Hons) Statistics III year secured Ist position in University examinations.

Basketball team (girls) secured II position in Ramjas Tournament and KMC Invitational Tournament.

Basketball team (boys) secured II position in Inter College Basketball Tournament and Hansraj College Invitational Tournament and I position in SRCC Invitational tournament and Siri Fort Open Tournament.

Kritika Solanki and Priyanka Khandelwal bagged the III position in All India University (Korfbal).

During the Inter-college tournament of Boxing of University of Delhi, college secured all over second position in the competition with 3-Gold, 2-Silver and 1-Bronze.

Pardeep won Gold medal in Inter-College boxing tournament and bronze medal in India Inter University Boxing Championship.

Dishu Sharma won Gold medal in Inter-College boxing tournament.

Sahil Kataria, Harshit Mongia and Saurabh Chaudhary won Silver medal in Inter College boxing tournament.

Manoj Pal won Bronze medal in Inter College boxing tournament.

#### Publications

Joshi, S. (2017). Demonetization: A Bold Economic Decision in the National Interest. *PHD Chamber Bulletin*, 39 (1): pp 97-98.

Joshi, S. (2017). Youth Development in India: Trends and Policy Responses. In *Development, Sustainability and Happiness: Perspectives and Challenges for Youth 2025*. New Delhi: Prabhat Pankaj Bloomsbury Publishing India Pvt. Ltd..

Joshi, S. (2017). Raising Female Labour Force Participation to Face the Challenges of Ageing Societies. *Productivity News, National Productivity Council, New Delhi*. 54(02), 33-36.

Joshi, S. (2017). Enabling Environment a must for Closing Gender Gap in Japan. *PHD Chamber Bulletin*. 39(07), 44.

Khan, M.A. (2016). Hum Udas Hain (Nazm). *Dabistan-e-ilm-o-Adab*, Budgam, Kashmir: SarulAdab Publications.,

Khattar, D. (2017). *Qualitative Aptitude*. Pearson Publications (4<sup>th</sup> Revised Edn.).

Khattar, D. (2016). Predictive Control of Rabinovich System. *Watam Press: Journal of Nonlinear Systems and Applications*, 5(3), 90-94.

Khattar, D. (2017). Reduced Order Multi-Switching Hybrid Synchronization of Chaotic System. *Journal of Mathematical and Computational Science*, 7(2), 414-429.

Sharma, N. and Singh, R.K. (2016). A Review of World Science Report, 2010: Emerging Challenges in Contemporary Context. *Indian Journal of Life Long Learning & Educational Guidance*, 3(1).

## Teachers serving as Editor(s)/Member(s) of the Editorial Board – 03

### Research Projects

Dr. Amit Kumar Suman, project funded by Indian Council of Social Science Research in April 2017, , ‘Colonial Policies on Education and Centres for Indigenous Learning’ for Two Lakh.

Dr. Seema Mehra Parihar, project funded by Indian Council of Social Science Research in April 2017, , ‘Mapping Geospatial Dimensions of Hydropolitics in Jammu and Kashmir’ for Eight Lakhs.

Dr. Benu Gupta, project funded by Ministry of Youth Affairs and Sports in the year 2016, , ‘Psychological Profile and Performance Sustainability with Omission of Inequality of Indian Athlete: An analytical Study’ for Ten Lakhs.

### Seminars Organised

Seminar , ‘Media Aur Swasth Samaj’ organised on 5 April 2017.

### Seminar/Conferences Presentations

Amit Kumar Suma presented a paper , ‘Colonial State, Education and Indigenous Knowledge Systems in the Bengal Presidency’ in an International Seminar on “Dialectics of Education: Comparative and International Perspectives” at CIE, Department of Education, University of Delhi on 18 Feb. 2017.

Praveen Kumar Anshuman:

Presented a paper, ‘Spaces of Phonetic Legacy in Human World: Reflecting Upon the Forgotten Aspects’ in a UGC sponsored National Seminar on “Exegesis of Space in Literature and Culture” organised by the Department of English, SGND, Khalsa College, University of Delhi, on 9 and 10 Feb., 2016.

Presented a paper, ‘The Idea of Language, Culture and Re-narration of ‘Nation’: A Reading of Osho’s Insights’ presented in an International Seminar on “Post Independence Indian Literature and Culture” held at Special Centre for Sanskrit Studies, JNU on 28-29 Sept., 2016.

Presented a paper, ‘Transgendered Humanity of ‘Nowhere’: A Critique of Myopic Sensibility’ presented in a UGC sponsored National Seminar on “Trans(gendered) Lives: Praxis of Silence and Exclusion” held at the Department of English, SGND, Khalsa College, University of Delhi, on 9 and 10 Feb., 2017.

Presented a paper, ‘Re-imagined the Esoteric World with Today’s Popular Culture: Introspecting into Osho Rajneesh’s Crafts’ presented in a UGC sponsored National Conference on “Imagining the Indian Popular: Globalization and its Discontents” held at Department of English, Zakir Husain Delhi College (Evening), University of Delhi, on 3 and 4 March 2016.

Seema Joshi:

Presented a paper, ‘Infrastructural and Institutional Challenges Constraining Growth of India,’ in an “International Conference on Energy and Infrastructure Management” organised by School of Petroleum Management, Pandit Deendayal University at Gandhi Nagar, Gujarat on 18 and 19 Feb., 2016.

Presented a paper, ‘Female Workforce Participation in India: Policies, Problems and Prospects’ during the “APO Project on: Female Workforce Participation and Productivity Enhancement” held at Tokyo, Japan on 5 to 7 April 2016.

Presented a paper, ‘Higher Education Sector in India: Challenges Ahead’ in the 17th IASSI Annual Conference on “Education and Development: Issues, Challenges and Opportunities” organised at Centre for Research in Rural and Industrial Development, Chandigarh on 9 and 10 Dec., 2016.

Presented a paper, ‘Youth Development in India’ in the Fourth International Conference on “Youth 2025: Harnessing Youth for Development, Sustainability, and Happiness: Imperatives and Challenges for SAARC and Emerging Asian Countries (ICHYDSH-2017)” held at Jaipuria Institute of Management on 17 and 18 Feb., 2017.

Presented a paper, ‘Alternative Pathways to Empower Women’ in the APO’s Project on “Multi-country Observational Study Mission on Industrial Human Resource Development for Women” held at Tokyo, Osaka and Kyoto, Japan, during 3 to 7 April, 2017.

### **Placement Details**

Students Placed –101(35% )

Companies visiting Campus for recruitment – 25

### **Extension and Outreach Activities**

The NSS team of the college initiated project, SAHYOG, wherein student volunteers taught nearly 80 underprivileged children. The team also started a project, SAHAS in order to empower and uplift underprivileged children. DARPAN, nukkad natak group of NSS unit, worked for the awareness of social issues in the society. A seminar was conducted to facilitate information to students about Swachh Bharat Abhiyan and the fortnight events under “Swachhta Pakhawra” from 16 Aug., to 1 Sept., 2016.

### **Library Development**

The college has a fully computerized library with adequate infrastructure and a rich collection of around 1,46,839 reference materials in the form of text/reference books, journals, thesis and periodicals. The college has a total of 5,897 of book bank collection. A total of 2,162 books were added with 38 angels and 75 notebooks for visually handicapped. The total budget estimated was Rs. 16,46,010/- from which an amount of Rs. 1,29,001/- was used for library development and Rs. 88,914/- for I-card expenses. The summary of expenditure was given out to be Rs. 5,28,095.

### **Faculty Strength**

Permanent – 148; Adhoc – 60

### **Financial Allocations and Utilization**

Grant Sanctioned – Rs. 45.42 crores

Grant Utilized – Rs. 43.79 crores

### **Other Significant Information**

The National Assessment and Accreditation Council (NAAC) awarded the college with (Grade A<sup>+</sup>) and 3.54 CGPA.

Ten students have been awarded with New Outlook (Annual Magazine) Award.

Five students have been awarded N. S. Pradhan Award.

Two students have been awarded Dr. N. Subrahmanyam Award.

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## **LADY IRWIN COLLEGE**

### **Major Activities and Achievements**

Lady Irwin College is committed to interdisciplinary education and capacity building of young women in developmental and professional education. The college has the distinction of being the first college with postgraduate and doctoral courses of study in University of Delhi. The undergraduate programme was introduced in 1950, followed in 1952 by the first postgraduate programme, a Bachelor's degree in Education. The undergraduate programmes in Home Science included both Pass and Honours courses under the aegis of the Faculty of Science, University of Delhi. Subsequently, postgraduate programmes have been initiated in each of the specializations of Home Science. Several faculty members of the college continue to support society by active engagement with the Boards of Studies of several universities in the country, SCERT, NCERT and CBSE. The faculty of the college actively participates in consultations to government and nongovernmental organizations, national and international, such as the UN, regarding policy and planning for higher education in general, and the specializations of Home

Science in particular. Many of our highly qualified faculty members have received national and international recognition for their teaching, research and publications. They lead and participate in research projects by institutions such as the UGC, the ICSSR, and designated government departments, national and international agencies.

### **Honours / Distinction**

Dr. Suchi Gaur received the Young Scientist Award and has excellence in her Doctoral Research Work

### **Students with Distinction**

Srishti Sinha was awarded with B. Tara Bai Award for securing I Position in M. Sc. Food & Nutrition II year.

Sonakshi Goel was awarded with Sanjam Randhawa Award for I position in M. Sc. Fabric and Apparel Science II year.

Shruti Pokhriyal was awarded with Child Development Alumni Award for I position in M. Sc. Human Development and Childhood Studies II year.

Bidisha Das was awarded with Durga Deulkar Award for I position in M. Sc. Developmental Communication and Extension II year.

Nisha Jha and Somya Bathla were awarded with B. N. Aindley Award for highest marks in B. Ed. Home Science and B. Ed Special Education respectively.

Jasmine Kochar secured 1st position in Post graduate Diploma in Dietetics and Public Health Nutrition.

Yamini Gusain was awarded with Subashini Memorial Award for securing I position in B. Sc. (Hons) Home Science.

Shrishti Purohi has received College Award for securing I position in B.Tech. Food Technology.

### **Publications**

Anand, S. and Kumar, A. (2016). *Dynamics of Human Communication*. New Delhi: Orient Blackswan Pvt. Ltd., ISBN-978-81-250-6325-4

Goel, S. (2016). *Management of Resources for Sustainable Development*, New Delhi: Orient Blackswan Pvt. Ltd., ISBN-978-81-250-6349-0

### **Research Projects**

Four DU Innovation projects were continued.

Dr. Ravinder Chaddha and Dr. Renuka Pathak, project funded by UGC, , 'Prevalence and risk factors of metabolic syndrome among young BPO employees in NCR: Development of lifestyle management program focusing on its modifiable risk factors' (2013-2016).

Dr. Puja Gupta, project funded by Department of Science and Technology (DST), , 'Capacity building of youth regarding energy management for sustainable development' (2013 onwards).

### **Seminars / Workshops Organised**

Seminar, 'Interdisciplinary Approaches to Disability Studies'

Seminar and Workshop, 'Waste Management: Perspective and Challenges' organised by Department of Resource Management and Design Application and Eco-club of the college.

The Kamla Puri Sabharwal Annual Lecture was held on "Improving Woman and Child Nutrition in India, Past Efforts, Current Focus and Future Challenges."

The Department of Communication Education organised a workshop on Cyber Security.

A lecture on Muslim Personal Law in India was delivered by Prof. Umar Riyaz (Former Chairperson, Governing Body, Lady Irwin College).

The Department of Fabric Apparel Science in collaboration with the Office of Development Commissioner (Handlooms) and ACASH, Ministry of Textiles organised a three day Handloom Utsav.

### **Conferences Organised**

Third National Conference on Learning was organised by Department of Education, 'Education and Culture' on 20 April 2017.

### **Seminar / Conference Presentations**

"Leisure and Wellbeing among urban youth in India: Conflicts, Negotiations and Resolutions in the International Sociology Association, Vienna

Students with specific learning disabilities at university level: Insight into their challenges and issues at International Conference for teaching and organised by International Journal of Arts & Sciences" (IJAS) held at Harvard Medical School, Boston, USA

Pester Power: Insight into Indian Hotel Industry at International Conference for teaching and Education organised by International Journal of Arts & Sciences" (IJAS) held at Harvard Medical School, Boston, USA

"Building Life skills of out of school drug dependent juveniles: experience through the PKM Project" at Asia Education Summit on Flexible Learning Strategies by UNESCO, Bangkok, Thailand

Rural Electrification through Solar Energy: Insights from Chattisgarh state of India, presented in Ajman 4<sup>th</sup> International Environment Conference-AIEC 2016, Ajman, UAE

### **National / International MoU**

Ongoing MoU with Michigan State University for student exchange abroad programmes. MOU signed with Syracuse University New York State, USA. Inbound students visited the Department of Food and Nutrition in the year 2016.

### **Other Inter-institutional Collaboration**

Department of Food and Nutrition collaborated for a project, 'Enhancing nutritional security and gender empowerment' with the Division of Agricultural Extension, ICAR-IARI, New Delhi.

Department of Food and Nutrition collaborated with Shri Ram College of Commerce, for participation in GWR (piano recital). Two students of Post Graduate Diploma in Dietetics & Public Health Nutrition were trained for 4-6 months for holistic nutrition services for human performance.

### **Extension and Outreach Activities**

Annual Yuva Shakti Mela was organised by the Department of Communication Education as part of extension programme.

Department of Resource Management & Design Application conducted a baseline survey of potters living in Delhi in collaboration with Solutions for Clean and Healthy Environment as part of assignment for Sustainable Habitat and Socio-cultural Environment.

Post Graduate Diploma in Dietetics & Public Health Nutrition students rendered services towards holistic nutrition, for human performance, for the Guinness book of world records

Students of M.Sc. Food and Nutrition participated in a Nutritional Educational activity for farmers of Lachoda Village, Baghpat District, UP as part of "Farmers-Scientists Interface on Agri-Nutrition" organised by Division of Agricultural Extension, ICAR-IARI, New Delhi

### **Library Development**

The library offers the following services: Lending services, OPAC facilities (Online Public Access Catalogue), OPAC on Internet, also DELNET, Reference Services; Bibliographical Services, Fiber Optic connectivity for Internet surfing, Online search facilities of E-journals and Databases subscribed by DU, UGC-INFONET, INFLIBNET viz. EBCO; SCOPUS; J-Store; Springer, Elsevier; Blackwell; Taylor & Francis and other public



domain. DELNET (Developing Library Network) connectivity and Search through CD-Rom Digital Databases: ISID, Plan and Statistical Database; Reprographic facilities (on contractual basis) are also available.

### **Faculty Strength**

Permanent – 50; Ad hoc/temporary faculty – 60

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 24.86 crores

### **Other Significant Information**

The Department of Communication Education initiated a short term course on Corporate Social Responsibility (CSR) with Business and Community Foundation, New Delhi. Business and Community Foundation is a certified CSR training organization recognized by Institute of Chartered Accountants of India.

Best Oral Presentation : Ruchi Yadav in 31st Biennial Conference on Science and Technology: Reaching unreached. Dharwad, Karnataka

Best Poster Award: Kataria, I., Chadha, R., Pathak, R. in National Symposium on “Lifestyle Disorders- Understanding the Molecular Mechanism. Shivaji College, University of Delhi.

Best Poster Award- Arora, N. & Sekhri, S. in 11th International conference on Apparel and Home Textiles.

Paper by Kaur, H, & Goel, S. was selected among best five papers published in National Conference on E-waste management, XLRI, Tata Nagar, Jamshedpur.

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## **LADY SHRI RAM COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

Several activities were conducted during the academic year 2016-17. Among the invited speakers of this year, Dr. Jim Yong Kim, President of the World Bank was appreciated for his interactive session. The event was organised by the Economics Department in collaboration with NDTV. Seminar was also organised by the Internal Quality Assurance Cell (IQAC) of the College. The seminar deliberated on the role of various technological tools and their utility in enhancing quality research and improving pedagogical methods within classrooms. College observed Vigilance Awareness Week 2016 in collaboration with Indian Oil Corporation Limited (IOCL) in the month of Nov., 2016. On International Women’s Day, Punjab National Bank organised an awareness session to enable faculty to understand various digital schemes available in the bank for women. Third International Economics’ Students’ Symposium, on the theme ‘Thinking Beyond the Invisible Hand: Exploring Alternative Development Paradigms’ was held. *Econvista* saw participation in huge numbers from various local, national as well as international colleges and proved to be intellectually stimulating. The Department of Elementary Education, organised a National Conference for school mathematics teachers and teacher educators titled Innovations in Mathematics Education: Current Trends and Issues. About 100 teachers from schools across Delhi NCR and 20 teacher educators from various colleges participated in the conference. The plenary speakers and panelists of the conference addressed four main themes: Innovative practices in mathematics classrooms, the role of technology in mathematics teaching and learning, teacher knowledge and professional development and innovative mathematical practices in non-formal spaces.

### **Honours/Distinctions**

Dr. Maya Joshi was awarded Fullbright Fellowship at The University of Philadelphia.

Dr. Sunalini Kumar was awarded Fullbright Nehru Postdoctoral Fellowship from 2016-17.

Ms. Arti Minocha was on Post Graduate Research Exchange Fellowship between JNU and King's College, London in April- June 2016.

Dr. Shernaz Cama was felicitated as Honorary Director of UNESCO Parzor and was also appointed as an International Coordinator of the Government of India's Everlasting Flame International Programme, the largest ever programme in the world on the community of the Zoroastrians. The event combined three academic and cultural events as well as an International Conference on "Zoroastrianism in the New Millennium.

Ms. Tripti Bassi received National Women's Empowerment and Development Award on the occasion of the World Population Day and the World's Women Empowerment Summit organised by the International Association of Educators for World Peace (Women's Agency for Generating Employment) on 11 July 2017.

Dr. Jonaki B. Ghosh received an international felicitation by the International Association of Educators for World Peace (affiliated to United Nations – ECOSOC, UNESCO, UNICEF) on 11 July 2017 at The India International Centre, New Delhi on the occasion of the World Population Day and the World Women's Empowerment Summit.

Ms. Meenakshi Pahuja:

became a Limca book Record holder in the year 2016. She was awarded two certificates, one for being the first Indian to swim Manhattan 28.5 miles race successfully and second for successfully swimming the Famous Iconic Robben Island, South Africa.

Awarded prestigious PHD Chambers Sports Achievers Award for open waters- Aug.-2016-New Delhi & major Dhyani Chand Sports Award for excellence & contribution in open waters/ swimming- Oct.'2016 New Delhi.

Awarded Best Teacher Award of University of Delhi by Indian National Teachers Congress (INTEC). She was recognized for her contribution to University of Delhi as teacher and her achievements in the world of open waters.

*Tinka Tinka Tihar*, the song sung by Tihar inmates and conceptualized, created, produced and directed by Vartika Nanda entered the Limca Book of Records, This is her second entry into the Limca Book of Records. This song was released by Mrs. Sumita Mahajan, Speaker, Lok Sabha in 2015.

### **Students with Distinction**

Kavita Shukla, Roshan Ara, Akanksha Shre, Rachana, Priya Kaushik, Arushi Nigar and Juhi Kumari of Sanskrit Department were awarded the Pratibha Puruskar by the Delhi Sanskrit Academy.

Monika Banerjee from the NCC represented India at the Youth Exchange Programme, 2016 at Vietnam.

Eman Rahman and Yasha Spruha were selected for the "Study of US Institutes (SUSI) Programme" funded by the US State Department. Eman participated in the Media Summer Programme at the University of Washington, Seattle while Yasha was a delegate at the Women's Leadership Institute at the University of Kansas.

Sanjana Sehrawat secured a Bronze Medal and her team received Gold Medal in the 26<sup>th</sup> Meeting of Shooting Hopes, Czech Republic.

Aashi Rastogi was felicitated with a Gold Medal and her team with a Bronze Medal in the Asian Air Gun Shooting Championship and a team Gold Medal in the Asia Shooting Championship in Kuwait. She won a team Silver Medal in the Junior ISSF World Cup, Germany and a team Bronze at the Junior ISSF World Cup in Azerbaijan.

Nayani Bhardwaj secured team Gold Medal in the Asian Air Gun Championship as well as in the Asian Shooting Championship at Kuwait.

### **Publications**

Cama, S. (2016). *Threads of Continuity: Zoroastrian Life and Culture*. New Delhi: Unesco-Parzor-Ministry of Minority Affairs. ISBN: 970-81-910957-2-2

Sardana, S. (2017). *E-Marketing*. New Delhi: Galgotia Publishing Company. ISBN: 9789386184214

Darbari, J. D., Agarwal, V., Govindan, K. and Jha, P. C. (2017). Fuzzy multi-objective approach for optimal selection of suppliers and transportation decisions in an eco-efficient closed loop supply chain network. *Journal of Cleaner Production*. 165, 1598-1619.

Ghai, K, P. (2017). Medicinal interpretation of some Vedic terms. *In Quest International Multidisciplinary Research Journal*. 6(1), 1-4.

Kumar, M., Singh, S., Sharma, K., Singh, R., Ravi, V. and Bhattacharya, J. (2017). Adverse Fetal outcome: Is first trimester ultrasound and Doppler better predictor than biomarkers? *The Journal of Maternal-Fetal & Neonatal Medicine*. 30(12), 1410-1416.

Madan, S. and Arora, J. B. (2016). *Securing Transactions and Payment Systems M-Commerce*. New Delhi: IGI Global. ISBN: 9781522502364

Nanda, V. (2016). *Tinka Tinka Dasna*. New Delhi: Tinka Tinka Foundation. ISBN: 978-93-5265-730-8

Sahgal, S. (2017). *Niyoga: Alternate Mechanism to Lineage Perpetuation in Early India, A Socio-Historical Enquiry*, Delhi: Primus Books.

Singh, N. (2016). Outward FDI Type and Ownership Mode: The Effect on Home Country Exports. *FOCUS: Journal of International Business*. 3(2), 11-34.

Verma, K. (2016). *Hindi Mein Shakespeare ka Sukhant Natak: Anudit Bhasha aur Kathya*. New Delhi: EPH. ISBN: 9789350736104

Journals published by the College:

Éclat (Department of Mathematics)

Ijtihad (Department of History)

Sehar (Department of Elementary Education)

Jabberwock (Department of English)

Tejas (Department of Sanskrit)

Learning Curve (Department of Psychology)

Ecolloquial (Department of Economics)

Comcorde (Department of Commerce)

Sabab (Department of Political Science)

Noesis (Department of Philosophy)

The Fieldwork Journal (Department of Sociology)

#### **Teachers serving as Editor(s)/Member(s) of Editorial Board – Four**

#### **Research Projects**

Dr. Suman Sharma, Principal, project sanctioned by UGC, 'Climate Change' in the year 2016, Rs. 2.5 Lakhs.

#### **Seminars Organised**

Seminar, "Integrating Digital Technology in the Pedagogical Practices of Higher Education" organised by the Internal Quality Assurance Cell (IQAC) on 25 March, 2017.

Seminar, "Politics of News: Construction of Dominant Ideology" was organised on 1 Oct., 2016.

Seminar, "POLPOURRI" organised from 31 March, to 1 April, 2017.

Seminar, "Enigma" organised on 3 and 4 March, 2017.

Seminar, "SANSKRITI' 17" organised by the Sanskrit Department during 10 and 11 Feb., 2017.

#### **Conferences Organised**

National Conference, "Innovations in Mathematics Education: Current Trends and Issues" for school mathematics teachers and teacher educators organised during 3 and 4 March 2017.

#### **Seminar/Conference Presentations (selected few)**

Suman Sharma invited as a Keynote Speaker at the 'Fourth International Colloquium deliberations at Sri Atmananda Memorial School' in Malakkara, Kerala from 4 to 6 Aug., 2016.

Suman Sharma invited for panel discussion on “Teaching and research on global issues relevant to South Asia” organised by the Harvard South Asia Institute in New Delhi on 12 Jan., 2017.

Arvind Kumar chaired a session on ‘Marketing Strategies in the Digital World’ in an International Conference on “New Digital Age: Reshaping Strategies” organised by Amity Business School, Amity University, Haryana on 24 Feb., 2016.

Madhu Grover presented a paper, ‘On the Edge: The Conundrum of Kipling’s Ambivalent Fictions’ at an International Conference on “Kipling in India: India in Kipling” organised in association with the Kipling Society, United Kingdom, at Indian Institute of Advanced Study, Shimla on 26 to 28 April, 2016.

Arti Minocha presented a paper, ‘Writing England through Indian Eyes’ at the Intra-Asian Travel Project Workshop organised by the Centre for Dalit Studies, Centre for Studies in Violence, Memory and Trauma and Centre for Academic Translation and Archiving at the Department of English, University of Delhi on 5 and 6 Dec., 2016.

Maya Joshi presented a paper as an invited speaker on the topic, ‘Buddhist Peace: Some Questions’ at the International Conference on “*Nalanda Dialogue: Buddhism in the Twentieth Century: Perspectives and Response to Global Challenges and Crises*” held at Rajgir, Bihar, 17 to 19 March, 2017.

Jonathan Koshy Varghese invited as a special discussant and speaker to present a paper, ‘After the Last Sky and Reading the Photograph’ for an International Colloquium on “Translating/Transcreating Travel and Life ‘Writings’ from the Arab World in Visual Modes” organised by India Arab Cultural Centre and Department of English, Jamia Millia Islamia on 8 March, 2017

Smriti Sharma presented a paper, ‘Preparing Teachers to Reflect on Self: Traversing Relationships and Creating Teacher Agency’ at the 7<sup>th</sup> International CESI (Contemporary Education Society of India) Conference “Comparative Educational Destinies: Visions, Dilemmas and Challenges” held at Tirupati, Andhra Pradesh, from 19 to 21 Nov., 2016.

Jonaki Ghosh delivered an invited talk, ‘Developing Students Mathematical Thinking through Technology Enabled Explorations’ at the National Conference organised by The Association of Mathematics Teachers of India (AMTI), held at Atul Vidyalaya, Atul, Gujarat from 26 to 28 Dec., 2016.

Tripti Bassi presented a paper, ‘Exploring Caste and Gender Inequalities: A Study of the Sikh Kanya Mahavidyalaya’ at the Seventh International Conference “Comparative Educational Destinies: Vision, Dilemmas and Challenges” held at Tirupati from 14 to 16 Dec., 2016.

Priti Prakash Prajapati invited to deliver a talk, ‘Representation of women in Sharachchandra’s writings’ at the All India Radio programme on “Creative expressions and literary discourses” in the month of Nov., 2016.

Kanchan Verma presented a paper, ‘Rendering Morality: Shakespeare’s King Lear’ during the International Interdisciplinary Conference on “Society, Culture and Morality: East and West” organised by Centre of Arabic and African Studies, Jawaharlal Nehru University, New Delhi on 27 to 29 Dec., 2016.

Sucheta Nayak presented a paper, ‘Variable Mesh Discretization for System of Nonlinear Singular Boundary Value Problems’ in an International Conference on “Recent Advances in Mathematics and Their Applications (ICRAMTA-2016)” organised by the Department of Mathematics, University of Rajasthan, Jaipur, Rajasthan on 10 to 12 July, 2016.

Krishna Menon chaired a panel, “The Female Body and its Fragments: Negotiation, Violence and Resistance in South Asia” and presented a paper, ‘The Many Bodies of Indian Democracy’ at the International Conference of the Association for Asian Studies in Toronto, Canada on 17 March, 2017.

Snehil Kacker presented a paper, ‘Evaluation of Dr. Ambedkar’s Inter-Disciplinary Approach in Research and its Relevance in the 21<sup>st</sup> Century’ in an International Seminar on “Relevance of Dr. Ambedkar’s Thought in Contemporary India” organised by the Department of Political Science and Department of Buddhist Studies, Faculty of Arts, University of Delhi, 14 and 15 Feb., 2017.

### **National / International MoUs**

MOUs signed with Indian/Foreign Universities – 10

### **Students under Exchange Programme**

Inbound –10

Outbound –11

### **Placement Details**

Students placed –120 (26.67%)

Companies visiting campus for recruitment – 72

### **Extension and Outreach Activities**

REACH, an acronym for Reaffirming Equity, Access, Capacity and Humanism, is an initiative that was created at LSR with support from the Foundation for Academic Excellence and Access (FAEA) in 2002. REACH acts as the equal opportunity Cell of the college. REACH organised various events throughout the year with the aim of providing an inclusive platform so that students could build capacity while being part of a community that celebrates difference and diversity.

REACH made a visit to Shri Ram College of Commerce and Indraprastha College for Women on 8 Sept., 2016 and 23 Sept., 2016, respectively. These visits were made primarily to observe the more disabled-friendly technology and more accessible infrastructure that these colleges have in comparison to LSR. Both these colleges have a significant number of PwD candidates for which they have myriad of facilities available and we wanted to learn about the same.

REACH in collaboration with KPMG conducted an Eye Check for students with visual disability at Shroff Hospital, old Delhi. On the occasion of White Cane Day, REACH also conducted a talk with Neha Arora, the founder of Planeta Abled. White Cane Day is celebrated all across the world on the 15 Oct. every year. Its aim is to convey the message that a person with disability can lead an independent life. Thus, on the 27 of Oct., 2016, the members of REACH gathered for an interactive session with the founder of Planet Abled.

The National Service Scheme (NSS) unit has successfully built associations with over 25 NGOs and has a body of over 700 volunteers.

NSS activities for 2016-17: At a glance

The highlight of this year was ‘Creative Rehabilitation And Reformation Programme 2016-17’ conceptualized for female inmates of the Tihar Jail. 20 LSR volunteers and over 25 female inmates participated in this project. This project aims to rehabilitate female inmates by providing them with a creative outlet through theatre and meditative dance workshops and by imparting skills and marketing the products crafted by them in the mainstream market. This not only generates an income for the participating inmates, but also sensitises the masses about importance of criminal reformation. Finally, in Dec., the female in-mates of Jail No. 6 were engaged in performing and creative arts such as theatre and flow art, vocational skills including paper craft, diary making, and stitching (under the guidance of NSS-LSR project *Basta: Waste to Worth*).

In keeping with the tradition, NSS LSR hosted a massive and successful Diwali Mela in the month of Oct.. ‘Noor’ as the name suggests, aimed at bringing light and happiness to everyone who NSS LSR can reach out too. Chief guests, Ms. Dakshita Das, (Joint Secretary for Ministry of Roads) and Mr. Shailendra Singh (Chairperson of the South Delhi Municipal Corporation) officially inaugurated the mela, marking the beginning of Noor. Children from various NGOs associated with NSS LSR, such as Tamana, Adhyayn, Koshish, CDP, Indradhanush, Udyan Care, DCWA and Shanti Sahyog, had come to be a part of the mela. LSR’s own entrepreneurial venture, *Basta: Waste to Worth*, put up a stall at Noor and made profits worth Rs. 10,000, the proceeds of which were given as income for rural women from Zamrudpur village.

### **Library Development**

The College Library with its fully computerized user-friendly data filing system has an invaluable collection of about 1100882 books, 6386 bound journals, 1300 reprographic material and about 300 CDs and DVDs. It subscribes to a range of newspapers, national and international journals. The library has a book bank section, which enables students to borrow on a long-term basis. The Library is linked to the Delhi University Network, facilitating access to text and material. The Library is open from 8.00 a.m. to 8.00 p.m. and is fully computerized with an error free database of all books and bound journals, created and maintained by the in-house team.

### **Faculty Strength**

Permanent –101; Ad-Hoc – 44

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 22.04 crores.

Utilized – Rs. 24.72 crores

### **Other Significant Information**

Dr. Krishna Menon and Dr. Rachna Johri in 2016 received an amount of 2,00,000 from Ambedkar University Delhi.

Dr. Shweta Singh received an amount of 12,00,000 in 2015-16, from UN Women and Embassy of Switzerland.

Dr. Jonaki B. Ghosh received an amount of 2,30,000 from the National Board of Higher Mathematics, Department of Atomic Energy, Govt. of India in 2016 for conducting a National Conference for School Mathematics teachers and Educators.

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## **LAKSHMIBAI COLLEGE**

### **Major Activities and Achievements**

Lakshmibai College has taken a great leap forward in the technological advancements in higher education with the introduction of RFID cards for all transactions inside the premises, making it the first college in Delhi University and perhaps in India to go cashless prior to de-monetization. The college boasts of its own mobile app, digital display boards, interactive smart boards, information Kiosk strengthening its asset base in different areas. One of the highlights of this year was the first ever Book Fair which demonstrated how the digitalized word needs to be counterbalanced with the enduring power of print. Besides we also organised a one week long Camp for our students on the occasion of International Yoga Day and a two-day health checkup camp and a Blood Donation Camp were also organised as CSR–Initiative of the college. From the field of sports in Inter-College competitions, Lakshmibai College has emerged as a champion in seven games including Athletics, Cross Country, Baseball, Softball, Power-lifting, Weight-lifting and Yoga.

### **Honours/Distinctions**

Green Campus Award conferred by WAGE.

Three students selected among 334 best VISAKA volunteers across the country, based on their performance. Lakshmibai College was the only college from DU finding place among 400 institutions.

Dr. Anita Malhotra received Meritorious College Teacher Award by Department of Higher Education, GNCTD, 2016.

### **Students with Distinction**

Ranuka, B.A. (H) Math {III}; Shjagun, B.Com (H) {III}; Divya Suri, B.A. (H). Economics {III}; Anshu Grade, B.SC. (H) Math {II}; Richa, B. A. Sanskrit (H) {I} are students with academic distinction.

Pooja Gupta and Fatima won the Gold medal in Yoga.

Laxay Sharma in Athletics, Saroj in Cross Country, Sanjana, Anjali & Nidhi in Netball won bronze medal.

Preeti in Powerlifting; Deepika in Weightlifting; and Divya Aggarwal in Yoga won silver medal at All India Inter-University competitions.

Laxay Sharma in Hammer Throw in Athletics; Manisha Chaudhary, Chetna Sahrma, Archana, Preetam Kaur, Jyoti & Kavita in Baseball; and Archana, Preetam Kaur, Nirmala Prajapati, Anjali Rawat and Jyoti in Softball won bronze medal at All India Inter-University competitions.

Vandana, Keerthy & Deepa secured 3<sup>rd</sup> position in Cricket in North- Zone Inter-University competitions.

### **Publications**

Gauba, S. (2017). Budget 2017: Sabka Ghar Ho Apna. *Gurgaon Today* (Hindi Newspaper): 4.

Gauba, S. (2017) Soojh Boojh Se Karen Nivesh. *Gurgaon Today* (Hindi Newspaper): 4.

- Kaul, R. (2016). *Child Rights and Out-of-School Children*. New Delhi: *Gyan Publishing House*.
- Kaul, R. (2016) Women and Higher Education: Issues and the Road Ahead. *Indian Journal of Human Relations*, 49-50
- Kaushik, S. (2016-17). Percentage Change in the Selected Skinfold Measurements of Male Students of University of Delhi due to Progressive and Constant Load of Physical Training. *Human Kinetics*.
- Kaushik, S. (2016-17). Plagiarism in the Contemporary Context (Issues Concerning Ethics in Writing). *National Seminar on Concept of Ethics in Vedic Literature in the Contemporary Context*. (pp: 548-553)
- Malhotra, A. (2016). Diet Byte. *Indian Diatectics Association, Delhi Chapter*.
- Nangia, R. *Investing in Stock Market*. New Delhi: Ane Books Pvt Ltd.
- Ujjayini. (2017) India's External Sector: Trends in Current Account Deficit in Recent Past. Singh, Geeta (Ed.), *India and Western Aspects of Identity*. New Delhi: Kala Prakashan.
- Vatsala, P. (2016). *Human Rights Regime: Dialogic and Debates*. New Delhi: Gyan Publishing House.

### **Research Projects**

- Dr. Alka Harneja, project funded by Lakshmibai College in 2016-17, 'Students Group Health Insurance in Colleges: Issues and Challenges.' Rs. 5,000/-.
- Dr. Rekha Kaul, project funded by Lakshmibai College in 2016-17, 'Studying Labour Laws in India in The Unorganised Sector,' Rs. 5,000/-.
- Dr. Anita Malhotra, project funded by Lakshmibai College in 2016-17, 'Setting up a Food Plaza 'Nutri Bite,' Rs. 5,000/-.
- Dr. Anita Malhotra, project funded by Lakshmibai College in 2016-17, 'Project Report on Millet-Based Recipes: Savouries and Sweets,' Rs. 5,000/-.
- Dr. Amrita Shilpi, Project funded by Graduate Women International (CHF 1900) in 2016-17, , 'Women's Economic Empowerment through Education and Income Generation Projects,' Rs. 5 Lakhs.
- Dr. Rekha Kaul and Dr. Anita Malhotra, project funded by ICSSR in 2016-17, 'Women and Development: Issues and Challenges' for Rs. 1.5 Lakhs.

### **Seminars Organised**

- Seminar, "Need for Decolonizing Humanities and Social Sciences; Looking through the Lens of India's Intellectual Tradition" was organised on 3 Feb. 2017. The eminent speaker was Prof. Chandrakala Padia, Chairperson Indian Institute of Advanced Studies, Shimla.
- Two Days Workshop, "Capacity Building for Non-Teaching Staff" was organised on 22-23 Dec. 2016.

### **Conferences Organised**

- International Peace Conference on 'Youth and Women' was cohosted with the South Korean organization, International Women's Peace Group at Jamia Milia Islamia.
- Conference , "Innovative Teaching, Learning, Evaluation and Research in Higher Education" was organised from 15-21 Dec. 2016.
- ICSSR sponsored Conference , "Women and Development: Issues and Challenges" was organised on 3-4 March 2017.

### **Seminar / Conference Presentation**

- Rekha Kaul presented paper, "Women and Development: An Overview " at ICSSR sponsored *National Seminar on Women and Development: Issues and Challenges* at Lakshmibai College, University of Delhi held on 3 March 2017.
- Lata Sharma co-presented paper, "Revisiting Women Participation In Olympics", at ICSSR sponsored *National Seminar on Women and Development: Issues and Challenges* at Lakshmibai College, University of Delhi held on 3-4 March, 2017.

Alka Harneja presented paper, “Women Centric Human Resource Policies Of Indian Inc.” at ICSSR sponsored *National Seminar on Women and Development: Issues and Challenges* at Lakshmibai College, University of Delhi held on 3-4 March, 2017.

Anita Malhotra presented paper, “Addressing gender and nutritional inequities- a study of Fulwari scheme in tribal blocks of Surguja district, Chhattisgarh” at *National Seminar on Women and Development: Issues and Challenges* held on 4 March, 2017.

Sucheta Chaturvedi presented paper, “Inadequacy of Rape Laws: A Literary Perspective” at the ICSSR sponsored *National seminar on Women and Development* at Lakshmibai college held on 03 March, 2017.

Deeba Zafir presented paper, "An Enabling Prism: The Disability Spectrum in Selected Urdu Short Stories" at *Fifth IATIS South Asian Regional Workshop on "Translating Disability Across Cultures: The Translation and Representation of Disability in the Modern Indian Short Story"* at the Institute of Advanced Study, JNU from 14-16 Sept., 2016.

Seema Kaushik presented paper, “Revisiting Women Participation in Olympics” at ICSSR sponsored *National Seminar on Women and Development: Issues and Challenges* at Lakshmibai College on 3-4 March, 2017.

Babita Verma presented paper, “Climate change migration and Gender” at Hugo conference at Leige University, Berlin held on 3-4 Nov., 2016.

Geeta Arya presented paper, “The eighteenth century Awadhi Sufi narrative: Nur Muhammad's representation of women and culture” in a Two day ICSSR sponsored *National Seminar on Women and Development: Issues and Challenges* at Lakshmibai College, Delhi University held on 4 March, 2017.

A. Porchelvi presented paper, “Relationship between Environmental disclosure and Firm performance: An Empirical analysis of Steel Industry in India” at *5<sup>th</sup> Annual International Commerce Conference on Startup to Sustainability: Initiatives and Challenges* held on 4-5 Nov., 2016.

Anu Chhabra presented paper, “Multi-Stage Optional Unrelated Question RRT Model” in the *25<sup>th</sup> Silver Jubilee International Conference on Interdisciplinary Mathematics, Statistics and Computational Techniques (IMSCCT 2016-FIMXXV)* at Manipal University, Jaipur held during 22-24 Dec. 2016.

Sabrina Sareen presented paper, “Women Workers in Indian Apparel Industry: Challenges and Recommendations.” at ICSSR sponsored *National Seminar , Women and Development: Challenges and Recommendations* at Lakshmibai College on 3 March, 2017.

Uma presented paper, “Alternatives for the ‘Missing Women’ in 21<sup>st</sup> century” in a Seminar cum Interactive Workshop on “*Entrepreneurship: The key to empowerment of women*” held on March 19, 2016.

Uma presented paper, “Women Missing in India: By Choice or by Disparity” in a Two – day ICSSR- Sponsored *National Seminar on “Women and Development: Issues and Challenges”* at Lakshmibai College, University of Delhi held on 3-4 March, 2017.

Amrita Shilpi, Rajasree Roy and Gobina presented paper “Bleeding Women: Who Cares” at *WDC National Conference 2016 on Gender and Popular Culture: Representations and Embodiment*, at Shyamlal College, D.U held on 14-15 Dec., 2016.

### **Other Inter-Institutional Collaboration**

Women and Legal Literacy (WLL) works in collaboration with Delhi State Legal Services Authority (DSLISA), International Financial Reporting Standards (IFRS).

Indian Accounting Standards (IndAS) course runs in collaboration with Ernst and Young.

One year certificate course in Chinese language (CP-I), one year certificate course in Japanese language (JP-I) is carried out in collaboration with Department of East Asian Studies, Delhi University.

MFA (Mutual Fund Agent) course runs in collaboration with Team Lease (National Skill Development Council, NSDC) and two additional courses in collaboration with NIIT-‘Working with MS Office’ and ‘Advanced EXCEL.’

### **Placement Details**

Students Placed – 121

Companies visiting campus for recruitment – 4



### **Extension and Outreach Activities:**

College students continued their best efforts in NSS and NCC. They brought different accolades to the college by participating in various activities at National Level.

College also runs NCWEB and IGNOU centers to provide facility of education to those students who are not able to be part of regular college but still is in pursuit of knowledge. The results of the students have remained satisfying in this academic year as well.

40 hour certificate course of English Communication and Personality Development Course for SC/ST/OBC (Non Creamy Layer) Minority Students was brought into effect in Jan., 2017.

### **Library Development**

The college Library committee has been actively involved in improving the library and building its book collection. Access to the library is now available to students and teachers through their smart I-cards. The committee organised a Book Fair on 08 Feb., 2017. Various publishers and book distributors participated in it. It was an enriching experience for students and teachers.

### **Faculty Strength**

Permanent – 91; Ad-Hoc – 70

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 20.75 Crores

Utilized– Rs. 20.75 Crores

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## **MAHARAJA AGRASEN COLLEGE**

### **Major Activities and Achievements**

Maharaja Agrasen College has over the years stood above the rest in its hands on approach to learning and its commitment to social responsibility. Bright and talented students enrolled in the college performed remarkably well in academics and extra-curricular activities, this year. Students from rural background also progressed steadily towards better performance. organised Annual Day, Orientation Day, Yoga Day, Constitution Day, Beti Bachao Utsav, Swami Vivekananda Memorial Lecture, National Education Day and Yuvaan, Cultural Festival are a few activities that were conducted this year. Various National and International Conferences were also organised. The college has always believed in co-scholastic development with application of various innovative pedagogical techniques where learning must happen. In the conferences, students across courses have been actively engaged. Students Congress was organised where a large number of students presented the research work. Several scholarships have also been granted to students coming from the weaker sections of the society. The College also provides financial aid to the most needy students. With an 'A' grade from NAAC, the college has also maintained its place among the best's colleges in the India Today Nielsen survey 2016.

### **Honours/Distinctions**

Ph.D. Awards:

Dr. Anupama Jaidev from Department of English was awarded doctorate degree by University of Delhi in the month of April 2017. Title of her thesis was "Sovereignty, State and the Individual: The National Emergency in Literature."

Dr. Guntasha Tulsi from Department of English was awarded doctorate degree by Jawaharlal Nehru University in Aug., 2016. Title of the thesis work “Colonial Modernisation and Indigenous Identity Formation: An Analysis of Sikh Education in Sikh Journals (1900-1920).”

Dr. Ritesh Verma from Department of Commerce was awarded with doctorate degree by Himachal Pradesh University, Simla in Jan. 2017. Title of his thesis work “Banking Reforms and Their Impact on Productivity and Profitability: A Comparative Study of Public, Private and Foreign Banks in India.”

Dr. Sangeeta Mittal from Department of English was awarded with doctorate degree by Dr. K N Modi University, Newai, Rajasthan. Title of her thesis work “Delhi Culture: A Literary Perspective.”

### **Students with Distinctions**

Anshu Singh of B. A. Programme III year has secured highest marks in college.

Abhinav Anand of B. A. (Hons) English III year has secured highest marks in college.

Pooja Kasana of B. A. (Hons) Political Science III year has secured highest marks in college.

Paras Jasrai of B.A. (Hons) Economics III year has secured highest marks in college.

Santosh Kumar Thakur of B. A. (Hons) Electronics has secured highest marks in college.

### **Publications**

Kumar, R. (2017). Small scale sector in times of globalisation: A study of India’s small scale sector. *International Journal of Advanced Research*, 4(12), 1439-1444.

Raj, S., Gupta, P. and Singh, O. (2016). Working On R Programming Language For Big Data: A Review. *International Journal of Enhanced Research in Science, Technology & Engineering*, 5(7), 272-282.

Singh, O., Gupta, P. and Kumar, R. (2016). A Review of Indian Approach towards Cyber security. *International Journal of Current Engineering and Technology*, 6(2), 644-648.

Srivastava, P.K. (2016). Separation and Longing in Viraha Barahmasa. *The Delhi University Journal of the Humanities and the Social Sciences*, 3, 43-56.

Yadav, S., Aggarwal, R. and Kaur, B. (2016). Resonance in the perturbations of a synchronous satellite due to angular rate of the earth moon system around the sun and earth's rotation rate. *International Journal of Advanced Astronomy*, 4(2), 68-75.

Saxena, G. and Mukherjee, R. (2017). System for object tracking and gesture recognition using MATLAB published in the Conference Proceedings of 2<sup>nd</sup> National Conference on Recent Developments in Electronics (NCRDE 2017). ISBN: 978-81-933475-3-9

Saxena, G. and Mukherjee, R. (2016). Data-Encryption Techniques and Algorithm for Watermarking on Digital Images using Fuzzy Logic and its Significance published in the Conference Proceedings of 2<sup>nd</sup> National Conference on Recent Trends in Instrumentation and Electronics (RTIE) Organised jointly by the Department of Electronics and Department of Instrumentation of Shaheed Rajguru College of Applied Sciences for Women (SRCASW) ISBN 10: 1539305422 ISBN 13: 978- 1539305422

**Journals published by the College – *Indian Journal of Social Enquiry* 8(2), June 2016.**

**Teachers serving as Editor(s)/Member(s) of Editorial Board – 03**

### **Research Projects**

Dr. Geetika Jain Saxena, project funded by UGC, ‘Modeling, Simulation and Optimization of Surface Plasmon Polaritons on Metallic waveguides and their loss compensation by introducing optical gain media’.

Dr. Anshul Taneja, project funded by University of Delhi (Star Innovation project) MAC 305 Innovation Project completed in Nov., 2017. Working under CIMAC/ Star Innovation Project on Workspace Optimisation. (3 years project)

Dr. Sushmita Rajwar, project funded by University of Delhi (Star Innovation project), ‘MAC 301: Delhi a City of Migrants: A Study of the Socio-Economic and the Political Condition of the Migrants’

## **Conferences Organised**

Conference, 'Reading Migrations: Fractured Histories, Forged Narratives' organised during 20 and 21 March, 2017.

## **Seminar / Conference Presentations**

Amit Pundir, Rajshekhar Mukherjee, Dharmendra Mahato, Gaurav Bhandari and Geetika Jain Saxena presented a presentation, 'A Robust Algorithm for Morphological, Spatial Image-Filtering and Character Feature Extraction and Mapping Employed for Vehicle Number Plate Recognition' at IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), held during 22 to 24 March, 2017.

Anupama Jaidev presented a paper, 'Fractured Histories: Contiguous Narratives' at the Seminar series "Romani Communities in Europe and Minorities in India" held at Institute of Social Sciences, New Delhi during 26 Sept., 2016.

Charu Arya presented a paper, 'Dalit Narratives: Frozen Trauma of Caste in Karukku and Joothan' at the UGC Sponsored Two-Day National Seminar on "Trauma: Memory and History in Literature" organised by Department of English, Ramanujan College, University of Delhi on 8 and 9 April, 2016.

Anupama Jaidev presented a paper, 'Shangri La Solutions: Reading Bios-Technology-Heritage through the Discourse of Popular Science and Beyond' at the 7th National Conference on "Biodiversity and Climate Change" held at Maharaja Agrasen College, New Delhi, during 16 and 17 Feb., 2017.

Gitanjali Chawla presented a paper, 'Roots as Routes: Folklore as Dynamic Spaces for Constructions of Identities' at an International Conference "Roots and Legacies: 1st Global Meeting" organised by Interdisciplinary-Net at Mansfield College, Oxford, United Kingdom, held during 13 and 14 Sept., 2016.

Gitanjali Chawla presented a paper, 'Pop-folk: Redefining Migrant Identities in the Diaspora' at National Conference titled "Migration and Diaspora: Theory, Cultures and Literatures" organised by Bharati College, University of Delhi and Global Research Forum on Diaspora and Transnationalism (GRFDT) during 24 and 25 March, 2017.

Indrani Das Gupta presented a paper, 'Emplotting the Nation through Science: Reading Sukumar Ray's Heshoram Hushiyarer Diary, Amitav Ghosh's The Calcutta Chromosome and Manjula Padmanbhan's short story Gandhi-Toxin' in an International Conference on "Imagi/Nation: India/Canada Past, Present and Future" organised by Indian Council of Literary, Social, Educational and Cultural Research, Gujarat Arts and Commerce College (Evening) and UGC HRDC, Gujarat University, Ahmedabad, held during 25 to 27 March, 2017.

Indrani Das Gupta presented a paper, 'Diaspora-ization of Science in Amitav Ghosh's The Calcutta Chromosome' in National Interdisciplinary Conference on "Reading Migrations: Fractured Histories, Forged Narratives" organised by Maharaja Agrasen College, University of Delhi, held on 20 and 21 March, 2017.

Mukesh Aggrawal presented a paper, 'The fitness and health among athletes of Universities in relation to their body profiles' in the Sixth International Conference on "Health, Wellness and Society" held at Catholic University of America, Washington DC, USA on 20 and 21 Oct., 2016.

Nikhil Sharma, Haris Ahmed, Mohd. Azharuddin, Mohd. Nauman, Dharamendra Kumar Mahato, Geetika Jain Saxena presented a paper, 'System and method for registering and analysis of real time attendance and response tracking for enhanced learning' at the 2<sup>nd</sup> National Conference on "Recent Developments in Electronics (NCRDE 2017)" jointly Organised by IEEE EDS Delhi Chapter and Department of Electronic Science, University of Delhi on 16 to 18 Feb., 2017.

Niraj Kumar presented a paper, 'Indian Democratic Developmental State' in a seminar organised by Kalindi College, University of Delhi on "Globalization and Federal Governance in India : Understanding The Emerging Issues" on 19 and 20 Jan., 2017

Prem Kumari Srivastava presented a paper, 'Ontological articulations of the folk: Deshivad and the Barahmasa of North India' at the National Seminar on "Indian Literature and Social Development: Theory, Practice and Community Impact" held at Indian Institute of Advanced Study, Shimla in collaboration with Sahitya Akademi, New Delhi on 5 to 7 April, 2017.

Prem Kumari Srivastava presented a paper, 'Reading Margins: Fractured Histories, Forged Narratives' at the 3<sup>rd</sup> National Inter-disciplinary Conference organised by Department of English, Maharaja Agrasen College, University of Delhi, on 20 and 21 March, 2017.

Sharda Rani, Amit Pundir, Akshita Saxena and Sangeeta Yadav presented a paper, 'Analysis and classification of heritage images using Edge Detection Technique' in the 2<sup>nd</sup> National Conference on Recent Developments in Electronics (NCRDE 2017) held during 16 to 18 Feb., 2017, jointly Organised by IEEE EDS Delhi Chapter and Department of Electronic Science, University of Delhi.

Sushmita Rajwar presented a paper, 'Indian Diaspora in South Africa' in an International Conference on "India and its Diaspora Engagement: Comparative Global Practices" held in Bangalore and organised by Organisation for Diaspora Initiatives (ODI) on 10 to 12 Jan., 2017.

Sushmita Rajwar presented a paper, 'India Seeking its Diaspora in South Africa: Responses from the South African Indians' in a National Interdisciplinary Conference on "Reading Migrations: Fractured Histories, Forged Narratives" organised by the Department of English, Maharaja Agrasen College, University of Delhi on 20 and 21 March 2017.

Vinod Verma presented a paper, 'Queer Creativity: Binary Readings The Sociology of Self-Respect of Being A Queer Artist' at the UGC sponsored National Seminar "Trans (gendered) Lives: Praxis of Silence and Exclusion" held at Sri Guru Nanak Dev Khalsa College, University of Delhi on 7 and 8 Feb., 2017

### **Library Development**

Library received a budget of Rs. 16,40,000/- and has added 1498 books to its collection.

### **Faculty Strength**

Permanent – 64 ; Adhoc –59

### **Financial Allocation and Utilization**

Grant sanctioned – Rs.19.92 crores

Grant Utilized – Rs.19.62 crores

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## **MAHARSHI VALMIKI COLLEGE OF EDUCATION**

### **Major Activities and Achievements**

The academic session of the college started with an orientation programme addressing all aspects of the two-year B.Ed. programme. Prof. Bharati Baveja, Former Head and Dean, Faculty of Education, University of Delhi delivered the Foundation Day lecture on the theme 'Rebuilding the Edifice of Teacher Education' during the Foundation Day celebrations on Nov. 16, 2016. The Annual Sports Day was conducted on 10 Feb., 2017. Several visits were arranged for students throughout the year. Visit to National Museum, Gandhi Smriti and Darshan Samiti, National Bal Bhawan and Indian National Science Centre was organised for the B.Ed. I year students. Field observation and school experience programme were successfully accomplished through the cooperation of Government and Public schools. Students whole-heartedly participated in special assemblies marking Independence Day, Hindi Divas, Gandhi Jayanti, Child Rights Day, Republic Day, International Women Day, World Knowledge Day, and Human Rights Day. The students also participated in the *Rashtriya Ekta Saptah*, *Azadi-70: Yaad Karo Kurbani*, *Swachhta Abhiyan*, *Ek Bharat Shreshtha Bharat* and Vigilance Awareness Week on the specified days. A *Yoga Shivar* was organised And the International Yoga Day was celebrated on 21 June, 2016. Participation of students in the college activities was ensured through the duly elected Students' Panchayat which was formed by Dr. Sushil Dhiman on 11 Jan., 2017.

## Publications

Chawla, M. (2017). Perceptions of youth on education and employment. In Parimala, D. (Ed.), *Higher Education in India Challenges and Possibilities*. Delhi: Kanishka Publishers Distributors.

Nisha, (2016). Childhood and its vicissitudes: An exploration into child sexual abuse. *International Journal of Management, Administration, Leadership & Education*, 2(2), 62-73.

Nisha, (2016). Empowering women through life-skills education. *International Journal of Education, Society and Development*, 2(4), 95-101.

## Seminars Organised

National Seminar, 'Epistemological and Logical Foundations of Education' was organised from 30 Jan. to 01 Feb., 2017 which was sponsored by Indian Council of Philosophical Research (ICPR).

## Seminar/ Conference Presentations

Jyoti Kohli presented a paper, 'Pre-Service Teacher Education: Schools as Sites for Theory Building and an Emergence of Pragmatic Praxis' the National Conference on "Teacher Education: Current Scenarios and Future Possibilities" held at Central Institute of Education, Department of Education, University of Delhi. organised on 10 and 11 March, 2017

Kailash Goel presented a paper, 'Professional Development of Teacher Educators and Teachers' at the National Conference on "Teacher Education: Current Scenarios and Future Possibilities" held at the Central Institute of Education, Department of Education, University of Delhi on 10 and 11 March, 2017.

Kailash Goel presented a paper, 'Language, Literature and Media' at the National Conference on "Language, Literature and Society: A Contemporary Educational Discourse" held at the Central Institute of Education, Department of Education, University of Delhi on 3 March, 2017.

Manjari Gopal presented a paper, 'Teacher Education: Some prospects and possibilities' at the National Conference on "Teacher Education: Current Scenarios and Future Possibilities" held at the Central Institute of Education, Department of Education, University of Delhi on 10 and 11 March, 2017.

Neelam Mehta Bali presented a paper, 'Logic of Pedagogy: Kantian Perspective' at the ICPR sponsored National Seminar on "Epistemological and Logical Foundations of Education" held during 30 Jan. to 1 Feb., 2017.

Parmesh\_Kumar Sharma presented a paper, 'Epistemology and the Creative Impulse of Education' in the ICPR sponsored National Seminar on "Epistemological and Logical Foundations of Education" held during 30 Jan. to 1 Feb., 2017.

Parmesh\_Kumar Sharma chaired a Keynote Address by Prof. Anjali Bajpai, 'Assessment for Learning: The Context of Regular Classrooms' during the National Seminar on "Inclusive Pedagogy: Access and Beyond organised by the Department of Education, University of Delhi under the aegis of IASE MHRD, Govt. of India and held at CIE, University of Delhi on 03 - 04 Feb., 2017.

Raghavendra Prappanna:

Presented a paper, '*Bal kendrit ewam samaji –sanskritik shikshanshatra ke dwandh, duvidha aur chunautiyan*'. At the National Conference on "Teacher Education: Issues and challenges," Department of Education, University of Delhi held during 11 to 19 Feb., 2016.

Presented a paper, '*Shikshashashtra, aalochnatmak chintan ewam vidyaliye shiksha*' at the International Seminar on "Dialectics of Education: Comparative and International perspective" held at Department of Education, University of Delhi on 18 Feb., 2017.

Presented a paper, '*Narivadi gyanmimansa ke prashan ewam vidyaliye*' at the National Conference on "Language, literature and society: A contemporary education discourse" held at the Department of Education, University of Delhi on 3 March, 2017.

Presented a paper, '*Pathyacharya gyan ke saath sanglagnata, shikshika ki awasthiti ewam sammanita ki bhasha*' at the National Conference on "Teacher Education: Current scenarios and future possibilities" held at Department of Education, University of Delhi during 10 and 11 March, 2017.

### **Extension and Outreach Activities**

Students were involved in various community service activities in the nearby slum areas and also engaged children of the migrant labourers by giving them education. Some of the students were instrumental in sensitizing parents of girl child about regularity and punctuality in attending school.

### **Library Development**

An amount of Rs. 1,01,687/- was utilized by the library to procure books, journals etc. Around 117 new books were added to the library this year. The library also subscribed to 18 journals besides the e-journals available to it through DULS.

### **Faculty Strength**

Permanent –14; Ad-Hoc – 4

### **Financial Allocation and Utilization**

Total grant sanctioned – Rs. 6.02 crores

Grant Utilized –Rs. 4.52 crores

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## **MAITREYI COLLEGE**

### **Major Activities and Achievements**

The college has been accredited with ‘A’ Grade by NAAC. The Department of Biotechnology has accorded the Star College Status to four departments of the college viz. Botany, Chemistry, Physics, Zoology. The college has undertaken an initiative for children with special needs by linking schools with colleges, a first of its kind in University of Delhi. A seminar ‘Bridging the Gap’ was organised by Maitreyi College in collaboration with Sanskriti School. The college had signed an MOU with THSTI under which several workshops were conducted for the students and teachers. The foundation stone for Girls Hostel was laid by the Vice Chancellor, Prof. Y. K. Tyagi. A number of workshops, seminars and lectures for students as well as teaching and non-teaching staff were organised to enhance their understanding, credibility and exposure to relevant issues and profiles. For enhancing and promoting student involvement and student centric learning environment the college initiated short term courses – Two Certificate courses in French and Spanish language were launched successfully in collaboration with the Department of Germanic and Romance Studies, University of Delhi.

### **Honours / Distinctions**

Dr. Savita Datta, Principal, was awarded, under special category, by the University of Delhi for her outstanding contribution to the University on 95<sup>th</sup> Foundation Day of Delhi University, held on 1 May, 2017.

Dr. Pramod Kumar was awarded “*Sanskrit Samardhak Samman*” by Delhi Sanskrit Academy on 17 Aug., 2016.

The project , ‘Development of Slow release of fertilizers from biowaste using the techniques of nanotechnology’ under the supervision of Dr. Ramesh Kumari, Dr. Lata Vodwal, Dr. Pooja Baweja, was awarded as “*Most Significance Societal Impact*” at 93<sup>rd</sup> Convocation held on 19 Nov., 2016.

### **Students with Distinction**

Aafreen Khan, Sheeba, Pratibha Goel of B.Sc.(Hons.) Zoology III year, secured I, II, III positions in University respectively.

Divyanshi Sharma of B.Sc.(Hons.) Mathematics III year secured first position in the University.

The Delhi University team under the leadership of Prakriti Sharma, a student of B. Sc. Physical Science, won Asia Pacific Title in Google Online Marketing Competition 2017. It was the first time that any team from Delhi

University has won the challenge in the history of 10 years. The team comprised of 3 members: Prakriti Sharma, Ankita Grewal and Raghav from IP College, along with their mentor G. Lal from the college.

#### **Publications – 74**

Chaudhary, A. and Khurana, J.M. (2016). 2-Hydroxy-1,4-Naphthoquinone: A Versatile Synthone in Organic Synthesis. *Current Organic Chemistry*, 20(12),1314-1344.

Chaudhary, A., Khurana, J.M. and Saluja, P. (2016). Recent Advances in the Application of Meldrum's Acid in Multicomponent Reactions. *Current Green Chemistry*, 3, 328-345.

Khurana, J.M., Lumb, A. and Chaudhary, A. (2017). NaBrO<sub>3</sub>/bmim[HSO<sub>4</sub>]: a versatile system for the selective oxidation of 1,2-diols,  $\alpha$ -hydroxyketones, and alcohols. *Monatshefte fuer Chemie*, 148, 381-386.

Kumar, C. Mishra, N.K., Kumar, A., Bhatt, M., Chaudhary, P. and Singh, R. (2016). Structural investigation of nanomixed xSnO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> synthesized by sol-gel route. *Applied Nanoscience*, 6(7),1059-1064.

Lumb, S., Lumb, S. and Prasad, V. (2016). Rovibrational spectra of bounded diatomic molecules. *International Journal of Quantum Chemistry*, 117(6) 25339.

Lumb, S., Lumb, S., Sen, K.D. and Prasad, V. (2017). Effect of dipole moments on orientation and alignment of a bounded molecule. *Journal of Molecular Structure*, 1137, 300-309.

Muttoo, S. and Badhani, S. (2017). Android malware detection: state of the art. *International Journal of Information Technology*, 9(1),111-117.

Naqvi, I., Gupta, R., Makhija, S., Toteja, R., Abraham, J.S., Sripoorna, S., El-Serehy, H.A. and Al-Misne, F.A. (2016). Morphology and morphogenesis of a new oxytrichid ciliate, *Notohymena limus* n. sp. (Ciliophora, Oxytrichidae) from Delhi,. *Saudi Journal of Biological Sciences*, 23(6), 789-794.

Singh, B.M., Bhandari, H., Ruhi, G., Gairola, S.P. and Dhawan, S.K. (2017). Evaluation of an advanced self healing and highly durable corrosion protective epoxy coating modified with Poly(Aniline-co-Pentafluoroaniline)/ZrO<sub>2</sub>, Nanocomposite on Mild Steel. *Current Smart Material*, 2(2), 1-16.

Shankardas, M. (2016). Women and aging: An international, intersectional power perspective. *Asian Journal of Women's Studies*, 22(3), 351-353.

#### **Teachers serving as Editor(s)/Member(s) of Editorial Board – 02**

#### **Research Projects**

Dr. Brotoji Roy, project funded by Department of Biotechnology, 'Understanding signaling mechanism of inflammation in teleost *Channa punctatus*' for Rs. 40 Lakhs.

Dr. Rajani, project funded by UGC (Start-up project), 'Silica based organic-inorganic hybrid material: synthesis, characterization and their application as catalyst for various organic transformations' for Rs. 6 Lakhs.

Dr. Hema Bhandari, project funded by UGC (Start-up project), 'Development of conducting polymer nanocomposites decorated materials for antistatic and antimicrobial applications' for Rs. 6 Lakhs.

Dr. Lata chandra, project funded by UGC (Start-up project), 'Design and synthesis of potential imidazo [2,1-b][1,3,4]-thiadiazole derivatives as anticancer agent' for Rs. 6 Lakhs.

Dr. Ankita chaudhary, project funded by UGC (Start-up project), 'Development of proficient novel synthetic methodologies for the synthesis of bioactive heterocycles and their biological evaluation' for Rs. 6 lakhs.

Dr. Rama Sisodia, project funded by UGC, 'Identification and characterization of selected flowering genes of the Bamboo *Dendrocalamus strictus*' for Rs. 3 Lakhs.

#### **Seminars Organised**

Seminar, 'Harmonic Oscillation and Fourier Transformations' by Prof. Ajay Kumar, (Formerly) Dean Research, University of Delhi on 29 March, 2017.

Seminar, 'Hydrogen Bond Interaction without Borders' by Prof. Gautam Desiraju, from Indian Institute of Science, Bangalore on 25 Feb., 2017.

Seminar, 'Journeys into Space: Recent Explorations of the Surface Environment of Mars' by Prof. S K Tandon, Sir J C Bose Professor, at IISER Bhopal on 16 Jan., 2017.

Seminar, 'Assistive Technologies' by Prof. Anil Aneja, OSD, EOC, University of Delhi on 21 April, 2016.

Seminar, 'Detection of Breast Cancer' by Dr. Anita Khokhar, Dept. of Community Medicine, Vardhaman Medical College and Safdarjang Hospital in Oct., 2016.

### **Conferences Organised**

National conference on "Interdisciplinarity: Prospects and Challenges" was organised during 5 to 7 April, 2017 under the aegis of Star College Scheme, Department of Biotechnology.

### **Seminar / Conference Presentations**

Ankita Chaudhary presented a paper in an International conference on "Green chemistry in environmental sustainability and chemical education," organised by Daulat Ram College on 17 and 18 Nov., 2016.

Lata Vodwal presented a paper in an International conference on "New Frontiers in Carbohydrate Chemistry and Biology" held at Department of Chemistry, University of Delhi, on 14 to 16 Nov., 2016.

Divya Singh presented a paper in an International conference on "Green chemistry in environmental sustainability and chemical education" organised by Daulat Ram College on 17 and 18 Nov., 2016.

Jaspreet Kaur presented a paper in an International conference on "Environment & Ecology: Sustainability and Challenge" held at Conference Centre, University of Delhi on 4 to 6 Jan., 2017.

Pramod Kumar presented a paper in an International Seminar on "Various aspects of Physical Education, Yogic & Allied Sciences" held at Gandhi Bhawan, Varanasi on 27 and 28 Sept., 2016.

### **National / International MoUs**

The college signed an MoU with THSTI (Translational Health Science and Technology Institute), an autonomous institute of Department of Biotechnology, Ministry of Science and Technology, Government of India.

### **Placement Details**

Students Placed – 55 (39.3%)

Companies visiting campus for recruitment – 07

### **Extension and Outreach Activities**

Various outreach and extension activities were conducted to fulfil institutional Social Responsibility:

*Science Setu* programme was organised wherein students interacted with experts from THSTI in the field of "Drug Delivery, Paediatric Biology, Viral & Infectious Diseases Research."

Celebration of National Science Day on 28 Feb., 2017 for generating awareness about "Science and Technology for Specially Abled Persons" and advocating the theme of inclusion for persons with disability. NSS volunteers worked as readers and writers for visually-challenged students.

Anti-Narcotics campaign was conducted.

### **Library Development**

Library services were automated through SOUL software developed by INFLINET, A centre of University Grants Commission. The college library acquired 1568 text books and reference books and subscribed to 10 more journals. The library subscribes to e-resources (6000+ e-journals and 97000+ e-books) through N-LIST and INFLIBNET.

### **Faculty Strength – 104**

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 30.38 Crores

Grant Utilized – Rs. 37.12 Crores



### **Other Significant Information**

Many of our students participated in NCC and NSS events at state and national levels and won several awards.

The institution has undertaken several Initiatives to make the campus eco-friendly:

Ensuring proper maintenance of Rain Water Harvesting system.

Enrichment of Herbal & Medicinal Garden.

Recycling of waste & sensitization campaigns as carbon/ water footprint.

Practicing Vermicomposting.

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## **MATA SUNDRI COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

This year marks the Golden Jubilee of Mata Sundri College for Women. An “Inter University Cultural Folk Songs Competition” – “*Vehrah Shagana Da*” was organised in the college premises as part of the ongoing celebrations of the Golden Jubilee anniversary of the College. The 50<sup>th</sup> Golden Jubilee Year Invitational Inter College Volleyball, Judo & Chess (for Visual Impaired Students) Championship was also organised. ‘Gyanbardhani Sabha’ of Sanskrit Department organised four inter class competitions between Sept 2016 to March 2017. Chitra Karma Prtiyogita, ShlokaAntyakshari, Shlokavrittianand Prashnamanch were organised for the first time in Saarang on the occasion of Golden Jubilee celebration. A national level essay competition on the topic Life of Mata Sundri Jiwas also conducted. Seven Departments released e-journals/newsletters. Alumni meets were organised across departments. The Deputy Commissioner of Police organised a workshop on safety tips and on the legal aspects of cyber-crime against women in the college on 21 Feb., 2017. Two National Level Seminars were organised in collaboration with University Grants Commission.

Approval of two new courses B.Sc. in Statistics and Computer Science has been granted by the University. These courses will be introduced from the next academic session.

### **Honours / Distinctions**

College has been accredited with Grade ‘B’ for the period of 2016-2020.

Shalini won silver medal at the All India Senior National Rugby 15<sup>th</sup> Women’s Championship held at Kolkata, from 19-23 Sept. 2016.

Ritu Gola and Sapna were a part of team that won Indo-Bhutan Rokit Ball Championship six series match at Phuentsholing Bhutan held from 16-18 July 2016.

### **Publications**

Kaur, J. (2017). Manmohan Bawa di Punjabi Kahani: IkPadat. *AABRU*. ISSN: 2456-253X

Virdi, I. (2017). Green Marketing Mix: A Study of Strategies Adopted by MNCs. *International Research Journal of Management, Science and Technology*. ISSN 2348 9367

Arora, R. (2016). Multivariate Discriminant Predictive Modeling of Transactional Credit Risk in SME and Mid Corporate Lending Abhigyan. *The International Journal of FORE School of Management*.

Dey, M. (2016). *MGNREGA: Success or Failure*. Delhi: Adroit Publishers. ISBN:978-81-87393-07-8

Kaur, K. (2016). Small and Medium Enterprises Difficulty in Access to Finance and their Implication in India Growth: Vision 2020. *Journal of Research and Studies*. 1, 167-172.

Meena, L. (2016). *Yonikta Vimrs Reeti kavy Me Vaad-Samvaad*. ISSNNo. 2348-8662

Pradhan, D. (2016). Literature Without Borders: Mapping Vikram Seth’s Cosmopolitan Sensibility. *Translation Today*. 10(1), 274-286. ISSN 0972-8740

Savita. (2016). Rukogi Nahi Radhika Uppanyas Mein Naari ki EkNai Drishti. *Muha*. Meerut: Chaudhary Charan Singh University. ISSN.No.973/5577

Sethi, K. (2016) Balihari Kudrat Vasaya : Guru Granth Sahib vich paristhithic Sandesh. *Samdarshi*, Punjabi Academy Delhi. (Govt. of Delhi, NCT).

Sethi, K. (2016). First Raj of the Sikhs: The Life and Times of Banda Singh Bahadur. *Baba Bandha Singh Bahadur: Mahan Sikh Jarnail edited by Dr Harbans Kaur Sagoo*, Delhi: Manpreet Parkashan. ISBN.No. 81-87762

### **Seminars Organised**

The first National Conference, ‘Perspectives of Successful Ageing’ was organised in collaboration with Indian Association of Positive Psychology (IAPP) and the UGC on 23-24 Sept., 2016. Some of the notable dignitaries who participated were Dr. N.K. Chadha, President IAPP, Dr. Girishwar Misra, VC, Indira Gandhi Antarrashtriya Hindi Vishvavidyalaya, Wardha; Dr. S.S. Nathawat, Director Amity Institute of Behavioural Sciences & Allied Sciences; Prof. Purnima Singh, Dept of Humanities and Social Sciences, IIT Delhi; Dr. Arvind Mishra, ZHCES, JNU, New Delhi among others.

A National Seminar , “18<sup>th</sup> Century Punjab” was organised on 6-7 Oct., 2016. The Panel had the same participants from the above Conference.

### **Seminar / Conferences Presentations**

Ishpreet Viridi presented paper, “Effect of Perceived Deception on Willingness to Buy and Intention to Repurchase: An Exploratory Research” at Annual Conference of the Emerging Markets Conference Board at IIM Lucknow, Noida Campus held during 5– 7 Jan., 2017.

Charu Arya presented paper, “Media aur Aajeevika” in a National Seminar at Sri Guru Nanak Dev Khalsa College, Delhi University held in Feb., 2017.

Nidhi Kunwar presented paper, “Literacy Experiences, Engagement And Experiences: A Barrier For Marginalized Community” in the National seminar, ‘Exploring Psychosocial Perspectives in Education’ at Central Institute of Education under the aegis of IASE, MHRD, Government of India on 28 Jan., 2017.

Poonam Sharma presented paper, “Gandhi & Women Empowerment”, at seminar ‘Remembering Gandhi in the era of Globalisation’ at the Gandhi Study Circle at Satyawati College (Morning) held on 10 Aug., 2016.

Rachna Kumari presented paper, “Understanding Forest Rights through the Prism of Gender” at symposium on “Earth One, Common Humanity” at University Guest House, Delhi University on 12 Dec., 2016.

### **Placement Details**

Students Placed –76

Companies visiting campus for recruitment – 6

### **Extension and Outreach Activities**

College observed *Swachhta Pakhwara* from 16 Aug. to 1 Sept., 2016. On this occasion a seminar on “Personnel hygiene and clean surrounding.” The students visited a slum near the college to spread awareness about cleanliness. They also visited Dr. Deen Dyal Viklang Jan Sansthan to dedicate their services for the cleanliness drive there.

The joint venture of B.El.Ed. and B.A (Education) The School Collaboration Project –Sahyog: Stepping Together Ahead– extended its wings and initiated collaboration with second school ‘Kamlesh Balika Vidhyalaya’ after its successful experience with the school ‘SGHK Government Senior Secondary School’.

### **Library Development**

2572 (General 2455& B.El.Ed 117) books were added during the year 2016-17. The library also subscribes to 70 Journals and Magazines.

### **Faculty Strength**

Permanent – 86; Ad-Hoc – 82

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 28.06 Crores

Utilized – Rs.28.65 Crores

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## **MIRANDA HOUSE**

### **Major Activities and Achievements**

Miranda House has been awarded NIRF All India Rank One in the India Rankings – 2017 announced by Mr. Prakash Javedkar, Minister of HRD on 3 April, 2017. MH was given an Institutional Grade of A+ with CGPA 3.61 by NAAC. Dr. Monika Tomar was the only college teacher to receive the Teaching Excellence Award 2016 at the 94<sup>th</sup> DU Foundation Day ceremony. Science departments of the college were granted Star College Status by DBT after a review with a sanction of Rs 76 lakh for three years. The college launched its seventieth year celebrations in March, 2017 by honouring seven alumnae across decades and conferring the Alumnae Association Excellence and Achievement Awards on former Principals Dr. T.S Rukmani and Dr. Kiran Datar. Dr. Najma Heptulla, Governor of Manipur, inaugurated the Miranda House Centre for North East Studies in partnership with Institute of Bioresources and Sustainable Development in Feb., 2017. This year nearly 150 students received the Inspire scholarship and 120 applicants from First Year.

### **Honours / Distinctions**

Dr. Pratibha Jolly received the GIREP 50th Anniversary Medal presented at the 50th Anniversary GIREP Seminar, Research-based proposals for improving physics teaching and learning – focus on laboratory work, JU Institute of Physics, Jagiellonian University, Kraków, Poland and was also honoured for Life time Contribution to Physics Education in the Country by Indian Association of Physics Teachers (Regional Council – Delhi and Haryana), awarded at the 4th Annual Convention of IAPT Regional Chapter RC1 on 23 July, 2016.

Dr. Sharmila Purkaystha received Fulbright Nehru Postdoctoral fellowships, 2016-2017

Dr. Monika Tomar received the Excellence Awards for Teachers in Colleges on 1 May, 2016, the University Foundation Day.

Ms. Suvasini received the Chancellor's International Research Scholarship from University of Sussex to do Ph.D in Education.

Two DU Innovation Projects, 'MH 301: Climate Change, Water Security and Livelihood Resilience: Role of Traditional Knowledge and Modern Technologies in Rajasthan, India' and 'MH 306: Design of Affordable Water Purification devices using Green and Ecofriendly Bioactive Agents' were awarded Certificates of Appreciation and selected as poster presentation on 1 May, 2016, the Delhi University Foundation day. These were amongst the top 20 selected from 400 DU Innovation projects.

### **Students with Distinction**

Supriya Bajpai of B.A. (Hons) Philosophy III year secured I position in the University.

Ninadini Sharma of B.Sc. (Hons) Botany III year secured I position in the University.

Priyanka Modi of M. Sc. (Final) Mathematics secured I position in the University.

Divya Dutt of M. A. (Final) Music secured I position in the University.

Smriti Bala of B.A. (Hons) Sanskrit III year secured II position in the University.

Anamika Manna of B. A. (Hons) Bengali III year secured II position in the University.

Anamika Sharma of B. A. (Hons) Music III year secured II position in the University.

Ruchi Bhatt of B.Sc. (Hons) Botany III year secured II position in the University.

Taekwondo team continued their winning spree for the fourth consecutive year by becoming the Winner's in the Delhi University Inter College Taekwondo Championship with 6 Gold medals and 1 Silver medal.

Tennis team and the netball team emerged Winner's in the Delhi University Inter College Tennis and Netball Championship.

Archery team secured II Position in Indian Round in the Delhi University Inter-College Archery Championship.

Yoga team secured III Position in the Delhi University Inter College Yoga Championship.

Athletics team secured IV Position in the 92<sup>nd</sup> Delhi University Inter College Athletics Meet by winning 2 Gold, 4 Silver and 1 Bronze medal.

Weight Lifting team won 1 Silver and 1 Bronze medal in the Inter College Weight Lifting Championship and the Power Lifting team won 3 Bronze medals in the Inter College Power Lifting Championship.

## Publications

Aggarwal, S. and Gupta, C. (2016). Solving intuitionistic fuzzy solid transportation problem via new ranking method based on signed distance. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems*, 24, 483-501.

Gupta, R., Tomar, M., Rammohan, S., Katiyar, R. S. and Gupta, V. (2016). Multiferroic cantilever for power generation using dual functionality. *Applied Physics Letter*, 109, 193901.

Jindal, K., Tomar, M., Katiyar, R. and Gupta, V. (2016). Raman scattering and photoluminescence investigations of N doped ZnO thin films: Local vibrational modes and induced ferromagnetism. *J. Applied Physics*, 120, 135305.

Kaur, B. (2016). Sustainable Development In India: Issues and Challenges. *Ind. J. Economics and Develop*, 12(4), 751-758.

Pathak, M., Sharma, M., Ojha, H., Kumari, R., Sharma, N., Roy, B. and Jain, G. (2016). Green synthesis, characterization and antibacterial activity of silver nanoparticles. *Green Chemistry & Technology Letters*, 2, 108-115.

Sharma, M., Pathak, M., Ojha, H., Kumari, R., Sharma, N., Roy, B. and Jain, G. (2016). Green synthesis, characterization and antibacterial activity of silver nanoparticles. *Green Chem. & Tech. Lett.*, 2(2), 103-109.

Saraav, I., Pandey, K., Sharma, M., Singh, S., Dutta, P., Bhardwaj, A. and Sharma, S. (2016). Predicting promiscuous antigenic T cell epitopes of Mycobacterium tuberculosis mymA operon proteins binding to MHC Class I and Class II molecules. *Infect. Genet. & Evol*, 44, 182-189.

Sinha, R.S., Mukherjee, S., Ballard, B.R. and Das, S.K. (2016). Protection against Dimethylbenz[a] Anthracene-induced breast cancer in female rats by  $\alpha$ -Lactalbumin. *International Journal of Cancer and Oncology*, 3(1), 1-6.

Talwar, J., Mohanty, R. K. and Singh, S. (2016). A new algorithm based on spline in tension approximation for 1D quasi-linear parabolic equations on a variable mesh. *International Journal of Computer Mathematics*, 93(10), 1771-1786.

## Research Projects

Star Innovation projects scheme of University of Delhi Total sanctioned budget 2016-17 for Rs 1.3 Crore.

Dr. Pratibha Jolly, Dr. Bani Roy, Dr. Mallika Verma, Dr. Janaki Subramanyan, project funded by University of Delhi, , 'Eureka My Lab! Developing Resources and Hands-on Science Activities and an Adaptation Accessible for Visually Impaired- MH01' for Rs 37.50 Lakhs.

Dr. Sadhana Sharma, Dr. Smriti Bhatia, Dr. Rekha Kumari, project funded by University of Delhi, , 'Therapeutic potential of Medicinal Plants: Culture, Extraction, Physicochemical Characterization and Testing their Cytotoxic or Immunostimulatory Properties- MH02' for Rs 26.67 Lakhs.

Dr. Pratibha Jolly, Dr. Bani Roy, Dr. Amrita Tripathi Sheikh, Dr. Mallika Pathak, Dr. Jyoti Arora, project funded by University of Delhi, , '3R: Reduce, Reuse, Recycle – MH03' for Rs 40.88 Lakhs.

College project, funded by University of Delhi, , 'Core Development of College Infrastructure under Star Innovative Project Scheme' for Rs 26 Lakhs.

Prof. Vinay Gupta and Dr. Monika Tomar, project funded from Department of Science and Technology, 'Development of thin film Surface Acoustic Wave device as a platform for the sensing applications' for Rs. 4,44,34,603/-.

Dr. Sadhna Sharma and Dr. Monika Sharma, project funded from Department of Biotechnology, 'Molecular Cloning and Immunological Validation of Three Hypothetical Proteins of M. Tuberculosis with Strong T-cell Epitopes' for Rs. 66.48 Lakhs.

Dr. Poonam Kumria, project funded by UGC, , 'Detoxification of environmental persistent organic pollutants primarily pesticides using functionalized nanomaterials' for Rs. 6.74 Lakhs.

Dr. Rakhi Parijat and Dr. Namrata Singh, project funded from JNU Disaster Research programme, , 'Neighbourhood Mapping' for Rs. 2 Lakhs.

### **Patent Filed**

Patent filed by Dr. Monika Tomar on *Multi-States Non Volatile Opto-Ferroelectric Memory* –Application no.-201611001338 filed on 13 Jan., 2017.

### **Seminars Organised**

Seminar, 'Riddle of Ravens' delivered by Dr. Kit Patrick, Department of Philosophy, School of Arts, University of Bristol, UK on 23 Jan., 2017

Seminar, 'Blind poet seen in Mewar Paintings' by Prof. John S. Hawley, International, Columbia University on 23 Feb., 2017

Seminar, 'Governing Riverscapes' by Dr. Alexander Follmann, Lecturer and Researcher at Institute of Geography, University of Cologne, Germany on 28 Sept., 2016

Seminar, 'Innovation in Science Education' by Ken Silburn, Founder and Coordinator, iSTEM Australia on 3 Aug., 2016

### **Conferences Organised**

Conference, 'Language, Ethics and Governance: Decoding Logic, Argumentation and Rhetoric in Indian Politics' from 24 to 25 Jan., 2017.

Conference, 'Information Technology and Society' on 15 Feb., 2017.

Conference, 'Many meanings of the heritage' on 15 Feb., 2017.

Conference, 'Epigraphy and Sanskrit in world literature' from 14 to 15 Jan., 2017.

9<sup>th</sup> Indo-Dutch Collaborative Programme, 'Management and Cultural Contexts' from 25-29 Jan., 2017.

International Cosmic Day on 2 Nov., 2016.

### **Seminars / Conferences Presentations**

Pratibha Jolly presented a paper, 'Plenary, Physics Education and Global Challenges' at the Annual Forum of Erasmus Project "Horizons in Physics Education (HOPE); Life Long Learning Programme of European Union; Constanta, Romania" held during 7 to 11 Sept., 2016.

Pratibha Jolly presented a paper, 'Women in Physics and Physics Education' at the ICPE-GIREP World Conference on "Physics Education (WCPE), Contemporary Science Education and Challenges in the Present Society: Perspectives in Physics Teaching and Learning," held at University of São Paulo, São Paulo, Brazil, from 11 to 15 July, 2016.

Sadhna Sharma presented a paper, 'Latency associated antigens Rv2032 and Rv2626c emerge as good vaccine candidates against Mycobacterium tuberculosis' at the 26<sup>th</sup> ECCMID Congress "European Congress of Clinical Microbiology and Infectious Diseases" held at Amsterdam, Netherlands from 9 to 12 April, 2016.

Sadhna Sharma presented a paper, 'Rv2626c and Rv2032 produce a TH1 response in Tuberculosis patients and their healthy contacts' at the Keystone Symposia "S1 Translational Vaccinology for Global Health" held at London, United Kingdom from 25 to 29 Oct., 2016.

Mallika Verma presented a paper, 'INSPIRE Internship Camps: Nurturing Talent of Young Students in Sciences' at the "International Journal of Arts and Sciences Conference" held at Toronto, Canada from 31 May to 03 June, 2016.

Bijayalaxmi Nanda was a panelist on 'Ensuring Women's Equal Participation in the Cyber Revolution' at the panel organised by Centre for Social Research at the "60<sup>th</sup> Session of the United Nations Commission on the Status of Women (CSW-60)" held at New York, USA from 14 to 24 March, 2016.

Bashabi Gupta presented a paper, 'Images and livelihood: constructing the Bengali marriage rituals and practices in India' in the International Conference on "Modern Matters: Negotiating the Future in Everyday Life in South Asia" held at University of Lund, Sweden during 20 to 22 Sept., 2016.

Monika Tomar presented a paper, 'Prominent Photo-voltaic response in Multiferroic BFO/BTO Heterostructures' at the Joint IEEE International Symposium on "Applications of Ferroelectrics (ISAF), European Conference on Applications on Polar Dielectrics (ECAPD)" and Workshop on "Piezoelectric Force Microscopy (PFM)" held at Darmstadt, Germany from 21 to 25 Aug., 2016.

Kalawati Saini presented a paper, 'Concentration- dependent electrochemical synthesis of Quantum Dot and nanoparticles of copper and shape- dependent degradation of methul orange' at the "Conference American Advance Materials Congress (AAMC-2016)" held at Miami, USA from 4 to 9 Dec., 2016.

A.R Sitalakshmi presented a paper, 'Promoting students understanding of Chemical Bonding through an intervention based on constructivist approach' in the World STE2016 "5<sup>th</sup> World Conference of Science and Technological Education" organised by International Council of Associations for Science Education held at Antalya, Turkey from 01 to 05 Nov., 2016.

### **MOUs Signed**

International:

Utrecht Business School, the Netherlands Indo Dutch Program.

Lynchburg College, USA; bilateral exchange of faculty and students.

George Washington University, Washington DC, USA; academic collaboration.

Ontario Universities, Canada; students exchange program.

GIREP: Groupe International de Recherche sur l'Enseignement de la Physique, International Research Group: To promote physics education and physics education research activities, share information and other collaborative efforts.

National:

National Institute of Immunology (NII); Science Setu Programme.

IRIS Publication Pvt. Ltd; training programmes conducted.

Google Ltd; Use google apps for education.

IPCA; assistance with safe disposal of plastic waste.

Tata Solar Power; undertake industry based project work.

Guiding Star Digital Publisher; develop apps.

Sonem; for installing and maintaining luminaries.

### **Other International Collaborations**

S.P. Jain School of Global Management

University of Chicago, Graham School of Continuing Liberal and Professional Studies, USA

University of Chicago Delhi Centre

Utrecht Business School, the Netherlands

George Washington University, Washington DC, USA  
Lynchburg College, Virginia, USA  
Wisconsin University, USA  
University of Sussex, UK  
King's College, London, UK  
University of Sydney, Australia  
American Embassy  
Australian High Commission

### **Students under Exchange Programme**

Outbound:

SP Jain School of Global Management: Initiative at Miranda House (2 students in Dec., 2016)  
Utrecht Business School on *Strategic Management and Culture* from June to July 2016 (2 faculty and 12 students )  
Lynchburg College (one student has been selected for Master's in Science Education).  
Wisconsin University (2 faculty and 2 students in Aug., 2015)  
Chicago University (1 student has been offered generous financial assistance to pursue Master of Liberal Arts)  
University of Sussex ( one student to the Sussex University International Summer School has been selected to attend a four week summer school module on Health in a Global Perspective in July-Aug., 2016)

Inbound:

Utrecht Business School (10 students)

### **Placement Details**

Students Placed –90 (90%)

Companies/industries visiting campus for recruitment – 40

### **Exchange and Outreach Activities**

A variety of forums in Miranda House engage in extension and outreach.

Clean Environment: NSS volunteers and MH Vatavaran members participate regularly in DU campus cleanliness drive, Yamuna cleanliness drive, clean India green India, Mega tree plantation drive.

Education for the underprivileged children. 60 NSS volunteers take turns to teach school going students helping them with their homework 3 teaching centres of the NSS currently: one is in the slums of Kriti Nagar, the other is slums of Malkaganj and the third one in Hudson Lane.

Helping people with disabilities: NSS and Enabling Society volunteers assist visually challenged students in many ways, by providing academic help by read and recording lessons, etc.

Awareness Drive for generating awareness on diseases like Alzheimer's at Lodi Garden on 20 Sept., 2016 and Cancer awareness programme

Two well established projects, *Tarang* and *Zaffran*, aim at making women in slums economically independent: *Enactus* volunteers have undertaken to empower communities in need through social enterprise

### **Library Development**

The total sanctioned budget was Rs. 19,74,293/- . In the academic year 2016-17, 686 volumes of books were added. This newly renovated library with unobstructed long corridors; expansive reading halls with flux of natural light and air ventilation has led to increase in the occupancy of the library. The Libsys LSEase Management Software was upgraded to Web centric OPAC, connected to DU LAN, it provides access to DULS and major databases such as N-LIST and INFLIBNET. Orientation programme was organised for faculty and now OPAC is available on Intranet. Information Literacy Workshop was organised for faculty and students in collaboration with Delhi University Library system to upgrade them on e-resources available on DULS portal. Book Exhibitions are held every year.

### **Faculty Strength**

Permanent – 139; Ad Hoc – 52

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 42 crores

Grant Utilized – Rs. 41 crores

### **Other Significant Information**

Students have been selected for internships in the best institutes. As many as 20 science students did summer internship at Vikram Sarabhai Space Centre, ISRO, Chennai Mathematical Institute, NIUS, Tata Institute of Fundamental Research, Physics Research Laboratory, Indian Institute of Science, Inter-University Accelerator Centre, Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR). More than fifty students worked as summer interns in the DS Kothari Centre for Research and Innovation in Science Education at Miranda House.

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## **MOTILAL NEHRU COLLEGE**

### **Major Activities and Achievements**

Several activities were organised through the year. The Chemistry Society “Quimica” organised an inaugural lecture on 15 Sept., 2016. Commerce society organised a conclave. The department of Computer Science hosted two successful department fests TECHNOBREAK in the years 2016 and 2017. The department of Economics held its Annual festival Wirtschaft. The English Department organised its festival LitCelebrate 2017 and also a slam poetry competition.

The Mathematics society organised its annual cultural festival FRACTAL 2K-17. The physics association organised a one day physics fest on March 28 2017. The Department of Political Science organised Lectures and Competitions for Students. The Department of Sanskrit organised couple of Lectures and a Competition *Shalokochcharan and Prshanmanch Pratiyogita*.

### **Honours / Distinctions**

Dr. Khole Timothy Poumai was awarded Ph.D. in Mathematics.

Dr. Mukesh Kumar completed a course in M.Sc. Economics and Financial Economics at Nottingham University, U.K (Faculty Development Programme ).

### **Students with Distinctions**

Janvi Gupta pf B. Com (Hons) I year secured I rank.

Arpan Hosal of B. Sc. (Hons) in Physics I year secured I rank.

Akash Karmakar of B. Sc. (Hons) Mathematics secured I rank.

Bhargavee Dass of B.A. (Hons) Economics secured I rank.

### **Publications**

Agrawal, S. (2017). Synthesis, characterization of 1,2,4-triazole Schiff base derived 3d-metal complexes: Induces cytotoxicity in HepG2, MCF-7 cell line, BSA binding fluorescence and DFT study. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 171, 246-248.

Gupta, M. (2016). Share Buyback and Firms' Performance: A Study of Selected Indian Companies. *International Journal of Trend in Research and Development (IJTRD)*, 3(4), 1-6. ISSN: 2394-9333



Bhardwaj, S. B. (2016). *Contestations and Accommodations: Meos in Mughal India*, Oxford University Press, New Delhi.

Maurya, V. (2016). Pollution and plants: Changing policy paradigms. In Kulshrestha, U. & Saxena, P (Eds.), *Plant Responses to Air Pollution*, (pp. 151-163).

Kaushalya, (Ed.) *Quotation of Human Rights: Indian Society*. New Delhi: Saannidhya Books. ISBN No. 978-81-932311-2-8

### **Seminars Organised**

Seminar, 'Womanhood in India-Changing Roles, Positions and perceptions' organised on 8 March, 2017.

Seminar, 'Sanskrit and World Literature' organised on 3 Feb., 2017.

Seminar, 'Within Empire, Beyond Empire: Region in Indian History' organised on 22 March, 2017.

Ateet, the History Society, organised a seminar on the theme 'Within Empire, Beyond Empire: Region in Indian History' on 22 March, 2017.

हिन्दी विभाग द्वारा 2013-14 में 'मध्यकाल और समकालीन प्रश्न' विषय पर आयोजित दो दिवसीय राष्ट्रीय संगोष्ठी में प्रस्तुत किए गए शोध आलेखों पर हिन्दी विभाग के अध्यापक डॉ॰ धनंजय दुबे द्वारा संपादित पुस्तक 'मध्यकाल : एक पुनर्मूल्यांकन' (नटराज प्रकाशन, दिल्ली) का लोकार्पण, 27 जनवरी, 2017 को किया गया।

### **Placement Details**

Students Placed – 55 (37%)

Companies visiting campus for recruitment – 05

### **Extension and Outreach Activities – Three**

### **Library Development**

During the current Year 1990 Volumes worth Rs. 10,28,750/- were added bringing the total to 114800 Volumes. The Library has more than 23800 books in the Book Bank/Student Aid Fund Section. The Library is presently subscribing to about 86 Periodicals and Magazines of Literary, Scientific and General Interest.

The Library has Two Computer Systems with specialized software for Visually Challenged Students. The Library also has Three Laptops and Two E6 devices with specialized software for Visually Challenged Students. The Library has up-to-date online Catalogue (OPAC) of all its holdings for all the Users.

### **Faculty Strength**

Permanent – 87 ; Adhoc – 56

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 24.21 Crores

Utilized – Rs. 27.60 Crores

### **Other Significant Information**

Dr. Vidya Pradhan and Dr. Swati Agrawal Presented papers in seminars.

Mr. Manish Kumar successfully defended his Ph. D Viva

Dr. Anu Pandey, Monika Gupta, Dr. Devendra Jarwal Dr. Deepti Singh and Dr. Seema Srivastava presented papers in various conferences.

Dr. Ajad Singh, Dr. Amrit Lal Meena and Dr. Mahendar Singh: Attended refresher course in Delhi University

We are imparting education to all sections of society at minimum fees among DU Colleges. The College NCC organised Youth Exchange Programme, Adventure Camp Sports, and cultural activities and community development program. The Department of Sports had invited Mr. Gurbir Singh (Arjuna awardee – shooting) as the chief guest on the Annual Sports Day on 20 March, 2017.

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## MOTILAL NEHRU COLLEGE (EVENING)

### Major Activities and Achievements

Motilal Nehru College (Evening) established in July 1965, by a distinguished educationist Dr. R.K. Bhan as a Founder Principal, is a constituent college of the University of Delhi,. Apart from imparting education in various popular courses of study under the CBCS three year degree programme like B.A. (Hons) English, B.A. (Hons) Hindi, B. A. (Hons) History, B.A. (Hons) Political Science, B.Com (Hons), B.Com. and B.A. Programme, the college also emphasizes on character-building of the students and includes high moral values to shape them as rational, responsible and self-reliant human beings. This year departments of the college organised various talks and workshops for the students. The Aesthetes,' the Literary Society of English department organised a *One Day Literary Festival*. The Commerce department organised three Career Counseling sessions for the students of the college. The Gender Sensitization Committee of the college organised programmes in collaboration with Delhi Police to inform the students about the laws relating to womens' Rights, juvenile crime and eve-teasing.

### Honours / Distinctions

Dr. R.N. Tripathy visited as Research Fellow at James E. Lynch India and South Asia Business Centre, University of Leeds, UK, 1 Sept., 2016 to 30 Nov., 2017.

Dr. Pradip Sharan was invited as a Resource Person for Panel Discussion on "How can we make our English Language course books contextual and content rich?" in the International ELTAI Conference, Hyderabad during 30 June to 02 July, 2016.

### Students with Distinctions

College Kabaddi Team, winners in Delhi University Kabaddi competition.

First prize in State Competition of Traditional Games Federation of India (TGEI) held in Amritsar.

Mr. Ankit Tokas won Silver Medal in Delhi University Tae-kwon-do Competition.

### Publications

Azharuddin. (2016). Revisiting Vietnam: Change in Politics and Politics of Representation in Vietnam War Literature. *Akademios*, 10 94-107.

Batra, P. (2016). Body, Desire and Performativity in Thackeray's Vanity Fair. *Literary Miscellany, International Journal of Literary Studies*, 5 43-53.

Batra, P. (2016). Inquiring Alice's Curious Nature: A Study of Carroll's Alice Books. In D. D. Halder (Ed.), *Through the Looking Glass & What Alice found There*, Delhi, DL: BookAge. (pp. 183-191).

Rani, A. (2016). Bazar Mein Bazar ke Viruddh. *Yuva Samwad*159.

Sharan, P. (2016). English Language Teaching: A Modern Approach. In S. Kumar (Ed.), *English Language Teaching: A Modern Approach*, Delhi, DL: Atlantic Publisher.

Sharan, P. (2016). The Theme of Identity in the poems of Margaret Atwood, Derek Walcott and Kamala Das-A Post-Colonial Perspective. *Literary Miscellany, International Journal of Literary Studies*.

Sharan, P. (2016). Quality Teacher Education in ELT in India: Suggestions for future. *Osmania Journal of English Studies*, Osmania, Hyderabad.

Tripathy, R. (2017). Human Rights and Corporate Social Responsibility: Need to Develop Mandatory Approach. *Journal of Commerce and Management*, 19, 1-6.

Tripathy, R. (2016). The Enigma of a Democratic Society: State Power and the Question of Human Rights in India. In U. Adhikari & P. V. Dahiya (Eds.), *Contemporary Governance of India: A Critical Evaluation of the Different Aspects of Democracy*. (pp 319-334).

### **Research Projects**

Dr. Gajendra Nath Trivedi, project funded by Indian Council of Social Science Research, , “Changing Contours of Democratic Movements: Analysing Democratic Movements in Bihar and Jharkhand” from 1 Aug. 2016 for a period of two years and for Rs. 5 Lakhs.

### **Seminars Organised**

The Department of Political Science organised Indian Council of Social Science Research sponsored National Seminar on “Human Rights in 21st Century India: Emerging Issues and Challenges” held on 29 and 30 March 2017. More than 120 papers were presented over 14 technical sessions.

### **Seminar / Conference Presentations**

International:

Rajesh Kumar presented a paper, ‘Swami Sahajan and Saraswati, Bihar Provincial Kisan Sabha and the Politics of Caste c.1910s-1939’ at the International Conference on “Bihar and Jharkhand: Shared History to Shared Vision” at Asian Development Research Institute (ADRI), Patna (Bihar) held during 24-28 March, 2017.

Azharuddin presented a paper, ‘Between Legibility and Visuality of 9/11’ at the International Conference organised by Germanic and Romance Studies Department, University of Delhi held during 2 to 4 March, 2017.

Pradip Sharan presented a paper, ‘The Teaching of Grammar Through Literature to the undergraduates in colleges of India: a task-based learning’ at the International ELTAI Conference at Vasavi College of Engineering, Hyderabad held during 30 June to 2 July, 2016.

Priya Bhalla presented paper , ‘Increase Size of Financial Sector Entities and its Impact on Microeconomics Stability’ in an online International Seminar held at Colorado College, USA.

R.N. Tripathy presented a paper , ‘Human Rights Movements in India: Dilemmas and Challenges,’ at the “Social Movements Conference,” held at Brighton University; in collaboration with the Council of European Studies, at Brighton, UK during 10 and 11 Oct., 2016.

National:

R.N. Tripathy presented a paper, ‘State Democracy and Human Rights Movement in India’ at the National Seminar on “Indian Democracy at Crossroads: Issues and Challenges” organised by Satyawati College, University of Delhi, Delhi held during 22 and 23 March, 2017.

M.A. Honest Mohideen presented a paper, ‘Consumer Rights and their Behaviour in the Modern Market’ at the National Seminar on “Human Rights in 21<sup>st</sup> Century India: Emerging Issues and Challenges” at Motilal Nehru College (Evening) held during 29 and 30 March, 2017.

Archana Rani presented a paper, ‘*Hindi Samachar Channel Main Istri Prashn*’ at the National Seminar held at Satyawati College (Evening) held on 10 March, 2017.

Azharuddin presented a paper, ‘Right to Life, farmer’s Suicide and Rule of Law : A View’ at the National Seminar on “Human Right in 21<sup>st</sup> Century India: Emerging Issues and Challenges” held by the Department of Political Science, Motilal Nehru College (Evening), University of Delhi during 29 and 30 March, 2017.

### **Placement Details**

Students Placed – 25

Companies visiting campus for recruitment – 2

### **Library Development**

1844 books were added this year to the library. Library has subscribed to 08 Journals, 08 Magazines and 12 English & Hindi Newspapers. Library has also taken a membership of N-List (Online e-journals & Books).

#### **Faculty Strength**

Permanent – 38; Ad-Hoc – 45

#### **Financial Allocation and Utilization**

Grant Sanctioned/Received – Rs. 14.81 Crore

Grant Utilized – Rs. 14.80 Crore

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## **NEHRU HOMEOPATHIC MEDICAL COLLEGE & HOSPITAL**

#### **Major Activities and Achievements**

The activities for the term include installation of EPABX, A newly constructed guard room at both the entry and exit gates. The renovation of two rooms for Head of Office and Medical Superintendent is under process.

#### **Research Projects**

Lifestyle Disorders –Monday

Skin and Psoriasis –Tuesday

Respiratory Disease/Asthma –Tuesday

Psychiatric Disorders –Wednesday

Fibroid/PCOD/Fibroadenoma Breast –Wednesday

Vitiligo –Thursday

Renal Stones/Gallstones –Friday

Children Disease – Friday

Disease for Old Age –Saturday

Rheumatoid Arthritis – Saturday

Osteoarthritis – Saturday

#### **Library Development**

Internet and photocopy facilities have been made available in the Library

#### **Faculty Strength**

Permanent –25

Guest Faculty –8

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## **P G D A V COLLEGE**

### **Pannalal Girdharilal Dayanand Anglo Vedic College**

#### **Major Activities and Achievements**

PGDAV College was established in the year 1957-58 with five under-graduate courses. Subsequently, mathematics, computer science, etc. were also included. The objective being, promotion of professional Education, Training, and Research and Development in the fields of Commerce, Arts and Computer Studies in order to cater to

the technical manpower needs of the 21<sup>st</sup> century. The college aims to cope with the demands of the contemporary global scenario through effective transaction of the curricular and co-curricular aspects. Academic excellence, personality development and social orientation are its guiding principles. Some of the highlights of this year includes: Hyperion, the cultural society bagged several top positions in various intra and inter-university events. In its quest to provide a platform for making the students nurture their culture, a qawwali programme was organised on 28 March, 2017, where Ustad Yusuf Ali Nizami enthralled everyone with his soulful performance. Geo-Crusaders, the Environment Society organised a plantation drive from 9 to 23 Aug., 2016 and also took initiatives to tag trees in the campus mentioning their common as well as scientific names, apart from continuing its efforts in restoration of Sanjay Van, Mehrauli city forest. NSS successfully launched an app to bridge the gap between blood donors and seekers.

### **Honours / Distinctions**

Dr. Manoj Kumar Kain was honoured with 'Dr. Ambedkar Swachh Bharat Swapna Award' by the Ambedkar Mission.

### **Students with Distinctions**

Mirvaan Vinayak of BA programme I year earned accolades through his participation in the Master-chef India, India's popular reality cooking show.

Deepak Jangid, member of 'Navrang,' College's theatre society, won the Best Actor Award and received four months scholarship from Anupam Kher's acting institute Actor Prepares, Mumbai.

Divyashekhar Jha, member of 'Navrang,' College's theatre society earned scholarship from member of 'Navrang,' College's theatre society, Actor Prepares and also was selected as a member artist of LTG Repertory Delhi, an initiative of the Government of India.

### **Publications**

Aggarwal, K. (2016-2017). Accounting for dissolution of partnership firm (*E-Lesson*), retrieved from: [http://vle.du.ac.in/file.php/479/Accounting\\_for\\_Dissolution\\_of\\_the\\_Partnership\\_Firm/Dissolution\\_of\\_Partnership-Khusboo\\_Aggarwal.pdf](http://vle.du.ac.in/file.php/479/Accounting_for_Dissolution_of_the_Partnership_Firm/Dissolution_of_Partnership-Khusboo_Aggarwal.pdf)

Aggarwal, K. (2016-2017). Accounting for amalgamation of companies (*E-Lesson*), retrieved from: [http://vle.du.ac.in/file.php/699/Accounting\\_For\\_Amalgamation\\_of\\_Companies/Amalgamation\\_of\\_companies\\_and\\_Internal\\_Reconstruction\\_12\\_april.pdf](http://vle.du.ac.in/file.php/699/Accounting_For_Amalgamation_of_Companies/Amalgamation_of_companies_and_Internal_Reconstruction_12_april.pdf)

Bedi, R., Agarwal, S.K. and Bhasin, V. (2016). ELM based imputation-boosted proactive recommender systems. *5th International Conference on Advances in Computing, Communications and Informatics*, Jaipur India, IEEE: (pp. 69-74).

Bedi, P., Bhasin, V. and Yadav, T. (2016). 2L-DWTS–Steganography technique based on second level DWT. *5th International Conference on Advances in Computing, Communications and Informatics*, Jaipur India, IEEE: (pp. 1362-1368).

Kalucha, G. (2017). Improved ratio and regression estimators of the mean of a sensitive variable in stratified sampling. *Special issue of Statistics and Applications*. 15 (1&2), 63-78.

Singh, P., Jha, M. K. and Priyadarshini, G. (2016). Nested cross-over designs. *Model Assisted Statistics and Applications*. 11, 247-259.

Verma, A. and Jha, M. K. (2016). New three-level experimental designs for qualitative and quantitative factors. *International Journal of Mathematical Archive*, 7(5), 55-59.

Verma, S. (2016). Innovation in higher education: Exploring University of Delhi. *Conference proceedings - National Level Interdisciplinary Conference on Innovative Practices – Pathways to Quality Assurance & Sustainance in Higher Education*.

### **Teachers serving as Editor(s)/Member(s) of Editorial Board – 2**

### **Seminars Organised**

Seminar, “Foreign Exchange Determination” was organised on 16 Feb., 2017. The eminent speaker was Dr. Abha Shukla, Assistant Professor, Delhi School of Economics, University of Delhi.

Seminar,, “Debt and Equity Investment in India: Current Scenario” was organised on 11 March, 2017. The eminent speaker was Mr. Harbinder Singh Sokhi, Bombay Stock Exchange.

Seminar,, “Actuarial Sciences”, was organised on 26 Sept., 2016.

Seminar, “Global Terror: India’s Response”, was organised on 20 Oct., 2016. The eminent speaker was Prof Aswini Mohapatra, Professor, Centre for West Asian Studies School of International Studies, JNU.

### **Seminar / Conference Presentations**

#### **International**

Geeta Kalucha presented a paper , ‘Improved Ratio and Regression Estimators of the Mean of a Sensitive Variable in Stratified Sampling’ at the International Conference on “Advances in Interdisciplinary Statistics and Combinatorics (AISC 2016)” held at University of North Carolina. Greensboro, USA on 30 Sept. to 2 Oct., 2016.

Geeta Kalucha presented a paper , ‘Ratio Estimation of the Mean under RRT models’ at the Silver Jubilee International Conference of Forum for Interdisciplinary Mathematics (FIM) on “Interdisciplinary Mathematics, Statistics and Computational Techniques” IMSCT-2016-FIM XXV held at Manipal University, Jaipur from 22 to 24 Dec., 2016.

Urvashi Sabu presented a paper , ‘Orwell, Facebook, and the Ministry of Friendship: Digital Imperialism in the 21st Century’ in the International Conference on “Literature as Cartography of Emotions: Ways of Being and (Be)longing” held at St Xavier’s College, Jaipur during 27 and 28 Jan., 2017.

#### **National**

Rajni Jagota a presented paper , ‘New Initiative of Financial Inclusion: Jan DhanYojana’ as a co-author at the International Seminar on “Indian Mind and Societal Concerns: An Interdisciplinary Dialogue” held at Ramanujan College, University of Delhi on 2 and 3 April, 2016.

Varun Bhushan presented a paper , ‘Skill Development Initiatives and India’s Demographic Dividend’ in the National Conference on “Entrepreneurial Ecosystem in India: Issues & Challenges” at Christ University, Bengaluru, Karnataka on 13 Feb., 2017. The paper was published in the magazine “Entrepreneurial Ecosystem in India: Issues & Challenges”

### **Placement Details**

Students Placed –175 (70%)

Companies visiting campus – 10 (Being an under-graduate college, many students opt for higher studies.)

### **Extension and Outreach Activities**

The college, through its Book Bank section in the library, aids economically weaker but meritorious students by issuing books for the entire semester at no additional cost. The college takes pride in mentioning that the total number of books in the Book Bank section exceeds 12,000.

The college has an enabling unit, SWASHRIT, which not only addresses the problems of the differently-abled, but also organizes various activities for their all-round development.

### **Library Development**

The library of the college, being well-stocked has added approximately 3000 more books this year, thus taking the total collection to 95,000. This year, the proposal for institutional membership of N-LIST (National Library and Information Services Infrastructure for Scholarly Content), an initiative of INFLIBNET, has been put forth, which will enable remote access of electronic resources to the faculty members and students of the college. The library also organised a Faculty Development Programme, ‘Use of Electronic Resources in Humanities.’

**Faculty strength**

Permanent – 115; Adhoc – 48

**Financial Allocation and Utilization**

Grant sanctioned – Rs. 28.85 Crore

Utilized – Rs. 28.85 Crore

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**P G D A V EVENING COLLEGE****Pannalal Girdharilal Dayanand Anglo Vedic College****Major Activities and Achievements**

P.G.D.A.V. (Evening) College is a constituent college of University of Delhi and commenced on 17 Aug., 1957. The evening classes of the college started on 18 July, 1958 with the primary objective of imparting education in higher studies to working students. The college has started free services of a doctor and legal expert on the college premises. Add-on courses on Legal Awareness were initiated and several Faculty Development Programmes were organised from time to time. This year several departments have initiated their wall magazines showcasing their talent and achievements. E-waste, paper waste and food waste recycling process was also started. A herbal garden has been set up in the college.

**Students with Distinction**

Sunita Sahoo of B. Com. (Hons) secured I rank in the college.

Sujeet Kumar of B. Sc. (Hons) Mathematics secured I rank in the college.

**Publications – 10****Research Publications**

Kumar, M., Sethi, P.K. and Sharma, P. (2016). BMI Status Report on Inter college Men's Kabbadi Players. *Research Ambition: An International Multidisciplinary e-Journal*, 1(1), 118-122.

Sethi, P. K. (2016). Product Sales in fitness centres of Delhi. *Global Journal of Multidisciplinary Studies*. 5(6), 113-116.

**Books**

Sethi, P.K.:

(2016). Yoga for everyone. *Varun Publication*, ISBN 978-93-84865-16-0

(2016). Encyclopaedia of Winter Sports. *Sports Publication*, ISBN 978-81-7879-957-5

(2016). How to play Taekwondo. *Prerna Prakashan*, ISBN: 978-93-81867-88-4

(2016). How to play Roller Skating. *Lakshay Prakashan*, ISBN: 978-93-81869-80-5

(2016). How to play Figure Skating. *Lakshay Prakashan*, ISBN: 978-93-81868-81-2

(2016). Encyclopaedia of Combat Sports. *Sports Prakashan*, ISBN: 978-81-7879-959-9

(2016). Yoga for stress release. *Shree Prakashan*, ISBN: 978-81-8329-776-9.

**Seminar / Conference Presentations**

Sonika Nagpal presented a research paper, 'Green Marketing Practices and Financial Sustainability: An Assessment of Select Service Firms' during a two-day International Conference organised by Shyam Lal College, University of Delhi on 16 and 17 March, 2016.

Sonika Nagpal presented a research paper, 'Sustainability through Going Green: An Empirical Study of Service Firms' in 'EFFULGENCE' which got published in a bi-annual Journal of Management, 14(2), (pp 37-48) 2016. ISSN: 0972-8058

P. K. Sethi, Presented a paper, 'Role of Yoga in Sports Science' during the "National Seminar on Innovative Trends for Professional Skill Development in the Yoga Science" held at Gurukula Kangri Vishwavidyalaya, Haridwar in the month of March, 2017.

P. K. Sethi, Presented a paper, 'Effect of Bio-feedback assisted Yoga intervention on heart rate as a measure of recovery among school children' at the "International Conference on Social Transformation through Yoga" during March, 2017.

P. K. Sethi, Presented a paper, 'Compararison of Selected Physical Fitness Components between Sub junior and Senior Category Girls' during the "UGC Sponsored National Conference on Latest Trends in Health & Physical Education" in the month of Feb., 2017.

P. K. Sethi, Presented a paper, 'A study of effect of yoga on choice visual reaction time of soccer players' at the "National Seminar on Yoga for Holistic Health" organised by Babasaheb Bhimrao Ambedkar University, Lucknow in 2016.

Ramesh Kumar attended FDP on "Research Data Analysis Using Excel & SPSS" organised by Department of Commerce, Hans Raj College on 6 Nov., 2016.

Ramesh Kumar attended FDP on "Investing in Stock Markets" organised by Department of Commerce, Sri Guru Nanak Dev Khalsa College, on 31 Jan., 2017.

### **Library Development**

Total Budget – Rs 9,04,396/-

Number of books added – 54,371

Journals subscribed to – 1,656

### **Faculty Strength**

Permanent – 41; Ad-Hoc – 40

### **Financial Allocation and Utilization**

Grant Sanction – Rs. 12,86,18,000/-

Utilized – Rs. 15,16,80,772/-

### **Placement Details**

Students Placed – 61

Companies visiting campus for recruitment – 6

### **National / International (MoUs)**

MOU signed with Versatile Network Pvt. Ltd.

### **Extension and Outreach work**

One NCC tracking camp was organised in Solan, Himachal Pradesh for four days in which forty seven students were enrolled and participated.

### **Other Significant Information**

A three day Nukaad Natak competition was held at Arts faculty, North campus from 20 to 22 Sept. 2016. During this program, NSS volunteers participated in the management team to interact with other college NSS teams and learn various management skills at such a large platform. On 20 Sept., 2016 fogging activity was conducted at



Srinivasपुरi for eradicating dengue mosquito menace. NSS team of the college participated in this program. One day donation box center was organised for collecting unused clothes, stationary and e-waste such as broken charges and CD's. The material was distributed in slum areas.

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## **PT. DEENDAYAL UPADHYAYA NATIONAL INSTITUTE FOR PERSONS WITH PHYSICAL DISABILITIES (DIVYANGJAN)**

### **Major Activities and Achievements**

The Institute runs Bachelor of Physiotherapy (BPT), Bachelor of Occupational Therapy (BOT) and Bachelor of Prosthetics & Orthotics (BPO) courses under the financial control of Ministry of Social Justice and Empowerment. This year the Institute actively participated and assisted Ministry of Social Justice and Empowerment for successful conduction of National Award Ceremony to the differently abled on 3 Dec., 2016.

### **Honours / Distinctions**

Dr. Meenakshi Batra was honoured with *Fellowship Award* by Academic Council of occupational therapy (FACOT) for immense research and academic contribution in occupational therapy at inauguration ceremony of OTICON 2017 at Jaipur in Feb., 2017 ; and

awarded with *Kamala V Nimbkar Trophy* for Best Scientific Paper for 'Eyelid crutches for modulating visual field deficit' as co-author at Annual National Conference of occupational therapists association (AIOTA) at OTICON 17 at Jaipur in Feb., 2017.

### **Students with Distinction**

Soni Jha, Aishwarya Arya, Adhya Kumar, Pooja Singh, and Madhvi passed Bachelor of Physiotherapy with distinction.

### **Publications**

Arya, N., Pandian S. and Kumar D. (2017). Task-based mirror therapy enhances ipsilesional motor functions in stroke: a pilot study. *Journal of Body work & Movement therapy*, 21(2), 334-341.

Arya, N., Pandian S. and Kumar D. (2016). Does an association exist between the hierarchical motor components of upper and lower limbs in stroke? *Journal of Body work & Movement Therapy*, 20(3) 504-511.

Arya, N., Pandian S. and Kumar D. (2016). Minimal Clinically Important Difference of the lower-extremity Fugl-Meyer Assessment in Chronic-Stroke. *Topics in Stroke Rehabilitation*, 23(4) 233-239.

Maryam,T., Solanki,D., Maryam,A., Vats,M., and Anand,P (2016). Design and construction of a simple force sensing system FELIESS. *International Journal of Scientific and Engineering Research*, 7(12) 151 – 156.

Vijay, B. and Meenakshi, B. (2017). Targeting Clinical Markers of respiratory muscle dysfunction in acute care. *Indian J Occup. Ther.*, 49(1), 12-16.

Wadhwa, G. and Aikat, R. (2016). Development, Validity and reliability of the 'Sitting Balance Measure' (SBM) in spinal cord injury. *Spinal Cord*, 54, 319-323.

Vats,M. and Meena, P.R. (2017). Association of anthropometric characteristic to static sainted postural balance strategy in Healty young Adults. *International Journal of therapies and Rehabilitation Research*, 6(2), 160-167.

### **Seminars / Workshops Organised**

Seminar, 'Therapeutic Intervention in Autism Spectrum Disorder' organised during 29 and 30 March, 2017.

Workshop, "Stroke rehabilitation: Translating Evidence to Practice" organised on 19 Nov., 2016.

Hands on workshop, 'Taping' was organised by Department of BPT.

Hands on workshop, 'Cyriax Techniques' was organised by Department of BPT.

Workshop , “Dynamic workshop on Lower extremity Orthotics Prescription & Fabrication” was organised on 24 Oct., 2016.

### **Seminar / Conference Presentations**

Shanta Pandian and Kamal Narayan Arya presented a paper, ‘Autism Spectrum Disorder & Occupational therapy: Available evidences to look forward’ at a Seminar on “Therapeutic Intervention in Autism Spectrum Disorder” held at National Institute for Physical Disabilities, New Delhi during 29 and 30 March, 2017.

Vikas, Kamal Narayan Arya, and Shanta Pandian presented a paper, ‘Mirror illusion for Sensory-Motor training in stroke: An RCT’ at the 54<sup>th</sup> annual National Conference “All India Occupational Therapist Association” held at Jaipur during 17 to 19 Feb., 2017.

Shanta Pandian and Kamal Narayan Arya presented a paper, ‘Utilization of Synergistic Linkage in Motor Rehabilitation of Stroke: A pilot Study.’ at 54th Annual National Conference of “All India Occupational Therapist Association” held at Jaipur during 17 to 19 Feb., 2017.

Meenakshi Batra and Vijay Batra presented a paper, ‘Cognitive cueing based sensorimotor processing strategies in children with Neurodevelopmental delay’ at the 104<sup>th</sup> Indian Science Congress held at Chennai on 3 to 7 Jan., 2017.

Meenakshi Batra and Vijay Batra presented a paper, ‘Effect of Manual Abilities on Functional Mobility Skills in Cerebral Palsy’ at the Annual National Conference of “AIOTA (OTICON 17)” held at Jaipur during Feb., 2017.

Meenakshi Batra presented a paper, ‘Building social skills in autism’ at a Seminar on “Therapeutic Intervention in Autism Spectrum Disorder” held at Pt. Deendayal Upadhyaya National Institute for Physical Disabilities, New Delhi during 29 and 30 March, 2017.

Meenakshi Batra and Vijay Batra presented a paper, ‘Balance dysfunction in patients with space occupying lesions’ at the 104<sup>th</sup> Indian Science Congress held at Chennai on 3 to 7 Jan., 2017.

Meenakshi Batra and Vijay Batra presented a paper, ‘Eyelid crutches for modulating visual field deficit’ at Annual National Conference of “AIOTA (OTICON 17)” held at Jaipur during Feb., 2017.

Meenakshi Batra and Vijay Batra presented a paper, ‘Laryngovocal augmentative device as scientific exhibit’ at Annual National Conference of “AIOTA (OTICON 17)” held at Jaipur during Feb., 2017.

### **National / International MoUs**

The college has signed an MoU with ISRO towards designing and development of artificial knee joint and foot for Person with Physical Disabilities.

### **Other Inter-Institutional Collaboration**

Department of Prosthetics & Orthotics, NSIT Dwarka, and Maulana Azad Medical College, Delhi

### **Placement Details**

Companies visiting BOT department for campus recruitment –3

Students placed – 6%

Companies visiting BPT department for campus recruitment –6

Students placed –100%

This percentage is calculated on the basis of the number of students who seek placement through the college.

### **Extension and Outreach Activities**

The Professionals and faculty members were deputed to conduct rehabilitation camps through the outreach activities of Department of Prosthetics & Orthotics. Twelve rehabilitation camps were conducted to distribute Prosthetic and Orthotics appliance to the Persons with Physical Disabilities across the country. Total 6083 numbers of beneficiaries were benefitted through these camps during 2016-17.

### **Library Development**

Total Budget received by the Library in the year 2016-17 was Rs. 20 Lakhs. Books available are 13436. Expenditure on Professional / Non Professional Books was Rs. 15.52 Lakhs. Professional Foreign Journal

subscribed were 14 and expenditure on journals was around Rs. 5.59 Lakhs. Number of Library users were 30,661. The process of creating Digital Archives of our CD/DVD resources is on which would be accessible to students and faculty of PDUNIPPD in the Institute Premises. The process of procuring online journals has also begun.

### **Faculty Strength**

Permanent – 28; Temporary/Guest – 53

### **Financial Allocation and Utilization**

Grant Sanctioned:

Non-Plan : Rs. 13.65 Crore

Plan : Rs.8.30 Crore

Grant Utilized:

Non Plan : Rs.13.65 Crore

Plan : Rs.8.13 Crore

### **Other Significant Information**

K. Ramprabhu attended the short term training programme “Diploma in Orthopedic Medicine –cyriax” in Bangladesh.

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## **RAJDHANI COLLEGE**

### **Major Activities and Achievements**

The College has recently tied up with Tata Power Delhi Distribution Limited (TPDDL) to install rooftop Solar panels to harness solar energy for the large scale electricity requirements. Paper recycling machines were installed to reduce the carbon footprint of the college. The college has been registered with Government E-marketing on 3 March, 2017. The process of e-procurement from the portal of Telecommunications Consultants India Limited (TCIL) started. The College made a significant contribution in providing higher education to women students of neighboring as well as far off areas by starting a Non-Collegiate Women’s Education Board (NCWEB) Centre on its premises from the academic session 2016-17.

### **Honours / Distinctions**

The College received the Clean Campus Award from the National Institute of Cleanliness Education and Research (NICER).

Dr. Urvashi Arora obtained Individual Affiliate Membership for American Mathematical Society for the year 2017.

Dr. Ravindra Kumar Das was honoured with Pratilipi Lokapriya Kavita Samman at Pragati Maidan, Delhi in the year 2017.

Dr. Shikha Kaushik received Best Paper Award for, “Formation of a Py.Pu\*Py Type Intermolecular DNA Triplex” at a National Seminar on Recent Innovations in Chemical Science and Environment Technology organised by the Department of Chemistry, Sri Aurobindo College, University of Delhi.

Dr. Pawan Rai was awarded Early Research Award by DST for the paper titled, “Development of Phosphinous and Functionalized PNP Pincer Ligands: Study of Non-innocent Behaviour with Group 8 Metal Complexes and Catalytic Applications.”

Ms. Rachna Sethi serves as the Vice President of FORTELL (Forum for Teachers of English Language and Literature) and also a member of the Editorial Board of its journal.

Mr. Sidheshwar Prasad Shukla was elected as Technical Expert for Delhi Bhawan Nirman Sanirman Board notified in the Gazette of Delhi Government.

Dr. Madhu Verma was awarded with Rashtriya Shikshak Samman by Vidharthi Vikas Manch Samiti, Ujjain on the occasion of Teachers' Day on 5 Sept., 2016.

Dr. Chitra Bhrdwaj and Dr. Asheesh Kumar were honoured with Sanskrit Samaradhak Samman by Delhi Sanskrit Academy, Government of Delhi on the occasion of Sanskrit Day held at Zakir Hussain Delhi College, Delhi on 17 Aug., 2016.

### **Students with Distinction**

Riya Jain of B.Sc. (Hons) Chemistry II year awarded with Dr. N.K. Anand Memorial Prize.

Prashant Rahul of B.Sc. (Hons) Physics III year was awarded with S.S. Rao Memorial Prize.

Suman Kumar of B.A. (Hons) Hindi III year was awarded with Maa Murti Devi Smriti Puraskar.

Nisha Kumari of B.A. (Hons) Hindi I year was awarded with Mr. Shiv Nandan Sharma Memorial Prize.

Diksha Aggarwal of B.Com. (Hons) I year and Anant Relan of B.Com. (Hons) II year were awarded with Mr. Sultan Chand & Co. Memorial Scholarship.

### **Publications**

Das, R. K. (2017). *Praja Me koi Asantosh Nahin* (A Collection of Poems), Jaipur, Rajasthan: Bodhi Prakash.

Gupta, V. (2016). Rasa theory in the light of Sringara Rasa: Representation of Divine Love. *International Journal of English Language and Literature*.

Kumar, A. (2016). Raja Tattv ka Sukshm Vishleshan: Shukraniti ke Vishesh Sandarbh Mein. *Ananta, an International Journal of Sanskrit Research*, Delhi, ISSN: 2394-7519

Kumar, Anil. (2016). Human Rights of Witness in South Asian Countries. *NIU International Journal of Human Rights*.

Kumar, S. (2016). A Study of High Embedding rate Steganography Algorithm for color images using Complex Wavelet Transforms. *International Journal of Computer Science and Mobile Computing*, (IJCSMC), ISSN 2320-088X

Meena, D. (2016). Medicinal and Commercial Potential of *Madhuca Indica*. *International Journal of Medicinal and Health Research*, 2(12), 23-26.

Mir, M.H. (2016) Refolding of Urea Denatured Cytochrome C: Role of Hydrophobic Tail of Cationic Gemini Surfactants. *Journal of Colloid Interface Science*, 48, 205-212.

Sethi, R. (2016) Book Review, Prabhu Ghate's *By Thumb, Hoof and Wheels: Travels in the Global South*. In *The Book Review*, XL(4).

Singh, C.S. (2016). Paninian Grammer and the Prosodic Features. *International Journal of Dravidian Linguistics*, 45(2), 1-15.

### **Research Projects**

Dr. Pawan Kumar, project funded by DST, 'Development of Phosphinous and Functionalized PNP Pincer Ligands: Study of non-innocent behavior with group 8 metal complexes and catalytic applications' for Rs. 33.74 Lakhs.

### **Seminars Organised**

Economics Department organised a seminar on Demonetization and Cashless Economy: Recent Indian Experience on Jan. 24<sup>th</sup> Jan., 2017.

### **Seminar/Conference Presentations**

Upasana Dhanda presented a paper, 'How Sensex Companies fared in their CSR initiatives?' in the 4<sup>th</sup> International Conference on "CSR & Sustainable Development" organised by SERD held at Kuala Lumpur, Malaysia on 31 May, 2016.

Rajni Grover presented a poster, 'Formation Constants of Mixed-ligands Complexes of Cadmium(II) with some Amino Acids (Alanine, Serine) and 4,4,4-trifluoro-1-(2-naphthyl) butane-1, 3-dione at DME in 60% Acetonitrile Medium' at an International Conference conducted by Daulat Ram College, University of Delhi.

Shushil Kumar presented a paper, 'A TQWT based Approach for Image Steganography' at an International Conference on "Mathematics and Computer Science" held at IMRF, Jyoti Nivas College, Bengaluru, Karnataka during 16 and 17 Feb., 2017.

Shushil Kumar presented a paper, 'Self-synchronizing Variable Length Codes: T-codes' at an International Conference of Advance Research and Innovation (ICARI-2017), Delhi technical Campus, New Delhi, 29 Jan., 2017 respectively.

Sasmita Mohanty presented a Paper, 'Traditional Practices and Democratic Aspirations: Khap Panchayats, Women and Human Rights in India' in a National Seminar on "Human Rights in 21<sup>st</sup> Century India: Emerging Issues & Challenges" organised by Motilal Nehru College (Evening), University of Delhi and sponsored by the Indian Council of Social Science Research (ICSSR) on 29 and 30 March 2017.

Ritu Payal presented a paper, 'The Use of Cost Effective Kitchen Ingredients in Acid-Base Titrations: A Greener Approach' at an International Conference on "Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016)" in Daulat Ram College, University of Delhi, 17 and 18 Nov. 2016.

Ritu Payal presented a paper, and 'Porous Silica Nanoparticles from Rice Husk for the Elimination of Erichrome Black T (EBT) from Laboratory Waste Water' at an International Conference on "Green Chemistry in Environmental Sustainability & Chemical Education (ICGC-2016)" in Daulat Ram College, University of Delhi, 17 and 18 Nov., 2016.

### **Placement Details**

Students Placed – 2%

Number of Companies visiting campus for recruitment – 7

### **Extension and Outreach Activities**

Several outreach activities were performed by Gandhi Study Circle of the college. The members participated in a programme by DD Kisan Vaad-Samvaad on 2 Oct., 2016 with a special telecast on "Gandhi, Shastri aur Kisan." Eminent personalities like Kuldeep Nair, Rajiv Vora, Sunil Shastri and Dr. Rajiv Ranjan Giri was chief speakers in the programme. Students participated in 'All India University Camp, Wardha' organised by Gandhi Vichar Parishad from 23 to 30 Dec., 2016. Members of Gandhi Study Circle also actively volunteered in the programme organised by Gandhi Peace Foundation in memory of Mr. Anupam Mishra ji on 7 Jan., 2017. Members attended 42<sup>nd</sup> edition of English lecture series by Gandhi Peace Foundation on 30 Jan., 2017 in which Dr Ramanjaneyulu G.V. spoke on 'Nature-Farmer-Consumer: Ideas for a Healthy Triangle'.

The NSS Unit organised the event, 'Sahyog' as part of the Diwali Celebrations on 27 Oct., 2016 encouraging teaching, non-teaching staff and students alike to donate used clothes, books and stationery, and not money for poor, needy children of Punjabi Bagh slum area.

NSS volunteers are also involved in the educational programme for these children. The NSS Unit also observed Vigilance Awareness Week-2016 in collaboration with the Delhi Metro Rail Corporation from 31 Oct. 2016 to 5 Nov., 2016 in the College Campus. The Team of DMRC also performed a Street Play on this occasion to broadly explain the existing rules and procedures of the organization with a view to eliminate or minimize the scope for corruption or malpractices.

The NSS students participated in the Awareness Rally on Anti-Corruption in the College Campus. In Jan., 2017, the Unit also organised Declamation State Level Contest in the College Campus in association with the Department of Political Science of College and Nehru Yuva Kendra, Ministry of Youth & Sports affairs.

### **Library Development**

College library is automated where users can access the library in an automated manner. It has more than 1.15 lakh scholarly books on various subjects and subscribes 33 Newspapers and around 55 magazines and journals. It also associated with N-List program of UGC INFONET through which the users of library can access 6000+ e-journals and 31,35,000+ e-books with remote login facility. The library has an exclusive air conditioned reading corner for the faculty and differently-abled students with internet enabled high speed computers, scanner and printer. Two

library staff were trained by DU to provide better service to physically challenged students. Each year library organizes book exhibition in the college campus for students and faculty members.

### **Faculty Strength**

Permanent – 92 ; Ad hoc –72

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 23.08 Crores

Utilized – Rs.23.6 Crores

### **Other Significant Information**

The college has been involved in the provision of physical infrastructure for the differently-abled students. The college has recently started a Photography Club in college to encourage students to showcase their skill and creativity at photography. Various Committees and Societies i.e. Cultural Committee, Debating Society, Eco-Club Equal Opportunity Cell, Gandhi Study Circle, Placement Cell, NCC, NSS, North East Students' Welfare Committee, SC/ST Counselling Cell, Trekking, Mountaineering & Environmental Protection cum Photography Club and Women Development Cell take care of the multi-faceted development of the students and also sensitize them towards society and environment.

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## **RAJKUMARI AMRIT KAUR COLLEGE OF NURSING**

### **Major Activities and Achievements**

Rajkumari Amrit Kaur College of Nursing was established in 1946 with the objective of developing model programmes in nursing activities. The College offers four regular programmes B.Sc. (Hons) Nursing, M.Sc., M.Phil. and Ph.D. in Nursing. Besides this, short term continuing education courses are conducted. The institution works in close association with Ministry of Health and Family Welfare (MOHFW) and with various hospitals, health centres and allied agencies. The revised curriculum for B.Sc. (Hons) Nursing programme under semester system as per Delhi University guidelines and for M.Sc. Nursing programme has been implemented. The college also has a Rural Teaching Centre, established in 1950 for the purpose of providing objective oriented rural community health experience. The emphasis is on MCH services including family planning, immunization, family welfare services, etc. Students and faculty members participate actively in various national health programmes like Malaria control, Dengue Control, AIDS Control, revised national tuberculosis control, pulse polio program etc. An active student nurse association ensures that students participate in various national level competitions.

### **Students with Distinction**

Several students passed with distinction.

### **Publications**

Poonam, S. and Molly, B. (2016). Lived experience of PLHIV at selected ART centres in Delhi. A systematized review. *International Research Journal of Human Resources and Social Sciences* 3(4), 125-142

Jeeva, S. and Molly, B. (2016) Assessment of self-care practices of diabetic clients regarding management of Type II diabetes mellitus at selected urban area Bangalore Karnataka. *International Journal of Nursing Education and Research*, 4(4), 2454-2660.

### **Research Project**

Project, “A study to assess occupational Health problem among cotton Industrial workers and to evaluate the effectiveness of planned teaching programme on prevention of occupational Health problems in terms of knowledge and practices in selected cotton industry of Haryana.”

Project, “A study to identify phlebitis in patients receiving intravenous therapy and compare the effectiveness of cold application and thrombophob gel (heparin gel) to relief phlebitis among those patents in Selected Hospital of Delhi” .

Project, “A study to assess the adverse Effects of Second-Line Treatment on Multi Drug Resistant Tuberculosis (MRD-TB) Patients and to evaluate the Effectiveness of guidelines on Lifestyle Modification with Adverse Effect of treatment in terms of Knowledge and Attitude in Selected TB Hospital of Delhi.”

Project, “A Study of Evaluate the Effectiveness of Teaching Package Regarding knowledge and practice of ANMs on Assessment and Management of Malnutrition among Under-Five Children based on Integrated Management of Neonate and Childhood Illness (IMNCI) in Selected (Primary Urban Health Centre ) PHC of Delhi.”

Project, “A Comparative Study of Determine the Effectiveness of Warm Compress Versus Breast Compression Technique for Improving Maternal Comfort and adequacy of Feeding among mothers of Low Birth Weight Neonates with Breast Engorgement in Selected Hospital of Delhi.”

### **Conferences Organised**

Conference, “Emerging trends in nursing management” organised in association with Ministry of Health and Family Welfare from 27 Feb. to 3 March, 2017.

Conference, “Emerging trends in Nursing education” organised in association with Ministry of Health and Family Welfare from 17 to 21 April, 2017.

### **Seminar / Conference Presentations**

Sarita Shokhanda presented paper, “Quality assurance in nursing practices, Nursing education” at the seminar on “Emerging trends in nursing management” held at Rajkumari Amrit Kaur College Of Nursing, Delhi on 27 Feb., 2017.

H. Goyal presented paper, ‘Standards of professional performance in nursing’ at the seminar “Emerging trends in nursing management” held at Rajkumari Amrit Kaur College of Nursing on 2 March, 2017.

M Babu presented paper, ‘Group Dynamics and Quality Nursing care’ at the seminar “Emerging trends in nursing management” held at Rajkumari Amrit Kaur College of Nursing on 2 March, 2017.

H. Goyal presented paper, ‘Human Relationship in Nursing education’ at seminar “Emerging trends in nursing education” held at Rajkumari Amrit Kaur College of Nursing on 20 April, 2017.

Sarita Shokhanda presented paper, ‘Teacher as a mentor’ at seminar “Emerging trends in nursing education” held at Rajkumari Amrit Kaur College of Nursing on 18 April, 2017.

Molly Babu presented paper, ‘Tele Nursing’ at seminar “Emerging trends in nursing educations held at Rajkumari Amrit Kaur College of Nursing on 18 April, 2017.

Madhumita dey presented paper, ‘A role of simulation in nursing education, A regulatory perceptions’ at seminar “Emerging trends in nursing education” held at Rajkumari Amrit Kaur College of Nursing on 20 April, 2017.

### **Extension and Outreach Activities**

Rural Teaching Centre was established which provides rural community health experience to the students. It covers population of Approx, 23,000 and is situated 35 kms away from the college. The Centre provides an integrated comprehensive health and family welfare service to the community. Special emphasis is given on MCH services, family planning, immunization, family welfare services, nutrition and adolescent girl’s health. Health education programme by the students and staff of rural unit in collaboration with the staff of RHTC, Najafgarh. Staff and students also participated in National Health Programmes like Malaria control programme, Dengue control programme, Revised National Tuberculosis control programme, AIDS control programme, Diarrhea Disease control and Intensified Pulse Polio programme etc. The Centre also has DOTS and Microscopic Centre for screening and treatment of T.B. & MDR TB patients. RFTC Chhawla is also a ‘Team Movement Point’ (TMP) for National Pulse

Polio Programme covering 10 villages. The TMP is considered as one of the best TMP under the Malaria Zone for National Pulse Polio Programme.

### **Library Development**

The College Library has total 20,381 Books. The purchases made during the year include 206 books, 18 foreign journals, 18 Indian journals, 6 Newspapers, and 7 magazines. The total expenditure on books and journals during this period was Rs. 14.30 Lakhs.

### **Faculty Strength – 33**

### **Financial Allocation and Utilization**

Budget Estimate sanction from MOHFW.

Plan: Rs. 2.0 Crore

Non- Plan: Rs. 8.50 Crore

Utilized

Plan: Rs. 1.45 Crore

Non- Plan: Rs. 8.35 Crore

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## **RAMANUJAN COLLEGE**

### **Major Activities and Achievements**

College started its first batch of Bachelor of Management Studies (BMS) and five other courses namely, B.A.(Hons.) Applied Psychology, B. A.(Hons.) Philosophy, B. Sc.(Hons.) Computer science, B. Sc.(Hons.) Mathematics, B. Sc.(Hons.) Statistics from this academic year (2016-17). College has a distinction of being selected as the nodal centre to coordinate admission process of BMS, BBE, BBA (FIA) courses for all the colleges of University of Delhi where these courses are being offered. Deen Dayal Upadhyay Centre for Knowledge Acquisition and Upgradation of Skilled Human Abilities and Livelihood (D.D.U. KAUSHAL) was also initiated. Through this initiative the college has been able to offer Bachelor of Vocation Courses in Banking and Financial Services and Software Development. College has got formal approval from Department of Economics, Delhi School of Economics to start B.A.(Hons.) Economics from the session 2017-18. Recently the college also hosted three learning centres, namely, the University of Delhi's School of Open Learning (SOL), the Non Collegiate Women's Education Board (NCWEB) of the University of Delhi and the Indira Gandhi National Open University (IGNOU) Study Centre. The construction of the new college building is moving at a fast pace and is expected to be completed in a few months time.

### **Honours / Distinctions**

The college has been ranked 33 in all India NIRF ranking.

The IQAC has recommended the institution of the “Ramanujan College Achievement Awards” for promoting and encouraging research, innovative pedagogic practices, administrative reforms and other significant academic contributions of merit.

Both the college journals, namely, (a) Ramanujan International Journal of Business and Research, and (b) International Journal of Applied Ethics have been recognized in the UGC list of Journals.

The college Principal has been awarded the Prestigious “PPS Millennium National Teachers Award” by the Institute for Environment, Yoga & Social Security. He has also been awarded the “Distinguished Alumni Award” by the Shri Ram College of Commerce, University of Delhi.



The Administrative Officer Zafar Aijaz Abbasi has been awarded by the 'Uttar Pradesh Academy' and 'Delhi Urdu Academy' for his book Sahir Ludhianvi Shakhshiyat Aur Fun – 2015

Dr. B. S. Gautam has been appointed as the Chair Professor in Dr. Ambedkar Chair at the Central University of Himachal Pradesh on Nov., 2016.

### **Students with Distinction**

Neeti Pahwa of B.Sc. (Hons) Maths III year secured highest marks of 95.17%.

Anubhav Gupta of B. Tech. (Computer Science) III year secured highest marks of 93.42%.

Akansh of B.Sc. (Hons) Statistics III year secured highest marks of 86.33%.

Manisha Rathour of B.Com (Hons) II year secured highest marks of 85.1%.

Sween Sharma of B.A. (Hons) Psychology III year secured highest marks of 84.23%.

Sports Distinction:

Shubham Bhardwaj of B.Com (Pass) III year has won the following: 1st Place in Inter-College Boxing Championship. Silver Medal in Rural Games International Championship, 2016; 2<sup>nd</sup> Position in Haryana State Boxing Championship; 2nd Position in District Boxing Championship.

Judo team participated in various competitions: Mohd. Iqbal of B.A. (Pass) I year secured 1st place in Kurash Junior National held in Gohati

Weight Lifting, Best Physique & Power Lifting – Position Secured (Boys & Girls): Dharmendra of B.A. (Pass) I year and Ashwani Gaur of B. Com (Prog.) III year secured 1<sup>st</sup> position each in the Inter-College Power Lifting Championship. Several other students also secured I position.

### **Publications**

Aggarwal, S.P., Gupta, S. and Agarwal, A. (2016). A study of CAPM testing in Indian Context. *Ramanujan International Journal of Business & Research*, 1, 83-93.

Hemlata. (2017). *Hindi Upanyas*. New Delhi: Natraj Prakashan.

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Shukla, A.K. (2017). Separate regression - type estimators (Generalized Class) for the estimation of finite population mean under stratified random sampling. *Engineering and Scientific International Journal*, Special Issue.

Shukla, A. (2017). Care and the Environment: The normativity of an ethics of care and its application to environmental issues. *International Journal of Applied Ethics*. 5(1), 159-173.

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### **Research Projects**

Five projects, funded by University of Delhi for three years as 'Star Innovation' projects are ongoing and are now in their second year. Rs. 87,50,000/- :

Dr. Shalini Sharma, Dr. D. N. Tiwari and Dr. Rajiv Nayan, A Study of Lifestyle and Health (physical and mental) related problems among adolescents, Jan., 2016.

Dr. Megha Agarwal and Dr. Sumit Nagpal, Taking the work of Ramanujan to the next level: An innovation project in Cryptography, Jan., 2016.

Dr. Nikhil Rajput, Ms. Bhavya Ahuja, Ms. Sheetal Singh and Mr. Sahil Pathak, Robotics in Healthcare, Jan., 2016  
Dr. Sachin Tomer, Dr. Ashish Kumar Shukla and Dr. Brijesh Kumar, Reliable data of real world for innovation, Jan., 2016.

Dr. Nikhil Rajput, Ms. Bhavya Ahuja, Ms. Sheetal Singh and Mr. Sahil Pathak, Socioevolution, Jan., 2016.

At the College level, the College Research Committee has sanctioned five 'Inter-Disciplinary Projects' involving students and teachers. The funding agency of all projects is Ramanujan College, University of Delhi.

Attitude to Action: A study on Environmental Awareness and Practices among Undergraduate Level college students in relation to Gender and Academic streams, Dr. Tenzin Thankur, Rs. 49,000/-

Foreign Direct investment in Pharmaceutical industry in India: boon or bane?, Dr. T. K. Mishra, Rs. 60,000/-

Reservation for economically weaker section children in unaided private schools: problems and prospects, Dr. Mohinder Paul, Rs. 55,000/-

*Gulzar dwara nirdeshit Hindi filmo mein manvia samvedna ka vastu vishleshan*, Dr. Alok Ranjan Pandey, Rs. 60,000/-

*Uch Shikshan Sansthan aur media reporting*, Dr. Anupam Kumar, Rs. 60,000/-

Mind and environment comprehensive study on the impact of environment on writer's creativity with special reference to Ramgarh (Uttarakhand), Dr. Madhu Batta, Rs. 60,000/-

### **Seminars/Workshops Organised**

An International Seminar, 'Indian Mind and Societal Concerns: An Interdisciplinary Dialogue' was organised by the Department of Applied Psychology in association with the National Academy of Psychology (NAOP) during 2 and 3 April, 2016. The seminar was inaugurated by dignitaries Dr. S.P. Aggarwal, Principal, Ramanujan College; Prof. Anand Prakash, Dean, International Relations, University of Delhi; Prof. Doug Oman, School of Public Health, University of California, Berkeley and Seminar convenor Dr. D. N. Tiwari, Department of Applied Psychology,.

UGC sponsored national seminar, 'Trauma: Memory and History in Literature' was organised by the Department of English on 8 and 9 April, 2016.

Workshop, 'I am Better' was organised on 29 and 30 Sept., 2016.

A seminar cum workshop, 'Solid Waste Management' was organised by the Department of Environmental Studies on 3 Oct., 2016 in association with the recycling company Pom Pom.

An International Seminar, 'Theories of Consciousness: Indian and Western Perspective' was organised by the Department of Philosophy on 24 and 25 March, 2017 held at the Lotus Temple, Delhi.

A workshop, 'Big Data and Hadoop Technology' was organised by Vipin Kumar on 1 Sept., 2016.

### **Conferences Organised**

Conference, 'Re-Learning to be Human for Global Times: Justice and Responsibility' in association with the Department of Philosophy, University of Delhi and The Council for Research in Values and Philosophy, Washington D.C. was organised on 9 and 10 Jan., 2017 held at the Conference Centre, University of Delhi.

TEDx Ramanujan College Event aimed at bringing together bright minds to give talks that are idea-focused on a wide range of subjects to foster learning, inspiration and wonder and provoke conversations that matter was organised on 17 Dec., 2016. The theme of the event was "Reality Beyond Conventions."

### **Seminar / Conference Presentations**

Ajay Kumar presented a paper, 'Tarabai Shinde: The First Feminist Writer of India' at the Interdisciplinary National Conference on "Recent Trends in Humanities and Commerce" organised by Mahindar Singh Kabal Singh Degree College of Arts & Commerce, Kalyan (W) in collaboration with M.G.E. & W. Society's Centre for Humanities & Cultural Studies, Kalyan (W) on 25 Sept., 2016.

Alok Ranjan Pandey presented a paper, 'Vartman Sandarbh me Gandhi ki Prasangikata' at the UGC sponsored International Seminar on "Indian Mind & Social Concerns: An Interdisciplinary Dialogue" organised by Applied Psychology Department of Ramanujan College held at Conference Centre, University of Delhi on 2 and 3 April, 2016.

Anshika Agarwal presented a paper, 'Inflation and Stock Market in India: An Analysis' at an International Conference on "Corporate Governance: Retrospect & Prospects" held on 12 and 13 Feb., 2017.

Ashwani Kumar presented a paper, 'Mindfulness as a Buffer against of Fear: A Psychological Perspective' in an International Seminar on "Indian Mind and Societal Concerns: An Interdisciplinary Dialogue" organised by the Department of Applied Psychology, Ramanujan College, University of Delhi on 2 and 3 April, 2016.

D. N. Tiwari presented a research paper, 'Perception of Benares in Latin American Literature' in a National Seminar organised by the Department of French Language, B.H.U. held at Varanasi, Uttar Pradesh from 22 to 25 Feb., 2017.

Hari Krishan Sharma presented a paper, 'The Curious Case of Secularism in India' at an International seminar on "Indian Mind and Societal Concerns: An Interdisciplinary Dialogue" organised by the Department of Applied Psychology, Ramanujan College held at the Conference Centre, University of Delhi on 2 and 3 April, 2016.

Medha Saxena was an Invited Speaker at a pre-conference on "Science, Technology and Medicine" at the South Asia Conference in Madison, Wisconsin. She presented a paper, 'New Approaches to STEM in South Asia' along with renowned anthropologist Lawrence Cohen and she also delivered a public lecture at the History and Sociology of Science Colloquium.

Moola Ram presented a paper, 'Trauma of Stigmatized Identity: A Reading of Laxman Gaikwad's The Branded' at the UGC Sponsored National Seminar on "Trauma: Memory and History in Literature" organised by the Department of English, Ramanujan College, University of Delhi on 8 and 9 April, 2016.

S.P. Aggarwal presented a paper, 'Inflation and Stock Market in India: An Analysis' in an International Conference on "Corporate Governance: Retrospect and Prospects (ICCG IMSGZB 2017)" organised by the Institute of Management Studies, Ghaziabad on 12 and 13 Feb., 2017.

Shruti Jain presented a paper, 'The Journey Beyond the Threshold' at the National Seminar on "Gendered Urban Spaces: Narratives of Self-Possession" organised by the Department of English, IIS University, Jaipur on 18 Feb., 2017.

Sonia presented a paper, Creative Accounting and Corporate Governance in a two day International Conference on Corporate Governance: Retrospect and Prospects (ICCG IMSGZB 2017) organised by the Institute of Management Studies, Ghaziabad on 12 and 13 Feb., 2017.

Sumit Nagpal presented a paper, 'Convolution Properties of Harmonic Koebe Function and its connection with 2-Star like Mappings' in the National Conference on "Algebra, Analysis, Coding and Cryptography" (Sponsored by DRDO) organised by the Department of Mathematics, University of Delhi, Delhi on 14 and 15 Oct., 2016.

Subodh Kumar Sajjan presented a paper, 'An Institutional History of National Human Rights Commission: The Comparative Study of India and Canada' in the International Conference on "Engaging India and Canada: Landmarks and Roadmaps for Global Educational Collaboration between Canada and India" organised Shastri Indo-Canadian Institute held at India Habitat Center, Delhi on 28 May, 2016.

Suchi Patti presented a paper, 'E-Commerce in India: Prospects and Challenges' in the National Conference on "VISION- 2030, Strategies for Industries & Academia" held at the Department of Management Studies, Govt. College, Bilaspur (H.P.) in collaboration with the Himachal Pradesh Commerce and Management Association (HPCMA) on 27 and 28 Nov., 2016.

Vibhash Kumar presented a paper, 'Indian Individual Investor Behaviour: A Model Based Study to Meet Sustainable and Inclusive Growth' at the International Research Conference on "Business Process Re-engineering for Sustainability and Climate Change: Issues & Perspectives" held at the Jawaharlal Nehru University (JNU) on 26 Feb., 2017.

### **National / International MoUs**

Software company 'Tally' for training students on Tally ERP9.

NGO Rupantaran, under which the College has adopted two slum camps. Our students will provide teaching services to the children and women residing there, while Rupantaran will provide the infrastructural facilities.

Waste Recycling Company, Pom Pom, on 20 Oct., 2016. As per the MoU, the company will fortnightly collect the dry and solid waste from the institution and will give the monetary value of waste to the college which will be given as an incentive to the housekeeping staff.

Jaagruti, a Paper Recycling Company in March, 2016. According to the agreement, the college will give all kinds of waste paper ranging from newspapers, magazines, office grade paper, old assignments of students to Jaagruti and in return Jaagruti, will give recycled paper to the college which will include A4 size white sheets and notepads with the logo of the college.

Several other MoU's were also signed. These were with Digital Ocean, Indian Open Data Association, Juxt Smart Mandate Analytical Solutions Pvt. Ltd., Essentia SoftServ, Manacle Pvt. Ltd., NASSCOM and AIA, London.

### **Other Inter-Institutional Collaboration**

The National Skill Development Council (NSDC) is running a course on Associate Analytics.

The second batch of the three month diploma course on International Financial Reporting Standards (IFRS) in association with the Indian Accounting Association (NCR Chapter) has been started.

E-Learning content management system has been developed on an open source platform – MOODLE which enables submission of assignments, uploading of tests and evaluation.

The department of Hindi in association with the KAUSHAL Kendra has started a certificate course on Mass Media. Another certificate course on Radio Broadcasting is successfully running in its second year.

The Centre for Human Rights Studies has concluded the fourth session (Aug. – Nov., 2016) of the UGC-sponsored three months certificate course on Human Rights.

The college has also started providing consultancy to outside agencies through a newly formed Research Consultancy and Services Cell. The College provided consultancy services worth Rs. 3 lacs for the State Bank Officers Association in the segregation and counting of the postal ballots through computer systems programmed by the college. The college also provided consultancy worth Rs. 3 lacs for Reliable Data Solutions to perform the confidential work of evaluation and tabulation of answer scripts.

On the eve of Independence Day, Centre for Social Innovation in collaboration with LECIN and Sai Sanskaar Foundation celebrated Independence Day to develop a sense of patriotism among the children and to give them an opportunity to showcase their creativity.

### **Students under Exchange Programme**

As part of the exchange programme between University of Delhi and Hakkaido University, Japan, Ms. Mishato joined Ramanujan College for her studies. She is presently pursuing B.A. (Hons) Political Science.

Three B.M.S. first year students underwent Cross Cultural internship in Russia for 46 days covering cities like Moscow and St. Petersburg. The trip activities varied from teaching poor children to volunteering in a blind society.

### **Placement Details**

Students Placed – 285 students

Companies visiting campus for recruitment – 23 companies.

### **Extension and Outreach Activities**

Students of the Department of Applied Psychology collaborated with an NGO “Rising People Welfare Society” and spent few hours with under-privileged children. School supplies were gifted. Department of History organised Manchale, the band of The Kutumb Foundation, (An organization that works with street children) and performed at the Conduire 2017 – The Management and Economics Fest on 10 March 2017.

Department of Management Studies organised management skills activity for students of D.T.E.A. Senior Secondary School, R.K. Puram Sector IV, New Delhi on 27 Jan. 2017. The aim of the programme was to manage the school for a full day and conduct activities that imparted knowledge and information to the students in an innovative and fun filled manner.

Department of Philosophy organised classes for construction worker's children and preliminary elementary education was imparted. Department of Political Science, in an effort to reach out to the underprivileged and marginalized sections of the society, organised an awareness campaign on sanitation in slum areas of Indira Klyan Vihar, Okhla Industrial Estate on 8 Nov., 2016.

Centre for ethics and value organised a “Hope-wali Diwali” event, an initiative for the welfare of slum children, on 21 Oct. 2016. Various craft items for Diwali were requested from these children and were subsequently sold in the college. The amount so collected was donated to the same orphanage. Centre for social innovation, organised an educational session on “Vedic Mathematics for Slum students” in the month of June 2016 with an aim of imparting basic mathematical knowledge to the children residing there. Rupantaran was organised in the Coolie Camp of Vasant Vihar during the month of May 2016. It was aimed at motivating children to go to school and pursue education.

Community Outreach Programme was organised in Ghalib Auditorium on 12 Aug. 2016 for school going children from Sudhar Camp, Kalkaji, Delhi. Some of the college students were involved in the programme such as Educational Opportunities, Physical Health and Sports and Sanitation and Hygiene, under the guidance of faculty members.

### **Library Development**

Total number of books purchased this year: 1,913 of Rs. 8,57,900/-.

Total Journals procured this academic year: 75 of Rs. 1,44,927/-.

Library also subscribed to various e-books and e-journals through N-List program of INFLIBNET (UGC); and Developing Library Network (DELNET).

Library purchased two e-book reading device ‘Kindle’.

Library also started a Faculty Lounge Cum Reference reading room for the faculty members of the college. Old racks / almirahs of the stack room were replaced by state of the art Godrej book racks.

### **Faculty Strength – 90**

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 14.53 crores (Non-Plan) and Rs. 3.68 crores (Under-Plan)

Utilized amount – Rs. 9.71 crores

### **Other Significant Information**

Technical Workshop on ‘Photoshop and Coral Draw’ was organised for students to share the skill of using the photo and video editing softwares. BIZZ BLAZE 2017 (The Annual Departmental Fest) was organised on 16 and 17 Feb., 2017. It received huge footfall and participation from several colleges for various events such as FIFA Competition, Start-A-Buzz, Big Bang Com Quiz, Bid for Dead, Logo Quiz and Beat the Clock. Commerce Department in association with Jagannath International Management School, Kalkaji, Commerce

Association of Jesus and Mary College and Bombay Stock Exchange and Indian Accounting Association (NCR Chapter) organised a “Mock Stock Competition” in the college premises on 10 March, 2017 which had attractive prizes, interesting format and received wide participation. Four students of the college developed an Android Application “Ramanujan College” which is a part of the Google Playstore. The application is designed to provide complete information of the college including courses, time tables, and notifications on events.

The college society’s annual production, “Chinmoy” was released in Jan., 2017 and won the best film award in Calcutta International Cult Film Festival and in the film festival of Jesus and Mary College. The film won 2nd Best Film, Best editing, Best script and 2nd Best Direction at Udaan Film Festival, Jawaharlal Nehru University. The theatre group of the college ‘Jazba’ secured first position at IIT Guwahati and second position at IIT Delhi. Western Dance society ‘DNA: Dance Nucleic Acid’ secured 1st Position in G.D. Goenka curtain in 2016, 1st position in Bhagini Nivedita college, and 2nd Position in GIBS, 2016. The college society ‘Brush Strokes’ won many awards at various annual fests of different colleges of Delhi University like Hindu College, Kirorimal College, Institute of Home Economics.

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## RAM LAL ANAND COLLEGE

### Major Activities and Achievements

The college upgraded its infrastructure, including setting up of a new medical room, fully functional Wi-Fi, four IT enabled class rooms, new storage facility for laptops, pavement with tactile support for visually impaired, new lift and renovation of library with higher student seating capacity. Renovation of administrative and accounts block are under progress. Two new undergraduate courses B.A. (Hons) Mathematics and Bachelor of Management Studies (B.M.S.) have been approved to be started from the academic session, July 2017. During this session, an Internal Quality Assurance Cell (IQAC) has also been constituted. A new “Northeast Society” has been formed to encourage students from North Eastern States. Through the DU innovation projects, sixty undergraduate students from various departments were trained and motivated to pursue research as a career. Two students have topped in the Delhi University annual exams and will be awarded Gold Medals in the University Convocation. The college has completely switched to cashless modes of payment in office and cafeteria. The college observed International Women’s Day, National Science Day and International Yoga Day by organizing various events.

### Honours / Distinctions

The College bagged the “Clean Campus Award” by NICER on the recommendations of International Association of Educators for World Peace (NGO Affiliate of United Nations: ECOSOC, UNDPI) for strengthening the cause of “Swachh Bharat Abhiyan” at the Skill and Vocational Education Summit 2017, held at the India International Centre.

Dr. Rakesh Kumar Gupta, present Principal, Department of Microbiology was awarded Life time achievement award for Skill India Initiatives by NICER (on the recommendations of International Association of Educators for World Peace – NGO Affiliate of United Nations: ECOSOC, UNDPI).

Dr. Prerna Malhotra, Department of English, was awarded the 32<sup>nd</sup> Dr. S. Radha Krishnan Memorial National Teacher Award–2016 on the eve of National Teachers’ Day at Constitution Club, New Delhi.

Dr. Rita Jain and Dr. Neena Mital, Department of Statistics and Dr. S.C. Dabas, Department of Hindi were awarded “Best Poster” for the innovation project presentation on “Study on how Cognitive activities fair better than drugs in delaying dementia among 60 plus population” during the Innovation Research Projects Display at the Convocation Ceremony of University of Delhi.

Dr. Nidhi Chandra, Department of Microbiology has been honoured as Co-Editor of The Botanica, Delhi University Botanical Society.

### Students with Distinction

Tarun Adarsh of B.Sc. (Hons.) Microbiology was selected for Jawahar Lal Nehru Centre for Advanced Scientific Research, Bangalore, Summer Research Fellowship Programme In Physical Sciences, April-July, 2016.

Three students, Nitin Khandelwal and G Arvind Sarma, Department of Geology, and Abhishek Sharma, Department of Microbiology received the highly prestigious INSPIRE fellowship of Rs. 80,000/- per annum from the Department of Science and Technology.

Shravya Srivastava (III year), Anshika Singh (II year), Department of Geology have been selected for the Indian National Science Academy (INSA) “Summer Research Fellowship Program.”

Ashish Singh of Department of Microbiology and Nupur Pant of Department of Geology topped the university final year exams in 2016.

Saarthak Dhaawan, an NSS student volunteer from the Department of Microbiology was one of the 10 selected from 62 colleges to represent the Delhi state in Youth festival held at Rohtak, Haryana, organised by Ministry of Youth Affairs and Sports.

Siddharth Rawal of B.A. (Prog) participated in various events A Mighty Pen, National level Debate, National level Slam Poetry and Impromptu. In Slam poetry, he won IInd prize at national level. His paper presentation on “demonetization” was selected on national level and he was invited to read his paper in IIT, Kharagpur Spring fest 2017.

Ankit Kumar Rana of B.Com (Prog). II year represented Delhi state in Senior National Santosh Trophy (Football)  
Amit Sharma of B.Com. (Prog). I year represented Delhi State in Senior National Ball Badminton Tournament  
Shubham of English (Hons) I year won silver medal in Delhi State Judo championship  
Sahil of Hindi (Hons) III year represented Delhi state in 65th Senior National Volleyball Championship  
Megha Bisht of B.A Prog. I year won Gold medal in 19th Junior (Women) Delhi State Boxing Championship  
Prithvi of Pol. Sci. (Hons) I year won Bronze medal in Delhi State Judo championship  
Sachin Gautam of B.A. (Prog) II year won Silver medal in Inter College Judo Championship  
Tanmay Kumar Jha of B.A. I year, Parul Gahlot of Comp. Sci. I year, and Tanmay Kumar Jha of B.A. I year won Bronze medal in Inter College Judo Championship  
Vijay Malik of B.A. (Prog). I year won bronze medal in Inter College Boxing Tournament  
Altaf Ahmed and Akshay, NCC cadets participated and won gold and silver medals in Inter-Directorate shooting competition.

### **Publications**

Alam, M.S., Zeeshan, M., Mittra, P., Choudhary, V. and Sharma, Y.D. (2016). Receptor specific binding regions of *Plasmodium vivax* tryptophan rich antigens and parasite growth inhibition activity of PvTRAg35.2. *Microbes Infect.*, S1286-4579(16), 30047-30048.

Bhatia, V. K. (2016). India–Mongolia Relations Challenges and Prospects in the 21<sup>st</sup> century. *Glacier Journal of Scientific Research*, 11, 31-44.

Bhatia, V. K. (2016). Human Rights in the Era of Globalization. *Glacier Journal of Scientific Research*, 7, 67-78.

Bhowmik, A., Ojha, D., Goswami, D., Das, R., Chandra, N.S., Chatterjee, T.K., Chakravarty, A., Chakravarty, S. and Chattopadhyay, D. (2017). Inositol hexa phosphoric acid (phytic acid), a nutraceuticals, attenuates iron-induced oxidative stress and alleviates liver injury in iron overloaded mice. *Biomedicine & Pharmacotherapy*. 87, 443-450.

Chakravarty, H., Ojha, D., Konreddy, A.K., Bal, C., Chandra, N. S., Sharon, A. and Chattopadhyay, D. (2016). Synthesis of multiring-fused imidazo [1,2- $\alpha$ ]isoquinoline-based fluorescent scaffold as anti-HSV agent. *Antiviral Chemistry and Chemotherapy*, 25 (5-6), 127-135.

Chandra, N.S., Agrawal, V. and Chattopadhyay, D. (2016). Plants with Antiviral Activity against Hepatitis C Virus (HCV). *The Botanica*, 64, 52-55.

Deval, H., Katoch, K., Chauhan, D.S., Tyagi, A.K., Gupta, R.K., Kamal, R., Kumar, A., Yadav, V.S., Katoch, V.M. and Hussain, T. (2016). TlyA protein of *Mycobacterium leprae*: a probable bio- marker of active infection, *Lepr Rev.*, 87, 501-515.

Ojha, D., Das, A., Banerjee, A., Das, R., Chandra, N.S. and Chattopadhyay, D. (2016). Anti-viral Drug Discovery through Ethnomedicine: An update. *The Botanica*, 64, 63-67.

### **Patents filed / granted**

Patent on “Method of screening inhibitors against Hepatitis C virus” has been filed by Dr. Vandana Gupta, Associate Professor, Department of Microbiology on 30 March, 2017.

### **Seminars / Workshops Organised**

National Seminar, “Spatial data analytics and wireless sensor Networks” was organised in Jan., 2017. The eminent speakers were Prof. Sona Minz and Prof. D.K. Lobiyal from School of Computer and System Sciences, Jawaharlal Nehru University.

Seminar, “Understanding social exclusion” was organised on 24 April, 2017. The eminent speakers were Dr. Ratan Lal, Associate Professor, Hindu College and Dr. Jyoti Atwal, Associate Professor, JNU.

Seminar, “Role of rivers in the development of civilizations” was organised in March, 2017. The eminent speaker was Prof. R. C. Thakran, Department of History, University of Delhi.

Seminar, “Theme of Entrepreneurial Culture” was organised by Prof. Kavita Sharma on 13 Feb., 2017.

Seminar, “What lies beneath the eyes; Role of Geologists in Antarctic sciences” was organised by Prof. NC Pant. The eminent speakers were Ms. Devsamridhi and Ms. Mayuri Pandey from Association of Polar Early Career Scientists (APECS).

Seminar, ‘Statistical Issues and Challenges in Biomedical Research’ was organised on 22 Feb., 2017. The chief speaker of the event was Dr. H.S. Chaturvedi, Scientist, NIMS (ICMR).

Workshop on Madhubani Painting was organised by the RLA chapter of SPIC MACAY under the guidance of President Awardee, Smt. Ambika Devi, XII plan grant UGC from 22 to 24 March, 2017.

An interactive workshop on “Distribution, Exploration and Optimization Techniques in Petroleum Production” was organised on 11 March, 2017. Eminent scientists from ONGC shared their technical expertise on different aspects of oil & gas exploration in India, XII plan grant UGC.

One-day competency assessment workshop was conducted by Abbscissa HR Consulting Pvt Ltd to prepare our outgoing students to face the world after college, XII plan grant UGC.

One day workshop on “Human Microbiome: our second genome” was organised in collaboration with the Centre for Human Microbial Ecology (CHME), THSTI on 18 April, 2017. The speakers were Prof. T. Ramamurthy, Dr. Bhabatosh Das, Dr. Prabhanshu Tripathi and Dr Amit Awasthi from THSTI.

One day workshop on “Data Analytics and Internet of Things” was organised on 22 Oct., 2016. The eminent speakers were Mr. Rahul Bajaj from Hays Technology and Mr. Amit Sood from Global Logic.

### **Seminar / Conference Presentations**

Ravinder Singh presented a paper, ‘Impact on online marketing in India: Opportunity and Challenges’ at the “4th International Conference on Sustainable Development: Weaving Innovations in business and commerce” held at Lyceum of the Philippines university, Manila, Philippines during 2 to 4 Feb., 2017.

Rakesh Gupta presented a paper, ‘Occurrence of Carbapenem and Multidrug Resistant Gram Positive Bacteria in Air of Overcrowded Subway Metro Stations in Delhi’ at the “57<sup>th</sup> Annual Conference and International Symposium of Association of Microbiologists of India” held at Guwahati during 24 to 27 Nov., 2016.

Rakesh Gupta and Sunila Hooda presented a paper, ‘Dissemination of Antimicrobial Resistance among Aeromicroflora of Delhi Environment: a Serious public Health Implication’ at the “International Conference on Strategies for Environmental Protection and Management (ICSEPM-2016)” held at Jawaharlal Nehru University, New Delhi during 11 to 13 Dec., 2016.

Perna Diwan and Salome John presented a paper, ‘Prospecting plant extracts for antibacterial activities against Multi-drug resistant bacterial strains isolated from Delhi region’ at the 57<sup>th</sup> Annual Conference and International Symposium of Association of Microbiologists of India at Guwahati held during 24 to 27 Nov., 2016.

Kusum R Gupta presented a paper, ‘Antimicrobial effect of silver nanoparticles on Multi-drug resistant strains isolated from Delhi region’ at the “57<sup>th</sup> Annual Conference and International Symposium of Association of Microbiologists of India” held at Guwahati during 24 to 27 Nov., 2016.

Nidhi Kiran presented a paper, ‘In search of the woman – an attempt to resuscitate female individual from marginal locations in Valmiki’s Ramayana’ at the Two Day International Seminar at Pondicherry University held during 16 and 17 March, 2017.

Vijay Kumar Bhatia presented a paper, ‘Democratic Transition and Political Institutions in Kyrgyzstan’ at the “International Conference organised by School of International Studies” held at Jawaharlal Nehru University, Delhi during Nov., 2016.

Vijay Kumar Bhatia presented a paper, ‘Environmental Degradation in Aral Sea: Challenges and Prospects’ at the “International Conference in Turkmenistan” organised by Academy of Science Turkmenistan.

Krishna Gopal Tyagi presented a paper, ‘Vedic Wisdom: Expansion and Challenges’ at the “International Conference of WAVES 2016 on Scientific Aspects of Vedic Knowledge” held at Bhartiya Vidya Bhawan, New Delhi during 15 to 18 Dec., 2016.

Sanjay Sharma presented a paper, ‘Tulsikrit Ramcharit manas varnasharan dharam’ at an International seminar held at Shyam Lal College (Evening), Delhi University during 23 and 24 March, 2017.



Rajesh Gautam presented a paper, 'Tulsi ke sahitya main sanskritik jagaran' at an International seminar held at Shyam Lal College (Evening), Delhi University held during 23 and 24 March, 2017.

### **National / International MoUs**

The college has signed an MOU with Translational Health Science and Technology Institute (THSTI), Faridabad (an autonomous institute of Department of Biotechnology, Government of India) under the "Science Setu" programme. It will help inculcate a scientific temper and acquaint students with the need to transfer ideas and innovations from the laboratory bench to the community.

### **Other Inter-institutional Collaboration**

Dr Prerna Diwan, Department of Microbiology, is collaborating with Dr. Kaushik Biswas of CSIR-Central Glass and Ceramic Research Institute, Kolkata for antibacterial assay studies.

### **Placement Details**

Students Placed – 12%

The industry leaders like IBM, AON Hewitt, American Express, and CoCubes Technologies Pvt. Ltd. conducted campus placement drives in the college premises, registering more than 100 students for the first round of the selection process.

### **Extension and Outreach Activities**

Many committees in the college as NSS, NCC, Women's Welfare Committee work towards inculcating a sense of responsibility among the students. Programmes such as Swachhta Abhiyan, and various awareness programmes on themes "Beti Bachao Beti Padao", Digital Financial Literacy, promoting electoral participation, visits to old age homes, Water Day March, awareness campaign on Tuberculosis were organised in and outside the college during 2016-17.

### **Library Development**

Currently we have around 60,000 books in the library. In the session 2016-17, 1,908 books worth Rs. 12.23 Lakhs have been added for various subjects.

### **Faculty Strength**

Permanent – 40; Adhoc – 37

### **Financial Allocation and Utilization**

Grant sanctioned – Rs. 21.08 Crore

Utilized – Rs. 15.40 Crore

### **Other Significant Information**

Remedial classes for students requiring additional tutoring are conducted regularly in all semesters.

College provides financial assistance to needy and academically deserving students in the form of fee concession. This year financial aid of Rs 2.63 Lakhs has been distributed among 81 students.

The Spic Macay chapter in the college is an active one. On 4 Feb., 2017, a musical concert by one of the most renowned Hindustani Classical vocalist, Dr. Ashwini Bhide-Deshpande was organised.

Yoga and mediation committee organised a yoga camp from 20<sup>th</sup> Oct. to 8<sup>th</sup> Nov., 2016 for students and teachers.

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## SATYAWATI COLLEGE

### Major Activities and Achievements

The College got Grade “A” Accreditation from NAAC during 2016-17. It was also successful in expanding the infrastructure by creating a Green House as well as a Herbal Garden. Ramps were also constructed for the PwD students and the process of installation of elevators have also started. Few National and International Seminars were organised by some departments. The First Alumni meet of the college was held on 24 Aug., 2016.

### Publications (Selected)

Sinha, S. (2017). New Second Sex. *Petals of Blood and Devil on the Cross in Special Issue on African Literature*.  
Jha, K. B. (2016). The Idea of Hindu Nationalism, Changing Contours: Late 19<sup>th</sup> to Early 20<sup>th</sup> Century. *Dimension of Education*. (pp.47-58), New Delhi: New Delhi Publisher..  
Kumar, K. (2016). Indian Constitution: The Vision of B.R. Ambedkar, Intellectual Resonance. *DCAC Journal of Interdisciplinary Studies, II* (4).

### Seminar Organised (Selected)

A National Seminar on the topic “Remembering Gandhi in the Era of Globalization” was organised on Aug. 10, 2016, by Department of Political Science.

### Seminar / Conference Presentation (Selected)

Jha, B.K. (2017). Emergence of the Idea of “Hindu Interests” in the pre-independence Period-Contribution of Lal Chand, Malaviya, Shradhdhanand and Moonje. National Seminar on ‘Revisiting Indian Independence Movement. Indian Foundation, Delhi, March 18, 2017.  
Singh, S. (2016). Social Inclusion and Modi Government. National Seminar organised by Gandhi Smriti and Darshan Samiti, New Delhi and Ram Bhau Mhalgi Prabodhini Mumbai, Delhi, March 4, 2016.

### Placement Details

Students Placed – 90  
Companies/Industries visiting Campus for Recruitment – 5

### Library Development

A total budget of Rs 10,45,500/- was sanctioned for the development of our library. 1,242 books were purchased in this academic session. The Library subscribes to 48 newspapers, magazines and journals.

### Faculty Strength

Permanent – 105; Ad-Hoc – 35

### Financial Allocation and Utilization

Grant Sanction – Rs. 31,78,00,000/-  
Utilized – Rs. 33,29,40,000/-

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## SCHOOL OF OPEN LEARNING

### Major Activities and Achievements

The admissions for all Undergraduate programmes for the academic year 2016-2017 (I, II and III year) were made 100% online for about 4.7 lakh students, which is a first time in the University of Delhi. Issuance of I-

Card / Hall tickets and Demand-Cum-Examination Form for all Undergraduate and Postgraduate programmes were online for the academic session 2016-17. Around 30 Study Centres of SOL were established in different colleges of the University of Delhi for conducting Personal Contact Programme classes of U.G. Programmes for the academic session 2016-17. The International Day of Yoga was also celebrated on 21<sup>st</sup> June. The Internal Complaint Committee, SOL organised Self Defence Training Classes for Girl students of School of Open Learning twice.. A training programme on Personality and Skill Development was also organised for BPL category students during the year.

### **Students with Distinction**

Two students will be awarded Gold Medals in the University's Convocation.

### **Library Development**

A total amount of Rs. 1,38, 00,000/- has been sanctioned and 6,270 new volumes of Books were purchased. Eight new journals were also subscribed to. School of Open Learning has subscribed to DELNET (Developing Library Network) services. Students can now place their requests for those documents which are not available in SOL library. The documents shall be collected from member libraries of DELNET and made available for consultation in library premises only.. School of Open Learning has provided N-LIST (National Library and Information) to their students for Scholarly Contents services. More than 6257+ e-journals with back files for 10years and 31, 35,809 + e-books. These resources belong to all disciplines and can be accessed remotely from anywhere 24x7hrs. Equal opportunity Cell(EOC) has full-fledged facility with special gadgets and software for the visually impaired, namely Seika V3 Braille Display, Braille Sense U2 Note Taker, Readit Scholar -HD, Read Easy move standalone reading Machine, Daisy Player, and Braille Face, NVDA and Sugamaya Pustakalaya of DFI is an online platform that makes accessible content available to print-disabled students. Visually impaired students can access a collection of over 2, 30,000 books. It has also become an associate member of this online service for impaired students. It is poised to become the largest collection of books in accessible formats in India and a one-stop resource for the reading requirements of all those persons who due to blindness, weak eyesight or any other disability cannot read the standard print. Book share, the largest International online library for persons with print disabilities is also integrated into Sugamya Pustakalaya.

### **Faculty Strength – 28**

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## **SHAHEED BHAGAT SINGH COLLEGE**

### **Major Activities and Achievements**

The College celebrated the Inaugural Function of its Golden Jubilee Celebration on 16 July, 2016 at India Habitat Centre. The then Lt. Governor of Delhi, Mr. Najeeb Jung inaugurated the Golden Jubilee Celebrations. A colourful Souvenir containing a kaleidoscope of the 50 years was released to mark this occasion. The College announced setting of SBSC Centre for Skill Development at the Golden Jubilee Inaugural Function. An initiative of the Department of Commerce, this centre in collaboration with SBSC Alumni Association is inclusive of Young Entrepreneurship Society, Internship Cell and Campus to Corporate Cell to prepare the students for Corporate World and to give them exposure to the possibilities of becoming self-employed. Dr. Anil Sardana, Teacher-in-charge, Department of Commerce is coordinating its activities and programmes.

The inauguration of the Centre for Shaheed Bhagat Singh Studies and Research during the Golden Jubilee celebrations of the college on 1st Sept., 2016 is a major achievement for the college. An initiative of the Department of History, the Study Centre intends to bring together the rich corpus of published and unpublished material on the tumultuous and enthralling history of Indian revolutionary struggle against imperialism in which Bhagat Singh and his ideas have an exemplary presence. Dr. Mita Hussain, Associate Professor, Department of History, is coordinating its activities and programmes.

A Herbal Garden was set up on 25 Oct., 2016 in the college by Harithkram - the Environment Society with research consultancy from DEEKSHA, supported by the Department of Environment, Government of NCT of Delhi. The garden is a collection of living herbal and other plants for the purposes of understanding, conservation, learning, display and to popularise their usefulness and to conserve the associated traditional knowledge and their values for future generations.

### **Publications (Selected)**

Arora, S. (2016). Changing scenario of Indian online companies-deciphering customer, *IIMS Journal of Management Science*, 7(3).

Arora, S. (2016). Facebook: Hate it or love it, but can you ignore it? A comparative study of US and India. *Journal of Information Science Theory and Practice*, 4 (1), 65-73.

Mittal, S.P. (2016). Impact of emotional intelligence on organizational climate: A study of select Indian insurance organization. *International Journal for Scientific and Engineering Research*, 7 (7).

Mohanty, R.K., Sarwer, M.H. and S.H. Setia, N. (2016). A class of quasi-variable mesh methods based on off-step discretization for the solution of non-linear fourth order ordinary differential equations with Dirichlet and Neumann boundary conditions. *Advances in Difference Equations*, 248.

Mukherjee, N. (2017). From nautch to nritya: Dance and subversion in Tagore's dance drama, *Economic and Political Weekly*, 52(3).

Pou, K.B.V. (2016). Waiting for godot and the existential predicament of modern man. In Jeremiah V. Duomai (Ed.), *Engaging the University and Nation: A Christian Perspective* (pp. 57-65), New Delhi: TRACI.

Raman, V.A.V. (2016). *Geo-anthropogenic environment: An appraisal*. Delhi: A. K. Publication.

Sharma, V.R. (2016). Monitoring and modelling socio-economic impact of land use/cover and pollution along Yamuna River, Delhi. *DU Journal of Undergraduate Research and Innovation*, 2 (2), 172-180.

Verma, P.R. (2016). A study of crack-face boundary conditions for piezoelectric strip cut along two equal collinear cracks. *Advances in Applied Mathematics and Mechanics*, 8(4), 573-587.

Verma, P.R. (2016). Strip-saturation-induction model mode-III solution for piezo-electro-magnetic strip. *Mathematics and Statistics (Proceedings)*, 117.

### **Research Projects**

Dr. Suraj Mal, University of Arizona, USA and University of Zurich, Switzerland, Flood risk in Uttarakhand, India: Learning from the 2013 disaster and anticipating emerging threats (taken up jointly by University of Zurich, Switzerland, Shaheed Bhagat Singh College, University of Delhi and National Institute of Hydrology, Roorkee).

Dr. Swati Rajput, Funded by University of Delhi, Stipulating the role of urban agriculture and forestry in the urban environment: Mapping and analysing green spaces in urban land use of Delhi.

Dr. Vishwa Raj Sharma (Principal Investigator), Dr. Neha Arora and Mr. K. Krishnadas (Co-Investigators), Funded by University of Delhi, Earthquake disaster vulnerability assessment and management in Delhi.

### **Seminar Organised (Selected)**

A two-day National Seminar on the theme Changing Dynamics of India's Foreign Policy under Modi's Regime was organised by the Department of Political Science on Oct. 24-25, 2016.

### **Conference Organised (Selected)**

Two-day National Youth Conference on the theme of "Sustainable Development Goals: The Way Forward" on 28-29 Sept., 2016 at India International Centre, New Delhi.

Two-day National Conference on "Building Digital India: Enhancing Capacities through Libraries and Information" on Nov. 22-23, 2016 at India International Centre, New Delhi.

A National Conference on "Making Cities Resilient: Post Habitat III" on Feb. 3-4, 2017 at Conference Centre, University of Delhi, North Campus, New Delhi.

An International Conference on Applicable Analysis during 8-11 Feb., 2017 at Satyakam Bhawan, North Campus, University of Delhi.

#### **Seminar / Conferences Presentation (Selected)**

A. Saini (2017). Role of celebrities in building brand association- A Review contribution to brand literature. FIIB, and published in *Advances in Management* by Bloomsbury.

C. Grover (2016). Imperfect certification and eco-labeling of products. CAS Young Scholar's Conference by CESP. Jawaharlal Nehru University in March, 2017.

K. Arora (2017). Green space and urban wellbeing: Mapping the environment psychology of Delhi. International conference on "Health and wellbeing: An Interdisciplinary inquiry." Department of Psychology, Jamia Millia Islamia, New Delhi, 22-23 March, 2017.

K. Gandhi (2017). Gendered political spaces in Pakistan: Benazir Bhutto and Fatima Bhutto. National conference on Gendered Urban Spaces: Narratives of Self Possession. IIS University, Jaipur in collaboration with Indian Council of Social Science Research (ICSSR), New Delhi, 17-18 Feb., 2017.

K. B. VeioPou (2017). From the oral to the written: The continuing storytelling tradition of the Nagas. Oral tradition of the nagas and the tangible heritage, *The Makhel'*. North East Studies and Policy Research, Jamia Milia Islamia, New Delhi, 24 March, 2017.

Krishnanand. (2016). Stimuli-response theory of Landscape. Two day National Youth Conference, DUSF. New Delhi, 28-29 Sept., 2016.

M. Mehta (2017). PMJDY: A gateway to financial Inclusion. International Conference on innovative research in engineering science. Management and Humanities (ICIRESMH-17), Feb. 19, 2017.

P. Sharma (2017). Role of mountains in attaining sustainable and secure energy: An assessment from himachal Himalayas. International conference on "Spatial Decision support System for National Sustainable Development Goals." Kalindi College, Delhi, 1-2 Feb., 2017.

R. R. Anand (2017). Water, sanitation, crime and wellbeing in low income housing of Delhi. National conference on making cities resilient: Post habitat III. Shaheed Bhagat Singh College, University of Delhi, 3 - 4 Feb., 2017.

R. Gupta (2016). Construction and validation of a five-dimensional celebrity endorsement scale. ICORIA (15<sup>th</sup> International Conference on Research in Advertising). University of Ljubljana, Slovenia, 30 June - 2 July, 2016.

S. Arora (2017). Basket loyalty tussle amongst Indian online retailers. International Conference in CITE-2016: Next generation information technology summit on the theme "Internet of Things." Amity University UP, Noida, 6-7 Oct., 2017.

S. Mohanty (2016). 'New wave of mobilization in the Kashmir valley since 2008: Religious or political? Annual conference of the Southern Political Science Association (SPSA). New Orleans, Louisiana, 12-14 Jan., 2017.

V. A. V. Raman (2017). Geomorphosites based seasonal economy in cold desert region of northwestern Himalaya. 29th Annual conference of Indian Institute of Geomorphologists (IGI) on "Geomorphology and Natural Hazards." University of Calcutta, Kolkata, West Bengal, 24-27 Nov., 2016.

V. R. Sharma (2016). Assessment and management of water quality in river Yamuna, Delhi. International Geographical Congress (IGC). Beijing, China, 21-25 Aug., 2016.

#### **Placement Details**

Students placed– 230

Companies visiting campus for recruitment – 16

#### **Library Development**

This year the total budget of library was Rs. 18,50,500. 2,016 books were added to the collection. The availability of internet facilities have also been improved.

### **Faculty Strength**

Permanent– 97; Ad-hoc – 50

### **Financial Allocation and Utilisation**

Grant Sanction –Rs. 25,09,43,000/-

Utilisation – Rs.24,53,87,789/-

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## **SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES FOR WOMEN**

### **Major Activities and Achievements**

Three new courses namely B.Sc. (H) Physics, B.Sc. (H) Chemistry and B.Sc. (H) Mathematics were started in academic session 2016-17. Simultaneously, fifteen innovation projects assigned to college under the Innovation Project Scheme of the University of Delhi were successfully completed in the year 2016. Software for alumni portal and student data bank has been developed jointly by faculty and students. The team has also undertaken the analysis of end semester results. In addition to this, the Student Council Constitution was released and adopted on 10 Feb., 2017 in a ceremony which had Ms. Monika Arora (Advocate, Supreme Court) as the Chief Guest. Various activities were also organised on various important occasion, such as International Yoga Day, Slogan Writing Competition, Swachhta Abhiyan, NSS Orientation Day, NSS Day, Graffiti Competition, Plastic Collection drive, Collection of Stationery, Ekta Divas, Old Age Home/Orphanage Visit, Literacy drive, Stall on Diwali Mela, Vermicomposting, IRSC (Indian Road Safety Campaign) orientation, Quiz on Road Safety, Self Defence Camp, HIV/AIDS Seminar, Vittiya Saksherta Abhiyan/workshop, Voter's Day, etc. The Eco Cluborganised various awareness campaigns like, Tree plantation drive, best out of waste articles, innovative note pads made from waste paper, etc.

### **Honours / Distinctions**

Dr. Payal Mago (Principal) received Life Time achievement award for outstanding contribution in the area of educational planning and administration besides gender development by Women's agency for generating employment and confederation of Indian Universities (CIU).

Dr. Rekha Mehrotra (Associate Professor) was conferred the State Meritorious Teacher award for the year 2015-16 by Govt. of NCT of Delhi

Dr. Amita Kapoor (Associate Professor) has been Awarded Coursera Mentor for 6 months on 1 Jan., 2017 for mentoring University of Pennsylvania Aerial Robotics course at Coursera.

### **Students with Distinctions**

Mahima got distinction in B.Sc. (H) (Biomedical Sciences)

Diksha Tewari got distinction in B.Tech. (Computer Science)

Ritu Gupta got distinction in B.Tech. (Electronics)

Shruti Goel got distinction in B.Tech. (Food Technology)

Perna Singhgot distinction in B.Tech. (Instrumentation)

### **Publications (Selected)**

Ali, S., Kumar, S., & Ali, S. (2016). Ascertaining the genetic status of the chromium exposed human Y chromosome. *International Journal of Advanced Technology in Engineering and Science*, 4(1), 127-137.

Deo, N., Dhamija, M., & Miclăuş, D. (2016). Stancu–Kantorovich operators based on inverse Pólya–Eggenberger distribution. *Applied Mathematics and Computation*, 273, 281-289.

Dhamija, M., & Deo, N. (2016). Jain–Durrmeyer operators associated with the inverse Pólya–Eggenberger distribution. *Applied Mathematics and Computation*, 286, 15-22.

Dhamija, M., & Deo, N. (2017). Better approximation results by Bernstein–Kantorovich operators. *Lobachevskii Journal of Mathematics*, 38(1), 94-100.

Jain, S., Saxena, P., & Lamba, H. (2017). Effect of Sprouting Time on Antioxidant Properties of *Trigonella foenum-graecum* (Fenugreek) Seeds Available in Delhi-NCR Region. *Int J Cur Res Rev.*, 9(5), 33.

Kumar, S., Chopra, R., & Saxena, R. R. (2016). A fast approach to solve matrix games with payoffs of trapezoidal fuzzy numbers. *Asia-Pacific Journal of Operational Research*, 33(06), 1650047.

Mishra, S., Khatri, M., & Mehra, V. (2017). Trials and tribulations in tuberculosis research: Can plant based drug (s) be the solution? *Chemical Biology Letters*, 4(1), 33-47.

Saxena, P. (2016). Benchmarking efficiency of Delhi Transport Corporation: A data envelopment analysis approach. In *Proc. ICAOR*, 34.

Sodhi, G. S., & Kaur, J. (2016). Physical developer method for detection of latent fingerprints: A review. *Egyptian Journal of Forensic Sciences*, 6(2), 44-47.

Verma, S. K., Arora, I., Javed, K., Akhtar, M., & Samim, M. (2016). Enhancement in the neuroprotective power of riluzole against cerebral ischemia using a brain targeted drug delivery vehicle. *ACS Applied Materials & Interfaces*, 8(30), 19716-19723.

### **Research Projects**

Dr. Senha Kabra, SERB (DST), Modeling, Simulation and development of AlGaIn/GaN HEMT based lactic acid and Uric acid biosensor for clinical research.

Dr. Varsha Mehra, SERB (DST), Isolation and characterization of *Asaphodata indica* constituents for anti-mycobacterial activity against *Mycobacterium tuberculosis* in vitro and ex vivo within human macrophages.

### **Seminars Organised (Selected)**

Dr. Roma Kumar, Senior Psychologist at Max Hospital and Ganga Ram Hospital on “Mental Health Awareness and Stress Management, March 3, 2017.

Dr. Anil Kumar, Scientist-G, Molecular Imaging and Research Center, INMAS and Prof. Arun Malhotra, Department of Radiology, AIIMS on Radiopharmacy and Nuclear Medicine, Oct. 21, 2016.

Prof. Souvik Mahapatra, Department of Electrical Engineering, IIT Bombay, on ‘CMOS Transistors - Operation, Scaling, Reliability and Way Forward,’ Jan. 23, 2017.

Prof. V. Ravichandran, Head, Department of Mathematics, University of Delhi on ‘Paradoxes in Mathematics,’ Oct. 3, 2016.

### **Workshops/ Conferences Organised (Selected)**

National Conference organised by The Department of Biomedical Science on “Understanding the Mechanism and Challenges of Complex diseases (UMCCD-2017)” on Jan. 24-25, 2017.

Department of Instrumentation in collaboration with Department of Electronics organised the 2nd National Conference on Recent Trends in Instrumentation and Electronics (RTIE-2016) on Oct. 5-6, 2016.

### **Seminar / Conference Presentation (Selected)**

Ali, S. (2016). Ascertaining the genetic status of the chromium exposed human Y chromosome. 5th International Conference on Science, Technology and Management. India International Centre, New Delhi, July 30, 2016.

Arora, I. & Kaur, P. (2017). Transition metal based spineloxidegraphene nanoribbon composites for removal of pesticide from water. International Conference and outreach program on “Environment and Ecology: Sustainability and challenges, Sri Venkateswara College, University of Delhi, New Delhi, Jan. 4-6, 2017.

Arora, I. (2017). Poster presentation on Synthesis and characterization of silver and gold nanoparticles using plant extract of *ruta graveolens* linn. sudab rutaceae.. 2nd International Conference on Bridging Innovations in Pharmaceutical, Medical and Bio Sciences (INNOPHARM 2), Feb, 2017.

Kapoor, A. (2016). Centrality measures in close group of adolescent females and their association with individual character strengths. International conference on Advances in Social Networks Analysis and Mining, San Francisco, SA, Aug. 2016

Khatri, M. (2017). Poster presentation on Design, Synthesis and Evaluation of antidiabetic activity of new substituted alkyl carboxylic acid derivatives. 8th International symposium on Current trends in Pharmaceutical Sciences: Advances in New Drug Discovery and Development, Feb. 2-4, 2017.

Mehra, V. (2016). Synergistic and antibacterial potential and total bioactive component determination of elletariacardamomum, pipernigrum and aromaticumsyzygium. 13th World Biotechnology Congress, San Francisco, USA, Nov. 27-30, 2016.

Roy, P. (2017). Application of RFID in Shaheed Rajguru College of Applied Sciences for Women, University of Delhi, India: Challenges and future prospects. University of London. United Kingdom, May 27, 2016,

Saxena, P. (2017). Benchmarking efficiency of Delhi Transport Corporation: a data envelopment analysis approach. International Conference of Applied Operational Research (ICAOR), Rotterdam, Netherlands, June 28-30, 2016.

Singh, R. (2016). E-poster presentation on Development of soy fortified Indian traditional snacks. 15th International Conference on Food Processing and Technology, Rome, Italy, Oct. 27-29, 2016

### **National/ International MoU**

MOU signed with Aspiring Minds Private Limited (Company for placements) for AMCAT examination.

### **Other Inter- institutional Collaboration**

Robotics club was established in the college in collaboration with IIT Bombay's E-YANTRA Project in 2014-15. This is sponsored by MHRD through National Mission on Education through ICT (NMEICT).

### **Students under Exchange Programmes**

Inbound/outbound - 2

Ten students and two faculty members from Sikkim Govt. Science College, Chakung, West Sikkim, visited college for Student Exchange Programme (10 days) under "Ek Bharat Shreshtha Bharat Programme."

### **Placement Details**

Students placed – 38 (13.92%)

Companies visiting campus for recruitment – 4 (On Campus); 12 (Off Campus); 12 (Through AMCAT)

### **Extension and Outreach Activities**

Organised a Computer Literacy Programme for the students of underprivileged section of the society for the session Sept., 2016 to Nov., 2016 and another ongoing session from Jan., 2017

Organised Digital Empowerment for Homemakers (DEH) programme in association with Sakhi Saheli, an active NGO working for women welfare and empowerment in Vasundhara Enclave.

NSS volunteers of the college has been undertaking teaching for the underprivileged children in the college premises daily, since two years.

### **Library Development**

Total Number of books added in the library this academic year is 1,212. Online databases sites including ABI InForm (Business), JSTOR (General Multidisciplinary), LEXISNEXIS (Academic News), Psycinfo- Psychology, Pubmed/ Medline- Medicine, Science Direct- Science Multidisciplinary, Web of Science- General etc, are accessible to students through library.

### **Faculty Strength**

Permanent –23; Ad-hoc – 36



### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 125500000.0

Grant Utilized – Rs. 122219801.26

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## **SHAHEED SUKHDEV COLLEGE OF BUSINESS STUDIES**

### **Major Activities and Achievements**

Over the past year, the college has achieved new heights. Student achievements have gone up in both quality and quantity. Student placements are up in terms of number of offers and the packages. Many students have opened, worked with and made successful numerous start-up ventures. Faculty development via participation in conferences, FDP's, Orientation and Refresher courses and publications has been enhanced. A number of Innovation projects have been approved for facilitating student-faculty research and societal development. New campus in Rohini will also be functional from July, 2017. Incubation Centre (funded via grant from the Govt. of NCT of Delhi) of the college is functional and has extended Incubation Support to five start-up ventures (from the students of the college) after multiple rounds of rigorous screening.

### **Honours / Distinctions**

The college has a functional Incubation Centre (SSCBS Innovation and Incubation Foundation-SIIF) for promoting entrepreneurship amongst its students and staff. Five entrepreneurial ventures of students of the college have received Incubation Support

Two students of the Quiz Society of the college (Illuminati) won the (pan-India) LIC Diamond Jubilee Quiz, netting a cash prize of Rs. 5 Lakhs and Rs. 1 Lakh in prize money for the college.

### **Students with Distinction**

Academics:

Ravtej Singh (BMS), a prolific quizzier, represented the college in numerous quizzes and has won 50 quiz events hosted by DU Colleges, IIT's and other academic institutions of repute. Won the (pan-India) LIC Diamond Jubilee Quiz with Gourav Jena, winning a total cash prize of Rs. 5 Lakhs.

Gourav Jena (BMS) has represented the college in numerous quizzes and has won 42 quiz events hosted by DU Colleges, IIT's and other academic institutions of repute. Won the (pan-India) LIC Diamond Jubilee Quiz with Ravtej Singh, winning a total cash prize of Rs. 5 Lakhs.

Anmol Wassan earned an opportunity to visit Wikimania 2017, the annual Wikimedia conference at Montréal, Québec, Canada during 09-13 Aug. 2016 with a fully sponsored trip by Wikimedia Foundation.

Anupam Gupta published two research papers in international journals of repute.

Sports:

Mohd. Ameen Zain – Secured Silver Medal in Delhi State Rifle Shooting Championship, Cleared Pre-nationals and then in 60th National Shooting Championship in Small Bore Rifle and Pistol Events which was held at Balewadi Stadium in Pune From 12-26 Dec., 2016 after scoring Minimum Qualifying Score Became National Renowned Indian Shooter.

### **Publications**

Garg, K. & Sehrawat, N.K. (2017) *Handbook on valuation*. New Delhi: Bharat Law House Pvt. Ltd.

Khatri, D. (2016) Social search behaviour of undergraduate students of Shaheed Sukhdev College of Business Studies. *VSRD International Journal of Library & Information Science, II(IV)*.

Kumar, N., Singh, M., Govil, M.C. and Jaiswal, A. (2016). Salient object detection in noisy images. *Advances in Artificial Intelligence*, 9673. (pp. 109-114). (Conference proceedings of 29th Canadian Conference on Artificial Intelligence),

Kumar, R. (2016). Sustainable Marketing: Ecological Issues in *Contemporary Issues in Marketing*. New Delhi: Global Vision Publishing House.

Marwaha, T. (2017). Studying the ICT skills level in students enrolled in IMT-CDL's online courses. *Eduspectra: An Interdisciplinary Journal of Research and Education*, 3, 14-38.

Nigam, N. K., & Jain, S. (2017) The relationship between market determined systematic risk and accounting variables. *Researchers World: Journal of Arts, Science and Commerce*, VIII (1), 61-69.

Paridhi. (2016). Objectives of education system: Comparative study of ancient bharat and modern India. *Journal of Evolution of Education System in Bharat*, 1, 81-85.

Sehrawat, N.K. (et al). (2017) CEO equity compensation and firm performance: evidence from India, *Social Science Reporter*, 7 (1), 68-91.

Sushmita. (2016). The vitality of informal sector in Indian economy. *International Journal of Retailing and Rural Business Perspectives*, 5 (3), 2339-2347.

Tandon, A., Aggarwal, A. G., & Nijhawan, N. (2016,). An NHPP SRGM with change point and multiple releases. *International Journal of Information Systems in the Service Sector*, 8(4), 57-68.

#### **Research Projects (Selected)**

Neelu Gupta, Funded by University of Delhi, Aug., 2015 to Nov., 2016, Shramdaan for Skilling India: Harnessing Youth Power for Development.

Mr. K.K. Sharma, Funded by University of Delhi, 2016-17. Project Raahat

Col. R. Johri., Funded by University of Delhi, 2016-17, E-waste Management: A Social Responsibility Towards Sustainability,

Web Based Automation for the Self-Assessment of an Educational Institute, Funded by University of Delhi, Sept. 2015 to Aug., 2016, Dr. Naveen Kumar.

Prof C.P. Gupta, Funded by University of Delhi, 2016-17, Financial Literacy among Indian Youth: A Study of University of Delhi's Students.

#### **Seminars Organised (Selected)**

A career counselling session by Mr. Saurabh Garg (Adobe Systems) on 03 Feb., 2017.

A workshop on R Programming organised by SSCBS from 07-08 March, 2017.

#### **Conference/ Workshops Organised (Selected)**

Convergence 2017 (the annual management conference of SSCBS) was organised on 20 Jan., 2017.

#### **National/International MoU**

BSE for running the FMAT (Financial Modeling and Algo Trading) course.

NSE for running the NCCMP (NSE Certified Capital Markets Professional) course.

#### **Students under Exchange Programme**

Inbound/ outbound – 2

Two students have attended the BBS course in the college.

#### **Placement Details**

Students Placed – 126 (79.75%)

### **Library Development**

The library added new titles in its collection on regular basis which as of now holds 20,764 titles. In addition, the library this year subscribed to 47 magazines and journals of national and international repute and 13 national and business newspapers. The library made purchases in the field of business communication, computer science, economics, finance, human resource management, marketing and other related areas during the year.

Apart from the print resources, teaching and research was also supported by accessing the large number of electronic resources i.e. Electronic Journals, Reports, and Case Studies through Delhi University Library Network which included 02 Federated/Common Search Engines namely JCCC and Knimbus, 12 Reference & Citation Sources, 07 Bibliographic Sources, 02 Citation Analysis Resources namely, Scopus and Web of Science and other full text databases in the field of Management Studies and Computer Science etc.

Moreover, the library has an Institutional membership of Developing Library Network (DELNET) and N-LIST (National Library and Information Services Infrastructure for Scholarly Content). Most importantly, all college library activities have been automated using the complete modern Web-based Open Source Solution i.e. KOHA, an internationally renowned Integrated Library Management System. The college is one of the first few college libraries of University of Delhi which has shifted from LIBTEK DOS based library system to KOHA Open Source Library Management Software. The basic objective of the KOHA is meeting the needs of its user base by providing the resources i.e. Books, Journals, Newspapers etc. With the use of KOHA software, Electronic resources i.e. Research Papers, Articles etc. of our college faculty members have been processed and put exclusively under the Research Publications category of the interactive library catalogue.

To enhance the Cashless Environment, Library is generating reports from KOHA as well. Students, faculty and staff members can easily check the status of the library resources by accessing the Online Public Access Catalogue (OPAC) and have access to the scanned syllabus and question papers through the Library Portal. This catalogue supports advanced search strategies displaying enhanced catalogue. Library has Hindi Literature books and a separate section of books for Economically Weaker Section Students.

In addition, all the library resources have been barcoded and a software has been installed at the check desk for analysing the foot falls of faculty, staff and students visiting the library.

This year, the library added 899 textbooks and reference books for an outlay of Rs. 3,04,478/-, 47 periodicals for Rs.1,18,805/- and 13 newspapers for Rs. 22,472/- On the electronic front, the library spent Rs. 11,500/- and Rs. 5,750/- to subscribe to digital databases, DELNET and N-LIST respectively.

### **Faculty Strength**

Permanent – 35; Ad-hoc– 04

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## **SHIVAJI COLLEGE**

### **Major Activities and Achievements**

The College was accredited with grade “A” by NAAC and lauded as an environment-friendly campus. Campus was made vehicle-free, tobacco-free and fitted with solar power panels which helped reduce the carbon footprints of the institution. It also followed several other good practices, like creating a vermicomposting pit, rainwater-harvesting facility and development of a herbal garden. The College took a lead in sensitization programmes for gender awareness and ragging free zone. The Women Development Cell of the college organised a ‘Gender Fair’ this year. One of the significant achievements of this college was that it has instituted the “Jijabai Achievers’ Award” through which it acknowledged and felicitated Indian and International citizens who work tirelessly for women empowerment with determination and perseverance. The college faculty published 59 papers in international and 17 papers in national peer reviewed journals, 24 books and 24 chapters in edited books.

## **Honours / Distinctions**

### **Faculty Members**

Dr. Amarjiva Lochan received Vidushi Vidyottama National Award for his contribution to Indology, at Ujjain, India, 2016.

Dr. Darshan Malik received Meritorious Teacher Award and Teacher's Excellence Award.

Dr. Reetika Rana was selected for an NFP Fellowship financed by Dutch Ministry of Foreign Affairs for a study programme on Market access for food security (27 Nov.,-16 Dec., 2016) at the Wageningen Centre for Development Innovation, Netherlands.

Dr. Shashi Nijhawan was awarded Lifetime Achievement Award by Women's Agency for Generating Employment, Environmental Education Promotion Award by National Institute of Cleanliness and Research (NICER) and Leadership Award for Excellence by ECONS.

### **Awards / Honours Students**

Students received a Certificate of Appreciation and won Best Poster award for research display of innovation project "L-Asparaginase, an Anti-Tumor Agent: Production, Characterization and Molecular Approach" by University of Delhi the Convention Centre, on Nov. 19, 2016.

Students received a Certificate of Appreciation and won Most Significant Societal Impact award for research display of innovation project, "Lifestyle Disorders: Etiology, Awareness & Management" by University of Delhi on Nov. 19, 2016.

Students received a Certificate of Appreciation and won Most Significant Societal Impact award for the project, "A Comparative Chemical Analysis of Commercially Available Newer Brands of Edible Oils for their Highlighted Benefits for Human Consumption" by University of Delhi on 19th Nov. 2016.

Students received a Certificate of Appreciation and won the Most Significant Societal Impact certificate for research display of innovation project, "Comparative Analysis of Heavy Metal Toxicity and Pesticide Contamination in Vegetables collected from local sites and organic stores in Delhi" by University of Delhi on Nov. 19, 2016.

Students of research project 'Real Time Android Application for Travel Convenience' received the Innovation Award for their work as a part of Melting Pot 2020 International Innovation Summit held on Nov. 24, 2016 and received a Certificate of Appreciation for research display by University of Delhi on Nov. 19, 2016.

### **Students with Distinction**

Aastha Gupta, a student of B.Com. (H) 1<sup>st</sup> year, got the CGPA of 9.00.

Rashika Sehgal, a student of B.A. (H) Economics 1<sup>st</sup> year, got the CGPA of 8.77.

Pratyasha Talukdar, a student of B.A. (H) History 1<sup>st</sup> year, got the CGPA of 8.77.

Shammi, a student of B.Sc. (H) Mathematics 2<sup>nd</sup> year, got 776 marks out of 800 (97%).

Pragya Sharma, a student of B.Sc. (H) Chemistry 1<sup>st</sup> year, got the CGPA of 8.68.

### **Publications (Selected)**

Nijhawan S., Chopra A., Dandona I., Rana R., Bhavnani, B and Vasal A. (Eds.), (2017). *Udayan: A New Beginning*. New Delhi: Shivaji College.

Giri. et al. (2016). Biodegradable polymeric nanostructures in therapeutic applications: Opportunities & challenges. *RSC Advances*, 6, 94325-94351.

Gulati, V. (2016). Ammu's tragedy: An alienated voice of Arundhati Roy's *The God of Small Things*." pp. 165-169

Maliket al. (2016) Assessment of correlation between Quetelet's Index and body fat percentage in a group of Indian Undergraduate students. *The DU Journal of Undergraduate Research and Innovation*, 2(1), 56-69.

Pandey, D. (2016), Naatyatva ki kasauti par Mohan Rakesh krit 'Ashaadh ka ek Din'. *International Journal of Academic Research and Development*.

Ram, K. (2016), Trend and pattern of non-food commodities Consumption in India: 1993-94 to 2011-12, *Anukriti*, 6 (7), 119-124.

Rana, R. (2016). Economic viability of Compressed Natural Gas (CNG) as an automotive fuel for private vehicle owners. *Global Business and Economic Anthology*, 1, 115-127.

Ratnu, B., and Rana, T. (2016). Water management in western Rajasthan. *DU Journal of Undergraduate Research and Innovation*, 2(2), 165-171.

Singh, S., and Prabhavathi, V. (2016). Standardization of Agrobacterium-mediated transformation and development of *Citrus Sinensis*. *Transgenics*, 3(2), 155-159.

Wardhan, R. (2016). Carcinogenic and organo toxic compounds in milk. *LIFE: International Journal of Health and Life-Sciences*, 2 (2), 55-70.

### **Research Projects (Selected)**

Dr. Kumari Priyanka, funded by SERB, 2016-2019, Design and Analysis of Sensitive Characteristics on Successive Occasions and their Applications, Rs. 19, 08,100.

Dr. Kumari Priyanka, Funded by UGC, 2013-2017, Search of Good Rotation Patterns on Successive Occasions and its Applications, Rs. 10, 89,303.

Dr. Prabuddh Kumar Mishra, ICSSR, 2017-2019, Indigenous Ecological Knowledge for Soil, Water and Nutrient Conservation in Sikkim Himalaya, Rs. 6, 00,000.

Dr. Vijay Kumar, Funded by UGC, 2016-2018, Studies on Mercury Contamination of Surface and Ground Waters in and around Delhi and its Bioremediation, Rs. 4, 25,000.

Ms. Anshu Chopra, Ms. Abha Vasal and Ms. Preeti Sharma, funded by University of Delhi, 2015-2016, Real Time Android Application for Travel Convenience, Rs. 4,00,000.

### **Seminars Organised (Selected)**

Department of Biochemistry, Botany, Zoology & Chemistry organised DST sponsored Inspire Science Camp for school students, Dec. 14-18, 2016.

Department of Commerce organised a week long National Level Faculty Development Programme on 'Research Methodology and Data Analysis,' Nov. 21 - 27, 2016.

Women Development Cell organised a Gender Fair, sponsored by UGC, on the theme 'Being a Woman,' Feb. 2-3, 2017.

Department of Sanskrit organised a National Seminar on 'Modern science in Vedas,' Feb. 21, 2017.

Department of Biochemistry, Botany, & Chemistry, Computer Science and Zoology organised a Workshop on 'Laboratory Skill Training Program for Laboratory Staff,' July 10-14, 2017.

### **Conferences / Workshops Organised (Selected)**

National Conference on Many Patriarchies, Many Positionalities: Re-interrogating Gender in Narratives from North-East India on Feb. 16-17, 2017, organised by the Department of English.

National Conference on Nationalism: Different Strokes on March 20-21, 2017, organised by the Department of History.

### **Seminar / Conference Presentations (Selected)**

J. Sharma (2017). *Samajik aur sanskritik drishti se Hindi: Kal aur aaj*. 7<sup>th</sup> International Literature and Cultural Conference, Budapest, Hungary, June 7, 2017.

J. Sharma (2017). The socio- historical contribution of women characters. Jaishankar Prasad's plays, University of Lausanne, Switzerland, May 16, 2017.

S. Singh (2016). Physicochemical Synergetics of liquid mixtures of functional molecules: Oscosurvismeter and survismeter. International Conference on Measurement and Test Methodologies, Technologies and Applications, Phuket, Thailand, April 24-25, 2016.

S. Garg (2017). Living, learning, remembering: Journeys of expatriate women in Jhumpa Lahiri's 'The lowland and Chitra Bannerji Divakaruni's 'The Vine of Desire.' International Seminar on De-centering English Studies: Studying Literature in the Global South, Utkal University, Bhubaneswar, Jan. 19-21, 2017.

R. Wardhan (2016). Milk borne pathogens: Isolation and identification, health risk to population especially young

ones. 16th International Conference on Medical, Medicine and Health Science (MMHS-2016), Osaka International convention centre, Singapore, July 11-12, 2016.

### **Placement Details**

Students Placed – 170

Companies visiting campus – 10

### **Extension and Outreach Activities**

*Peahal: Ek Prayaas*, an education drive, was taken by NSS volunteers. They devoted two hours daily for providing better quality education to underprivileged children of a slum in Raghbir Nagar.

Few faculty members of Department of Biochemistry, Department of Mathematics and Department of Zoology organised three Health Camps for students, teaching and non-teaching staff Sept. 19, 2016–Oct. 1, 2016, World Heart Day–Sept. 29, 2016 and Health Awareness Desk– Oct. 18-19, 2016.

A Traffic Awareness Programme was organised by NSS in coordination with Delhi Traffic Police on Aug. 20, 2016.

NCC cadets and NSS members participated in Swachhata Pakhwada on Aug. 29-30, 2016 with the aim to clean the College and nearby places.

NSS team of Shivaji College launched Online Campaign against Pollution on Nov. 2, 2016, by taking advantage of social media as a medium to mobilize people. A Voluntary Blood Donation camp was organised by the NSS team in collaboration with Rotary Club on Nov. 8, 2016.

A training session on cashless transactions was organised for NCC cadets on Jan. 3, 2017 under Vittiya Saksharta Abhiyan.

Workshop on Promoting Intergenerational Bonding was organised by the NSS team on Jan. 10, 2017 for a cause.

Nishkaam: Health Camp, Book Distribution and *Langar* were organised by NSS for children of Raghbir Nagar on Feb. 20, 2017.

### **Library Development**

Total Budget sanctioned for library was Rs. 19,32,697. 2,663 news books have been added in library database.

### **Faculty Strength**

Permanent –108; Ad hoc–85

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 36,12,64,602.

Utilized – Rs. 32,46,61,944.

### **Other Significant Information**

Shivaji College is the only college in the university to provide Accidental/Life Insurance Policy of Rs. 1 Lakh per student at nominal premium. Six faculty members are guiding Ph.D. students. The college promotes overall development of the students and encourages out of the class experience through several educational trips. A lecture series was organised under the umbrella of Science-SETU program for the students.

All the departments of the college held their annual academic programme which provided a platform to the students to interact with eminent people like Padmashri awardees Professor R.M.K. Bamzei, former Vice-Chancellor Jammu University and Mr. Naresh Bedi, Wildlife Photographer, the Union Minister for Defence, Mr. Manohar Parrikar, Union Minister of State for Home Affairs, Mr. Kiren Rijju and Member of the Rajya Sabha and National Vice President of the BJP, Dr. Vinay Sahasrabudhe.

A SPIC MACAY programme was organised which showcased Mohiniyattam by highly awarded Dr. Deepthi Omcherry Bhalla. Vayam, the Theatre Society, won First Prize in Udaan Utsav, the annual Theatre Festival organised in the University of Delhi premises.

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## SHRI RAM COLLEGE OF COMMERCE

### Major Activities and Achievements

The College completed 90 glorious years of its establishment this year. The Inaugural programme of 90<sup>th</sup> year's celebrations was held in the Vigyan Bhawan, New Delhi on Feb. 20, 2017. The Hon'ble President of India was the Chief Guest for the event. Union Finance Minister, Minister of State for Youth Affairs & Sports, Hon'ble Justice of the Supreme Court and Vice-Chancellor of the University of Delhi were present with the Chairperson of the Governing Body of the College. "Crossroads", students' annual mega cultural festival was held in March, 2017 in which renowned playback singers Armaan Malik and KK gave their performances. Events and activities on the area of finance & investment, marketing, stock market, entrepreneurship, social outreach, startups, debate, drama, fine-arts, computers, language and literature, were organised by the respective students' societies attracting large participation of students from across the University. Festival of Youth Sports was also organised, which was inaugurated by MoS for Information and Broadcasting, in the month of Feb., 2017. It witnessed participation by different colleges. A student's Journal Strides was launched during the year.

### Honours / Distinctions

The NAAC awarded A+ grade to the college with CGPA of 3.65, highest amongst colleges of the DU, after a peer team from the NAAC made a three-day visit during Aug., 2016 for assessment and accreditation of the college.

The College was conferred with Third Rank for the year 2016-17 in All India Ranking of Colleges by the National Institutional Ranking Framework (NIRF).

### Students with Distinction

Ms. Richa Goel is the topper M. Com.

Mr. Pramod Abraham topped in PG Diploma in GBO

Mr. Akhil Jain remained topper in B. Com. (Hons.)

Ms. Tishara Garg is the topper B.A. (Hons.) Eco.

### Publications (Selected)

Chaudhary, P. (2016). *Stock Return Volatility: A comparative study of India and China*. Delhi: Lambert Academic Publishing.

Deepashree. (2016). *Indian Economy: Performance and Policies*. Delhi: Scholar Tech Press.

Deepashree. (2016). *Microeconomics - Theory and Applications*. Delhi: Scholar Tech Press.

Dewan, A. (2016). Organizational Culture & Human Resource Management: A Scenario in the Case of Mergers & Acquisitions. *Amity Global HRM Review*, 6, 62-65.

Gialchhen, N. (2016). Financial Evaluation of OICL: An analysis. *Business Analyst*, 37 (1), 47-62.

Gupta, R. & Ahuja, G. (2017). *Direct Taxes Law & Practice*. Delhi: Wolters Kluwer (India) Pvt. Ltd.

Jawa, R. (2017). *E-Marketing. Delhi*. Delhi: Singhal Publications.

Kumar, A. (2017). *Governance, Ethics and Social Responsibility of Business*. Delhi: Taxmann.

Kumar, A. (2017). *Basic Corporate Accounting, (Second Edition)*. Delhi: Galgotia Publishing Company.

Kumar, R. (2017). *Corporate Accounting*. Delhi: Singhal Publications.

### Seminars Organised (Selected)

A Summit on the Emergence of Tech-HR was held in the college on Sept. 17, 2016. Keynote Speaker: Mr. Nitin Thakur, HR head, Talent Management, APAC, Rockwell Automation.

A Summit on the Global Sustainability was held in the college from Jan. 27-31, 2017. Speakers: Mr. Naveen Jindal, Ms. Meira Kumar, Dr. Pawan Agarwal, Mr. Rajiv Memani, etc.

A Global Millennium Summit was organised in Dubai, March 18-19, 2017. Summit Inaugural address by the Minister of Culture & Knowledge Development (UAE) and MoS for Youth Affairs & Sports (India).

### **Conference/ Workshops Organised**

International Conference on Advances in Business and Information Technology & Doctoral Colloquium was organised in Kigali (Rawanda) on March 1-2, 2017.

### **Seminar / Conference Presentations (Selected)**

International:

Dewan, A. (2017). Culture and Its Dimensions. International Conference on Corporate Governance: Retrospect and Prospects IMS, Ghaziabad, Jan. 12-13, 2017.

Jain, V. (2017). Firm Level Determinants of Outward FDI from India. International Conference on Advances in Business and Information Technology organised by University of Kigali, Namibia & SRCC, DU, Kigali, Rwanda, March 1-2, 2017.

Kumar, M. (2016). Socio Economic Sustainability of Financial Cooperatives in India. Third European Academic Research Conference on Global Business, Economics, Finance & Banking, Paris, France, July 3, 2016.

National:

Kaushik, R. (2017). Issues and challenges of being English teachers-cum-materials developers: A perspective. National Conference organised by Central Institute of Education, DU, Delhi, March 03, 2017.

Kaur, K. (2017). A reflection Paper of Health Related Quality of Life and Academic Achievement of Delhi College Level Females. National Conference on Latest Trends in Health & Physical Education, DU, Delhi. Feb. 14-15, 2017.

### **Other Inter-institutional Collaborations**

College collaborated with UNECSO, Paris for Cultural field. It also engaged with Ministry of Youth Affairs, India for Startups. Xerox Headquarters Rochester, New York also collaborated with us for Innovation.

### **Students under Exchange Programme**

Inbound/Outbound – 32

College Organised 16 inbound programmes in our campus wherein students participated from Penn State University, HU University, Tsinghua University, NFUCA Japan, NTU (Singapore), Kings College (London), Kyung Hee University (Korean), etc. In addition to this, 16 outbound programmes were also organised wherein students went to Harvard University, University of Wisconsin, HU University, MDX University (Dubai), Columbia University (New York), St. Jones College(USA), etc.

### **Placement Details**

Students Placed – 50 post-graduates (91%), 340 under-graduates (47%)

Companies/industries visiting campus for recruitment – 37 (for post-graduates ); 50 (for under-graduates)

### **Extension and Outreach Work**

10 Projects/Camps were organised in the surrounding areas in 274 acted as volunteers. . Approximately 7,600 people of varied communities were enrolled/ covered in these camps. One such camp was Project Kushali (Sonepat, Haryana) for Empowering Rural Communities. Another was Bal Sahyog (Connaught Place, Delhi), which was a cleanliness drive. Students also organised a Flash Mob (Kamla Nagar, Delhi) to promote Green Diwali. Financial Literacy Drive was organised in Azadpur Market, Delhi. A social Entrepreneurship initiative, Project Vishwas, was also done at Mangolpuri, Delhi. Project Sanskaar was started in Model Town, Delhi to promote Child Education. Project Sashakt (Rohini, Delhi) was started for Empowering Urban Slum Dwellers. Another initiative is Project Samarth to promote literacy among Rikshaw Pullers. Project Utthan (Kamla Nagar, Delhi) was started for welfare of Hawkers & Vendors.



### **Library Development**

Computer, printer & internet facilities has been provided to the faculty in a dedicated room in the Library. E-notice facilities related to Library has also been provided to the faculty. Electronic Notice Board has been installed in the Library. Question paper bank facility has been initiated and previous year's question papers are made available on computers for students. POS machine is being installed for library receipts from students.

### **Faculty Strength**

Permanent – 60; Ad hoc – 66

### **Financial Allocation and Utilisation**

Grant sanctioned – Rs. 24, 83,00,000/-

Grant Utilized – Rs. 20,18,00,000/-

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## **SHYAM LAL COLLEGE**

### **Major Activities and Achievements**

The College took the pioneering initiative by organizing Virtual lectures with global experts through SKYPE software. The Department of English, SLC organised a Virtual Lecture on “Post-apartheid Literature and the Postcolonial Discourse” as part of the SLC Public Lecture Series on 2nd Feb, 2017 with Prof. Michael Chapman, Professor Emeritus and Fellow at the University of KwaZulu-Natal (Durban). The college participated in MHRD's Digital Economy Project Vittiya Saksharata Abhiyan (VISAKA). The CHD team of the college has been able to convert 1000 households and about 200 vendors to adopt digital modes of payment.

The college has now a fully functional Solar Power plant that generates power covering 55% of our peak demand. The Solar Power plant was installed in the college as a collaborative initiative with IPGCL, Govt. of NCT of Delhi wherein the said govt. agency took responsibility towards the full cost of the installation of the Solar panels. As an institution committed to zero water wastage and harnessing the power of every drop of this precious commodity, an important step was taken by including rain water harvesting system on the campus. The Institution, in collaboration with NGO Jaagruti, has started recycling of waste papers and in return has received 500 reams of paper.

### **Honours / Distinctions**

Team Shyam Lal College won appreciation from MHRD for actively engaging in the VISAKA project on various fronts with the invaluable support of our students. Two students were selected as best volunteers in the National list of 334 volunteers and received TABLETS from the MHRD & IT Ministry.

The e-Cell team of SLC won the National level competition called National Entrepreneurship Challenge held at IIT-Bombay on 29<sup>th</sup> Jan., 2017. More than 300 teams from all over the country participated in the competition.

Sports:

SLC's Mens' Hockey Team became the champion of Inter College Hockey Tournament, University of Delhi.

Cheshta Chaudhary (B.Com (P), 2<sup>nd</sup> year , won Gold medal in 3M Spring Board Diving event in All India Inter – Varsity Aquatic Championship 2016-17.

Jitender Kumar (B.A. Prog. 2<sup>nd</sup> year won Gold Medal in 21KM Event in Inter-College Athletic Championship 2016-17 & Won Gold Medal in 5KM Event in Delhi State Athletic Championship 2016-17

Sarvjeet Kumar Singh (M.A.Hindi Final year), won Gold Medal in 4x100M relay in Senior National Para Athletic Championship 2016-2017

Sachin Malik (B.A. Prog 2<sup>nd</sup> year) won Gold Medal in below 81kg in Inter College Judo Championship 2016-2017.

Abhay Narayan Tiwari (B.Com. Programme III<sup>rd</sup> year) won Bronze Medal in below 90 kg in Inter College Judo Championship 2016- 2017.

### **Publications (Selected)**

Arora, K, (2016). Stock selection skills of fund managers in India: An empirical investigation, *Finance India*, 30(2).

Kar, R.N. (2016). *Emerging Dynamics of Sustainability in Multinational Enterprises: New Horizons in International Business*. UK: Co-ed for Edward Elgar Publishing Ltd.

Kukreti, H. (2017). *सामान्य हिन्दी: व्याकरण एवं रचना*. सोर्स बुक्स, दिल्ली

Kumbhar, S. (2017). *Mahatma Gandhi in the New Millennium: Ideals, Visions and Relevance*, Book One, Delhi.

Majumdar, K. (2017). The theme of slavery in Amitav Ghosh's *Sea of Poppies* *The Indo-American Review*. E- Unit on the *Cillapatikaram Tale of an Anklet: Ilanko Atikal*. ILLL Web Portal : University of Delhi.

Pandey. S. (2017). *फगुआ गीत. साहित्य यात्रा 2349-1906*.

Prasad, R. (2017). *हाशिये के लोगों का जनसंघर्ष. पुस्तक वार्ता*.

Sharma, P. (2017). *हिन्दी कविता में आपदा विमर्श. साहित्य यात्रा*.

Shireesh, N. (2017). *Sayukta Rashtra: Challenges and Global Conflicts*. Delhi: Hindi Medium Directorate, University of Delhi.

Tiwari K, (2017). Aesthetic dimensions in Nadine Gordimer's Post-apartheid short fiction. In *Current Writing: Text and Reception in Southern Africa*, London: Taylor & Francis.

### **Research Projects (Selected)**

Dr. Bharat Bhushan, Dr. Kavita Arora and Mr. Jitender Kumar, Professor Surender Kumar (mentor), Funded by University of Delhi, Old Age Homes in Delhi-Understanding the Challenges faced by them and Their Contribution to the Society.

Dr. Vijay Kr. Sharma, Dr. Seema Dabbas and Dr. Sanjay Kr. Sharma, Funded by University of Delhi, Use of TiO<sub>2</sub> Nanoparticles in the Degradation of Dyes in Waste Water to Save the Environment.

Dr. Hemant Kukreti, Mr. V. K. Vajpayee and Dr. Prabhat Sharma, Funded by University of Delhi, **दिल्ली में दरगाहों की सामाजिक-सांस्कृतिक स्थिति**.

Dr. Gayatri Chaturvedi, Dr. Pankaj Chaudhary and Mr. Rahul Tomar, Funded by University of Delhi, Studies in the concept and Methods of Environmental Protection in Ancient India.

Dr. Samrendra Kumar (Dept. of Hindi, SLC), Dr. Amitabh Kumar (Dept. of Hindi, SLC) and Mr. Sanjay Kumar (Dept. of History, SLC), Funded by University of Delhi, Medieval Indian Bhakti Movement in Hindi Cinema: Myths, Legends, Literature, and Popular Memories

Dr. Narendra Singh and Dr. Sunny Aggarwal and Prof. Man Mohan (mentor), Funded by University of Delhi, Relativistic atomic Structure calculation useful for plasma and astrophysics.

### **Seminar Organised (Selected)**

Commerce Department organised a seminar on 'Transitional Turmoil: End Shape of the Global Order in 21<sup>st</sup> Century' on Feb. 16, 2017. The resource person for the same was Professor Munim K. Barai , APU Japan.

History Department also organised a National seminar 'Revisiting History from Below: Caste, Class, Gender and Tribe in Indian history' on April 19, 2017.

The English Department, Shyam Lal College organised a talk on the topic 'Postcoloniality and Gender' on July 29, 2016. The resource persons for this talk session were Prof. Mehr Afshan Farooqi from the University of Virginia and Prof. Baran Farooqi from Jamia Millia Islamia.

Hindi Department organised a talk on “Ritikal: Naya Path” on March 3, 2017.

Political Science department organised a seminar on “Electoral Reforms in India” in the year 2016. The speakers for the seminar were Prof. Jagdeep Chokker, Prof. Anand Kumar and Amlesh Raju (Journalist, Janasatta).

Department of Economics organised a one-day seminar on Impact of Demonetization on Indian Economy on Jan. 19, 2017.

### **Conferences/ Workshops Organised**

The Women Development Cell (WDC), SLC in collaboration with ICSSR, UGC and MWCD organised a National Conference on “Gender and Population Culture: Representation and Embodiment” on 14<sup>th</sup> & 15<sup>th</sup> Dec., 2016 at Plenary Hall, ILI.

### **Seminar / Conference Presentations**

A. Thakur (2017). Political philosophy of Dr. Ram Manohar Lohia. National Seminar organised by Indian Council of Philosophical Research, New Delhi and Rajarshi Tandan Open University Allahabad, March 24-26, 2017

G. Chaturvedi (2016). Women in modern society seen with respect through the portrayal of women in the ancient Indian epic Mahabharata. WDC National Conference on Gender and Popular Culture: Representations and Embodiment, Shyam Lal College, University of Delhi, Dec. 14-15, 2016.

K. Tiwari (2017). Gandhian thought and the gendered nationalism. National Conference on Gandhian Satyagraha and Women’s Movements, India International Centre, Delhi, March 30, 2017.

R. Sharma (2016). Geo Chemistry and its environmental implication. National conference and field workshop on “Precambrians of India”, Bundelkhand University of Jhansi, Nov. 22-24, 2016.

S. Kumar;

(2017). A curative show on “Sahir Ludhianvi”, 23 Jan., 2017.

(2017). Synthesis and characterization of radiation crosslinked Psyllium-NVP based hydrogels for use in drug delivery. National Conference in Chemistry: Environment & Harmonious Development, Indian International Centre, Delhi.

(2017). A true nationalist poet. The National Seminar on Tribute to Patriotic Poet Kavi Pradeep. Manav Uttar Dayitav, New Delhi, March 12, 2017.

### **National/ International MoU**

The College successfully arranged the academic exchange programme between Shyam Lal College and three universities from Finland – Turku School of Economics/Pori Unit (University of Turku), South Eastern Finland University of Applied Sciences (XAMK), Turku University of Applied Sciences (Coordinator), Finland based on the project Responsible Business Professional For Finland and India Trade (1 Sept., 2016 – 31 Aug., 2018) funded by The Center for International Mobility (CIMO), Finland. CIMO also sponsored four students to Finland for a month in 2016-17.

### **Students Exchange Programme**

Inbound / Outbound – 4

Four of SLC students were selected to visit XAMK and TUAS, Finland for the academic exchange programme under the major International project “Responsible Business Professional For Finland and India Trade” funded by CIMO, Finland.

### **Placement Details**

Students Placed – 88

Companies visiting campus – 10

### **Extension and Outreach Activities**

Nine NCC camps were organised in surrounding areas and 110 students enrolled in these camps. A total of 850 hours were dedicated by students in these camps which influenced 120 people.

### **Library Development**

A total of Rs. 6,82,785/- have been spent on library. Total 1,712 books were purchased in this year. 39 periodicals were also included in our library.

### **Faculty Strength**

Permanent – 66; Ad-hoc – 57

### **Financial Allocation and Utilization**

Grant sanction – Rs. 21,98,47,000/-

Grant Utilized – Rs. 21,97,18,734/-

### **Other Significant Information**

SLC has been participating with full vigour in national programmes such as ‘Skill India’ and ‘Digital India’. A Skill Development Committee has been set up in the College and it has organised activities for this purpose ranging from one day workshops to one month programmes for computer literacy. The College has also been organizing programmes for women development and gender sensitization under an active Women Development Cell. Interactive lectures by experts were organised to mark the occasions.

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## **SHYAM LAL COLLEGE (EVENING)**

### **Major Activities and Achievements**

The College’s IQAC initiated the process of collaboration with various esteemed organizations like BSE Institute Limited. A wholly owned Subsidiary of Bombay Stock Exchange Limited for their flagship course GFMP along with other Short term Courses, NIFM, National Book Trust (NBT), MHRD for their Certificate Course in Book Publishing, T.I.M.E. for the Courses on Soft Skills, Multi National Business Academy and many other institutions to increase the employability of students and their value addition. The College published ‘Aspirare,’ an International Journal of Commerce and Management.

### **Publications (Selected)**

Bhardwaj, R. (2016). *Devising Policy Strategies for India*.

Bhushan, I. (2016). Business and Community: The Story of Corporate Social Responsibility in India. *Aspirare*, 3, 66-67.

Gupta, R. (2017). *Rashtriyata Ka Badalta Swaroop Aur Dinkar Ka Kavya*

Gupta, S. (2016). Measuring Productivity in Indian Public Sector Banks: A Data Envelopment Analysis. *Aspirare*, 3, 21-27.

Rawat, D. (2016). *Raag Darbari Mein Romaniyat Se Yatharthvad Ki Yaatra. Sodh Vaicharik*.

Singh, A. (2017). *Visheshyavishmoshdam: Anachar par prahar ka path. Natakkar Bhartendu – naye sandarbh: naye vimarsh*.

Singh, V. (2016). Postcolonial feminism: Reflection on Identities by Bapsi Sidhwa. *BRDU International Journal of Multi-disciplinary Research*.

Verma, D. (2017). *Mahila Natya-Lekhan Mein Stri Bhasha Ka Sandarbh. Rangb hasha; Swaroop Aur Vikas*.

### **Seminar Organised (Selected)**

Department of Commerce organised a Speaker Forum (One Week Camp) for the awareness of the participants on diverse topics of interest from Jan. 16-21, 2017.

Department of Commerce organised a Lecture on 'Understanding the Capital Market' on Feb. 1, 2017.

Skill Development Committee of the college in the collaboration with AMOUR organised a week long workshop on "Skill Development for Career Advancement" from Feb. 17-23, 2017.

Department of Commerce also organised a Talk on "Career opportunities in Civil and other Services" on April 13, 2017.

### **Conference/ Workshops Organised (selected)**

An International Conference on Hagiography, Humanism and Caste Hierarchy in Bhakti Movement at Auditorium of the National Museum, New Delhi on Oct., 20-21, 2016, organised by Department of Hindi and English.

Two-day International Conference on The Relevance of Dr. Ambedkar's Thought in Contemporary India at Academic Research Centre, Institute of Life Long Learning, University of Delhi on Feb. 14-15, 2017.

### **Seminar Conference Presentations (Selected)**

International:

A. Singh (2017). *Bhakti aandolan or Kabir ka samaj samras*. An International Conference jointly organised by the department of Hindi & English Shyam Lal College (Eve.), Oct. , 20-21, 2016.

D. Verma (2017). *Bhakti–Aandolan Ka manviya paksha*. International Conference on Hagiography, Humanism and Caste Hierarchy in Bhakti Movement, Shyam Lal College (Eve.), Delhi, Oct.20-21, 2016.

K. Devi (2016). Idea of equality and social liberation in Bhakti Movement: A critique. International Conference on Hagiography, Humanism and Caste Hierarchy in Bhakti Movement, Shyam Lal College (Eve.), Delhi, Oct. 20-21, 2016.

M. Umesh (2016). Humanism in the writing of Malukdas. International Conference on Hagiography, Humanism and Caste Hierarchy in Bhakti Movement, Shyam Lal College (Eve.), Delhi, Oct. 20-21, 2016.

S. Gupta (2017). Merger and acquisitions in Indian banking sector. XIV International Conference on Business Management and Behavioural Science.

S. Saxena (2017). *Sant kavya mein Niti Tatva*. Two day International Conference on Hagiography Humanism and Caste Hierarchy in Bhakti Movement, Shyam Lal College (Eve.), Delhi, Oct. 20-21, 2016.

Sarita (2017). *Sant kavya ka samajik paripreksheye*. International Conference on Hagiography, Humanism and Caste Hierarchy in Bhakti Movement, Shyam Lal College (Eve.), Delhi, Oct. 20-21, 2016.

V. Singh (2017). Dr. Bhimrao Ambedkar: Humanitarian., Two-day International Seminar on The Relevance of Dr. Ambedkar's Thought in Contemporary India, University of Delhi, Delhi, Feb. 14-15, 2017.

National:

R. Kumar (2017). Understanding Modi's foreign policy. Two-day National Seminar on Challenges before Indian Foreign Policy in Contemporary India, Kumaun University, Nainital, March 28-29, 2017.

### **Placement Details**

Students Placed – 178 (28.7%) (Majority from Commerce & Economics)

### **Library Development**

Library has 49,652 books and subscribes to 12 Hindi & English Newspapers, 30 magazines and journals at present. Open access facilities to students and staff are available on ground floor and upper library building. The College Library on the ground floor as well as upper stacks areas are air-conditioned.

The library became computerized with bar coded books and membership cards. Xerox facility has been made available for the staff members. The Computer lab with 36 computers is now available to students to use the Delhi University Library resources and other resources through internet facility.

### **Faculty Strength**

Permanent – 48; Ad Hoc – 28

### **Financial allocation and Utilization**

Grant sanctioned –Rs. 10,76,25,000/-

Utilized – Rs. 10,76,25,000/- (Full amount utilized)

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## **SHYAMA PRASAD MUKHERJI COLLEGE FOR WOMEN**

### **Major Activities and Achievements**

It was another good year at SPM College with activities and achievements in multiple areas of college's life. College faculty members made 29 presentations in conferences and seminars around the country and the world. One teacher received Ph.D. degree and another was awarded an M. Phil Degree. Altogether, the faculty published 12 books, 3 book chapters and 44 articles in various journals and magazines. The Department of Computer Science organised a National Conference in the college. Three Innovation projects were successfully completed and submitted and one of these created a mobile application named *Humsafar* to facilitate pooling for public transport. The College NSS teams participated very actively in Swachhata Abhiyan and Vittiya Saksharta Abhiyan, besides organizing a host of other activities. SPM College Hockey team won the University Championship, Shyam Lal Inter-College Championship, and Vidyapeeth Hockey Tournament. The KhoKho team won the Gold Medal in Delhi University Intercollege tournament. In Kabbadi, our team won Delhi State Championship Gold Medal. The College NCC Drill team won three gold medals at competitions held in Miranda House, Bhimrao Ambedkar and Zakir Hussain Colleges. Students and teachers developed several apps for use in the college and notable among these is the time-table app which is in use for making the college timetable. Recording of Rajya Sabha TV programme KITAB on Mahashweta Devi was also held in the College premises on 30 July, 2016.

### **Honours / Distinctions**

Dr. Pooja Vashisth, Department of Computer Science received the Top College CTOs award at the Digital Edge ICT Conclave on Education 2016, supported by Ministry of Electronics and IT on 11<sup>th</sup> Nov., 2016 at New Delhi.

An Innovation Project on “Public Pooling System for women safety” funded by DU has been completed successfully and the project won “The Best Poster Award” at the Research Display at the University Convocation 2017. This mobile application is available for download and usage at Google Play Store under the name “Humsafar.”

Pritika Mathur, a student of Computer Science department, designed a mobile app of the SPM college website which is being successfully used by students.

Co-curricular Activities:

NCC Cadets won the second prize in Group Dance, Skit and Drill competition, and the first prize in solo dance completion at the Annual Training Camp organised held in Aug., 2016 at Delhi Cantt. . Cadets, Manisha Mittal and Aashka Maurya participated in the Advanced Leadership Camp organised at Agra Cadet Pooja Jangra was selected for Para Basic Camp held in Agra in Sept., 2016.

In the closing ceremony of the National Games 2016, 50 cadets participated.

A Team of 5 cadets won the First prize in KHO KHO Competition.

In Sept., 2016, 9 cadets were selected for PRE TSC-1. 4 cadets for the next cadres, and completed the THAI SAINIK CAMP and became TSC holders. 2 cadets went in for Pre-RDC1 in Oct., 2016 and one of them was selected for Pre-RDC2.

Cadet Charu Gupta was selected for the Army Attachment Camp held at Meerut in Nov., 2016.

Two cadets were cleared for finals in the Para-Slithering event held in Dec.'16. Cadet Charu Gupta was selected in Special National Integration Camp held at Andaman and Nicobar Island in Feb., 2017.

Sports:

9 out of 11 college teams won accolades to the college in various sports competitions held at national, state and university level.

In Hockey, the college won the first prize in the inter college meet. They also won Vidyapeeth Hockey Tournament and Manoj Memorial Hockey tournament held in Meerut (U.P) and Mundka (Delhi) respectively. Shivani, Arti, Manju, Manisha, Sarita and Renu and Anshika from our college represented Delhi University in the Inter University Hockey Championship held in Amritsar and Open Hockey Tournament held in Patna.

The college Kabbadi team won gold medal in the Tournament organised by Rajguru College, Delhi University. Manisha, Maya and Kiran represented Delhi University in inter-university Kho Kho Match held in Amritsar, Punjab. Reem and Nisha played in National Games held in Patiala. In the National Tournament Organised by NCC, the winning team had 4 players from our college.

Handball players Deepa, Gargi, Babita, and Deepti from our college represented Delhi University in the Inter University games held in Karnataka. Deep and Babita also participated in the tournament organised in Chhattisgarh. The college team won 2<sup>nd</sup> position in the inter college tournaments.

The college yoga team won 2<sup>nd</sup> and 3<sup>rd</sup> position in the invitation Inter College Rhythmic Yoga Competition and another held at Miranda College respectively.

Kabbadi Team of the college won gold medal in Kalindi Inter College Tournament. They also bagged bronze medal in Delhi State Kabbadi Championship. Sheetal, Komal and Chanchal participated and represented Delhi University in Inter university games held in Rohtak (Haryana).

Baseball players Bharti, Anjali and Apsa represented Delhi University in Inter University Baseball Tournament held in Chandigarh. They also represented Delhi University by participating in Softball Inter University Tournament held in Kerala.

s Reema won the third prize in cross country running.. Prachi won the first position in Diving under Inter college swimming tournament. She also participated in all India University Tournaments. The college successfully organised Inter College Handball Championship.

### **Publications (Selected)**

Buntolia, A. (2017). *Environmental Studies*. New Delhi: Galgotia Publication.

Gaur, K. (2016). Dynamics of women's work in the sastric sources: Household and beyond. In Vijaya Ramaswamy (Ed.), *Women and work in pre-colonial India: A Reader* (pp.37-48). Delhi: Sage Publication.

Kumar, N. N. (2016). Adrienne Kennedy: A kindred spirit to the beats. In Deborah R. Geis (Ed.), *Beat Drama: Playwrights and Performances of the 'Howl' Generation*, (pp125-135) London, Oxford, New York, New Delhi, Sydney: Bloomsbury Drama.

Mirza A. (2016). Rajiv Gandhi & I.T. In Chayanika Uniyal (Ed.), *Rajiv Gandhi Pioneer of Modern India*, (pp 1-14). Delhi: Swaraj Prakashan.

Mirza, A. (Ed.), (2016). *Rediscovering Indira Today*. Delhi: Swaraj Publication.

Mittal, N. (2016). J.M. Coetzee: Construction and representation of historical reality (Effect). *Complutense Journal of English Studies*, V (1), 89-101.

Rani, S. (2017). Next release problem: Emerging trend of requirement engineering. *International Journal of Recent Innovation in Engineering and Research*, 2(2), 58-65.

Shah, N. (2017 a). A glance at the centenary debate: Compulsory education. In Deepa Idnani (Ed.), *The Right to Education and Schooling*, (pp. 12-25), Delhi: Rawat Publications.

Shivare, M. (2016). *Darshanshastra Narivad Dharmadarshan aur Nitishashtra*. New Delhi: Shivalik Publisher.

Thareja, R. (2016). *Computer Programming (JNTU Kakinada)*. New Delhi: Oxford University Press.

Thareja, R. (2016). *Course on Computer Concepts*. New Delhi: Oxford University Press.

### **Research Projects (Selected)**

Dr. Veena Kapur, Funded by University of Delhi, Modi's Make in India: Swadeshi or Videshi, Rs 350000/-.

Dr. Kulbir Kaur, Dr. Garima and Mr. Virender Pratap Yadav, Funded by University of Delhi, Aggression and Behavior Modification: A Socio Psychological Study of Juveniles, Rs 350000/-.

Dr. Pooja Vashisth, Dr. Baljeet Kaur, Funded by University of Delhi, Pubic Pooling System for Women Safety, Rs 400000/-.

### **Seminars Organised (Selected)**

The Department of Commerce organised a productive session called "Achiever's Talk" on Feb. 13, 2017. Mr. Sarthak Jain, Director, Paras Dyes and Chemicles Ltd; Mr. Prashant Panwar, writer and entrepreneur were the eminent speakers.

Dr. Mukul Priyadarshini, Associate Professor, Miranda House, University of Delhi conducted a Roundtable on "Bilingual Teaching: The Languages of Classroom Discourse" on Oct. 20, 2016.

English Department invited Dr Nandini Chandra, Associate Professor in the Department of English, Delhi University to deliver a talk on "Bhimayana- A Graphic Novel" on Nov. 10, 2016.

History department invited Dr. Meera Visvanathan, Historian and a faculty member of Shiv Nadar University to deliver a talk on "History of Writing in Early India" on Oct. 4, 2016.

### **Conferences/ Workshops Organised (Selected)**

Department of Computer Science with Robotics & Artificial Intelligence Foundation (RAIF) organised a well-attended two-day Workshop. They also conducted the Robot Premier League, 2016 on Aug. 23-24, 2016 in the College.

A two day UGC and DRDO sponsored National Conference on 'Advances in Computer and Information Technology' (NCACIT) was organised on Dec. 19-20, 2016.

### **Seminar / Conference Presentations**

International:

Shah, N. (2016). The Indian National Congress and the techno – scientific education (1885-1947). International Conference organised by the Comparative Education Society of India, Tirupati, India, Nov. 19-20, 2016.

Vashisth, P. & Kaur, B. (2016). Humsafar: An android mobile application enabling a safer way to travel. International Conference on Parallel, Distributed and Grid Computing IEEE, Wagnaghat, India, Dec. 22-24, 2016.

National:

Kiran, (2017). Vivid Indian and Western reflections on *prananyavad*. National Seminar held by the Department of Philosophy, University of Allahabad, Feb. 18-19, 2017.

Mirza, A. (2017). Case study of governance of Delhi. Level Hulme International Conference, India habitat Centre, Delhi, Jan. 15, 2017.

Mirza, A. (2017). Film knowledge & history. National Conference, Organised by Department of English, Feb. 1, 2017.

Sharma, P. (2016). Panchayati raj and women empowerment. National Seminar on Women Empowerment, Satyawati College, Delhi University, Oct. 2016.

Sharma, P. (2016). Visonaries of Indian democracy. National Seminar on Women Empowerment, Satyawati College, Delhi University, Oct. 2016.

Singh,A. (2016). Stories and salvation: The Jatkas and their South East Asian encounters. In: Talk, Centre for Escalation of Peace, Jawaharlal Nehru University, 12 July, 2016.



Uniyal, C. (2017). Case study of Debate: How Films Juxtapose History & Literature. In. National Conference organised by the Department of English, Jai Narayan Vyas University, Jodhpur, Rajasthan, 1 Feb. , 2017.

### **Placement Details**

13 students were placed in GENPACT for the profile of banking financial services and finance & accounting with CTC range from 1.3 lakh to 1.18 lakh p.a. 5 students hired by TATA POWER Delhi Distribution Limited as Assistant officer trainee with a package of 2.75 lakh p.a. Almost all the students of B.Tech. computer science have been placed in different companies through Central Placement Cell (CPC) of Delhi University. Four companies came for campus recruitment, out of which one (GENPACT) was a repeat recruiter.

### **Extension and Outreach Activities**

NSS unit of the college organised 'Swachta Pakhwada' from Aug. 16 to Sept. 18, 2016. They also conducted a seminar on "Swachhata" was organised on Aug. 17, 2016 in which the Mayor of South Delhi, Mr. Shyama Sharma was the chief guest. Campus cleaning and gardening projects were also taken by NSS on Aug. 17, 2016, followed by the cleaning of ground the unit volunteers. Student volunteers organised rallies to create awareness regarding cleanliness. On Sept. 24, 2016, an awareness campaign about substance abuse was organised by NSS Volunteers. Vittiya Satarkta Abhiyan was also organised from Dec. 20, 2016 to Jan. 11, 2017. A seminar was also organised from Dec. 20, 2016 to Jan. 11, 2017 on various online and offline payment modes was organised to educate people, in collaboration with the bank officials.

The National Cadet Corps (NCC) unit of the SPM College, with Dr. Pooja Vashisth as coordinator, has participated in a number of events organised at various places in Delhi and other parts of the country. NCC cadets actively participated in the 'Swachhata Pakhwada' in Dec.'16.

### **Library Development**

The College Library has become fully computerized with a database of around 73,237 books. A computerized cataloguing has been started for easy and quick access to the resources in the library. The library has a very rich collection of books on various disciplines. It includes rare collection of reference books, general reading books, and latest fictions in English and Hindi. The Library has a subscription of around 80 periodicals which includes Journals, periodicals and magazines for general reading. The Information Centre in the Library has 25 computers with internet facility for accessing research material. The availability of Wi-Fi now has made internet accessible to students and faculty members on their laptops. Individual passwords are provided to all members for free access to more than 4000 journals, e-databases available through on UGC-INFONET. The Library has a unique Braille books collection. Recorders and laptops with special software are issued to differently-baled students for the entire duration of their course. For this a total budget of Rs. 12, 62,500/- has been allocated to us. We added 1,712 books and 5 journals in our library this year.

### **Faculty Details**

Permanent – 86; Ad-hoc – 70

### **Financial Allocation and Utilization**

UGC Grant– Rs 26, 90, 38,000 /-

Additional Grant from Delhi Administration – Rs 10, 00,000/-

Utilization– 100%

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## SRI AUROBINDO COLLEGE

### Major Activities and Achievements

The College developed an E-CELL SAC Android Application and introduced E-CELL Merchandise on Online Stores. It hosted the first Startup India supported fest of Delhi University. Sumit Arora, President of Moksh (Dramatics Society) bagged awards for Best Actor and Best Director at Udaan Mahotsav, University of Delhi. Moksh –The Dramatics Society won a total of 40 awards, Sage – the Debating Society won 26 awards and Crunk – the Western Dance Society won 20 awards in various competitions around the city and the country.

### Honours / Distinctions

Dr. Ashwani Kumar, Assistant Professor, Electronics was selected for UGC sponsored prestigious Raman Post-Doctoral fellowship.

### Students with Distinction

Two research papers – BTP-24 (Speech Signal Processing) and BTP-25(Prosthetic Limbs) were presented by the B.Tech. Electronics students under the guidance of Dr. R.P. Rishishwar and Mrs. Vandana Bhalla.

### Publications (Selected)

- Chauhan, A. (2016). *Organic Chemistry for Degree Students B.Sc. Ist Year (Semester – I)*. New Delhi: Viva Books.
- Kaur, B. & Aggarwal, R. & Yadav, S. (2016). Perturbed Robe's restricted problem of 2+2 bodies when the primaries form a Roche ellipsoid – Triaxial System. *International Journal of Technology*, 6(2), 150-160.
- Mittal, A.; Aggarwal, R.; Sanam S.; Md. And Bisht, V. S. (2016). Stability of libration points in the restricted four-body problem with variable mass. *Astrophysics and Space Science*, 361 (10).
- Shahnaz, T. (2016). *English and Communication Skills Part II*. New Delhi: Cambridge University Press.
- Singh, S.P. (2017). *Prasangavash*. New Delhi: Sri Natraj Prakashan.

### Seminars Organised (Selected)

- ICSSR Sponsored two-day National Seminar on 'Reforms for Transforming India: A Road Ahead' organised by the Departments of Commerce and Economics on Feb.17-18, 2017.
- ICSSR Sponsored National Seminar on 'Affirmative Actions in Theory and Practice: Achievements and Challenges' held on Jan. 6-7, 2017.
- A two-day National Seminar on 'Recent Innovations in Chemical Sciences and Environment Technology' organised on March 3-4, 2017 sponsored by UGC and supported by DRDO, ONGC and SERB (DST).

### Seminar / Conference Presentations (Selected)

International:

- A. Chauhan (2017). Biofuels – The Indian scenario. International Conference on Green Chemistry in Environmental Sustainability and Chemical Education, Daulat Ram College, University of Delhi.
- T. Shahnaaz (2016). Writing from the Margins: Re-visioning the (En) gendered self in the intercultural context through the Poetry of Adrienne Rich and Kamala Das. 21<sup>st</sup> World Congress of the International Comparative Literature Association (ICLA 2016), Vienna, Austria, July, 2016.
- H. Nagpal (2016). The impact of WTO norms on tourist inflow in India. In: 'Biofuels – The Indian Scenario' and 'Optimization of sulfuric acid pretreatment for sachharification of water hyacinth biomass in bioethanol production' at International Conference on Green Chemistry in Environmental Sustainability and Chemical Education, Daulat Ram College.
- National Seminar on Global Trade in Services: A WTO Perspective organised by Department Of Commerce, Shaheed Bhagat Singh Evening College, University of Delhi, March, 2016.

National:

A. Chauhan (2017). Waste to wealth: Water Hyacinth – A new green fuel source. Poster Presentation at 94<sup>th</sup> Foundation Day, Viceregal Lodge, University of Delhi.

A. Chauhan (2017). Phytoremediation potential of water hyacinth along the Delhi stretch of Yamuna River – A preliminary study. National Conference on Combating Industrial Pollution for Sustainable Environment – A Fusion of Industrial and Scientific Efforts at Gargi College, University of Delhi.

### **Placement Details**

Students Placed – 127 (84 students got College Internship)

Companies visiting College for recruitment –18

### **Library Development**

A total of 1,710 books, 8 journals and 32 magazines/newspapers were bought/subscribed.

**Faculty Strength** – 131

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 2320 Lakhs

Grant Utilized – Rs. 2212 Lakhs.

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## **SRI AUROBINDO COLLEGE (EVENING)**

### **Major Activities and Achievements**

Dr. Sumati Varma, Associate Professor, Department of Commerce – presented paper at International Conference held at New Orleans, USA, June 25-30, 2016 on Drivers of Early Internationalization – A Study of the Indian IT Industry. Dr. Sumati Varma was appointed on the Executive Board of Project X-Culture – an International Collaborative Experimental Project of the University of North Carolina. She also published a Book – ‘International Business’ 3/e – University specific edition for Delhi University, Dorling Kindersley (India) Pvt. Ltd., Pearson Education. Students won three medals in inter-college boxing championships. Neeraj held II Position, Ankit Sheoran held II Position and Jitender dinan – II Position. Three of our students – Gaurav, Munish Kumar, and Afzal represented University of Delhi in all Indian inter-university tournament held at Punjab University.

### **Honours / Distinctions**

Ms. Arshiya Kochar, B.A. (H) Applied Psy.III, secured 76.49%.

Ms. Rachita Rawat, B.A. (H) Applied Psy.III secured 75.7%

Ms. Akanksha Malik, B.A. (H) Applied Psy.III secured 75.56%

### **Students with Distinction**

Mr. Pranav Gautam got 100% in Subject Code (241385).

Mr. Puneet Nigam got 100% in Subject Code - (241487)

Ms. Nisha Kumari got 100% in FYUP Comm.MGD.Acg

Mr. Prabhash Kumar, B.Com (H) II year, got 100% in Macro Economics of Semester- 3.

Mr. B.Com (H) II. IIIrd year, got 99% marks in income tax of Semester-4.

### **Publications (Selected)**

Darolia, M.K. (2017). Psychological consequences of unemployment: A comparative study of employed and unemployed youths in rural areas. *Indian Journal of Psychological Science*, 7(1), 54-59.

Joshi, G.C. (2017). *Adhunik Hindi Natako Mein Youn Chetna*. Delhi: Naman Prakashan.

Pragyendu, (2016). A comparative study of spiritual health across different professions. *Indian Journal of Applied Research*, 6(1), 339-343.

Singh, A. K.; Singh, A.K.; Singh, A. (2016). Insider trading: Indian business organisations. *Delhi Business Review*, 17 (2).

Verma, S. (2017). *International Business*. Delhi: Pearson Education.

Verma, S. & Aggarwal, P. (2017). Regional integration in South Asia – A specific focus on the India Sri Lanka Free Trade Agreement (ISLFTA) and its impact on trade and investment. *New Horizon*, 13(2).

Verma, S. & Arora, N. (2016). Sustainability on wheels – A Case Study of DMRC. *The Discussant*, 4(4).

### **Research Projects**

University of Delhi, 2016, Psycho-Social Determinators of sporting Culture of India, Rs.3, 00,000/-.

### **Seminars Organised**

Seminar on ‘The Internet/Workshop Economy’ at the American Centre, New Delhi in Sept., 2016.

### **Extension and Outreach Activities**

The Department of Applied Psychology held a Participatory Rural Appraisal Study at Dharamshala during 15 March, 2017 to 19 March, 2017 for understanding various psycho-social issues such as domestic violence, gender inequality, unemployment, intergroup conflict, caste discrimination etc. prevailing in rural communities near Dharamshala, Himachal Pradesh, using various techniques of PRA.

The students of Department of Commerce participated in Project X Culture and Enactus which was a large scale International learning project involving 800 universities in 40 countries an international project initiated by the University of North Carolina.

### **Library Development**

The College has a fully furnished air conditioned library this year. The library has been made functional in both modes – manually as well as automated. It works on R.D. Software System of Library Management. The library has 38,802 (General books – 34020 + SAF-1378+B.B-576+Gifted – 2,828, it subscribes to 08 Periodicals, 08, Newspapers, 05 Magazines and library has 704 books bound, 120 loose periodicals and 133 books CDS/DVDS. The Library also has a complete set of Encyclopedia of Britannica, Encyclopedia of Americana and encyclopedias of various Subjects. Access to internet and OPAC is available on intranet. Free and ready access to the internet (Via Wi-Fi) for students, faculty and non-teaching staff has made it possible for SAC (Evening) to reach higher and global levels in education.

### **Faculty Strength**

Permanent – 42; Ad-hoc – 18

### **Financial Allocation and Utilisation**

Grant sanctioned – Rs. 13, 49, 14,847/-

Utilised – Rs.12,60,91,844/-

### **Other Significant Information**

The Department of Environmental Studies organised special lectures/classroom based activities on Sept. 16, World Ozone day; Feb. 02, 2017 on World Wetlands Day; March 20, 2017 on World sparrow day; and March 22, 2017 on World Water Day; to sensitize students about the environmental issues related with ozone layer, wetlands, declining population of sparrows and issues related with water consumption and conservation on each specific days respectively. On World Sparrow day, students were also sensitized about the common species of birds and trees of Sri Aurobindo College campus.

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## **SRI GURU GOBIND SINGH COLLEGE OF COMMERCE**

### **Major Activities and Achievements**

The College got 'A' accreditation by National Assessment and Accrediting Council (NAAC) for academic performance. This year, the college strengthened separate academic societies for the respective departments and courses to enable ample opportunities in enhancing skills in convening and managing several events under the mentorship of respective conveners. These societies and clubs have been broadly classified into Academics, Creativity in Arts, Student's groups, Diversity and inclusions, Community and public engagement and Career, Skill and professional development. Details of activities have been showcased in the College year book. Urja, The Commerce Society of the college organised a panel discussion on Oct. 25th, 2016 as a first event of the academic session 2016-17. Youth Conclave'16- Confluencia was a students' initiative with an aim to provide platform and encourage young and creative minds to converse. College also organised its third biennial convention on –25 years of economic reforms: Has Indian taken off? – on 22 Feb., 2017 at Indian Habitat Centre. The event was marked by the presence of eminent academicians and scholars from different institutes. Dr. Subramanian Swamy, Member of Parliament, was the Chief Guest for the occasion.

### **Honours / Distinctions**

Chaitanya Baweja of B.Tech. final year has been an outstanding student. His work on the topic, "Influence of Temperature and Humidity on the Output Resistance Ratio of the MQ-135 Sensor", was published in the International Journal of Advanced Research in Computer Science and Software Engineering. He also became a Tech Head and Co-Founder, We-Convert, a startup which provides a smart alternative to treat inorganic waste with the help of special machines called E-Collectors.

Four Students of B. Tech. computer science – Ayush Arya, Bikramjeet Singh, Harmeet Singh, Simarpreet Singh authored a research paper on the topic Alternative Formulae for Sum of Arithmetic and Geometric Progression and their paper got published in *International Journal of Advanced Research in Computer Engineering and Technology* (IJARCET, ISSN: 2278 – 1323) Volume: 5, Issue: 8, Pages: 2312-2315. doi: <http://ijarcet.org/wp-content/uploads/IJARCET-VOL-5-ISSUE-8-2312-2315.pdf> Their research paper at Shyam Lal College, University of Delhi AGON'16 – Intercollege Computer Science Fiesta bagged the 1st prize for Best Research Paper Presentation.

Rohan Gupta student of B.Com. (Hons.) was selected for Summer Internship and Skill Enhancement Programme in Innovation and Entrepreneurship at Cluster Innovation Centre – CSEC, University of Delhi. He also won the Business Plan Competition organised by the CIC, University of Delhi out of 300 applications.

### **Students with Distinction**

Piyush Gandhi of B.A.(Hons.) Economics worked independently on a research paper on the topic Financial Inclusion for which he won several awards. He has been a Global Finalist of Business Plan Competition by Hong Kong University- received a sponsored trip to Hong Kong. He was selected by Indian Govt. to represent India in Japan as a part of Youth Exchange programme –KIZUNA. He has also been a global finalist for paper presentation competition in Bangladesh.

Manandeeep Singh Ahuja, B.A.(Hons.) Economics 2nd year student, was decorated with a National Level Medal and secured prestigious recognition in the 'Hall of Fame'.

Ashish Sharma, student of Bachelor of Computer Science (Hons.) became a relation analyst at Wantrepreneur. He worked individually and built the organization's website from scratch using BOOTSTRAP Framework at Web Developer and Technology Evangelist - AYT, Cambodia. He was responsible for selecting Indian Tech Entrepreneurs from various Indian Universities and colleges for Technology Entrepreneurs Recruitment Manager-China Startup Convention 2016

Prateek Singh Roopra, a student of B.Tech in Computer Science became the Chief Technology Architect and Algorithm Developer at Knighthawk delivery. He served as a President of Infinity – Technology Society, University of Delhi. He represented University of Delhi and at future city summit in Hong Kong. He was the Country Ambassador for Indian tech startups in Malaysia. He was awarded 'Excellence certificate' for web, graphics and UI designing from ThinkQuest, Oracle, US.

Co-curricular Activities:

NCC students brought honour to the college through various pursuits including – 7 boys appeared in the 'C Certificate' examination and 13 boys appeared in 'B Certificate' exam this year,

Two students were selected for Special National Integrated Camp Port Blair and one student has been selected for IMA, Dehradun. NCC girl cadets have served the objective of NCC - 'Unity and Discipline' through various activities. International Exposure of our Students.

Sports:

Umang Mongia, a Table Tennis player secured 3rd position in Inter-College Table-Tennis Championship in 2016 and 2nd position in State Ranking Table-Tennis Championship.

Hardeep Singh, a student of B.Com became a member of National Rifle Association of India, Member of Delhi State Rifle Association and Sportz craft shooting Ranges. He participated in various events and brought laurels to the college. He participated in 60th National Shooting Championship 2016 (Pune), he secured 2nd position at 32nd Delhi State Shooting Championship 2016. He along with his team procured 1st position at 5th Gun Care India Shooting Championship 2016. He has also won 3rd prize at 3rd Aklavya Shooting Championship 2016.

### **Publications (Selected)**

Dodrajka, S. (2016). Corporate governance and changing regulations in India. *Review of Professional Management*, 14.

Gupta, R. (2017). Market structure of Indian banking industry: A comparative analysis. *Journal of Business Studies*, 8(1), 14-29.

Kalra, V. (2016). Influence of temperature and humidity on the output resistance ratio of the MQ-135 sensor. *International Journal of Advance Research in Computer Science and Software Engineering*.

Kaur, G. (2016). Feminisation of poverty in India: A Globalisation Perspective. *Journal of Peace Studies*.

Kaur, H. (2016). *Governance: Issues and Challenges*. Kitab Mahal, New Delhi

Preet, S. (2016). *Sustainability: An innovative strategy to profitability*. Research and Publishing House.

Ummat, M. (2017) Search-based techniques for software engineering predictive modelling: A systematic review and future directions. *Swarm and Evolutionary Computation*, 32, 85-109.

### **Research Projects (Selected)**

Dr. Simmar Preet, University of Delhi, 2015-16, Innovations Toward A Sustainable World & Impact of The Air Quality Crisis- A Comparative Analysis of Delhi, Beijing, Los Angeles & London, Rs. 4,50,000.

Dr. Kawal Gill, University of Delhi, 2015-16, Empowering Differently-abled Students through e-Learning at Higher Educational level, Rs. 3,50,000.

Ms. Meenu Gupta, University of Delhi, 2015-16, A study of CSR and Social Business as a panacea for the social problems of India, Rs. 3,50,000.

Dr. Harpreet Kaur, University of Delhi, 2015-16, Food Insecurity Issues in Children and Women in North India with special reference to the National Food Security Act 2013, Rs. 3,50,000.

**Seminars Organised (Selected)**

URJA, The Commerce Society organised a panel discussion on Oct. 25, 2016.

'Expdiencie – The Annual Management Fest Of SGGSCC' on Feb. 3-4, 2017.

Association of Computer Enthusiasts (ACE) organised a seminar on Sept. 26, 2016.

Panel discussion-ECOLOQUNCE1.0 with the AGENGA- "Demonetization of Indian Economy" on Feb. 15, 2017.

A seminar on Sri Guru Gobind Singh Ji – Life and Legacy on Nov. 4, 2016.

**Conference/ Workshops Organised**

Third biennial convention on 25 years of Economic Reforms: Has Indian taken off? on 22 Feb., 2017 at Indian Habitat Centre.

**Seminar/ Conference Presentation (Selected)**

International:

S. Preet (2017). Economic growth & air pollution: An analysis of India, China, USA & UK. International Conference, Harvard University, USA, March 15-16, 2017.

National:

P. Kaur & S. Kaur (2017). Economics of mergers and acquisitions in India's drugs and pharmaceutical industry: Implications for competition policy. National Conference on Economics of Competition Law, India Habitat Centre, New Delhi, March 2-3, 2017.

**National/ International MoU**

An MoU has been signed with Youngsan University, South Korea.

**Other Inter-Institutional Collaborations**

Collaboration with Bombay Stock Institute Limited and Indian School of Entrepreneurship and Enterprise Development

**Students under Exchange Programme**

Inbound / Outbound – 2

**Placement Details**

Students Placed – 197

Companies coming for campus recruitments – 30

**Extension and Outreach Work**

College organised six camps in surrounding areas and covered 350 people in these camps. 100 students volunteer worked for 200 hours in these camps.

**Library Development**

About 2,500 Text/Reference books with an outlay of Rs. 6.50 Lakh were added to the library. The library subscribes to about 44 journals with subscription of Rs. 40,000/-. The library has access to e-resources of UGC INFLIBNET and University of Delhi Intranet. The college spent about Rs. 9 Lakh on library development including software.

**Faculty Strength**

Permanent – 45; Ad-hoc – 25

### **Financial Allocation and Utilization**

Grant Sanction – Rs. 1490.00 Lakh

Utilized – Rs. 1495.00 Lakh

### **Any Other Significant Information**

As per India Today June 2014, the college figures in top 25 best Commerce Colleges of India. The college published its annual refereed Journal of Business Thought, April 2016-March 2017, Volume 7, ISSN 2231-1734 and RNI DELENG/2010/41862. The journal covers research articles, cases studies, abstract of doctoral thesis, book reviews on the recent developments in business and economics. These are exploratory, conceptual, empirical contributions having strategic policy/practical implications on a broad spectrum of multi-disciplinary topics like organization behaviour, management models and practice, fiscal and monetary policy, business policy, marketing, banking, international trade and finance, environmental issues, technical alliances, etc.

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## **SRI GURU NANAK DEV KHALSA COLLEGE**

### **Major Activities and Achievements**

The academic year 2016-17 was a year of accomplishments for Sri Guru Nanak Dev Khalsa College. The college was ranked as one of the top 50 Higher Education Institutions in the country as per MHRD's National Institutional Ranking Framework and was awarded B++ grade by National Assessment and Accreditation Council (NAAC). Apart from academic excellence, college societies also excelled in extra-curricular activities with the debating society, Vedang, organizing the inaugural parliamentary debate, 'Prakhar,' the dramatics society being selected for 'Mahavidalaya Natya Samaroh' and achieving in the sporting arena with Rahul being selected for Indian camp of athletics of World championships. At the infrastructural front, a new gymnasium for students with latest equipment has been constructed and an additional computer lab has become functional. Strong emphasis was given in maintaining the green campus initiatives/practices like rainwater harvesting unit, recycling of waste paper, solar panel and preventing wastage of resources. Additionally, a large amount of e-waste was safely disposed off in accordance with the e-waste rules of the Delhi Government.

### **Honours / Distinctions**

Dr. Jyoti Bajaj was invited by the University of Bristol to read a paper 'On teaching of Shakespeare to the undergraduate students' in Aug., 2016.

Dr Anju Bala was awarded Ph.D. on 11 Aug., 2016. The topic of her Ph.D. dissertation is 'Narivaad ke pariprekshy mai prabha khetan or maitreyi pushpa ke sahitya ka tulnatamk adhayan'.

Dr. Indra Kaul was awarded Ph.D. from the Centre of English, School of Languages, Jawaharlal Nehru University on 6 April, 2016. The topic of her Ph.D. dissertation is "The Transgressing female in Medeval Indian Literature."

Dr. Ritu Walia was awarded Ph.D. from Punjabi University, Patiala in June, 2016. The topic of her Ph.D. dissertation is The collection management in select college libraries in Delhi: A study.

### **Students with Distinction**

Academic:

Gurpreet Singh of B.A. (H) Political Science (Semester IV), was assigned the charge of Campus Ambassador for SVEEP (An initiative by Office of the Chief Electoral Officer, Delhi).

Cultural:

The Bhangra Team of the college won at 14 inter-College and inter-University Competitions out of which eight were first positions.

The dramatics society, Nepathya, was selected for 'Mahavidalaya Natya Samaroh' by Sahitya Kala Parishad for a performance at Shri Ram Centre for Performing Arts.



Sports:

Rahul of B.A. Programme was selected for the National camp of athletics (1500m).

### **Publications (Selected)**

Bahri, H. (2016). Locating gender in Indian advertisements, in Singh Geeta and Parihar Seema (Ed.) *Gender and Space: Multidisciplinary insights*. CPDHE.

Chaudhry, M.S., Zees, M., Mitra, P., Chory, V., Sharma, Y.D. (2016). Receptor specific binding regions of *Plasmodium vivax* tryptophan rich antigens and parasite growth inhibition activity of PvTRAg35.2. *Biology Infect.* S1286-4579 (16) 30047-8

Gupta, P. (2016). Drivers of sustainability of Indian Microfinance Institutions (MFIs). *International Journal of Business Ethics in Developing Economies*, 5 (2).

Kaur, B. (2017). Foreign Direct Investments: A comparative study of the SAARC Nations. *Indian Management Studies Journal*. 21(1), 121-129.

Kaur, D. and Singh, H. (2016). Importance of quasi-concavity and quasi-convexity in consumer optimization problems. *International Journal of Mathematics Trends and Technology*, 38(1).

Kumar, V. (2017). *Investing in Stock Markets*. Delhi: Ane Books Pvt. Ltd.

Kumar, V. (2017). Studying the behavioural aspects of senior citizens related to reverse mortgage scheme in India. *International Journal of Applied Business & Economic Research*, 15(1).

Kundra, B. (2016). *Hindi Bhasha or Sampreshanh*. Delhi: Deepshikha Publications.

Mehta, P.K. and Singh, M. (2016). *Introductory Micro Economics*. Delhi: Taxmann Publications (P) Ltd.

Singh, P. (2016). *Transitions in Indian Economic Historiography*. Delhi: Disha Publication.

### **Research Projects**

Dr. Vandana Mishra, Awareness level among persons with disabilities (PwDs) regarding government programmes and concessions: A Study of PwDs in Delhi Slums.

Mr. Kamal Jeet from Swadeshi Jagaran Manch, Response of youth towards swadeshi initiatives in independent India: Identifying challenges.

### **Seminars Organised (Selected)**

A two-day National Seminar on the theme 'The Idea of Inclusive Development in India: Towards an Egalitarian Society and Nation' was organised by the Department of Political Science on Jan. 12-13, 2017.

A two-day National Seminar on the theme "Trans (gendered) Lives: Praxis of Silence and Exclusion," was organised by Department of English on Feb. 7-8, 2017.

A two-day National Seminar on the theme 'Sahitya, Media aur Aajivika' was organised by the Department of Hindi and Hindi Journalism on Feb. 9-10, 2017.

A National Seminar on the theme '25 Years of Economic Reforms-Issues, Impact and Challenges' was organised by the Department of Economics on March 9, 2017.

A National Seminar on 'Skilling Indians – Making India a Global Powerhouse' was organised by Department of Commerce on 23 March, 2017 at the Paintal Memorial Golden Jubilee Auditorium, University of Delhi.

### **Seminar / Conference Presentation (Selected)**

International:

A. Bala (2017). Social media aur bhasha. International seminar on Social media me Hindi ka badalta swaroop, Kalindi College, University of Delhi, March 9-10, 2017.

A. Thomas (2017). Consumption of tadpoles of the endangered Purple frog and its conservation through community education and capacity development. 4th Indian Biodiversity Congress, Pondicherry University, Puducherry, March 10-12, 2017.

B. Kaur (2017). Dr. B. R. Ambedkar: A crusader for women empowerment. International Seminar on The relevance of Dr. Ambedkar's thought in contemporary India, Shyam Lal College (Eve), University of Delhi, Feb. 14-15, 2017.

B. Kaur (2017). *Hindi bhasha ka badalata swaroop or bhavishya ki Hindi*. International seminar on Social media me Hindi ka badalta swaroop, Kalindi College, University of Delhi, March 9-10, 2017.

G.K. Arora (2017). Indo-Nepal relations: Economic development & Co-operation. Nepal, 4-5 March, 2017.

H. Kaur (2016). Rashtrabhasha ki avdharna aur Gandhi. International seminar, Osmania University, Hyderabad, Sept. 15-16, 2016.

I. Singh (2017). Political parties and federal governance in contemporary India. International Seminar on 'Globalisation and Federal Governance in India: Understanding the Emerging Issues, Kalindi College, University of Delhi, Jan. 20, 2017.

M. Kaur (2017). Impact of Board effectiveness on performance of banks: A structural equation model analysis. 8th International Conference on Corporate Governance, Institute of Public Enterprise, Hyderabad, Jan. 19-20, 2017.

### **National**

M.K. Singh (2017). The idea of Inclusion and State formation in Pre-modern India: Evolution of State policies and composite culture under Akbar. In: National Seminar on 'The Idea of Inclusive Development in India: Towards an Egalitarian Society and Nation, Sri Guru Nanak Dev Khalsa College, University of Delhi, Jan. 12-13, 2017.

P. Gupta (2017). Analysis of financial and operational sustainability of microfinance institutions: An empirical investigation into Indian context. Ph.D Consortium, IIT Bombay, Jan. 24-25, 2017.

Shailja (2017). Prakriti aur sanskriti de rakshak: Jambho Ji. International Seminar on 'Bhakti andolan aur vartman vaishvik paridrishya mein Guru Jambho Ji ka chintan, Department of Hindi, Delhi University and Jambhani Sahitya Academy, Bikaner at University of Delhi, March 18-19, 2017.

### **Placement Details**

Students Placed – 146 (57.3%)

Companies visiting campus for recruitment – 15

### **Library Development**

1,529 new books were added in library database this year. 96 books related to hindi journalism and 30 books of Bachelor of Economics were also purchased. Other than this, library also subscribes to 20 journals, 35 magazines and 21 newspapers.

### **Faculty Strength**

Permanent – 54; Ad-hoc – 29

### **Financial Allocation and Utilization**

The Non-Plan expenditure for the academic year 2016 – 17 is approximately Rs. 2083.31 Lakhs.

### **Other Significant Information**

The debating society of the college, Vedang, organised the inaugural parliamentary debate, 'Prakhar'.

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## SRI GURU TEGH BAHADUR KHALSA COLLEGE

### Major Activities and Achievements

This academic year, the College was accredited by NAAC with grade A with a CGPA of 3.41. The College successfully organised its Orientation Day on July 20, 2016, Founder's Day on Dec. 2, 2016 and Lashkara, the college Students' Union festival on Feb. 22-25, 2017. The College recycled waste paper, set up Chemical Waste Disposal Unit and re-did the Guru Har Rai Botanical Garden. A three day Cancer screening camp was organised to create general awareness about cancer. By developing e-content for six subjects the college contributed in making Digital India dream a reality.. At the National Seminar held at Vigyan Bhawan on 02 March, 2017, the e-PG content developed by Centre for e-Learning was selected by UGC as one of the best prepared content for e-PG Pathshala projects. The e-PG Pathshala content is now being repurposed into MOOCs (Massive Open Online Courses). On SWAYAM portal, out of a total of 63 PG MOOCs, 42 MOOCs have been contributed by the Centre for e-Learning (maximum by any group in the country). Guru Angad Dev Teaching Learning Centre (GAD-TLC) has trained more than 1000 teachers in ICT skills and blended learning in class rooms.

### Honours / Distinctions

Centre for e-learning was invited to exhibit its e-content at the Global Education Summit-2016 an international exhibition-cum-conference held at New Delhi.

Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi was set up under the prestigious Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT) scheme of MHRD, Government of India, for three subjects namely, Chemistry, Commerce and Economics with an allocation of Rs. 4.81 crores. The Centre was inaugurated by the Union HRD minister, Ms Smriti Irani on July 1, 2016.

### Students with Distinctions

Academics:

Miss Simran Kaur, B.A. (H), Punjabi III year, stood first in University of Delhi Exam and was awarded Sardar Manmohan Singh Memorial Gold Medal.

Sports:

Amoj Jacob won Gold medal in 800m in 17<sup>th</sup> Asian Junior Athletics Championship in Vietnam and also won Silver medal in 800 m in All India University held at Anna University, Chennai. He also grabbed Bronze medal in Senior National in Bangalore. He also qualified for South Asian Games 2017 held in Kuala Lumpur, Malaysia, London IAAF World Championship, 2017 and also for the World University Championship, 2017.

Ajay Kumar participated in 21<sup>st</sup> National Games of Deaf held during March 28-31 in Chennai and was selected for free style wrestling in 65 kg category for the Deaflympics in Turkey, 2017.

Jaskirat Kaur won a Gold medal in Single Stick (Women) event in the Intervarsity competition held at Bhatinda this year.

Ekaspreet Singh, Taranpreet Singh and Ramandeep Singh won a Bronze medal in Single Stick Team event (men) while Ramandeep Singh won Silver medal in Single Stick (men) event in the intervarsity competition at Bhatinda.

Two of our NCC Cadets Altaf Ahmad and Akshay participated and won gold and silver medals in Inter-Directorate shooting competition

### Publications (Selected)

Dhalli, R. (2016). Pilgrimage to the abode of a folk deity. *The International Journal of Religious Tourism and Pilgrimage*, Dublin Institute of Technology, Dublin, Ireland. 4(vi) ISSN: 2009-7379. <http://arrow.dit.ie/ijrtp/>. DOI 10.1186/s40793-016-0179-1

Gill, A. (2016). Baba Gurdit Singh's Zulmi Katha and its political discourse. In Joginder Singh (ed.) *Reflection on Komagata Maru*. (pp.39-48). Amritsar: Publication Bureau GNDU

Kochhar, SL. & Gujral, S.K. (2017). *Plant Physiology: Theory and Applications*. Delhi: Cambridge University Press (India).

Mishra, S. (2016). *Chhote Bade Raste*. Kanpur: Aman Prakashan.

Garg, N. & Singla, P. (2016). Arbuscular mycorrhiza-mediated alterations in redox buffer synchronize antioxidant network to alleviate salt induced oxidative burden in host legumes and their nodules. A Review. *International Journal of Plant and Environment*, 2:43-58.

Sodhi, GS. & Kaur, J. (2016). Physical developer technique for detection of latent fingerprints: A review. *Egyptian Journal of Forensic Sciences* 6, 44-47.

Tripathi, C., Mahato, NK, Rani, P., Singh, Y., Kamra, K. & Lal, R. (2016). Draft genome sequence of *Lampropedia cohaerens* strain CT6<sup>T</sup> isolated from arsenic rich microbial mats of a Himalayan hot water spring. *Stand. Genomic Sci.*, 11(1), 64.

Yadav, H., Sinha, N., Goal, S. & Kumar, B. (2016). Edu-doped ZnO nanoparticles for dielectric, fereoelectric and Piezoelectric applications. *Journal of Alloys and Compounds* 689:333-341, ISSN: 0925-8388, IF: 3.014

Kaur, I. (2016). Nectar larceny: Looking beyond crime and nourishment. *Academic Journal of Science*, 6, 277-294.

### **Seminar / Conference Presentations**

International:

A. Gupta, S. Pegu, S. Sharma & B.J. Alappat, (2016). Residual biogas slurry for mushroom cultivation: A step towards solid waste management. 24<sup>th</sup> European Biomass Conference and Exhibition, Amsterdam, The Netherlands, June 6-9, 2016, 1 BV. 4.84, (pp. 186).

A. Jain (2016). Food technology and nutrition for public health care. 7<sup>th</sup> International Conference on Growing trends Studying Literature in the Global South, Utkal University, Odisha, May 26-27, 2016.

A. Sagar &, I. Kaur (2016) Adaptive strategies of *Cicer arietinum* L. Under Arsenic stress and amelioration of these strategies by Foliar application of 24-Epibrassinolide. Poster presentation In: International Conference held in Switzerland during June 23-26, 2016.

National:

N. Kapadia (2016). Love and politics in Dina Mehta's novel and some take a lover. In: Symposium on the Parsi contribution to Indian literature, Sahitya academy, Mumbai University, Sept. 20, 2016.

**National / International MoU** An MOU with University of Carleton for joint research projects including an exchange program for teachers and students, setting up of Science Research Centre at our college and organizing joint Teachers Training Program for new age teachers.

### **Placement Details**

Students Placed – 65 (46.5%)

Companies visiting campus for recruitment – EY GDS, EY INDIA, FIS Global, Concentrix, Mindler and other companies with off campus recruitment: PwC, American Express, Guest Houser and Dine out

### **Extension and Outreach Activities**

The volunteers participated in NBT World Book Fair at Pragati Maidan, New Delhi, Jan., 2017. They also assisted in OPD clinic of LNJP hospital, New Delhi from Sept. 15, 2016 to Oct. 5, 2016. Students also ran a Cancer Awareness Camp in the college premises from 17-19 Jan., 2017. Blood Donation camp was also organised in collaboration with the 'Indian Red Cross Society,' New Delhi on Oct. 7, 2016.

### **Library Development**

The library was connected with Delhi University wide area campus networking system to NLIST (National Library and Information Services Infrastructure for Scholarly Content) and now provides access to electronic resources to its users from Delhi University Library System (DULS) and UGC-INFONET Consortium. The library is computerized and books are easily accessible through OPAC (Online Public Access Catalogue). About 32 CCTV cameras were installed in the library for security. Workshops & Training Programs are conducted for students at the

commencement of the session. College Post “The Higher Education Journal” Published by Niti Ayog were subscribed by the Library for the next academic period (2017-2018). Two Laptops installed for Visually Impaired Students to access Online Resources and Audio material from Braille Library website. Times (Weekly) & The Economist (Weekly) International Magazines both have been renewed. Around 2,000 books have been added to the already existing collection.

### **Faculty Strength**

Permanent – 98; Temporary: 1, Ad-hoc – 62

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## **SRI VENKATESWARA COLLEGE**

### **Major Activities and Achievements**

The college adopted a Government Senior Secondary School (GSSS), Khanpur Kalan, Sonapat, Haryana to teach/demonstrate various experiments to the students under “Srividya” (Science for All). Students of Class X of GSSS visited the college on 17<sup>th</sup> Sept., 2016 and interacted with the college teachers. An International Conference on “Environment and Ecology: Sustainability and Challenges (ENCON 2017) was organised between Jan. 4-6, 2017. This programme has reached 4000 students in 13 schools in Green School Initiative.

Dr. Meenakshi Bharat, Associate Professor, Department of English, organised an International Conference XVII (27<sup>th</sup>) FILLM Congress during March 14-17, 2017. The Chemistry Department organised a National Conference on Waste Water Management and Committee for developing a system for effective waste water and treatment of effluents taking the environment into consideration during Jan. 19-20, 2017. Digital India initiative in the college was given a big push by creating a web-based App for the College that was officially inaugurated on the Annual Day of the College –Feb. 23, 2017.

### **Honours / Distinctions**

Sri Venkateswara College awarded DBT Star College Scheme and *DBT Star College Status (2016-17)*

Four on-going Delhi University’s Cluster Innovation Centre (CIC) Star Innovative Projects

*Science Setu (2016)*: On-going collaboration with National Institute of Immunology, Delhi, under the Science Setu programme for academic pursuits between the college and research institute.

Awards in Sports at International (Cricket, shooting) and National Events (Basket Ball) and Extracurricular Activities.

Awarded DU Innovative Undergraduate Projects & Research Projects

Continuance of a Mobile App developed by Raghav Sarin for Prime Minister’s Office (PMO)

Dr. Nandita Narayanasamy of Biochemistry was awarded the INSA Teacher Award for the year 2016 at the Annual INSA General Meeting held on 30.12.2016.

Dr. Kameshwar Sharma and Dr. Ravindra Varma Polisetty, Department of Biochemistry, successfully completed the Faculty Development Programme “Advanced genomics and proteomic sciences” organised by University of Delhi and sponsored by University of Nottingham.

### **Students with Distinction**

Harpal Singh, B.A.(Hons.) Hindi III year, got 1<sup>st</sup> Rank at UDSC.

Drishti Modi, B.Sc.(Hons.) Zoology III year, got 1<sup>st</sup> Rank at UDSC.

Shalu Devi, M.Sc. Chemistry II year, got 1<sup>st</sup> Rank at UDSC.

Anusmita Chakravorty, M.Sc. Physics II year, got 1<sup>st</sup> Rank at UDSC.

Arun Bhartia, M.Sc. Maths II year, got 1<sup>st</sup> Rank at UDSC.

Anjali Mishra, M.Sc. Zoology II year, got 1<sup>st</sup> Rank at UDSC.

### **Publications (Selected)**

Pandey, D., Podder, A., Pandit, M. & Latha, N. (2016). CD4-gp120 interaction interface - A gateway for HIV-1 infection in human: Molecular network, modeling and docking studies. *Journal of Biomolecular Structure & Dynamics*.

Jatana, N., Thukral, L., Latha, N. (2016). Structural signatures of DRD4 mutants revealed using molecular dynamics simulations: Implications for drug targeting. *Journal of Molecular Modeling*, 22(1), 14.

Vivekananthan, S. (2016). *Neethi Venbaa*. Chennai:Kaavya Publications.

Rao, E. M. (2016) (Ed.). *Sri Maha Bhagavatamu Skandhas XI & XII in Telugu*. Hyderabad: Ramakrishna Math.

Lal, D. & Verma, M. (2016). Chloroplast in *cell biology*. Virtual learning (e-chapter) ISBN: 2349-154X <http://vle.du.ac.in/mod/resource/view.php?id=11946>

### **Research Projects (Selected)**

Dr. Vartika Mathur has been awarded an international project – Indo-Myanmar through RTF-DCS Fellowship by NAM S&T centre (2.7 lakhs), (on-going project since 2014)

Dr. Padma Priyadarshini, Assistant Professor, Department of Sociology, has a minor project “Contemporary Environmental movements in India: A comparative study of the Swachh Bharat Abhiyaan and the anti-air pollution drive in New Delhi” by the Indian Council of Social Science Research (ICSSR) for the year 2017-18, Rs. 5 Lakhs.

### **Conferences / Workshops Organised (Selected)**

An International Conference on “Environment and Ecology: Sustainability and Challenges (ENCON 2017) was organised during Jan. 4-6, 2017.

An International Conference XVII (27<sup>th</sup>) FILLM Congress was organised by Meenakshi Bharat, Associate professor, Department of English, on March 14-17, 2017.

The Chemistry Department organised a National Conference on Waste Water Management and Committee for developing a system for effective waste water and treatment of effluents keeping the environment into consideration during Jan. 19-20, 2017.

### **Seminar / Conference Presentations (Selected)**

International:

P.S. Dhanaraj (2017). Environment & ecology: sustainability and challenges. International Conference and Outreach Programme on (ENCON 2017), Jan. 4-6, 2017.

P.S. Dhanaraj (2017). Microbes and biosphere: what’s new and what’s next. 57th Annual Conference of AMI and International Symposium, Nov. 24-27, 2016.

National:

S. Yadav (2016). Research as pedagogy: A science teach education programme. Regional Workshop sponsored DBT, ISSER, Pune and MHRD, Punjab University, Patiala 29 Sept., - Oct 1, 2016.

### **National / International MoUs**

MoU signed between Sri Venkateswara College and Centre for Environment, Delhi Govt. for herbal medicinal nursery.

MoU with National Institute of Immunology, Delhi for *Science Setu*.

### **Other Inter-Institutional Collaborations**

The college adopted a Government Senior Secondary School (GSSS), Khanpur Kalan, Sonapat, Haryana to teach/demonstrate various experiments to the students under “Srividya” (Science for All). Students of Class X visited the college on Sept. 17, 2016 and interacted with the college teachers.

### **Placement Details**

Placement Offers –161

Internship Offers –470

### **Extension and Outreach Activities**

A Cleanliness Drive was organised under the Swaccha Abhiyan. North East Society, Women Development Cell. Equal Opportunity Cell (EOC) also organised various events. Intercollege Competition on various events for especially abled people organised by EOC, Sri Venkateswara College (Jan 6, 2017) Parivartan Society – Sri Venkateswara Social Service Society organised a seminar on Managing Emotions, Aug. 2016. Each One Teach One – worked throughout the year to educate students belonging to slum areas near the college. A Seminar on Our Choices and Animal Suffering – An interactive session conducted to create awareness on issues on animals and violence against them (Feb 10, 2017).

### **Library Development**

The central library has reached over 1,40,000 book titles this academic year and subscribes to 54 Journals/periodicals and 15 Newspapers in four languages. It also has more than 124 educational CDs and about 20 sets of encyclopedias. The library is fully automated now with open access system that gives students and faculty hassle free access to e-Resources and access to a number of online databases .

### **Faculty Strength**

Permanent – 108; Ad-hoc – 71

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 38,12,68,000/-

Utilized – Rs. 40,47,71,723/-

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## **ST. STEPHEN'S COLLEGE**

### **Major Activities and Achievements**

The most important achievement of the College for 2016-17, has been the fact that its students continued to do well and win laurels at the University level. Many students have gone on for further studies to some of the best institutions of higher education in India and across the world, including Australia, Europe, the UK, and USA. Committed faculty members continue to inspire and be the main reason for the good results that students achieve.

Among administrative achievements, there has been substantial advances in trying to go digital. Official communication in college is now free of paper to a large extent with a unique E-file system now firmly in place. This has led to greater transparency, efficiency and ease of work. However, College still has some distances to cover before it become an entirely paperless institution and achieve one important aspect of the College's larger, environmental policy. Yet another significant development is that all financial transactions have now gone online or digital. College remains committed to providing equitable and affordable education even as it strives for excellence. In keeping with this, the College has decided to apply for autonomy, under the University of Delhi, and is in the process of finalizing its application.

### **Honours / Distinctions**

College was accredited with grade 'A' by the National Assessment and Accreditation Council (NAAC).

### **Students with Distinction**

Nikhil Mahant, M.A.(Philosophy), won Indian Philosophical Congress Medal for obtaining highest marks in M.A.  
Surbhi Aggarwal, B.Sc.(Chemistry), won Prof. Seshadri Prize for obtaining highest marks in B.Sc. Chemistry  
Sonia, B.A.(Sanskrit), won H.H.Shankracharya Swanandashram Hari Prize for obtaining highest marks in B.A. Sanskrit  
Rima Mukherjee, M.A.(English), Dr. N. S Pradhan Memorial Medal for obtaining highest marks in M.A English

### **Publications (Selected)**

Arora, E.K. & Sharma, V. (2016). *Elements in the Chemistry of Life*. SR 53(04)  
<http://nopr.niscair.res.in/handle/123456789/34038>

Mahesh, G. & William, P. (Eds.) (2017). Maritime society in an early modern port city: negotiating family, religion and the English company in Madras. In *The East India Company, 1609-1857: Essays on Anglo-Indian Connection*. New York: Routledge.

Sharma, V., Arora, E.K. & Cardoza, S. (2016). Synthesis, antioxidant, antibacterial, and DFT study on a coumarin based salen-type Schiff base and its copper complex. *Chemical Papers* 70(11), 1493-1502.

Thareja, R. (2016). Interaction of CdSe quantum dots with some aliphatic and aromatic diamines. *Journal of Integrated Science and Technology*, 4 (2), 51-58.

Thareja, R. (2016). Theoretical modeling replication association protein of India Cassava Mosaic Virus. *Journal of Integrated Science and Technology*, 4 (2), 81-86.

### **Patents Filed / Granted**

Patent Granted. Patent No.: US 9,431,599 B2 Date of Grant: Aug. 30, 2016 Title: Non Volatile Logic Device

Patent Applied For: PUB No.: US 216/0064060A1 Date of Application: 3 March 2016 Title: Method of Forming a Magnetic Domain Wall in a Nanowire

Grantee & Applicant: Dr. Chinkhanlun Guite

### **Seminars Organised**

Environmental Health Workshop: Chemistry department and Public Health Foundation of India in collaboration with Wellcome Trust-DBT India Alliance conducted its first in the VOICES FOR HEALTH series of workshops conducted nationwide. The workshop started with presentations by researchers from Centre for Environmental Health, followed by group activities and presentation of community awareness programmes, Oct. 1, 2016.

Workshop on Computer Aided Molecular Modeling and Drug Discovery on July 25-26, 2016.

Two days Book Exhibition on Oct. 20-21, 2016.

### **National / International MoUs**

MoU with Soka University, Japan and Waseda University, Japan

### **Other Inter-Institutional Collaboration**

International – 6, National– 3

### **Placement Details**

Students Placed – 48

Companies visiting campus for recruitment – 65

### **Extension and Outreach Activities**

Blood Donation Camps were organised twice. Cloth Donation Camp is organised in Oct. every year. Drishtikon – an Annual Event organised by the Social Service League for Visually Challenged students from colleges across Delhi



and NCR. There are various competitions held like quiz, talent hunt, math me if you can, fun games and one act play. In 2017, Drishtikon was organised in collaboration with the Enabling Unit. It was, for the first time, opened for all students under the PWD category.

A new addition was a sensitization drive held on the very first day which was aimed at spreading awareness and make people in our society sensitive towards others. Environment awareness camps – The Environment Society in College conducted awareness programmes to encourage the College community to reduce the use of plastic and paper on campus. The society has also undertaken an initiative to sterilize dogs on campus. The society actively encourage paper recycling by all members of the College. Evening Classes are conducted daily for the children of underprivileged sections of the society. Medical camps is conducted annually for the employees of the College. Qualified doctors are brought for checkups and necessary prescription are given for treatment. Orphanage and Old Age home visits are done twice a year.

In keeping with the College's vision and mission of Social Commitment, this year a Public Lecture was held on Science and Religion by Professor Ross H. Mackenzie from Queensland University, Australia in Oct., 2016 at College. Under the 'Skip a Meal' initiative Junior members skip their lunch and breakfast twice in a month and the food is packed and distributed to needy at various locations. Beside these, Vidyajyoti - a primary education project organised for the children of a *basti* near GTB Nagar. The volunteers go and teach the children for 90 days in a year.

### **Library Development**

The college library has now a collection of more than 3,00,000 e-books. Library has access to e-book through UGC-INFLIBNET National Library and Information Services Infrastructure for Scholarly Content (NLIST). E-books access through NLIST membership. Membership of NLIST is on yearly basis. In addition, library has access to Web of Science (WoS) & Scopus Citation database and bibliographic sources.

### **Faculty Strength – 62**

Professor: 1, Associate Professors: 26, Assistant Professors: 35

### **Financial Allocation and Utilization**

Grant Sanctioned – Rs. 17,58,16,036/-

Grant Utilised – Rs. 20, 32, 98,324/- (unaudited figures. Annual audit under progress)

### **Other Significant Information**

Administration has been partially computerised as part of the Digitization Programme in College. Library has also been completely computerised enabling students and faculty to access books, journals and reference materials.

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## **VIVEKANANDA COLLEGE**

### **Major Activities and Achievements**

The NAAC Peer Team visited the college on 20 and 21 Feb., 2017 for inspection. On 28 March 2017, in the first cycle of NAAC accreditation, the College was accredited with grade A. The College organised the annual fest, *Pallavi* in collaboration with the various departments and committees. A wall magazine, *Kasturi* is maintained by department of English of the college. Department of commerce brought out the third issue of its annual commerce digest, *The Blue Inkpot* and the department of English too published the third edition of its annual newsletter, *Wordweaves* as a tribute to the Indian author Mahasweta Devi. The college magazine, *Isha 2016-17* was launched during the College's Annual Day. The Street Play Society of the college, *Buniyaad* won several awards at Udaan-Mega Nukkad Natak Competition. Diksha Raina received the award for best actor-female, Shivani Sharma was awarded for best direction and the team was awarded for best production. Shivani Sharma was selected to work

as assistant director with Sudipto Sen and Diksha Raina was awarded with three month free diploma course in acting from Anupam Kher's institute in Mumbai. The college organised an alumni meet on 15 Jan., 2017.

### **Honours / Distinctions (Faculty)**

Dr. Sukneet Suri, Department of Food Technology was awarded with the Teachers Award, by the Government of NCT of Delhi, Directorate of Higher Education, Delhi on 13 May, 2016.

Ms. Arushi Jain, Department of Food Technology was awarded by Best Oral Presentation Award-Ramanathan Prize (Community Nutrition) for the paper, Risk assessment of sulphite exposure through foods among adolescents of Delhi, at the 48<sup>th</sup> National Conference of Nutrition Society of India on Nutrition Risk Management and Communication on 3-5 Nov., 2016.

Dr. Neeta Mathur, was invited as Guest Speaker in the *Aaj Savere* Programme on Delhi Doordarshan National Channel, televised on 25 March, 2017.

Dr. Neeta Mathur, gave a vocal recital on All India Radio Indraprastha Channel (Delhi A) broadcast on 28 March, 2017.

Dr. Yuthika Mishra was invited for the DD National Programme, *Kidz Island*, Gandhi ke Vichar on 1 Oct., 2016.

Dr. Yuthika Mishra was invited as Resource Person for Lok Sabha TV weekly History Programme *Itihas ke Panon Se*.

Dr. Yuthika Mishra was main speaker at '1857 ke Swadhinta Sangram ke Kuch Anchue Pehlu,' a one day seminar organised by *Bhartatiya Itihas Sankalan Yojna Samiti* and sponsored by NBT at World Book Fair on 10 Jan., 2017.

### **Publications**

Bhaskar, A. & Paliwal, A. (2016). Discussing poetry and 'Form' through Terry Eagleton's how to read a poem. *Research Scholar – An International Refereed e-journal on Literary Explorations*, 4(IV).

Dubey, S., Kumar, A. & Mishra, M. M. (2017). Polyharmonic neumann and mixed boundary value problems in the Heisenberg Group. *Complex Variables and Elliptic Equations*, 62(10).

Garg, R. (2017). Ultra-High reliability for non-mission-critical applications. *International Journal of Science and Research (IJSR)*, 6 (2).

Jain, P. & Jain, S. (2016). O'Neil type convolution inequalities in lorentz spaces. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 86, 267-271.

Kumar, M. (2016). An analytical study of Indian agriculture. *Chintan International Refereed Research Journal*, 6(1).

Mukherjee, C. (2016). Postmodern space and urban identity in Haruki Murakami's fiction. *Creative Forum: Journal of Literary and Critical Writings*, 29(1-2).

Drajog, H. (2016). Native Vision and the Tourist's Gaze: Mosaic of Chamba in Punjabi Literature. *Research Scholar – An International Refereed e-journal on Literary Explorations*, 4(1).

Rocky, Y. (2017). Romoéo+Juliet and Luhrmann's America. *The Criterion: An International Journal in English* ISSN: 0976-8165

Jan, S., & Suri, S. (2017). Assessing consumer behaviour for value added innovative products. *International Journal of Home Science*, 3(2), 572-576.

Suri, S. (2016). *Advances in Food and Nutrition*. (Revised Edn.), New Delhi, India: Vikas Publishers

### **Research Projects**

Dr. Sandhya Jain is working on an International Research project, "Classical Operators on Sobolev and Banach Function spaces and quasiconformal analysis", funded by the Department of Science and Technology for a period of three years, 2016-2019. The amount sanctioned for the research is Rs. 41,51,4001/-.

Dr. Hina Nandrajog is working on an on-going Intra-Asian Travel Project to translate selected works from Punjabi into English by Centre for Academic Translation and Archiving (CATA), University of Delhi, funded by UGC and the project commenced on July, 2016.

### **Seminars Organised**

A Seminar on “Bakery and Confectionary: Newer Perspectives” was organised by the Department of Food Technology in collaboration with AFSTI – Delhi Chapter, funded by Vivekananda College and AFSTI-Delhi Chapter, on 11 April, 2016.

A National Seminar on “Opportunities and Challenges in Food Industry” was organised by Dr. Sukhneet Suri, Department of Food Technology in collaboration with AFSTI – Delhi Chapter and Institute of Home Economics, funded by AFSTI-Delhi Chapter and Institute of Home Economics, on 5 April, 2016.

### **Conferences / Workshops Organised**

Global Traditional Food Summit was organised by Dr. Hina Nandrajog and Dr. Sukhneet Suri of The Department of Food Technology in collaboration with Council for Promotion, Research and Trade of Traditional Food Research, Bhartiya Dharohar, funded by Council for Traditional Food Research, Bhartiya Dharohar, AFSTI – Delhi Chapter, FSSAI, NIFTEM, IFUNA, on 24-26 Feb., 2017.

A Conference on “Traditional Foods for Healthier Nations” was organised by Dr. Sukhneet Suri of Department of Food Technology in collaboration with Council for Promotion, Research and Trade of Traditional Food Research, Bhartiya Dharohar, funded by Council for Traditional Food Research, Bhartiya Dharohar, AFSTI – Delhi Chapter, FSSAI, NIFTEM, IFUNA, on 16 Oct., 2016.

### **Seminar / Conference Presentations**

International:

A. Jain (2016). Food Technology and Nutrition for Public Health Care. In: 7<sup>th</sup> International Conference on Growing trends Studying Literature in the Global South, Utkal University, Odisha, 26-27 May, 2016.

H. Nandrajog (2016). Unity and Diversity in Indian Literature: The Route of the Ramayana in Society, Literature and Multilingualism. In: Bhaasha Foundation, Pune, 16-17 Dec., 2016.

H. Nandrajog (2016). Twined Tendrils of Womanhood and Ecology in Literature in Environment: Literature, Ethics and Praxis. In: Golden Jubilee/UGC International Conference (ICRTE-2016), Behrampur University, Odisha on 28-30 Dec., 2016.

H. Nandrajog (2017). Translation as a Transformative Tool. In: Decentering English Studies: Studying Literature in the Global South, Utkal University, Odisha, 19-21 Jan., 2017.

National:

A. Jain (2016). Risk assessment of sulphite exposure through foods among adolescents of Delhi. In: 48<sup>th</sup> National Conference of Nutrition Society of India on Nutrition Risk Management and Communication, 3-5 Nov. 2016.

G. Bhandari (2016). A Study of Ramacharitam. In: National Women Historian’s Seminar on Itihas Drishti, Itihas Lekhan Evam Itihas Ke Srot, Department of History, Banaras Hindu University, Varanasi and Akhil Bharatiya Itihas Sankalan Yojna, BHU, 20-21 Aug., 2016.

H. Nandrajog (2016). Writing/Translating in English: English in the Indian Classroom and Outside in English Studies. In: National Seminar, India: Changes and Challenges organised by Department of English, Banaras Hindu University, Varanasi, 17-18 Nov., 2016.

H. Nandrajog (2017). Cobwebs of Nostalgia: Two Travel Memoirs in Punjabi. In: Modes, Motives, Motifs, and Conditions in Intra-Asian Travel, Department of English, University of Delhi on 20-21 March, 2017.

Y. Mishra &, G. Bhandari (2016). Lesser known facets of Birla Mandir. In: National Seminar on Dilli ke Aitihaasik Sthal, Satyawati College, University of Delhi, 28 May, 2016.

### **Placement Details**

Students placed – 57

Companies visiting campus for recruitment – 7

### **Extension and Outreach Activities**

NSS organised a Legal Literacy Programme on Anti-Ragging Laws in association with East District Legal Services Authority in July, 2016

Blood Donation Campaign was organised in association with Satyamev Jayate on 24<sup>th</sup> Aug., 2016

NSS students participated in the Rally on Anti-Drugs on 24<sup>th</sup> Sept., 2016.

### **Library Development**

Total Budget: Operational Rs. 7,38,570

NR Rs. 50

DPGE Rs. 21,800

Total Rs. 7, 60,420

Number of Books- 62,880

Transactions made in the circulation section were – 46478

Books issued under Book Bank scheme were – 1331

Transactions through Inter Library Loan of DELNET – 20

Number of Periodicals including Newspapers – 46

In addition to the above, access to large number of e-journals is provided through UGC Consrta, N-List Programme of Infilbnet and through membership of DELNET.

### **Faculty Strength**

Permanent – 47; Ad hoc – 65

### **Financial Allocation and Utilization**

Grant Sanction – Rs. 253156000/-

Utilized – Rs. 198719593/-

### **Other Significant Information**

Department of Commerce in collaboration with Jaipuria Institute of Management Studies organised Jaipuria Quiz League 2016 in the college on 17<sup>th</sup> Sept. 2016 where many students of commerce department won prizes. Talks on “Effective Public Speaking” and “GST Bill” by Mr. Ankur Jain, Chief Knowledge Officer at T.I.M.E., were organised on 6<sup>th</sup> Sept. and 22<sup>nd</sup> Sept., 2016. An excursion-cum-educational trip of 75 students accompanied by 4 Faculty Members went to Udaipur and Mount Abu from 18 March, 2017 to 22 March, 2017 and also visited SARAS DAIRY, Udaipur on 22 March, 2017. The Commerce Department also held a three day workshop on Tally ERP.9 for teaching/Non-Teaching Staff of the College.

Department of Computer Science conducted a talk on Career Guidance in IT Industry by Mr. Mainak Uprety in Jan., 2017. In Feb., 2017, an IT Quiz, Brain Busters, took place where 15 teams participated and competed with one another in challenging rounds like e-Tambola, Guess the Icon etc. Mrs. Isha Mangal attended a one-day Capacity-Building Workshop on 30<sup>th</sup> Sept., 2016 and Mrs. Devika attended a programme on Computer Science organised by ILL, University of Delhi on 4<sup>th</sup> Feb., 2016.

Department of Economics organised a lecture on “Social and Economic Inclusion in MGNREGA: Myth or Reality?” on 2 Nov., 2016 by Ms. Navneet Manchanda, founder of “Outlier Research Solutions.”

Dr. Hina Nandrajog was part of the selection committee as the subject expert for selection of lecturer in Department of English, Vardhaman College, Bijnor (M.J.P. Rohilkhand University, Bareilly). Dr. Nandrajog is currently co-guiding a student enrolled in the Ph.D programme in the Department of Punjabi, University of Delhi. She was invited as a speaker on “Partition of India and Translation” at SCD Government College, Ludhiana on 23<sup>rd</sup> Sept., 2016 and served as a panellist on discussion on *Blind*, organised by ‘Hindustan ki Awaaz’ at Oxford Book Store, Delhi on 20<sup>th</sup> Dec., 2016. She was a panellist in the discussion on “Disputed Frontiers: Home Then and Now” during

a two-day Intra-Asian Travel Project Workshop under the aegis of CATA, Department of English, University of Delhi, Faculty of Arts, held on 5-6 Dec., 2016.

The Department of English also organised a lecture, “*Bhimayana: A Reading of Critical Legacy*” by Prof. Raj Kumar of the Department of English in Nov.2016. The students attended a panel discussion and workshop on *Bhimayana* at Kamla Nehru College, DU in Oct. 2016. The Department also organised a trip to Lodhi Garden on 1st April 2016. A guided tour of N.G.M.A was organised for students of B.A. (H) English on 11<sup>th</sup> Nov. 2016. Dr. Nalini Kapoor, Dr. Jyotika Elhance and Mr. Amit Kumar attended UGC funded two day national workshop on Hindi Patrakarita from 2-3Feb., 2017. Dr. Nalini Kapoor attended a capacity building workshop on 4<sup>th</sup> Nov., 2016 organised by ILLL, University of Delhi.

The Department of Food Technology organised various student and faculty enrichment programmes such as National Nutrition Week, with Lecture on Prevention of Anaemia, Quiz Competition, Diet Display and Mini Exhibition on Life Cycle Approach for Better Nutrition on 5<sup>th</sup> Sept. 2016. A tri-Colour Recipe Competition on 11<sup>th</sup> Aug., 2016; a Workshop on “Microenterprise on Chocolates and NutriBar-a learning experience” on 11-12 April, 2016.

Ms Shivani Dubey got a Post-Doctoral Fellowship by National Board of Higher Mathematics and Anju Nagpal and Sarita Rrani attended a two day National Workshop on “Recent Developments in Mathematics” at Kalindi College in Jan. 2017. The Department of Mathematics invited Prof. R.K. Sharma from I.I.T. Delhi to deliver a lecture on “Cryptography.”

Dr. Neeta Mathur in National Programme of talks as guest speaker (All India Radio) on 5 Sept. 2016. She also delivered four lectures on Indian Music and Digital Music of India to students of Hankuk University of Foreign Studies and Busan University of Foreign Studies, South Korea. She also presented a paper in the International Seminar in RMT Music and Arts University, Gwalior on 16 -18 Jan. 2017. She was invited for the Regional Selection Committee in the Centre for Cultural Resources and Training in Dwarka, Delhi. Department of History organised the annual Dr. Alka Rani Memorial Lecture on 4<sup>th</sup> Oct., 2016 under the banner of *Sanskriti*, Dr. Devesh Vijay, Associate Professor, Zakir Husain College, University of Delhi was invited to deliver a lecture. The Folk Dance Society (Thirkan) organised an Inter-College Competition which witnessed participation of a diverse array of performers from across the University of Delhi on 10<sup>th</sup> Feb., 2017. The society also won the 1<sup>st</sup> position at SPM and Shradhanand College and 2<sup>nd</sup> position at Bharati College.

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## ZAKIR HUSAIN DELHI COLLEGE

### Major Activities and Achievements

The College was assessed by the National Assessment and Accreditation Council (NAAC) for the first time from the 19<sup>th</sup> to the 21<sup>st</sup> of Sept., 2016; and has been awarded an “A” grade with a CGPA of 3.12. At the 59<sup>th</sup> Flower show of the University of Delhi, the College won a total of 145 prizes and 10 trophies. The College herbal garden was adjudged as the best for the third consecutive year, winning the Meenakshi Gopinath Cup. A workshop on “Promoting Intergenerational Bonding” with support from All India Women’s Education Fund Association (AIWEFA) and the Ministry of Social Justice and Empowerment was organised at the College on 1<sup>st</sup> March, 2017. The Equal Opportunity Cell (EOC) organised an awareness workshop in Nov., 2016 on “book share”, the largest online library for persons with print disability in collaboration with the College Library.

### Honours / Distinctions (Faculty)

Dr. Anuradha Marwah’s play ‘Ismat’s Love Stories’ was shortlisted for the Hindu Playwright Award 2016. She was invited as a panelist, and to interview the author Shobha De at the Ajmer Literature Festival from 16-18 Dec. 2016. She was also invited by the Central University Kishangarh and Sahitya Akademi for a talk on “Literature and Location” on 6Feb., 2017.

Dr. Devesh Vijay has been awarded Senior Fellowship in Political Sociology by the Indian Council of Social Science Research for 2017-19.

Dr. K.K. Arora was nominated again as convenor of the course committee (Chemistry) in Central Board of Secondary Education.

Mr. Madhu Sudan is a recipient of Bhaskara Advance Solar Energy Fellowship funded by Department of Science and Technology (DST) Govt. of India, and Indo-US Science and Technology Forum (IUSSTF).

Dr. M. Wahid Ansari received the “Best Research Award” by Uttarakhand Government in 2016.

Ms. Shraddha Adityavir Singh was invited by the Sahitya Akademi, New Delhi on 7th June 2016 to read her poems as part of the “Literature for Social Change” programme.

### **Awards/Honours (Students)**

Sadi Gold Medal awarded to Md. Modassir of B.A. (H) Persian, Third Year.

Shashikala Singh Gold Medal to Rishi Prasad of M.A. Psychology, final year.

Dr. N.V. Banerjee prize to Rishi Prasad of M.A. Psychology, final year.

University medals to Supratik Biswas of B.A. (H), Bengali, (III Yr.), Rayisuzzaman Khan of B.A. (H) Arabic, (III Yr.) and Ghulam Qadeer of B.A. (H) Urdu, (III Yr.).

### **Students with Distinction**

Academics:

Four students were awarded meritorious scholarships from Rashtriya Sanskrit Sansthan and Delhi Sanskrit Academy.

Cultural;

AMAN-College theatre society – won the National Drama Competition of the Shakespeare Society of India.

NCC Cadet Bhavaya Tyagi was the parade commander of the Republic Day Parade at the Rajpath contingent 2017.

Nine cadets participated at the Republic Day Camp.

Nine cadets represented the college and the Delhi Directorate through the RDC final and the Prime Minister’s Rally. There were three cadets who walked on the glorious Rajpath.

Sports:

In Nov. 2017, the college football team won the Reliance Foundations inaugural college youth championship of Delhi and played the Nationals held at Mumbai in Dec., representing Delhi.

Jyoti of B.A. (Hons.) History III Year won the gold medal in 200 metre race in the 17th National Para-Athletic Championship 2017, and bagged the 1st position in 100 metre race at the 9th Delhi State Para-Athletic and Power Lifting Championship in Feb., 2017.

NSS volunteer, Ankit Kumar Rathi of B.A. (Prog.) 3rd year, became the first ever NSS volunteer to represent Zakir Husain Delhi College at the Republic Day Parade.

Shubham Garg of B.Sc. (Hons.) Zoology, 3rd year, brought laurels to the College at the National Youth Festivals organised by Ministry of Sports & Youth Affairs, Govt. of India at Rohtak, Haryana.

### **Publications (Selected)**

Abdullah. (2016). Necessary and Sufficient conditions for wave packet frames on positive half-line. *TWMS Journal of Applied and Engineering Mathematics*.

Ansari, M. W. (2017). Spread of malformation from India to western counterparts: a major threat to mango industries. In G. Singh. (Ed.), *Indian and Western Aspects of Identity*. (pp 129-133), Shri Kala Prakshan.

Farooqi, A. W. (2016). *Beema Vidhi Awm Wyawahar*. Delhi: Directorate of Hindi Medium Implementation, University of Delhi.

Inam, M. (2016), Single Shot White Light Interference Microscopy for 3D surface profilometry using single chip colour camera. *Journal of Optical Society*.

Jamal, A. (2016). *My First Picture Dictionary: English to Arabic*. : United Kingdom: IBS Books

Khan, I. (2017). *Academic Libraries: Yesterday, Today and Tomorrow*. New Delhi: Anamika Publishers.

Madhu, S. (2016). Day light and energy performance of a building for Composite Climate: An experimental Study. *Alexandria Engineering Journal*.

Maheshwari, A. (2016). Design synthesis and biological evaluation of aryl piperazine-based noval Phthalimides: Active Inducers of testicular germ cell apoptosis. *Journal of Chemical Sciences*.

Rajouria, S.K. (2016). Cherenkov terahertz Surface Plasmon Excitation by an electron beam over an ultrathin metal film.

Vijay, D. (2016) From Colonial Rule to Panchayati Raj: A Study of Changing Village Economy. In Singh, R. and Raina, D. (Eds.), *Society and Development: Regional Perspectives*. Jaipur: Rawat Publications.

### **Research Projects (Selected)**

Dr. M Waheed Ansari, funded by the DST, Government of India, Characterization of ethylene induced through *Fusarium mangiferae* in mango malformation”, INR 25.66 lacs.

Dr. Ratnum Kaul Wattal and Dr. Illmas Naqvi were granted a research project “Designing a Mathematical model to solve the upcoming water crisis in Noida and Greater Noida region” funded by Research Council, University of Delhi.

Dr. Devesh Vijay was awarded Senior Fellowship in Political Sociology by the Indian Council of Social Science Research for 2017-19 to work on Project titled “Commoners and the State: Tracking Interfaces between Workers and Government Daftars from a Slum and a Village on Delhi’s Margins” (1988-2016).

### **Seminars Organised (Selected)**

A National Seminar on ‘Technical Terminology and Science Teaching’ was organised in collaboration with the Commission for Scientific and Technical Terminology of the Ministry of Human Resource Development.

A two-day National Seminar on the topic Language Policy and the issue of employment in Hindi was organised by the department of Hindi in Feb., 2017.

An international seminar on “Ghalib Ki Kulliyat Aur Unke Ahad: Ek Mutala” was organised on Feb. 1-3, 2017.

A National Seminar on “Re-imagining Gandhi: Issues and Challenges of Terrorism” was organised on Oct. 3, 2016.

Two day National Seminar on “*Farsi-Urdu Ki Adabi Aur Lesani Rewayaat*” was organised on April 8-9, 2016.

One-Day National Students’ Seminar on “Indian Feminism/s: Writing Liberation in Modern India” on 20 Feb. 2017.

### **Conferences/Workshops Organised (Selected)**

A National Symposium on ‘Biotechnology in Crop Improvement: Prospects and Constraints’ was organised by the Department of Botany in March, 2017.

A National Conference on “Innovations in Chemistry Laboratory Teaching” was organised on Feb. 8-9, 2017.

A National Symposia on “Machine Translation: Tools and Techniques” was organised by the department of Sanskrit on Nov. 3-4, 2016

A National Symposia on “Understanding Ashokan Brahmi Script” was organised by the department of Sanskrit on Nov. 8-9, 2016.

### **Seminar / Conference Presentations (Selected)**

International:

M.S. Javed (2017). *Naval Kishore Ki Hayaataur Karname*. International Seminar at the Dept. of Persian, University of Delhi, Feb. 23-24, 2017.

S. A. Singh (2016). Forging a digital and public identity: The self-fashioning of Margaret Atwood. 41<sup>st</sup> International Conference of the British Association for Canadian Studies, London, United Kingdom, April 21-23, 2016.

National:

A. W. Farooqi (2016). Urban cooperative banks of Delhi State: Is a beginning of Indian Banking System. 9<sup>th</sup> All India Commerce Conference, Faculty of Commerce, University of Lucknow, Lucknow, Nov., 2016.

M. Afzal (2016). Commemorating Delhi and its Environs: Abdul Hayy's Delhi aur uske Atrah (1894). Intra-Asian Travel Project Workshop, Department of English, University of Delhi, Dec., 2016.

M. Chaturvedi (2016). Embodied resistance. Heisnam Kanhailal's 'Draupadi, IACLALS Annual Conference 2017 on Location, Identity, Solidarity: Hegemonic Formations and Contestations (With a Special Focus on the Northeast), IIT Guwahati, Feb. 15-17, 2017.

S. Akhter (2016). Indian Society of Labour Economics. 58<sup>th</sup> Annual Conference, IIT Guwahati, Assam, Nov. 2016.

T. Anwar (2017). Diplomatic relations of Bijapur with Vijayanagar: A critical overview. National Seminar on Centre, Province and Regional States in Medieval India (1206- 1707), Centre of Advanced Study, Department of History, Aligarh Muslim University, March 20- 21, 2017.

R. K. Wattal (2017). Role of essential oils in antimicrobial activities and organically grown maps: A global herbal renaissance. National Conference on Pharmacognosy: Scope of Phytochemically Unexplored Medicinal Plants, Organised by Zakir Husain Delhi College, Delhi, Jan. 12, 2017.

### **Placement Details**

Students Placed – 60 (55-60%)

Companies visiting Campus for Recruitment – 04

### **Extension and Outreach Activities**

A research support committee was formed and Dr. Devesh Vijay delivered its inaugural lecture in Jan. 2017. A database of major funding agencies for science research was prepared and shared on the college website. A similar web-link for humanities and social-science is also being readied. Major academic achievements, special lectures and publications of staff members are being shared with their permission on Facebook and on the website of the College.

A wide range of lectures and activities were organised beyond set curriculum, by Dr. Devesh Vijay and Dr. Pradeep Kumar. Many faculty members of the College delivered talks and lectures on topics like exploring happiness, first-aid training, civic values, disaster management, legal literacy and entrepreneurial skills.

This year, some faculty members along with some students of the College, also undertook the initiative of teaching school age children in the neighbouring *basti* on a regular basis in their own madarsa on all weekdays between 3 p.m. and 4.30 p.m.

Dr. Naveen Kumar Jain of the Electronics Department along with Mr Vinay Kumar Singh of the Mathematics department held a series of interactive session for the development of the juvenile boys at the observation home *Prayas* at Delhi Gate over the course of the year 2016.

### **Library Development**

A total of Rs. 14,76,000.00 has been sanctioned to the college. This year, 2,485 books have been added to the library database. The College also subscribed to 5 new journals. 11 english, 8 hindi, 6 urdu and 1 bengali newspaper are available in college's library. It also has 15 English, 9 Hindi, 6 Urdu And 1 Bengali language magazine. The College library became automated during the financial year 2016-17. All the UNICODE language books were entered in their original script.

### **Faculty Strength**

Permanent –144, Adhoc –61.

### **Financial Allocation and Utilization**

Grants sanctioned – Rs. 33, 10, 04,000/-

Utilized – Rs. 33,10,04,000/-

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## ZAKIR HUSAIN POST GRADUATE EVENING COLLEGE

### Major Activities and Achievements

The college proudly announced the participation of its nine cadets in the Republic Day Camp – 2017. It also celebrated National Yoga Day on 21 June, 2016 and 70 years of Independence under Azadi 70 as guided by MHRD, and conducted two events in Aug., 2016. Two *Swachhta Pakhwadas* from 1st-15th Sept., 2016 and 1st - 15th Nov., 2016 were also organised. In Sept., 2016, College celebrated NSS day with the theme “Ill effects of Drug Addiction.” Various co-curricular activities like, a training programme on “Enrolment process of Youth electors” (Sept., 2016), *Rashtriya Ekta Saptah* (Oct.,-Nov., 2016), a workshop on Emergency Response Preparedness (Oct., 2016), Digital financial literacy Campaign (Dec., 2016 -Jan., 2017) and Celebration of World Forest Day and World Water Day (March, 2017) were also organised.

### Awards / Honours Faculty Members

Dr Prabhat Ranjan, Assistant Professor, Department of Hindi, was awarded the first Bhashkar Yuva Lekhak Samman at Jaipur Literature Festival 2016 for his book *Kothagoi*.

### Publications (Selected)

Chauhan, N. (2017). *Patansheel Patniyon ke Notes*. New Delhi: Vani Prakashan.

Jain, V. (Sept., 2016). From underground ‘sutta’ to mainstream ‘Kolaveri Di’: Understanding Social Media through Changing Perceptions of Popular Music in the Indian Subcontinent. *The Journal of Social Media in Society*, 5 (2).

Rehman, M.J. (2016). Bangla Sahityer sekalbonamekaler ‘premnei’ – ekti somaj bhabnamulok path. *Kristi*.

Tabassum, S. (2017). World Poetry Festival. *Abhinav Imroz*.

Younus, M. M. (March 2017). *Nakshatra Barta*. Kolkata: Shambhabi.

### Research Projects (Selected)

Dr. Madhumita Chakraborty, Mr. Sanjay Kumar, & Ms. Amreen, Dropout rates of minority girl students in university of Delhi: a study of select colleges of Delhi University.

Dr. Anil Sharma, UGC, Hindi rangmanch ke vikas mein natya sansthaon ka yogdaan.

Dr. Shubhra Ray, funded by Charles Wallace India Trust Research Grant, Print Cultures in Colonial French India.

### Seminar Organised (Selected)

A lecture was organised for the teachers on ‘Nurturing emotional Intelligence for Personal Effectiveness’ by Dr. Arvind, Director of Defence Headquarters, Ministry of Defence, Government of India, , March 1, 2017.

The Commerce Society of the college organised a talk session, SARMAYA, in association with ITM Institute on the topic ‘Demonetization: Impact on Indian Economy,’ Jan. 20, 2017.

Department of Persian organised a poem recite programme in which Iranian poet Mustafa Rehman recited his poetry among the students in the *RUBAROO*, Jan., 2017.

One day seminar on the topic Journey of Zero and Omnipresent Mathematics was organised by Department of Mathematics on March 31, 2017.

A Talk on “Theory and Practice in Translation” was conducted by Prof. M. Asaduddin of English Literary Society in the academic session 2016-17.

The Department of History organised two talks delivered by Prof. Meera Khare and Prof. Surajbhan on Mughal Paintings and history of Mewat region during the medieval period respectively.

### Conference / Workshops Organised (Selected)

2<sup>nd</sup> National Conference on ‘Environmental concerns of 21<sup>st</sup> century: Indian and Global context’ was organised by Department of Environmental Studies, ECO-CLUB, 2016-17.

A National Conference on 'Dr. B. R. Ambedkar's vision of India' was organised in collaboration with Political Science department and NSS on 21-22 March, 2017.

#### **Seminar / Conference Presentations (Selected)**

J.M. Rehman (2016). Journalistic writings and translations, course-C. In a one day workshop on U.G. courses of Bengali, Zakir Husain Delhi College (Evening), 30 Aug., 2016.

S. K. Baishya (2017). The Culture of Consumerism: A Critical Analysis of Bhraamyaman Theatre in Assam. In *IACLALS Conference*, IIT, Guwahati, 15-17, Feb. 2017.

#### **Placement Details**

Students placed – 32

Companies visiting Campus for Recruitment – 01

#### **Extension and Outreach Activities**

Dental Awareness Camp: This year NSS unit of college organised a free Dental Awareness Camp in collaboration with Maulana Azad Institute of Dental Sciences.

An Academic visit to SEBI NRO, Delhi was conducted by Sarmaya, the Commerce Society for 3<sup>rd</sup> Year students of Commerce Department on 14<sup>th</sup> Sept., 2016.

Academic visit – JAIPUR: The Commerce Society organised a two-day academic visit to Jaipur from 7<sup>th</sup> to 8<sup>th</sup> Nov., 2016.

Department of History Society\_a day long trip to a historical site; Tughlaqabad Fort for the History honours and pass course students, who have opted for the SEC history paper.

#### **Library Development**

During 2016-2017, 125 General /Other Books were added. Total 30 monthly, fortnightly and weekly magazines are now available in the college library, i.e., English: Monthly-6, Fortnightly-4, Weekly-4; Hindi: Monthly-4, Weekly - 3; Urdu: Monthly-4, Weekly -2, Bi-annual-01; Arabic: Fortnightly-01; Bengali: Fortnightly -01. Library also have subscription of 11 newspapers, i.e., English: 4, Hindi-4, Urdu-2, Bengali-1. Rs.20000 was donated by Students' Union to purchase the text-books for the students. One Computer set with Printer and Scanner was installed in the Teachers' Reading Room of the Library for the use of Conference/Seminar etc. Number of national journals subscribed (online & paperback version).

#### **Faculty Strength – 73**

#### **Financial Allocation and Utilization**

Grants sanctioned – Rs.16, 27, 05,000/-

Utilized – Rs.15, 54, 18,000/-

#### **Other Significant Information**

The Principal Dr. Masroor Ahmad Beg promoted a lecture series in memory of M. M. Begg named, M.M. Begg Lecture Series:

Kumar, K. (1 Feb., 2017). Partition of India, 1947: New dimensions.

Rehman, A. (2 March, 2017). Remembering Saadat Hasan Manto

Lindeman, A. (23 March 2017). Empowering Innovation and Entrepreneurship

Dubey, A.K. & Chandra R. Dalit Vimarsh in India.

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## UNIVERSITY HOSTELS/HALLS

### AMBEDKAR-GANGULY STUDENTS' HOUSE FOR WOMEN

The Ambedkar-Ganguly Students' House for Women was started in Oct., 2003 and is being maintained by the University of Delhi. It is by and large, a self-sustaining residence for women students of the University of Delhi. It can accommodate up to hundred residents and three guest residents. The House is aesthetically divided into two spacious and airy wings with 50 rooms in each wing. The House has a well-equipped Computer room, Common room, Gym, Library cum Reading Room and spacious dining hall with a modern kitchen. The hostel provides shuttle bus service from hostel to University campus and back. The Provost is the head of the house and the Warden and Resident Tutor look after the day-to-day administration with the assistance of the office staff.

There are fifty seats for post graduate students of Delhi School of Economics and its departments, – Economics, Geography and Sociology. The other fifty seats are reserved for women post-graduate students belonging to SC and ST Categories. 5 % of seats are reserved for PwD categories against the total 100 seats. All seats are allotted to the students in order of merit among the applicants from various disciplines, as per the merit lists provided by the respective departments.

The sale of application forms for the academic session 2016-2017 started on 18 July, 2016. Admission process began on 2 Aug., 2016 and the hostel reopened on the same day.

The academic session 2016-2017 started with the election of the Students' Welfare Association (SWA) on 8 Oct., 2016. During the reporting period, various cultural activities were held in the Hostel with the help of the elected SWA Executive members and Hostel Authorities. A glimpse of some events organised are given below.

Both Independence Day and Republic Day was celebrated by hoisting the National Flag, followed by the singing of the National Anthem and distribution of sweets. On these days, the hostel staff and authorities have breakfast together in the Mess. Festivals like Diwali, Christmas, Lohri and Holi were celebrated in the traditional way among the residents and staff. Fresher's party was organized in a gala way on Oct. 26. Sports day was organized on 19 Feb. by conducting some indoor games and Athletics. Various celebrations of events brought residents from different cultures together where they shared their experiences to make their stay in the hostel memorable.

The annual function of the Hostel was celebrated on 4 March, 2017. Prof. R. K. Kale, former Vice Chancellor of Central University of Gujarat was the Chief Guest and Prof. Subhadra Channa, former Provost of AGSHW was the Guest of Honour on this occasion. The students performed several musical and cultural activities on the stage which was highly applauded by the guests. It was then followed by dinner and a Jam session.

In view of the students' conveniences, the following purchases/facilities have been provided to the hostel residents during the period 2016-2017 – one Microwave Oven; one commercial RO system; one PA system; one Hot Plate. Further, one female security guard has been appointed on contract basis in Sept., 2016, as per the suggestion of the Inspection Team of the University.

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### ARAVALI POST GRADUATE MEN'S HOSTEL

Aravali Post Graduate Men's Hostel was established in 2005 by the University of Delhi, South Campus to provide accommodation facilities for research scholars and post graduate students of the South Campus.

The Hostel has increased its capacity to accommodate 76 students on single occupancy basis. Every room is equipped with a Bed, Mattress, Study Table, Study Chair, Curtains, Easy Chair and a white Laminated Board. The Hostel also has a double occupancy Guest Room equipped with Air Conditioner in summer and Heat Convector facility in winter; as well as a Utility Room with a Desert Cooler.

Facilities include a Common Room for recreation which has been equipped with high definition TV with DTH service; a well-furnished reading room with the dozens of Newspapers and Magazines; as well as excellent Sports facilities for Indoor Games like Table Tennis, Chess and Carom etc. The Hostel is equipped with a Wi-Fi facility to provide smoother and faster internet service to the residents. Five CCTV cameras have been installed at required locations to have a better security system. In collaboration with Saramati P.G. Men's Hostel, a unique Laundry

facility is also provided to the residents. Aravali hostel also provides accommodation to trainees coming to the South Campus under the INSA/DST's INSPIRE programme and trainees from other institutions as well, especially during summer vacation.

A Cultural and Sports Committee has been formed for smooth functioning and organizing of cultural and other activities. Saraswati Puja, Independence Day, Republic Day were a few occasions that were celebrated. Annual Hostel(s) Night 'MINALGE 2017' was celebrated along with the Saramati Hostel on 07 April, 2017.

The Mess Committee consistently monitors and ensures quality food is provided to the residents. Kitchen and dining area has been equipped with deep freezer, high capacity refrigerator, desert cooler, Reverse Osmosis water purifier and other quality kitchen equipment.

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## **CENTRAL INSTITUTE OF EDUCATION HOSTEL**

The Central Institute of Education has two hostels, Shree Bhawan for women and Shakti Bhawan for men, both established in 1950. Shree Bhawan has eight rooms accommodating twenty three female students and Shakti Bhawan has three dormitories and one double occupancy room accommodating twenty four male students. The hostels accommodate students from B.Ed., M.Ed., M.Phil. and Ph.D. programmes. There is one visitor's room with TV and reading shelves facilities. Apart from the general books of reading shelves, periodic magazines and regular newspaper facilities are also available for the residents. Sports facility is provided through departmental arrangements. The Residents celebrate different festivals in the Hostel in different ways. Residents also give their feedback in the form of face to face discussion, debate, Nukaad Natak. The Hostel Mess is maintained by the Hostel Residents. Every month a new committee is formed with two men & women residents. They prepare the Hostel menu in consultation with the Warden/Resident Tutor. This inculcates the sense of belongingness and responsibility among the residents. Apart from the Hostel Mess Committee, there are cleanliness and grievance committees. Periodic meetings are organized to discuss issues related to awareness and general maintenance. One panel discussion, two lectures on different issues, poem recitation etc. was also organized.

All four old washing machines have been replaced with new ones, two each for Shree Bhawan and Shakti Bhawan. RO purified drinking water supply attached with water cooler is also available in both the hostels and in the Mess. Wi-fi facility has been provided in Shakti Bhawan.

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## **D. S. KOTHARI HOSTEL**

D.S. Kothari Hostel, named after the late Professor D.S. Kothari, an eminent Physicist and a well-known educationist, was established in 1997, the Platinum Jubilee year of the University of Delhi. It has 39 double occupancy and 19 single occupancy rooms to accommodate postgraduate students and research scholars of the University. The policies of the Hostel are decided by the Managing Committee under the overall guidelines and policies of the University of Delhi. The following developments were achieved between 1 April, 2016 and 31 March, 2017 in the Hostel.

All the National Days and Festivals were celebrated to familiarize the local and international residents with Indian Culture. The Annual Function 'AAHANG-2017' was successfully organised. The Election of Resident Student Union of the Hostel was conducted smoothly.

During this term, the hostel purchased six Washing Machines, Water Cooler, Podium, Wheel Chair for PwD residents and Fly Catcher.

The Flower Show Committee Cup was awarded to the Hostel at the 59<sup>th</sup> Annual Flower Show held on Feb. 23, 2017.

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## **DEPARTMENT OF SOCIAL WORK HOSTEL**

The Department of Social Work (DSW) has its own hostel. With the aim to enrich lives of the residents, the hostel emphasizes on the values of acceptance, quality and promotes tolerant, accommodative and community based living. The hostel is unique in itself because it makes provision for the stay of both men and women pursuing M.A., M.Phil. and Ph.D. in Social Work. Mr. Pratap Chandra Behera, Assistant Professor, Department of Social Work is the Warden. Prof. Manoj Kumar Jha, Head, Department of Social Work is the Provost.

There are 51 single rooms in which 98 students are being accommodated during this academic session. 39 of the hostel residents are women and 59 are men. DSW Hostel has its own interactive website <http://dswh.du.ac.in> which facilitates procurement of all information about the hostel, including Online Admission Application Forms. The facilities provided to residents are R.O. drinking water, T.V. with DTH connection, Wi-Fi Internet facility, an air conditioned common room with sofa sets, newspaper stands and digital clock etc.

The hostel is equipped with fire safety provisions; and disabled-friendly entrances and ramps.

The hostel elected its Hostel Union Club members on 9 Sept., 2016. The members were unanimously elected. The Club organized celebration of National Days and various festivals, such as Lohri, Holi, Eid and Diwali.

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## **GEETANJALI HOSTEL**

Geetanjali Hostel is a Post Graduate hostel in South Campus, Delhi University, which has 51 rooms. Almost 100-105 girls who are either students pursuing Masters or are registered for PhD/MPhil programme have taken admission here on sharing basis. Some scholars from foreign countries are also provided accommodation here.

The hostel organized its Annual Cultural Nite on 24 March, 2017. As in previous years, painting, Creative Writing in Hindi & English, Collage, Photography and various sports competitions were held and the residents were given prizes during the Annual Day celebrations. The residents celebrated Christmas, Lohri, Holi and Diwali with traditional gaiety. They also organized Saraswati puja on the occasion of Basant Panchami. Independence Day was also celebrated with great enthusiasm with the hoisting of National Flag by the Provost followed by a small cultural programme on the patriotic theme, organized by the students in which poems and songs on freedom were read/performed.

A free medical check-up Camp was organized in association with WUS Health Centre, Max Hospital and Heart Institute, Saket on Nov. 10, 2016 in the Hostel. The Residents and staff participated with enthusiasm. The Students and staff of the hostel also participated actively in the 'Swachh Bharat Abhiyan' and continue to do so by participating in cleanliness drives every month.

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## **GWYER HALL**

Gwyer Hall is the oldest and prestigious men's Post Graduate Hostel of the University of Delhi. It was founded in the year 1937 with 26 students. The construction of the Hall was completed in 1948 and in that year, the University Hall was renamed as 'Gwyer Hall' in recognition of the services rendered by Sir Maurice Gwyer, the Vice-Chancellor of the University of Delhi (from 1938-52) and the Chief Justice of the then Federal Court of India.

The distinctive feature of this hostel is that students and faculty members live and dine together. Over the years, Gwyerians have made their presence felt in all walks of life in India and abroad. The hostel takes necessary steps to ensure that the spirit and rich heritage that have survived over the years of its existence continues to flourish.

Admissions: There was a great rush for admission, as in the previous years, for this Hall during the current academic year 2016-2017 too. About 800 applications were received from students pursuing Master's, LL.B., CIC, M.Phil, Ph.D., B.Ed. M.Ed. programme of the University. The Admission Committee, after careful scrutiny, filled up the vacant seats attached to various departments of the University purely on the basis of merit.

Development: The hostel is setting up a new Digital Library for students. A new TV has been installed in the Student's Common Room. One Wheel Chair was purchased for PwD students. Outside area of the Canteen and Gymnasium area have been developed. Wi-Fi facility has been provided to the residents of the Hall by the University.

Union Elections: Election to the various posts of Gwyer Hall was conducted peacefully during the session in accordance with the provision of Lyngdoh Committee. Residents and representatives in the Union remained active in maintaining the peaceful and friendly atmosphere.

Hygienic measures: In order to augment hygienic facilities, steps have been taken to get the overhead water tanks cleaned from time to time. Measures were also taken to ensure cleanliness all over the Hall including Kitchen, Pantry, Store and Toilets on priority.

Festivals and Functions: Gwyer Hall organized periodical speeches by the eminent Professors of different fields on the different topics. The Gwyer Hall won the first prize in the 57<sup>th</sup> Annual Flower Show organized by the University of Delhi.

The Hall residents organized various events to mark and celebrate – Buddha Purnima, Independence Day, Diwali, Christmas, New Year, Republic Day, Saraswati Pujā, Id-Ul-Fitr, Holi and B.R. Ambedkar Birth Anniversary.

Sports: The residents participated in the intra-hostel Volleyball, Cricket, Football, Table Tennis & Badminton Tournament organized by the Gwyer Hall Student's Union.

Facilities for PwD Residents: A Toilet has been constructed for PwD students. A ramp to make seven rooms, Gymnasium and Reading Room accessible for PwD students has also been constructed.

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## **INTERNATIONAL STUDENT'S HOUSE**

The International Students' House was set up in 1964 by Indian Council for Cultural Relations, Ministry of External Affairs for foreign students and postgraduate Indian students. There are 98 rooms and all are single seated. During the academic year 2016-17, 68 foreign students from 30 countries in addition to 30 Indian students were admitted in the House, presenting an amalgamation and diverse mosaic of International and Indian cultures. Because of its international nature, ISH occupies a special position in the hostel system of Delhi University. The present hostel administration includes Prof. Rajeev Gupta as the Provost and Prof. Mahendra Nath as the Warden.

The residents elected Mr. Keshav Ramashaha (Mauritian national) as the President; Mr. Saurabh Garg (Indian National) as the Secretary; and Mr. Ishan Raj Pokharel (Nepal national) as the Treasurer, to the International Students' House Union on Tuesday the Nov. 10, 2016. Various Committees were formed to look after Cultural, Sports, Mess, House, Common Room, Computer Room and other activities of the House. Ever since, its ISH has been acclaimed for its diversified cultural activities since its inception. The House Union 2016-2017 organized the following Cultural events:

A Fresher's welcome party coupled with inauguration of the House Union was arranged on Jan. 14, 2017.

The House celebrated Independence Day, Deepawali, Christmas, New Year's Day, Republic Day, Lohri, Swami Vivekanand Jayanti, Idu'lFitr, Idu'lZuha, Saraswati Pujan and Holi with enthusiasm. These occasions created an opportunity for the International Students to learn about Indian Culture and the Indian students to learn about foreign culture.

The International Students' House Union organized the ISH Sports Competition as well as Intra-Inter Hostel competition in the month of Feb., 2017.

The ISH celebrated its 53rd Annual Day, Milestone '17' on 25 Feb., 2017. Her Excellency, Mrs. Chitrangane Wagiswara, High Commissioner of Sri Lanka to India, was the Chief Guest. During the event including the Alumni Meet, various prizes, honours and certificates were awarded to the deserving residents for sports and cultural activities. Students and artists from various countries including India, Sri Lanka, Fiji, Ethiopia, Cambodia, Indonesia, Nepal, Mauritius, Afghanistan, Thailand and Nigeria entertained the audience with culturally rich

performances. Many distinguished guests from the Delhi University and diplomats attended the colourful event. A special Dinner was organized for the guests and the residents on this occasion.

The year was also marked by the improvement of services to the residents, such as the purchase of two additional geysers, four concrete benches (three seater), chairs for the Reading Room, one electric tandoor, toaster and one room cooler for the Mess.

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## **INTERNATIONAL STUDENTS' HOUSE FOR WOMEN**

The multicultural character of the International Students' House for Women is central to all the activities organized by it. Residents from more than 32 countries jointly celebrate their cultural festivals and important national occasions in the spirit of harmony and friendship. The focus is on unity in diversity.

As in previous year, in 2016-17 the House administration decided to restore and enhance the following facilities:

02 Voltas 2 TON Split AC in the mess

04 Pressure Pump

Hostel also provided following facilities for the residents:

Hostel has 98 well-furnished rooms containing single bed, almirah, mattress, curtain, study table chair etc.

Fully air conditioned library, Common Room, T.V. Room, Lounge Room etc.

Entire Hostel complex is equipped with Wi-fi connection.

RO water coolers are available on all the floors.

Fully equipped pantry with electric heater, microwave, water dispenser, electric kettle & two fridge's one for vegetarian residents & another for non vegetarian residents on all four floors.

Hot water through geyser & solar heating system.

Washing of clothes of all the residents is done by our Laundry Attendant in the Laundry Room which consists of six (06) fully automatic washing machines.

Separate ironing room is also available.

Hostel has its own Gym.

Nescafe Vending Machine

Fully air conditioned mess.

During shut down or power cut electricity is available round the clock through own Genset in the entire complex of the hostel.

Hostel has been providing security round the clock. All precautionary measures are taken from time to time, CCTV is also installed at the gate.

The academic session 2016-17 began with the following activities / festivals:

Orientation Programme was held on the Friday, Oct. 24, 2016 in the Lounge Room of the House.

A Fresher's Party (2016-17) was organized on Saturday, 01-10-2016 with special dinner

Id-Ul-Fitr, Indian Independence Day, Diwali was celebrated with much festivity in a traditional manner. Christmas carols, a bonfire, dance and music brought out the spirit of Christmas for all. A New Year's eve Party was also organized. Lohri was celebrated with a bonfire & dance and Holi with colours. The Holi get-together was followed by light refreshments and dinner. Republic Day was celebrated with flag hoisting, singing of National Anthem followed by special breakfast in the Dining Hall. Sports Day followed the celebrations. Various competitions, games and other activities were conducted between the ISHW residents.

ISHW won the Best Mali Award in the Annual Flower Show, organised by the University of Delhi. The Annual Guest Night function was organized on Feb. 11, 2017. The theme this year was “SATRANGI”. The Chief Guests were Mr. Amarendra Khatua, Secretary M & A, Director General, ICCR. The Programme was chaired by Prof. S. M. Patnaik, Chairman, Managing Committee of ISHW, from Department of Anthropology, University of Delhi. Professor Rajiv Ganda, IIM Bangalore, MP Rajya Sabha & Mr. Sandeep Dikshit, former Member of Pparliament were Guests of Honour on the occasion. More than 400 guests including diplomats from various embassies and friends of residents from Delhi University Colleges were invited. Many guests from the University graced the occasion.

The SWA members organized a Pool party get-together in the hostel on April 9, 2017 followed by light refreshments. A Farewell Party for the residents of the year 2016-17 was given to the outgoing residents who re-lived and narrated the wonderful time they had spent in the House.

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## **JUBILEE HALL**

Jubilee Hall is a prime Hall of residence for full time post graduate & research students of the University of Delhi. It was founded in 1947 on the occasion of the Silver Jubilee of the University. The internal administration & discipline of the Hall is vested in the Provost who is assisted by a Warden and a Resident Tutor.

The Hall performed a number of activities:

Jubilee Hall is the first P.G. Hall/hostel of residents who have started online admission process and fee collection since 2016.

Maintaining its glory, a number of residents were selected for higher posts in All India Competitive Services of the Govt. of India.

To keep harmony and its basic character of “Unity in Diversity” Hall celebrated all festivals vizSaraswatiPooja, Holi, Id, Independence Day, Deepawali and Christmas with lot of gaiety and enthusiasm.

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## **MANSAROVAR HOSTEL**

Mansarowar Hostel is a Men’s Hall of Residence for full-time post-graduate and research students having capacity to accommodate 165 residents coming from various parts of India and abroad for higher studies in University of Delhi.

The Provost is the administrative head of the Hostel. For the administrative purposes, he is assisted by the Warden, who is in-charge of the day-to-day affairs of the hostel and the Resident Tutor, who looks after the extra-curricular activities and general welfare of the residents. The Provost, Warden and the Resident Tutor are appointed by the Vice-Chancellor on behalf of the Executive Council of the University.

A total of 800 forms for admission and registration for admission to hostel were printed, out of this 717 forms were sold to various applicants. The office received 576 forms from the applicants seeking admissions to hostel. 65 students were given admissions as per vacancy. The details of residents in various categories are as follows:

Total No. of Residents: 165; General/OBC Students: 112; SC Students: 25; ST Students: 12; Foreign Students: 08; PH Students: 08

Achievements/Developments: Renovated three guest rooms with new furniture; installed new Fully HD television at Common room for residents; the hostel has become fully Wi-Fi enabled campus; successful running the canteen and photocopy shop in the hostel premises.

Other activities: On the occasion of Independence Day and Republic Day the Provost, Prof. Hirapaul Gangnegi unfurled the flag in the presence of Dr. Sanjoy Roy (Warden), Mr. Saifuddin Ahmad (Resident Tutor), hostel



residents, staff and guests. The festivals– Dusshera, Diwali, Holi, Eid, Saraswati Puja, Christmas, Gandhi Jayanti and Ambedkar Jayanti were also celebrated in the hostel premises.

The hostel Residents' Union organized fresher party and New Year's Day inviting alumni and other guests. It also organized the hostel Annual Fest 'Spandan 2017' on 4 March, 2017. The residents of the hostel participated in various out-door and indoor games during the year.

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## MEGHDOOT HOSTEL

Meghdoot hostel was inaugurated on 23 Sept., 1992. The hostel has a capacity for 100 residents. It has two blocks with 100 rooms. The Hostel organised a number of activities during the academic year 2016-2017. Major among of them are listed below:

The residents and staff celebrated the World Environment Day on 5 June, 2016 under the theme "Sustainable consumption and production". The slogan of the theme was *Seven Billion Dreams. One Planet. Consume with Care.* All staff members and residents attended the occasion which was followed by plantation of tree saplings.

In order to facilitate new residents in the Meghdoot Hostel family; a special fresher party was organized by the senior students of the Hostel Union on 10 Nov., 2016. The election of the Meghdoot Hostel Students Union office bearer, i.e. President, Vice-President, General Secretary, Cultural Secretary, Mess Secretary and Sports Secretary was held on 30 Nov., 2017.

The National Days and other festivals were celebrated with zest. Independence Day flag hoisting was done by the Provost. Swachhata Day was celebrated on Oct. 2, by cleaning and dusting the rooms. On this occasion, the residents and staff members including Provost and Warden took a pledge. The hostel residents celebrated Dussehra festival with *ravandehan*. Deepawali was celebrated traditionally. The residents decided not to burn crackers and celebrated an environment friendly Deepawali. The residents celebrated Christmas on 25 Dec. 2016 with a special dinner and cake. This marked the end of a wonderful year 2016.

Celebration of Lohri, Pongal & Bihu: The residents celebrated the festival together with holy fire and residents circling it wishing for happy and prosperous year. The Warden and Steward lit the holy fire, followed by a Punjabi folk dance session.

The National Flag was hoisted by the Warden on Republic Day and she delivered an enthusiastic and patriotic speech. Sports events were conducted which included games like snake-race, three legged race & tug of war etc. On 12 Feb., 2016 the residents celebrated Basant Panchami. Holi was celebrated in the Hostel premises among the residents. Everyone played a safe and colourful Holi.

Meghdoot Hostel participated in the 59<sup>th</sup> Annual Flower Show by giving different entries of flowers and lawn and was awarded the M.M. Beg Trophy and the Hans Raj College Cup, Shri Ram College of Commerce Cup, the Treasure's Cup at the event and shared the College of Nursing Cup with the Principal S.S.N. College.

The most awaited function of the hostel, Iskra 2017 was organised on 26 Feb., 2017 by the Students Union and saw enthusiastic participation. The theme of the Annual Night Function was Women Empowerment. Ms. Maya John was invited as the Chief Guest for the event. The seniors of batch 2016-2017 were given farewell by their juniors on 17 April, 2017.

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## NORTH EASTERN STUDENTS' HOUSE FOR WOMEN

North Eastern Students' House for Women was established in 2002.

Admission: There are 101 rooms and 1 guest room in the North Eastern Students' House for Women, of which 70% of the seats are reserved for students from the seven states of the North Eastern Region, and 30% of the seats are open for students from other states.

The hostel organized a number of activities and invited visitors. Details are as follows:

On Aug. 15, 2016, Independence Day was celebrated in the hostel. The flag was hoisted by the Housekeeper in the presence of the Provost, Warden, Resident Tutor, Office staff and residents. The old residents of the hostel organized a welcome party for the new residents on Oct. 21, 2016. Diwali was celebrated on Oct. 30, 2016. The hostel was lit up with lights and diyas and decorated with flowers and rangoli done by the residents. Sweets were distributed amongst the residents.

Lohri and Post-Christmas were celebrated by the residents with cutting of cake, performance of a choir and exchange of gifts on Jan. 13, 2017. Republic Day and Sports day was celebrated on Jan. 26, 2017. The flag was hoisted by the Physically Challenged Residents in the presence of Warden and Office staff. A Food Fete was organized by the residents to raise funds for the hostel night on Feb. 12, 2017. The hostel Night function was celebrated on March 10, 2017. D.R. Doley Barman IPS, Director, North Eastern Police Academy was the Chief Guest. The Junior residents of the hostel organized a Farewell party on April 13, 2017 for the old residents.

The hostel provides the following facilities to its residents:

A common room equipped with a LED TV with cable connection, DVD player and Music System. Board games such as chess, carrom, etc. are also available. A reading room provided with magazines, newspapers etc., which can also be used by residents for study purposes. A spacious lobby for visitors and residents is available. A laundry room, equipped with fully automatic washing machines, a Gym, equipped with a weighing scale, stepper, cycle, etc., available for use by the residents between 7:30 a.m. and 9:00 p.m. An outdoor badminton court is there. A total of 4 hotplates, distributed on the various floors are made available to the residents. Three refrigerators for non-vegetarians and two for vegetarians, placed near the common room for use by the residents. A LED TV in the dining hall. A well-maintained garden is a special feature of the Hostel. A Bus Service to ferry the students from the hostel in the Dhaka complex to the Delhi University campus and back is available. 12 computers, equipped with broadband connection and housed in an air-conditioned computer room. Round the clock hot water supply through solar power heating is available. Two Hot & Cold water dispensers And four Microwave ovens are available to the residents.

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## **POST GRADUATE MEN'S HOSTEL**

P.G. Men's Hostel was inaugurated by Professor R.C. Mehrotra, the Vice-Chancellor Oct. 24, 1975 with 100 single bedded rooms. The hostel provides boarding, lodging and other facilities to 100 full-time, post-graduate male students of the University of Delhi. It has a library with a capacity of sixty seats, a computer lab with twenty internet connected computers and a heavy duty printer, all are air-conditioned, a modern gym, laundry room with semi-automatic washing machines, solar water geysers, a newspaper room, a magazine room, a mini canteen, photocopy outlet and two badminton courts.

During the year 2016-17, the following events were organised:

Lecture on Ambedkar Jayanti on 14.04.2016 by Prof. Manoj Jha, Dept. of Social Work, University of Delhi.

Ajit Singh Yadav Memorial Debate held on 22.04.2016 on the topic: Make in India: The Road to Development.

Lecture on Buddha Purnima on 17.05.2016 by Prof. H.P. Gangnegi, Department of Buddhist Studies.

Eid and Iftar Party hosted on 27.06.2016.

Flag hoisting ceremony was held on Independence Day i.e. 15.08.2016

A cleanliness drive was organized with the help of the staff and residents of the hostel in the hostel on 2nd Oct. 2016 as a part of Swachchh Bharat Abhiyan, launched by Govt. of India. 20 plants were planted by the Hostel Administration and residents of the hostel.

Admission to the hostel for the session 2016-17 was made.

Freshers welcome party/DJ night organized on 26.10.2016

Diwali festival celebrated by the hostel on 30.10.2016

New Year eve and DJ Night celebrated by the hostel on 31.12.2016.

Lohri festival was celebrated by the hostel on 13.01.2017.

Flag hoisting ceremony was held on Republic Day i.e. 26.01.2017

Election of Residents Council was conducted on 30.01.2017.

Saraswati Puja was celebrated on 01.02.2017

Holi festival was celebrated on 13.03.2017.

Intra Hostel Sports meet was held from 24.03.2017 to 26.03.2017.

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## **RAJIV GANDHI HOSTEL FOR GIRLS**

The Rajiv Gandhi Hostel for Girls (RGHG) is a very spacious and beautiful Hostel situated at Dhaka Hostel Complex, Mukherjee Nagar. The Hostel building was constructed by University of Delhi with financial assistance from Ministry of Development of North Eastern Region (MDONER/NEC) and Ministry of Tribal Affairs (MTA). The then Vice Chancellor, Prof. Dinesh Singh inaugurated the Hostel Complex on 28 June 2012. This Hostel started functioning in July 2012.

The Hostel Complex is by and large a self-sustained residence for women students (post graduate and research scholars) from North East and other parts of India pursuing the education in University of Delhi. The Hostel is divided into 8 clusters, each independent in terms of water supply, rest rooms etc. Each cluster has four floors having a pantry facility in alternate floors.

### **Administration and Management:**

The Hostel is managed by a Managing Committee constituted by the University. The Chairperson of the Managing Committee is nominated by the Honorable Vice Chancellor. Major administrative decisions regarding the fee structure, appointment of contractual staff, some issues related to the residents are discussed with the managing committee. Regular meetings, at least two in each academic session, with the managing committee are arranged for sorting out administrative issues and to obtain feedbacks regarding the functioning of the hostel. The internal administration and discipline of the hostel is vested in the Provost. The Provost is assisted by the Warden and Resident Tutors in looking after the day to day activities.

Administrative assistance is provided by contractual office Staff at the level of section officer and Jr. Asstt. Two Caretakers are employed to take care of all the essential services like water, electricity, civic work etc. The Housekeepers (HK) are responsible for the Mess matters and attendance of the residents. Cleanliness and maintenance is taken care of by the sanitation services provided by the Sulabh International Social Services Organization. To ensure the safety and security of the residents, the security service personals provided by Knight Watch is employed.

### **Facilities:**

There are 386 rooms on twin sharing basis. The Hostel can accommodate 772 students. All rooms are spacious ventilated for the comfortable stay of Hostel residents. All rooms have ceiling fans. Each resident provided with beds one built-in wardrobe/almirah, book rack mounted on the wall. Every room has a mirror.

### **Wash Rooms:**

Fitted with hot/cold water supply, and mirror is available in each bathroom.

### **Sports Facilities:**

The Hostel provides facilities like Basketball courts, Badminton Courts, Table Tennis, Gymnasium/cycle, Yoga, Indoor Games – Carom, Ludo, Chess etc.

### **Recreational/Leisure time facilities:**

There is a spacious common room equipped with recreational facilities such as big screen colour TV with cable connection etc. A projector has been installed to facilitate the residents to arrange for seminars or to view cultural programme. Reading Room and Library are available for residents.

### Visitors Hall

There is a well-furnished visitor's room where residents may receive relatives and friends. A LED big screen color TV with cable connection is installed in the visitor hall.

### Mess and Dining Hall:

The mess is run by caterers on contract basis. The Hostel has well maintained dining hall with independent kitchen and hygienic cooking facilities and safe drinking water. Healthy and hygienic food for every resident is provided in the mess.

### Tuck Shop:

There is a Tuck shop in the Hostel which runs on contract basis providing residents tea, coffee, cold drinks and other hygienic light food items as per the requirement of the residents.

### Medical Facilities:

The residents of the Hostel get an opportunity to be enrolled as member of the WUS Health Centre maintained by the University of Delhi. WUS provides facilities to all types of basic as well as emergency health treatment. Besides there is a medical room equipped with first aid facilities maintained by the Hostel to help residents at odd hours. In case of medical emergency, the resident is taken to the nearest available Hospital, the local guardian is informed and is required to take charge of his/her ward immediately.

### Lawns and Gardens:

The Hostel has well maintained lawns and gardens that add beauty of the Hostel. It is to be mentioned that the hostel participated in the University Flower Show in 2014, 2015 and 2016 has won the coveted Library Cup and Lady Shri Ram College for Women Cup consecutive three years

### Additional facilities:

CCTV Cameras; Guest Rooms; 24-hour security; Reverse osmosis (RO)+water cooler drinking water; Tailoring, Ironing and parlor facility available for the Hostellers; visitor Room is equipped with AC, placing visitor sofa and center tables; concrete cement Benches placed in the open space and in the lawns, Wi-Fi facility is procured for the residents of the Hostel.

Hostel started providing psychological counseling service for the benefit of the residents.

Hostel has developed its website [www.rghg-du.in](http://www.rghg-du.in) to start online admission process.

### Admission

Sale of Information Bulletin for session 2016-17 commenced on 14 July 2016. The session started with the election of Students Welfare Association (SWA). During this period, various Cultural activities were held in the hostel with the help of some volunteers and the cultural committee from the residents and the hostel authorities.

### Distribution of Seats

The total number of seats in the Hostel is 772. The distribution of seats categories wise is as follow:

For the students from NE states including ST students (Post Graduate only): 300 seats

For ST students including those from North-Eastern states: 200 seats

For general and other reserved categories (Post graduate only): 232 seats

Under Exchange programme (National & International): 40 seats

### Self Defence Techniques Winter Camp:

In view of growing violence against women, the special unit for women and children of Delhi Police organized Self Defence Techniques Winter Camp 2016-17 for girl students from Dec. 24, 2016 to Jan. 10, 2017 in the Rajiv Gandhi Hostel for Girls. About 300 participants both from the hostel and outside were present. In view of the increasing need to give special consideration to women, the special police unit trained girls students in basic self defence techniques and taught how to make use of things like dupatta, pen, handbags and other items available with them to protect themselves from attacked by antisocial elements/criminals, snatchers etc. This training helps in building the

self-confidence girls/women so that they do not feel vulnerable and also encourage them to join professional combat courses in future. Self Defence training was imparted by the expert trainers under the supervision of Inspector Asha Thakur. Besides, various cultural programmes and Nukad Natak were also presented during the training period.

Students Welfare Association (SWA):

The residents participate in the smooth and efficient functioning of the Hostel to contribute to a harmonious community life. The President, General Secretary and other secretaries are responsible for the daily functioning and residents' welfare in the Hostel.

Cultural Activities:

The National Days, Independence & Republic Days were celebrated by the residents by hoisting the National Flag, followed by singing of the "National Anthem" Sweets distributed among the residents and the staff. A freshers' welcome party was organized with the residents, office staff and hostel Authorities. The Diwali Celebration included the lighting up of the hostel building and a special dinner. The Christmas Celebrations during winter break was celebrated with fun fare. Lohri, Saraswati Pooja and Holi were also celebrated traditionally.

Under the guidance of Hostel authorities one of the major and grant event, the Annual Hostel day "RAGAAZ - 2016" was organized on 05 March, 2017. Prof. Devesh K. Sinha, Dean of Colleges, University of Delhi was the Chief Guest. The cultural aspects of different states of India were demonstrated by the excellent dance performances by the residents. It was then followed by dinner.

Repairs and Maintenance:

Cleaning of sewer/drainage system was carried out. Ceiling Fans and water coolers, coolers of dining hall were repaired. Annual maintenance contract of all RO System was awarded. Meetings with the senior officers, engineers of the University were regularly held. These meetings were on various issues related to improvement of the Hostel. With appropriate planning and with the help of the hostel management committee and the University authorities, along with the contribution from the residents, further improvements are expected during the next academic session. The Hostel is in a path of development to provide a homely feeling to its residents in both security and facility.

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## **SARAMATI POST GRADUATE MEN'S HOSTEL**

The Saramati Post Graduate Men's Hostel started functioning on 1 Oct. 2002. It provides residential facility to the students from the north eastern parts of the country studying in University of Delhi as well as other students pursuing academic programmes and bonafide students of South Campus. It is one of the well-equipped hostels of the University.

It has the capacity to accommodate about 130 students and has a spacious dining hall. Each resident in the hostel is provided with a bed, mattress, study table, chair, shoe rack and curtains. The hostel provides quality food and quality of the food is constantly monitored. The hostel has a double occupancy air-conditioned guest room, a spacious recreation facility and a reading room. The landscape around the hostel has added to the beauty of the hostel campus.

The hostel has a separate computer lab, which is connected to the university network system to provide computing and internet facility to the residents. During the year 2016-17 internet facility is modernized to provide faster and more secure network using the state of art Wi-Fi infrastructure. Latest computers and wireless network system have been installed to provide online internet/intranet connectivity to all the residents. The hostel provides excellent sports facilities with indoor and outdoor games like a well-equipped gym, table tennis, badminton, chess and carom etc. Hostel organizes games at the end of the academic session and winners are encouraged with prizes and trophies on the annual day function. A laundry facility with automatic washing machine and dryer is also available for the residents. The security in the hostel was enhanced during 2015-16 with the installation of CCTV Cameras and during 2016-17, three more CCTV Cameras has been added.

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## **UNDER GRADUATE HOSTEL FOR GIRLS**

The hostel was established in Oct., 2012. The hostel is aesthetically designed in a wide campus with 7 blocks and a total of 344 rooms on double occupancy. In the session 2016-17, a total of 448 students belonging to various colleges and categories, were admitted to the hostel.

It is the first hostel to accommodate students from 49 Colleges/ Departments comprising both the North and South Campus of Delhi University. The hostel is equipped with sports facilities, a reading room, gym, well-furnished common room with LCD facility, visitor's room, computer facility and a well-equipped medical room with a nurse on duty and doctor's visits thrice a week. Apart from these, a hygienically maintained dining place has been added. Moreover, there are well-maintained lawns for use of the residents.

Independence Day, Republic Day, Diwali, Christmas, Lohri and Holi were celebrated in the Hostel. The Freshers' and Farewell functions were also organized by the residents. International Women's Day was celebrated on March 8, 2017.

The entire building is under CCTV surveillance.

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## **UNIVERSITY HOSTEL FOR WOMEN**

Established in the year 1973, University Hostel for Women (UHW) is an important landmark of the University of Delhi. The Hostel has a capacity of 320 seats for post graduate & research women students hailing from various parts of the country and abroad, and provides ample opportunities and occasions for blossoming of the resplendent spirit of womanhood. The hostel was under renovation since 2012 & reopened with partial admissions in the academic session 2016-2017.

It has always been in the tradition of UHW to hold several functions and celebrations. The following celebrations were organized in 2016-2017:

Independence Day was celebrated on 15 Aug. 2016. All authorities, residents and staff joined the country in its celebration of Independence Day by singing National Anthem and other patriotic songs.

In accordance with the drive of Swachh Bharat Abhiyan programme on 2 Oct., 2016, University Hostel for Women (UHW) took initiative and continued to keep the premises and surrounding areas clean. The entire hostel staff and residents participated in the cleanliness drive. On 30 Oct., 2016, Diwali was celebrated. The residents decorated the hostel with diyas and were treated special meal.

On 26<sup>th</sup> Jan. 2017, Republic Day celebrations began with flag hoisting followed by singing of National anthem, patriotic songs and dance by the residents and karamcharis. Resident Association Election for session 2016-2017 were held on 31<sup>st</sup> Jan. 2017 in UHW hostel and the Resident Association was formed following due procedure. Residents celebrated Lohri, Saraswati Pooja (Vasant Panchmi) and Holi traditionally. Thanksgiving and Sports day was organized on 4 March, 2017. To acknowledge the staff for their dedicated service, residents organized thanksgiving lunch for staff and their families. The afternoon witnessed more fun and laughter as the hostellers, staff and their families participated in games and competitions.

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## **V. K. R. V. RAO HOSTEL**

V.K.R.V. Rao Hostel, named after late Professor Dr. V.K.R.V. Rao, was established in 1999. Its foundation was laid in the Platinum Jubilee Year of the University of Delhi. The Hostel is located within the campus of Gwyer Hall and entrance is from the University Road. It has 42 doubled occupancy and 24 single occupancy rooms for the students and research scholars from the Faculty of Management Studies (FMS) and Delhi School of Economics (DSE), University of Delhi.

The Provost is the Administrative Head of the Hostel. For internal administration and day to day discipline, he is assisted by the Warden and the Resident Tutor who take care of the extra-curricular activities and general welfare of residents. The Provost, Warden, Resident Tutor are appointed by the Executive Council of the University. The V.K.R.V. Rao Hostel has a short but cherished history of producing eminent managers, scholars, bureaucrats who serve the Nation in all the frontiers.

The residents of the hostel celebrated all National Days and festivals with gaiety and fervor to mark an atmosphere of national integrity and cultural amalgamation.

The session started with celebration of Independence Day with hoisting of the tri-colour flag. The festival of Diwali witnessed pomp and illumination at the premises. Freshers' welcome was organised to welcome the new residents in the hostel. The Hostel residents celebrated Republic Day with ceremonial hoisting of tri-colour flag. They also celebrated Lohri with lot of enthusiasm. Further, the residents performed Saraswati Puja on the day of Basant Panchami and organized a function of recital of hymns to evoke the Goddess of learning.

Hostel Annual Culture extravaganza UMANG-16 was celebrated on 11 March, 2017. The Chief Guest was Mr. Chinmoy Biswal, Additional Deputy Commissioner, Delhi Police (IPS). A number of dignitaries, guests and students from other hostels graced the occasion. Later on, the residents with their guests enjoyed the evening with a get-together over dinner. The hostel carried out Swachhta Abhiyan in a big way.

Student facilities like washing machines and coffee dispensers were installed. Reading room was also refurbished. The hostel streamlined many administrative processes like admissions, purchases, deposition of fee, revenue collection and generation through possible and reasonable means. Overall, the year has been productive and full of growth and collective enthusiasm at the VKRV Rao hostel.

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## **WUS UNIVERSITY HOSTEL**

The WUS University Hostel is Residence for Women, Teachers of the University, Visiting Teachers and Post-Doctoral Researchers, with a capacity of 18 Rooms. The Hostel was taken over by the University from the World University Services in 1990. Prof. Sreemati Chakrabarti is looking after the administration of the Hostel.

The following facilities have been provided to the residents:

Visitor's Room (Air conditioned), Colour T.V., Refrigerators, Newspapers (Hindi and English), Water Cooler, Computers.

The residents celebrate the various festivals like Diwali, Christmas, Holi, New Year etc.

The Mess is run by the residents on co-operative basis.

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## ANNUAL ACCOUNTS FOR THE YEAR 2016-17

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Sl. No.	Name of Statement
<b>A.</b>	<b>University of Delhi</b>
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2	Income and Expenditure Account
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4	Schedule forming Part of Income & Expenditure: Schedule 9,10,11,12,13,14,15,16,17,18,19,20,21,22.
5	Significant Accounting Policies: Schedule 23
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7	Receipts & Payments Account
<b>B.</b>	<b>Provident Fund Account</b>
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9	Income and Expenditure Account
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**BALANCE SHEET AS ON 31ST MARCH, 2017**

SOURCES OF FUNDS	Schedule	Amount in ₹	
		Current Year	Previous Year
<b>CORPUS/CAPITAL FUND</b>	1	-----	-----
<b>DESIGNATED/ EARMARKED/ ENDOWMENT FUNDS</b>	2	5895188592	5357432601
<b>CURRENT LIABILITIES &amp; PROVISIONS</b>	3	26472963908	26232916117
<b>TOTAL</b>		<b>32368152500</b>	<b>31590348718</b>
<b>APPLICATION OF FUNDS</b>			
<b>FIXED ASSETS</b>			
Tangible Assets	4	1445275815	1277695518
Intangible Assets		3192579	4989982
Capital Works-in-Progress		4065825877	4065825877
<b>INVESTMENT FROM EARMARKED / ENDOWMENT FUNDS</b>			
Long Term	5	247983000	345583000
Short Term			
<b>INVESTMENT – OTHERS</b>	6	-----	-----
<b>CURRENT ASSETS</b>	7	11451056645	10827860131
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	8	3341361463	4643845213
<b>CORPUS/CAPITAL FUND</b>		11813457121	10424548997
<b>TOTAL</b>		<b>32368152500</b>	<b>31590348718</b>
Significant Accounting Policies	23		
Contingent Liabilities and Notes on Accounts	24		

**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2017**

<b>Particulars</b>	<b>Schedule</b>	<b>Amount in ₹</b>	
		<b>Current Year</b>	<b>Previous Year</b>
<b><u>INCOME</u></b>			
Academic Receipts	9	954040785	1029225856
Grants / Subsidies	10	4535349679	4703623481
Income from investments	11	44491931	18720318
Interest earned	12	10757610	12445873
Other Income	13	62984521	80645038
Prior Period Income	14	-----	-----
Increase/Decrease in Stock		31819874	-----
<b>TOTAL (A)</b>		<b>5639444400</b>	<b>5844660566</b>
<b><u>EXPENDITURE</u></b>			
Staff Payments & Benefits (Establishment expenses)	15	5533672533	4582273832
Academic Expenses	16	503322960	503574198
Administrative and General Expenses	17	805128377	817018758
Transportation Expenses	18	6936509	3654582
Repairs & Maintenance	19	199850205	188886402
Finance costs	20	443563	376220
Depreciation	4	414037702	290791961
Expenditure on Grants, Subsidies etc.	21	161486328	291954779
Prior Period Expenses	22	1195708575	16843799499
<b>TOTAL (B)</b>		<b>8820586752</b>	<b>23522330231</b>
<b>Balance being excess of Income over Expenditure ( A- B )</b>		(3181142352)	(17677669665)
<b>Transferred to / from Designated Fund</b>			
<b>Balance Being Surplus/(Deficit) Carried to Capital Fund</b>		<b>(3181142352)</b>	<b>(17677669665)</b>
Significant Accounting Policies	23		
Contingent Liabilities and Notes on Accounts	24		

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

<b>SCHEDULE 1 - CAPITAL FUND</b>		<b>Amount in ₹</b>	
		<b>Current Year</b>	<b>Previous year</b>
Balance at the beginning of the year		(10424548997)	6990180640
Add: Contributions towards Corpus/Capital Fund - Plan A/c		----	----
Add: Contributions towards Corpus/Capital Fund		----	----
Add: Grants from UGC, Government of India and State Government to the extent utilized for capital expenditure			
(a) Plan Accounts	1661021233		90362873
(b) Non-Plan Accounts	<u>71957191</u>	1732978424	<u>81536928</u>
Add: Assets Purchased out of Earmarked Funds			
(a) Miscellaneous Accounts	8393305		15750330
(b) Other Earmarked Funds	<u>4324697</u>	12718002	<u>52850925</u>
Add: Assets Purchased out of Sponsored Projects, where ownership vests in the institution			
Add: Assets Donated/Gifts Received	1199		2415
Add: Assets of Project Closed	30189637		23920291
Add: Other Additions	<u>-----</u>	30190836	<u>-----</u>
Add: Adjustment related to Unspent Balance		16705058	----
Less: W.D.V. of assets disposed off during the year		(358092)	(1483734)
Add: Excess of Income over expenditure/(Excess of Expenditure over Income) transferred from the Income & Expenditure Accounts		<u>(3181142352)</u>	<u>(17677669665)</u>
<b>Balance at the year end</b>		<b>(11813457121)</b>	<b>(10424548997)</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 2 -  
DESIGNATED/EARMARKED/ENDOWMENT  
FUNDS**

Amount in ₹

Particulars	Funds wise breakup				Total	
	Misc. A/c	Publication	Endowment Funds	Other Earmarked	Current Year	Previous Year
<b>A.</b>						
a) Opening balance	670522502	5135461	697950118	3983824520	5357432601	4921753268
b) Additions during the year	-----	-----	-----	-----	0	0
c) Income from investments made of the funds	11314617	286332	44383474	153109639	209094062	270254249
d) Accrued Interest on investments/Advances	31751425	73833	13183767	135363480	180372505	113465367
e) Interest on Savings Bank a/c	1737628	22819	843468	6763878	9367793	21116350
f) Other additions (Specify nature)	182235373	-----	48943392	371416777	602595542	822965530
<b>Total(A)</b>	<b>897561545</b>	<b>5518445</b>	<b>805304219</b>	<b>4650478294</b>	<b>6358862503</b>	<b>6149554764</b>
<b>B.</b>						
<b>Utilization/Expenditure towards objectives of funds</b>						
i) Capital Expenditure	8393305	-----	-----	4324697	12718002	68601255
ii) Revenue Expenditure	308416459	19	8912832	133626599	450955909	723520908
<b>Total(B)</b>	<b>316809764</b>	<b>19</b>	<b>8912832</b>	<b>137951296</b>	<b>463673911</b>	<b>792122163</b>
<b>Closing balance at the year-end (A-B)</b>	<b>580751781</b>	<b>5518426</b>	<b>796391387</b>	<b>4512526998</b>	<b>5895188592</b>	<b>5357432601</b>
<b>Represented by</b>						
<b>Cash And Bank Balances</b>						
Current Accounts	16275001	-----	-----	-----	16275001	3940860
Saving Accounts	30509597	844593	39165680	345094217	415614087	363170776
Investments	18000000	300000	185600000	44000000	247900000	345500000
Fixed Deposit	464353383	4300000	558350000	3897446765	4924450148	4436580610
Interest accrued but not due	46229463	73833	13192707	137709010	197205013	119198173
Shares	-----	-----	83000	-----	83000	83000
Other Loan & Advances	1433337	-----	-----	17828471	19261808	28510647
Loan from UDF to Misc.	-----	-----	-----	60000000	60000000	50000000
LC Margin	3951000	-----	-----	-----	3951000	-----
Electricity Deposits	-----	-----	-----	9409500	9409500	9409500
TDS's Refundable	-----	-----	-----	1039035	1039035	1039035
<b>Total</b>	<b>580751781</b>	<b>5518426</b>	<b>796391387</b>	<b>4512526998</b>	<b>5895188592</b>	<b>5357432601</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 2A - ENDOWMENT FUNDS**

**Amount in ₹**

1. Sr. No.	2. Name of the Endowment	Opening Balance		Additions during the Year		Total		9 Expenditure on the object during the year	Closing Balance		Total (10+11)
		3. Endowment	4. Accumulated Interest	5. Endowment	6. Interest	7. Endowment (3+5)	8. Accumulated Interest (4+6)		10. Endowment	11. Accumulated Interest	
1	Sir Shankar Lal Instt. Of Music (298355)	2273923	137296	0	218907	2273923	356203	92531	2273923	263672	2537595
2	Shri Sri Ram Chair in physic (298399)	7061549	1205888	0	710710	7061549	1916598	0	7061549	1916598	8978147
3	Shri Shankar Lal Chair in Chemistry (298402)	7893989	1358315	900000	779693	8793989	2138008	900000	7893989	2138008	10031997
4	IFC Chair in Faculty of Mgmt. studies (298683)	13863470	2574647	0	1425291	13863470	3999938	58	13863470	3999880	17863350
5	SP Jain Advanced Mgmt. Research (299041)	1952868	290890	6777	178614	1959645	469504	29	1959645	469475	2429120
6	Pt. Man Mohan Nath Dhar (298956)	1265507	210997	0	117748	1265507	328745	0	1265507	328745	1594252
7	Professorship in Economics (298741)	12971931	2342192	0	1321261	12971931	3663452	29	12971931	3663423	16635355
8	Publication of Orient Insect (299416)	550899	78014	0	54894	550899	132908	0	550899	132908	683807
9	DU Endowment Fund (299733)	182534901	21143072	46772003	17848067	229306904	38991139	2961665	229306904	36029474	265336378
10	Pt. Man Mohan Krishnan Kaul (299880)	1527132	244597	0	135824	1527132	380421	29	1527132	380392	1907524
11	Book grant RTL (300228)	274494357	32609490	131005	25016581	274625362	57626071	561113	274625362	57064957	331690319
12	DU Amway Professorship in Enter. Dev. (300705)	11437894	1751842	0	1126171	11437894	2878013	0	11437894	2878013	14315907
13	Cluster Innovation Centre Corpus Fund	100280000	13408904	77419	9396432	100357419	22805336	1279021	100357419	21526315	121883734
14	MHRD IPR CHAIR	2485555	0	1056188	80516	3541743	80516	3118357	503902	0	503902
	<b>Total</b>	<b>620593975</b>	<b>77356143</b>	<b>48943392</b>	<b>58410709</b>	<b>669537367</b>	<b>135766853</b>	<b>8912832</b>	<b>665599526</b>	<b>130791861</b>	<b>796391387</b>

Notes

- 1 The total of Colum's 3 & 4 will appear as the Opening Balance in the Column "Endowment Funds" in Schedule2, of Earmarked Funds forming part of the Balance Sheet.
- 2 The total of Col.9 should normally be less than the total of Col. 8, as only the interest is to be used for the expenditure on the object of the endowments. ( except Endowments for Chairs)
- 3 There should not normally be a debit balance in the schedule. If in a rare case, there is a debit balance against any of the Endowment Funds, the debit balance should appear on the Assets side of the Balance Sheet as "Receivables", in Schedule-8 Loans, Advances & Deposits.

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

<b>SCHEDULE 3 - CURRENT LIABILITIES &amp; PROVISIONS</b>	<b>Amount in ₹</b>	
	<b>Current year</b>	<b>Previous Year</b>
<b>A. CURRENT LIABILITIES</b>		
1. Deposits from staff	----	----
2. Deposits from students	----	----
3. Sundry Creditors		
a) For Goods	13051003	19168355
b) Others	----	----
4. Deposit-others (including EMD ,Security Deposit)	378068	378068
5. Statutory Liabilities (GPF,TDS,WC TAX,CPF,GIS,NPS)		
a) Other Bodies Transaction	2027012	719883
b) Duties & taxes	16853	16593
6. Other Current Liabilities		
a) Salaries	----	----
b) Receipts against Sponsored Projects	1386557463	1270313169
c) Receipts against Sponsored Fellowships & Scholarships	73570373	35279562
d) Unutilized Grants	5721197188	7146469470
e) Amount Refundable to UGC	17029739	15873025
f) Grants in advance	----	----
g) Other funds	84622514	67972682
h) ACBR Liabilities	----	----
i) Other liabilities	468858	56000000
<b>Total (A)</b>	<b>7298919071</b>	<b>8612190807</b>
<b>B. Provisions</b>		
1. For Taxation	----	----
2. Gratuity	1120240441	1086698993
3. Superannuation Pension	16984796238	15517616630
4. Accumulated Leave Encashment	1054065434	1015840343
5. Trade Warranties/Claims	----	----
6. Others (Specify)/Expenses Payable	14942724	569344
<b>Total (B)</b>	<b>19174044837</b>	<b>17620725310</b>
<b>Total (A+B)</b>	<b>26472963908</b>	<b>26232916117</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE - 3 (a) SPONSOREPROJECTS**

Amount in ₹								
1. Sr. No.	2. Name of the Project	Opening Balance		5. Receipts/Recoveries during the year	6. Total	7. Expenditure during the year	Closing Balance	
		3. Credit	4. Debit				8. Credit	9. Debit
1	Research Scheme A/c (298650)	406681435		161378265	568059700	132395811	435663889	
2	IASE Scheme A/c (Edu.) (295853)	1632311		2525000	4157311	1805266	2352045	
3	Research Scheme A/c (SDC)( 546386)	616195766		274708715	890904481	258700635	632203846	
4	B.R.A. Project A/c (298264)	40453369		29874880	70328249	31517317	38810932	
5	Young Research Scientist A/c (298593)	185046722		137764409	322811131	74168318	248642813	
6	CEMDE\Bio-Diversity Park (DDA)	20303566		65185093	85488659	56604721	28883938	
<b>Total</b>		<b>1270313169</b>		<b>671436362</b>	<b>1941749531</b>	<b>555192068</b>	<b>1386557463</b>	

1. The Projects may be listed agency-wise, with sub-totals for each agency.
2. The total of Col. (credit) will appear under the above head on the liabilities side of the Balance Sheet (Schedule 3).
3. The total of Col. 9 (Debit) will appear as Receivables in Schedule 8, Loans, Advances and Deposits, on the Assets side of the Balance Sheet.

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 3(b) SPONSORED FELLOWSHIPS AND SCHOLARSHIPS**

1 Sr. No.	2.Name of Sponsor	Amount in ₹					
		Opening Balance As on 01.04.16		Transactions During the year		Closing Balance As On 31.03.17	
		3 CR.	4 DR.	5 CR.	6 DR.	7 CR.	8 DR.
1	CSIR Fellowship (298413)	14840013		102967217	76480325	41326905	
2	UGC Fellowship (298560)	0	21812589	192636226	202015849	0	31192212
3	Other Bodies Scholarship (298707)	19359725		48552297	40625425	27286597	
4	CSIR Fellowship (SDC) (545269)	271778		12500000	11315452	1456326	
5	UGC Fellowship (SDC) (545258)	808046		7400000	4707501	3500545	
<b>Total</b>		<b>35279562</b>	<b>21812589</b>	<b>364055740</b>	<b>335144552</b>	<b>73570373</b>	<b>31192212</b>

Note:

1. The total of Column 7, (Credit) will appear under the above head, on the liabilities side of the Balance Sheet (Schedule 3).
2. The total of Column 8 (Debit) will appear as Receivables on the Assets side of the Balance Sheet in Schedule 8 (Loans, Advances and Deposits).



**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 3(c ) UNUTILISED GRANTS FROM UGC, GOVERNMENT OF INDIA AND STATE GOVERNMENTS**

	Amount in ₹	
	Current Year	Previous Year
<b>A. Plan grants: Government of India</b>		
Balance B/F		
Add: Receipts during the year		
<b>Total(a)</b>	0	0
<b>Less: Refunds</b>		
<b>Less: Utilized for Revenue Expenditure</b>		
<b>Less: Utilized for Capital Expenditure</b>		
<b>Total (b)</b>	0	0
<b>Unutilized carried forward (a-b)</b>	0	0
<b>B. UGC grants Plan</b>		
Balance B/F	7146469470	7156385397
Add: Receipts during the year	507825821	526128355
<b>Total(c)</b>	7654295291	7682513752
<b>Less: Refunds</b>	0	
<b>Less: Utilized for Revenue Expenditure</b>	272076870	445681409
<b>Less: Utilized for Capital Expenditure</b>	1661021233	90362873
<b>Total (d)</b>	1933098103	536044282
<b>Unutilized carried forward (c-d)</b>	<b>5721197188</b>	<b>7146469470</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**C. UGC Grants non-Plan**

Balance B/F			
Add: Receipts during the year		4335230000	4339479000
	<b>Total(e)</b>	4335230000	4339479000
<b>Less: Refunds</b>		0	0
<b>Less: Utilized for Revenue Expenditure</b>		4263272809	4257942072
<b>Less: Utilized for Capital Expenditure</b>		71957191	81536928
	<b>Total (f)</b>	<b>4335230000</b>	<b>4339479000</b>
<b>Unutilized carried forward (e-f)</b>		0	0
<b>D. Grants from State govt.</b>			
Balance B/F		0	0
Add: Receipts during the year		0	0
	<b>Total(g)</b>	0	0
<b>Less: Refunds</b>			
<b>Less: Utilized for Revenue Expenditure</b>		0	0
<b>Less: Utilized for Capital Expenditure</b>		0	0
	<b>Total (h)</b>	0	0
<b>Unutilized carried forward (g-h)</b>		0	0
<b>Grand Total(A+B+C+D)</b>		<b>5721197188</b>	<b>7146469470</b>

Notes:-

Unutilized grants includes advances on Capital Account

Unutilized grants include grants received in advance for the next year

Unutilized grants are represented on the Assets side by Bank balances, Short term Deposits with Banks and Advances on Capital Account

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 4 - FIXED ASSETS**

Amount in ₹

Sr. No.	Assets Heads	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation to prior period	Depreciation for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
1	Land		19716892	0	0	19716892		0	19716892	19716892
2	Site Development/Minor work		0	0	0	0		0	0	0
3	Buildings	5%	719893102	8209007	0	728102109		36405105	691697004	719893102
4	Roads & Bridges		0	0	0	0		0	0	0
5	Tube wells & Water Supply		0	0	0	0		0	0	0
6	Sewerage & Drainage		0	0	0	0		0	0	0
7	Electrical installation and equipment		0	0	0	0		0	0	0
8	Plant & Machinery	20%	214081968	61223031	312526	274992473		54998495	219993978	214081968
9	Scientific & Laboratory Equipment	40%	115669363	89462232	3878	205127717		82051087	123076630	115669363
10	Office Equipment		0	0	0	0		0	0	0
11	Audio Visual Equipment	50%	423315	471384	1	894698		447349	447349	423315
12	Computers & Peripherals	40%	75227665	1552440675	5696	1627662644	1195708575	172781628	259172441	75227665
13	Furniture, Fixtures & Fittings	25%	89726629	33785361	32967	123479023		30869756	92609267	89726629
14	Sports Equipment	50%	57547	0	0	57547		28774	28773	57547
15	Vehicles	25%	1772754	0	2999	1769755		442439	1327316	1772754
16	Lib. Books & Scientific Journals	50%	37816283	29976069	25	67792327		33896163	33896165	37816283
17	Small Value Assets		0	0	0	0		0	0	0
18	Work of Art		3310000	0	0	3310000		0	3310000	3310000
<b>Total (A)</b>			<b>1277695518</b>	<b>1775567759</b>	<b>358092</b>	<b>3052905184</b>	<b>1195708575</b>	<b>411920796</b>	<b>1445275815</b>	<b>1277695518</b>
19	<b>Capital Work in Progress (B)</b>		<b>4065825877</b>	<b>0</b>	<b>0</b>	<b>4065825877</b>		<b>0</b>	<b>4065825877</b>	<b>4065825877</b>

  

Sr.No	Intangible Assets	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation to prior period	Amortization for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
20	Computer Software	40%	4972221	291343	0	5263564		2105426	3158138	4972221
21	E-journals	25%	0	0	0	0		0	0	0
22	Patents	25%	17761	28160	0	45921		11480	34441	17761
<b>Total (C)</b>			<b>4989982</b>	<b>319503</b>	<b>0</b>	<b>5309485</b>		<b>2116906</b>	<b>3192579</b>	<b>4989982</b>
<b>Grand Total (A+B+C)</b>			<b>5348511377</b>	<b>1775887262</b>	<b>358092</b>	<b>7124040546</b>	<b>1195708575</b>	<b>414037702</b>	<b>5514294271</b>	<b>5348511377</b>
<b>Previous year (2015-16)</b>			<b>5376363310</b>	<b>264423762</b>	<b>1483734</b>	<b>5639303338</b>		<b>290791961</b>	<b>5348511377</b>	

Note: The figure in Column 'Deductions' under Gross Block against the head Capital Work in Progress represents the transfer from Work in Progress to Assets during the year.

The figure in Column ' Additions during the year under Gross Block against Assets 1 to 14 include transfer from Work in Progress during the year, as well as further acquisitions during the year.

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 4A - PLAN**

										Amount in ₹
Sr. No	Assets Heads	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Depreciation for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
1	Land		0	0	0	0		0	0	0
2	Site Development/Minor work		0	0	0	0		0	0	0
3	Buildings	5%	277775005	1892395	0	279667400		13983370	265684030	277775005
4	Roads & Bridges		0	0	0	0		0	0	0
5	Tube wells & Water Supply		0	0	0	0		0	0	0
6	Sewerage & Drainage		0	0	0	0		0	0	0
7	Electrical installation and equipment		0	0	0	0		0	0	0
8	Plant & Machinery	20%	106161305	31992603	0	138153908		27630782	110523126	106161305
9	Scientific & Laboratory Equipment	40%	65177299	57391578	0	122568877		49027551	73541326	65177299
10	Office Equipment		0	0	0	0		0	0	0
11	Audio Visual Equipment	50%	201746	471384	0	673130		336565	336565	201746
12	Computers & Peripherals	40%	46111872	1545330934	0	1591442806	1195708575	158293692	237440539	46111872
13	Furniture, Fixtures & Fittings	25%	31267927	17052160	0	48320087		12080022	36240065	31267927
14	Sports Equipment	50%	0	0	0	0		0	0	0
15	Vehicles	25%	549439	0	0	549439		137360	412079	549439
16	Lib. Books & Scientific Journals	50%	4342203	6870819	0	11213022		5606511	5606511	4342203
17	Small Value Assets		0	0	0	0		0	0	0
18	Work of Art		1310000	0	0	1310000		0	1310000	1310000
<b>Total (A)</b>			<b>532896796</b>	<b>1661001873</b>	<b>0</b>	<b>2193898669</b>	<b>1195708575</b>	<b>267095853</b>	<b>731094241</b>	<b>532896796</b>
19	<b>Capital Work in Progress (B)</b>		<b>804296182</b>	<b>0</b>	<b>0</b>	<b>804296182</b>		<b>0</b>	<b>804296182</b>	<b>804296182</b>
Sr. No	Intangible Assets	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation Related to prior period	Amortization for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
20	Computer Software	40%	0	0	0	0		0	0	0
21	E-journals	25%	0	0	0	0		0	0	0
22	Patents	25%	0	19360	0	19360		4840	14520	0
<b>Total (C)</b>			<b>0</b>	<b>19360</b>	<b>0</b>	<b>19360</b>		<b>4840</b>	<b>14520</b>	<b>0</b>
<b>Grand Total (A+B+C)</b>			<b>1337192978</b>	<b>1661021233</b>	<b>0</b>	<b>2998214211</b>	<b>1195708575</b>	<b>267100693</b>	<b>1535404943</b>	<b>1337192978</b>
<b>Previous year (2015-16)</b>			<b>1377332688</b>	<b>90362873</b>	<b>0</b>	<b>1467695561</b>	<b>0</b>	<b>130502583</b>	<b>1337192978</b>	

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 4B - NON PLAN**

Amount in ₹

Sr. No.	Assets Heads	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
1	Land		19716892	0	0	19716892	0	19716892	19716892
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	359545860	5917837	0	365463697	18273185	347190512	359545860
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	73387401	9905093	312526	82979968	16595994	66383974	73387401
9	Scientific & Laboratory Equipment	40%	14889905	14343116	3878	29229143	11691657	17537486	14889905
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	36441	0	1	36440	18220	18220	36441
12	Computers & Peripherals	40%	23814572	4523700	5696	28332576	11333030	16999546	23814572
13	Furniture, Fixtures & Fittings	25%	48447650	14835438	32967	63250121	15812530	47437591	48447650
14	Sports Equipment	50%	57360	0	0	57360	28680	28680	57360
15	Vehicles	25%	1223314	0	2999	1220315	305079	915236	1223314
16	Lib. Books & Scientific Journals	50%	32707412	22193622	25	54901009	27450505	27450504	32707412
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		0	0	0	0	0	0	0
<b>Total (A)</b>			<b>573826807</b>	<b>71718806</b>	<b>358092</b>	<b>645187521</b>	<b>101508880</b>	<b>543678641</b>	<b>573826807</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Sr. No.	Intangible Assets	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
20	Computer Software	40%	4860403	238385	0	5098788	2039515	3059273	4860403
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	17761	0	0	17761	4440	13321	17761
<b>Total (C)</b>			<b>4878164</b>	<b>238385</b>	<b>0</b>	<b>5116549</b>	<b>2043955</b>	<b>3072594</b>	<b>4878164</b>
<b>Grand Total of Current year (A+B+C)</b>			<b>578704971</b>	<b>71957191</b>	<b>358092</b>	<b>650304070</b>	<b>103552835</b>	<b>546751235</b>	<b>578704971</b>
<b>Previous year (2015-16)</b>			<b>614329470</b>	<b>81536928</b>	<b>1483734</b>	<b>694382664</b>	<b>115677693</b>	<b>578704971</b>	

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 4 C - INTANGIBLE ASSETS**

									Amount in ₹
Sr. No.	Assets Heads	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation/Amortization for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
1	Patents & Copyrights	25%	17761	28160	0	45921	11480	34441	17761
2	Computer Software	40%	4972221	291343	0	5263564	2105426	3158138	4972221
3	E-Journals	25%	0	0	0	0	0	0	0
Total			4989982	319503	0	5309485	2116906	3192579	4989982
<b>Previous year (2015-16)</b>			<b>7655275</b>	<b>655441</b>	<b>0</b>	<b>8310716</b>	<b>3320734</b>	<b>4989982</b>	

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

						Amount in ₹	
SCHEDULE 4( C) (I) PATENTS AND COPYRIGHTS	Op. Balance	Addition	Gross	Amortization	Net Block 20.....	Net Block 20.....	
<b>A. Patents Granted</b>							
1. Balance as on 31.03.14 of Patents obtained in 2008-09 (Original Value - Rs.../-)	----	----	----	----	----	----	
2. Balance as on 31.03.14 of Patents obtained in 2010-11 (Original Value - Rs.../-)	----	----	----	----	----	----	
3. Balance as on 31.03.14 of Patents obtained in 2012-13 (Original Value - Rs.../-)	----	----	----	----	----	----	
4. Patents granted during the Current Year	----	----	----	----	----	----	
<b>Total</b>	----	----	----	----	----	----	
Particulars	Op. Balance	Addition	Gross	Patents Granted/Rejected	Net Block 2013-14	Net Block 2012-13	
<b>A. Patents Pending in respect of Patents applied for</b>							
1. Expenditure incurred during 2009-10 to 2011-12	----	----	----	----	----	----	
2. Expenditure incurred during 2012-13	----	----	----	----	----	----	
3. Expenditure incurred during 2013-14	----	----	----	----	----	----	
<b>Total</b>	----	----	----	----	----	----	
<b>C. Grand Total (A+B)</b>	----	----	----	----	----	----	

Note : The Addition in Part A (Patents granted), will be the figure of patents granted during the year, transferred from Part B (column-Patents Granted/rejected). The amount against grants rejected during the year is written off in the income and Expenditure Account

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULE 4D - OTHERS**

									Amount in ₹
Sr. No.	Assets Heads	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Depreciation for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
1	Land		0	0	0	0	0	0	0
2	Site Development/Minor work		0	0	0	0	0	0	0
3	Buildings	5%	82572238	398775	0	82971013	4148551	78822462	82572238
4	Roads & Bridges		0	0	0	0	0	0	0
5	Tube wells & Water Supply		0	0	0	0	0	0	0
6	Sewerage & Drainage		0	0	0	0	0	0	0
7	Electrical installation and equipment		0	0	0	0	0	0	0
8	Plant & Machinery	20%	34533262	19325335	0	53858597	10771719	43086878	34533262
9	Scientific & Laboratory Equipment	40%	35602159	17727538	0	53329697	21331879	31997818	35602159
10	Office Equipment		0	0	0	0	0	0	0
11	Audio Visual Equipment	50%	185127	0	0	185127	92564	92563	185127
12	Computers & Peripherals	40%	5301221	2586041	0	7887262	3154905	4732357	5301221
13	Furniture, Fixtures & Fittings	25%	10011052	1897763	0	11908815	2977204	8931611	10011052
14	Sports Equipment	50%	186	0	0	186	93	93	186
15	Vehicles	25%	1	0	0	1	0	1	1
16	Lib. Books & Scientific Journals	50%	766666	911628	0	1678294	839147	839147	766666
17	Small Value Assets		0	0	0	0	0	0	0
18	Work of Art		2000000	0	0	2000000	0	2000000	2000000
<b>Total (A)</b>			<b>170971912</b>	<b>42847080</b>	<b>0</b>	<b>213818992</b>	<b>43316062</b>	<b>170502930</b>	<b>170971912</b>
<b>19</b>	<b>Capital Work in Progress (B)</b>		<b>3261529695</b>	<b>0</b>	<b>0</b>	<b>3261529695</b>	<b>0</b>	<b>3261529695</b>	<b>3261529695</b>
Sr. No.	Intangible Assets	Rate of Dep.	W.D.V. at the beginning of the year	Additions during the year	Deductions\Sale during the year	Cost\Value at the year end	Amortization for the year	W.D.V. as at 31.03.2017	W.D.V. as at 31.03.2016
20	Computer Software	40%	111818	52958	0	164776	65910	98866	111818
21	E-journals	25%	0	0	0	0	0	0	0
22	Patents	25%	0	8800	0	8800	2200	6600	0
<b>Total (C)</b>			<b>111818</b>	<b>61758</b>	<b>0</b>	<b>173576</b>	<b>68110</b>	<b>105466</b>	<b>111818</b>
<b>Grand Total (A+B+C)</b>			<b>3432613425</b>	<b>42908838</b>	<b>0</b>	<b>3475522263</b>	<b>43384172</b>	<b>3432138091</b>	<b>3432613425</b>

Note: The additions during the year include addition from :

Gifted	1199
Project Close	30189637
Misc. Accounts Fund	8393305
Other Earmarked Funds	4324697
<b>Total</b>	<b>42908838</b>



**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

<b>SCHEDULE 5 - INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. In Central Government Securities	247900000	345500000
2. In State Government Securities	-----	-----
3. Other approved Securities	-----	-----
4. Shares	83000	83000
5. Debentures and Bonds	-----	-----
6. Term Deposits with Banks	-----	-----
7. Others (to be specified)	-----	-----
<b>Total</b>	<b>247983000</b>	<b>345583000</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**SCHEDULES 5 (A) INVESTMENTS FROM EARMARKED/ENDOWMENT FUNDS (FUNDS WISE)**

<b>Sl. No.</b>	<b>Funds</b>	<b>Amount in ₹</b>	
		<b>Current Year</b>	<b>Previous Year</b>
1	Misc. Accounts - Govt. Securities	18000000	26000000
2	Publications - Govt. Securities	300000	400000
3	Endowment Fund - Govt. Securities	185600000	254600000
4	Other Earmarked Fund - Govt. Securities	44000000	64500000
5	Endowment Fund - Shares	83000	83000
<b>Total</b>		<b>247983000</b>	<b>345583000</b>

Note: The Total in this sub schedule will agree with the total in Schedule 5.

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

<b>SCHEDULE 6 - INVESTMENT -OTHERS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. In Central Government Securities		
2. In State Government Securities	----	----
3. Other approved Securities	----	----
4. Shares	----	----
5. Debentures and Bonds	----	----
6. Other (to be specified)	----	----
<b>TOTAL</b>	----	----

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

<b>SCHEDULE 7 - CURRENT ASSETS</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
<b>1. Stock</b>		
a) Stores and Spares	----	----
b) Loose Tools	----	----
c) Publication	----	----
d) Laboratory Chemicals, Consumables and glass ware	----	----
e) Building Material	----	----
f) Electrical Material	----	----
g) Stationery	12715923	----
h) Water supply material	----	----
i) Liveries	196474	----
j) Drugs and Medicines	3895059	----
k) Answer sheet	15012418	----
<b>2. Sundry Debtors :</b>		
a) Others Outstanding for a period exceeding six months	----	----
b) Others	----	----
<b>3. Cash and Bank Balance</b>		
<b>a) With Scheduled Banks :</b>		
-In Current Accounts	65626464	69881547
-In Term Deposit Accounts	10123882586	9716383113
-In Savings Accounts	1228784221	1040611971
<b>b) With non-Scheduled Banks :</b>		
-In Term Deposit Accounts	----	----
-In Savings Accounts	----	----
<b>c) Cash Balance in hand (including cheques\drafts) :</b>	943500	983500
<b>4. Post Office Savings Accounts</b>	----	----
<b>TOTAL</b>	<b>11451056645</b>	<b>10827860131</b>

Note : Annexure "A" shows the details of Bank Accounts

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

**Annexure "A"**  
**Amount in ₹**

<b>I</b>	<b>Current Account</b>	<b>Current Year</b>	<b>Previous Year</b>
1	B R Ambedkar Centre General Fund A/c	23578	8189
2	ICICI Bank A/c	1050992	11231597
3	SBI Law Centre II	134017	45824
4	SBI MG I	23875210	9934317
5	SBI MG II	10745135	6497782
6	SBI MG III	6280127	18215818
7	SDC Examination A/c	206339	3754753
8	SDC General Fund A/c	1138055	764492
9	Sponsored Project Bank A/c	2352045	1632311
10	Plan Current A/c	3545965	13855603
11	Current A/c's of Earmarked Fund	16275001	3940860
		<b>65626464</b>	<b>69881547</b>
<b>II</b>	<b>Savings Bank Accounts</b>		
1	External Candidate Cell A/c	549733	5382691
2	NCWEB A/c	4909267	4583219
3	SBI Departmental Receipt A/c	5799288	799244
4	SBI General Fund A/c	387974175	374329796
5	SBI Medical Reimbursement A/c	3390707	3432754
6	Sponsored Project Bank A/c	279967106	168115128
7	Sponsored Fellowship and Scholarship	75189415	63090664
8	Plan Savings A/c	45532299	57702884
9	Savings A/c's of Earmarked Fund	415614087	363170776
10	CPF Account refundable to UGC	17691	4815
11	IDBI Bank A/c	9840452	-----
		<b>1228784221</b>	<b>1040611971</b>
<b>III</b>	<b>Term Deposit Accounts</b>		
1	FDR from Earmarked Fund	4928401148	4436580610
2	FDR from UGC Refundable A/c	16858487	15685000
3	FDR from ACBR A/c	918073	703553
4	FDR from Social Work A/c	2,660,351	2,660,351
5	FDR's from Maintenance Grants	70000000	83000000
6	Sponsored Project Bank A/c	872243493	934498766
7	Sponsored Fellowship and Scholarship	25000000	-----
8	FDR From Plan A/c (including margin money)	3567801034	3496254833
9	FDR From ICICI Bank A/c	10000000	----
		<b>10123882586</b>	<b>9716383113</b>

**SCHEDULES FORMING PART OF BALANCE SHEET AS ON 31-03-2017**

SCHEDULE 8 - LOANS, ADVANCES & DEPOSITS	Amount in ₹	
	Current Year	Previous Year
<b>1. Advances to employees (Non-interest bearing)</b>		
a) Salary	----	----
b) Festival	937252	1351902
c) Medical Advance	53000	504000
d) Leave Travel Concession	4047511	6518738
e) Other (to be specified)	----	----
<b>2. Long Term Advances to employees (Interest bearing)</b>		
a) Vehicle Loan/Conv./Computer	1180920	1302085
b) Home Loan/HBA	1936830	2678255
c) Others (to be specified)	----	----
<b>3. Advances and other amounts recoverable in cash or in kind or for value to be received</b>		
a) On Capital Account	----	----
b) to Suppliers	----	----
c) Delhi University Pension Accounts	2980000	2980000
d) Delhi University Press	17395000	17395000
e) Sir Shankar Lal Chair in Chemistry Fund A/c	1100000	1100000
f) Other Advance out of Earmarked Funds	16144059	24530307
g) Other Advance out of Maintenance Grant A/c	685292917	589657643
h) Other Advances out of Sponsored Projects	144291005	165865271
i) Advance from Plan A/c	1983897742	3413653773
j) Others	1151924	1063463
<b>4. Prepaid Expenses</b>		
a) Insurance	----	----
b) Other Expenses	13842119	31302664
<b>5. Deposits</b>		
a) Telephone	----	----
b) Lease Rent	----	----
c) Electricity	20805300	20794500
d) AICTE, if applicable	----	----
e) DESU (Security)	4795	4795
f) Others	202373	52373
<b>6. Income Accrued:</b>		
a) On Investments from Earmarked/Endowment Funds	197205012	119198173
b) On Investments from ACBR/ UGC Refundable A/c	----	210917
c) On Investments from UGC Refundable A/c	153561	183210
d) On Investments from Sponsored Projects	87703814	56201693
e) On Investments from Sponsored Fellowship and Scholarship	2188746	376309
f) On Investments from Plan	120889004	165002377
g) On Investments from MG i.e. (ICICI, SDC)	6616367	----
h) On Loans and Advances	----	----
i) Others (includes income due unrealized)	150000	----
<b>7. Other - Current assets receivable from UGC/sponsored projects</b>		
a) Debit balances in Sponsored Projects	----	----
b) Debit balances in Sponsored Fellowships & Scholarships	31192212	21812589
c) Grants Receivable	----	----
d) Other receivables from UGC	----	105176
<b>8. Claims Receivable</b>	----	----
<b>TOTAL</b>	<b>3341361463</b>	<b>4643845213</b>

**Note: if revolving funds have been created from House Building, Computer and Vehicle advances to employees, the advances will appear as part of Earmarked/Endowment Funds, The balances against these interests – bearing advances will not appear in this schedule.**

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

	Amount in ₹	
<b>SCHEDULE - 9 ACADEMIC RECEIPTS</b>	<b>Current Year</b>	<b>Previous Year</b>
<b>FEES FROM STUDENTS</b>		
<b>Academic</b>		
1. Tuition fee	17980348	12748817
2. Admission Fee	2344991	5304278
3. Enrolment fee	14270108	66067298
4. Library Admission fee	1830082	744536
5. Laboratory fee	89605	85738
6. Sports and Athletic Association Fee	10072489	10856058
7. Computer Fee	887500	228000
8. Arts & Craft Fee	-----	-----
9. Registration fee	105705230	39150
10. Syllabus fee	-----	-----
11. Other Fees	27854021	145544277
<b>Total (A)</b>	<b>181034374</b>	<b>241618152</b>
<b>Examinations</b>		
1. Admission test fee	-----	-----
2. Annual Examination fee	715006643	698972386
3. Mark sheet, certificate fee	16026730	14018100
4. Entrance examination fee	29428805	60551778
<b>Total (B)</b>	<b>760462178</b>	<b>773542264</b>
<b>Other Fees</b>		
1. Identity card fee	-----	-----
2. Fine/Miscellaneous fee	-----	-----
3. Medical fee	-----	-----
4. Transportation fee	-----	-----
5. Hostel fee	-----	-----
<b>Total (C)</b>	<b>0</b>	<b>0</b>
<b>Sale of Publications</b>		
1. Sale of Admission forms	-----	-----
2. Sale of syllabus and Question Paper, etc.	-----	-----
3. Sale of prospectus including admission forms	12544233	14065440
<b>Total (D)</b>	<b>12544233</b>	<b>14065440</b>
<b>Other Academic Receipts</b>		
1. Registration fee for workshops, programs	-----	-----
2. Registration fees (Academic Staff College)	-----	-----
<b>Total (E)</b>	<b>0</b>	<b>0</b>
<b>GRAND TOTAL (A+B+C+D+E)</b>	<b>954040785</b>	<b>1029225856</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

**SCHEDULE 10- GRNATS/SUBSIDIES(IRREVOCABLE GRANTS RECEIVED)**

**Amount in ₹**

Particulars	Govt. of India	Plan		Total Plan	Non Plan UGC	Current Year Total	Previous Year Total
		Plan	UGC Specific Schemes				
Balance B/F		<b>7146469470</b>		7146469470		7146469470	7156385397
Add: Receipts during the year		507825821	0	507825821	4335230000	4843055821	4865607355
<b>Total</b>		7654295291	0	7654295291	4335230000	11989525291	12021992752
Less : Refund to UGC Balance				0		0	0
Less : Utilized for Capital expenditure (A)		1661021233		1661021233	71957191	1732978424	171899801
<b>Balance</b>		5993274058	0	5993274058	4263272809	10256546867	11850092951
<b>Less: utilized for Revenue Expenditure (B)</b>		<b>272076870</b>	<b>0</b>	<b>272076870</b>	<b>4263272809</b>	<b>4535349679</b>	<b>4703623481</b>
<b>Balance C/F (C)</b>	<b>-</b>	<b>5721197188</b>	<b>0</b>	<b>5721197188</b>	<b>0</b>	<b>5721197188</b>	<b>7146469470</b>

A- Appears as addition to Capital Fund as well as additions to Fixed Assets during the year.

B- Appears as income in the Income & Expenditure Account.

C- (I) Appears under Current Liabilities in the Balance Sheet and will become the opening balance next year.

(II) Represented by Bank balances, Investments and Advances on the assets side.



**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

SCHEDULE 11- INCOME FROM INVESTMENTS	Earmarked/Endowment Funds		Other Investments	
	Current Year	Previous Year	Current Year	Previous Year
				Amount in ₹
<b>1. Interest</b>				
a. On Government Securities	-----	-----	-----	-----
b. Other Bonds/Debentures	-----	-----	-----	-----
<b>2. Interest on Term Deposits</b>	389466567	383719616	44491931	18720318
<b>3. Income accrued but not due on Term Deposits/Interest bearing advances to employees.</b>	-----	-----	-----	-----
<b>4. Interest on Saving Bank Accounts</b>	9367793	21116350	-----	-----
<b>5. Others (Specify)</b>	-----	-----	-----	-----
<b>Total</b>	<b>398834360</b>	<b>404835966</b>	<b>44491931</b>	<b>18720318</b>
<b>Transferred to Earmarked/Endowment Funds</b>	<b>398834360</b>	<b>404835966</b>		

Note: Interest accrued but not due on Term Deposits from HBA Fund, conveyance advance fund and Computer Advance fund and on interest bearing advances to employees will be included here (Item 3), only where Revolving funds (EMF) for such advances have been set up.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

<b>SCHEDULE 12 - INTEREST EARNED</b>	<b>Current Year</b>	<b>Amount in ₹ Previous Year</b>
<b>1. On Savings Accounts with scheduled banks</b>	10757610	12445873
<b>2. On Loans</b>		
a. Employee/Staff	-----	-----
b. Others	-----	-----
<b>3. On Debtors and Other Receivables</b>	-----	-----
<b>Total</b>	<b>10757610</b>	<b>12445873</b>

Note:

1. The amount against item 1, in respect of Bank Accounts of Earmarked/ Endowment Funds is deal with in Schedule 11 (First Part) and Schedule 2.
2. Item 2(a) is applicable only if Revolving funds have not been constituted for such advances.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

**SCHEDULE 13 - OTHER INCOME**

	Amount in ₹	
	Current Year	Previous Year
<b>A. Income from Land &amp; Building</b>		
1. Rent from Building/Land etc.	5548000	4397265
2. License fee	17106751	11347017
3. Hire Charges of Auditorium/Playground/Convention Centre, etc.	----	----
4. Electricity charges recovered	----	----
5. Water charges recovered	----	----
<b>Total (A)</b>	<b>22654751</b>	<b>15744282</b>
<b>B. Sale of Institute's publications</b>		
<b>C. Income from holding events</b>		
1. Gross Receipts from annual function/sports carnival	----	----
Less : Direct expenditure incurred on the annual function/sports carnival		
2. Gross Receipts from fetes	----	----
Less : Direct expenditure incurred on the fetes		
3. Gross Receipts for educational tours	----	----
Less : Direct expenditure incurred on the tours		
4. Others (to be specified and separately disclosed)	----	----
<b>Total (C)</b>		
<b>D. Others</b>		
1. Income from consultancy	----	----
2. RTI fee	19777	26965
3. Income from Royalty	----	----
4. Sale of application form (recruitment)	0	7650
5. Misc. receipts (Sale of tender form, waste paper, etc.)	473820	879624
6. Profit on Sale/disposal of Assets		
a) Owned assets	----	----
b) Assets received free of cost	----	----
7. Grants/Donations from Institutions, Welfare Bodies and International Organizations	----	----
8. Health Centre Contribution	31825567	31579859
9. Leave Salary & Pension Contribution	0	17814448
10. Others (Specify)	8010606	14592210
<b>Total (D)</b>	<b>40329770</b>	<b>64900756</b>
<b>GRAND TOTAL (A+B+C+D)</b>	<b>62984521</b>	<b>80645038</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

**SCHEDULE 14- PRIOR PERIOD INCOME**

<b>Particulars</b>	<b>Amount in ₹</b>	
	<b>Current Year</b>	<b>Previous Year</b>
1. Academic Receipts	-----	-----
2. Income from Investments	-----	-----
3. Interest earned	-----	-----
4. Other Income	-----	-----
<b>Total</b>	-----	-----

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

**SCHEDULE - 15 STAFF PAYMENTS & BENEFITS (ESTABLISHMENT EXPENSES)**

<u>Particulars</u>	<u>Amount in ₹</u>					
	<u>Current Year</u>			<u>Previous Year</u>		
	<u>Plan</u>	<u>Non Plan</u>	<u>Total</u>	<u>Plan</u>	<u>Non Plan</u>	<u>Total</u>
a) Salaries and Wages						
Teaching staff	11201867	1395626962	1406828829	49679059	1289118549	1338797608
Non-Teaching staff	12807878	845372340	858180218	16913123	889213446	906126569
Lower Subordinate staff	125665	253901521	254027186	----	251568833	251568833
b) Allowances and Bonus	----	13857214	13857214	----	4147622	4147622
c) Contribution to Provident Fund	----	4075298	4075298	----	4641093	4641093
d) Contribution to other funds (specify)	----	----	0	----	----	0
e) Staff Welfare Expenses (Liveries)	----	613510	613510	----	2206092	2206092
f) Retirement and Terminal Benefits	621234	2740492121	2741113355	1926265	1865572237	1867498502
g) LTC facility	----	23160413	23160413	----	20805922	20805922
h) Medical facility	----	134485232	134485232	----	126404323	126404323
i) Children Education Allowance	184500	12020646	12205146	327900	12312051	12639951
j) Honorarium	281649	84844483	85126132	462580	46974737	47437317
k) Others	----	----	0	----	----	0
<b>Total</b>	<b>25222793</b>	<b>5508449740</b>	<b>5533672533</b>	<b>69308927</b>	<b>4512964905</b>	<b>4582273832</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

**SCHEDULE 15 A - EMPLOYEES RETIREMENT AND TERMINAL BENEFIT**

	Amount in ₹				
	Pension	Gratuity	Leave Encashment	Total	Previous year
Opening Balance as on 01.04.16	15517616630	1086698993	1015840343	17620155966	16843799499
Addition : Capitalized value of Contributions Received from other Organizations	13423391	1644209	1625966	16693566	0
<b>Total (a)</b>	<b>15531040021</b>	<b>1088343202</b>	<b>1017466309</b>	<b>17636849532</b>	<b>16843799499</b>
Less: Actual Payment during the Year (b)	911514976	185885272	76013153	1173413401	1049953217
Balance Available on 31.03.17 c (a-b)	14619525045	902457930	941453156	16463436131	15793846282
Provision required on 31.03.17 as per Actuarial Valuation (d)	16984796238	1120240441	1054065434	19159102113	17620155966
A. Provision to be made in the Current year (d-c)	2365271193	217782511	112612278	2695665982	1826309684
B. Contribution to New Pension Scheme	-----	-----	-----	44526139	39082553
C. Medical Reimbursement to Retired Employees	-----	-----	-----	-----	-----
D. Travel to Hometown on Retirement	-----	-----	-----	-----	-----
E. Deposit Linked Insurance Payment	-----	-----	-----	300000	180000
<b>TOTAL (A+B+C+D+E)</b>	<b>2365271193</b>	<b>217782511</b>	<b>112612278</b>	<b>2740492121</b>	<b>1865572237</b>

**Note:**

1. The total (A+B+C+D+E) in this sub schedule will be the figure against Retirement and Terminal Benefits in Schedule 15.
2. Items B,C,D&E will be accounted on accrual basis and will included bills preferred but outstanding for payment on 31/3/17

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

SCHEDULE 16 - ACADEMIC EXPENSES	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Laboratory expenses	31931114	13897265	45828379	31846369	16228822	48075191
b) Field work/Participation in Conferences	1947676	----	1947676	----	----	0
c) Expenses on Seminars/Workshops	2875315	7741503	10616818	2852612	6476881	9329493
d) Award and Scholarships	105925499	1329774	107255273	130797570	932845	131730415
e) Academic Expenses	0	7938393	7938393	34865	1262481	1297346
d) Payment to visiting faculty	216086	----	216086	----	----	0
e) Examination	11400	299881219	299892619	----	286948598	286948598
f) Refund of Fees	----	1552959	1552959	----	892870	892870
g) Entrance Exam	----	24300129	24300129	----	20278275	20278275
f) Student Welfare expenses	----	----	0	----	----	0
g) Admission expenses	----	----	0	----	----	0
h) Convocation expenses	----	----	0	----	----	0
i) Publications	996008	----	996008	899012	----	899012
j) Stipend/means-cum-merit scholarship	----	----	0	----	----	0
k) Subscription Expenses	----	----	0	----	----	0
l) Others (specify)	2778620	----	2778620	4122998	----	4122998
<b>TOTAL</b>	<b>146681718</b>	<b>356641242</b>	<b>503322960</b>	<b>170553426</b>	<b>333020772</b>	<b>503574198</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

SCHEDULE 17 - ADMINISTRATIVE AND GENERAL EXPENSES	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
<b>A Infrastructure</b>						
a) Electricity and Power	----	279634317	279634317	----	289663747	289663747
b) Water charges	----	54935426	54935426	----	73511827	73511827
c) Insurance	----	----	0	----	----	0
d) Rent, Rates and Taxes (including property tax)	----	44668728	44668728	----	39385922	39385922
<b>B) Communication</b>						
e) Postage and Telephone	120999	7900267	8021266	74858	12028018	12102876
f) Telephone, Fax and Internet Charges	----	----	0	----	----	0
g) Connectivity Expenses	2904581	57346950	60251531		57749535	57749535
<b>C) Others</b>						
h) Printing and Stationery (consumption)	3448548	14143406	17591954	3461265	33507042	36968307
i) Travelling and Conveyance Expenses	17483372	13366714	30850086	6958639	11596075	18554714
j) Hospitality	1485059	----	1485059	1369792	----	1369792
k) Auditors Remuneration	----	----	0	----	----	0
l) Legal & Professional Charges	185169	11014645	11199814	----	11357139	11357139
m) Advertisement and Publicity	85405	0	85405	5530	2941457	2946987
n) Magazines & Journals	791197	68470253	69261450	420142	59487837	59907979
o) Watch & Ward Expenses	908226	77700042	78608268	702136	57445318	58147454
p) House Keeping Expenses	----	47385636	47385636	----	41702093	41702093
q) Games & Sports	286128	6995800	7281928	----	10593937	10593937
r) Medical Expenses	16675	62149569	62166244	47276	64819879	64867155
s) Others/Contingency	4899414	26801851	31701265	5890115	32299179	38189294
<b>TOTAL</b>	<b>32614773</b>	<b>772513604</b>	<b>805128377</b>	<b>18929753</b>	<b>798089005</b>	<b>817018758</b>



**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

Amount in ₹

<b>SCHEDULE - 18 TRANSPORTATION EXPENSES</b>	<b>Current Year</b>			<b>Previous Year</b>		
	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>	<b>Plan</b>	<b>Non Plan</b>	<b>Total</b>
1 Vehicles (owned by institution)	----	----	0	----	----	0
a) Running expenses	----	----	0	----	----	0
b) Repairs & maintenance	----	----	0	----	----	0
c) Insurance expenses	----	----	0	----	----	0
2 Vehicles taken on rent/lease	----	----	0	----	----	0
a) Rent/lease expenses	----	----	0	----	----	0
3 Vehicle (Taxi) hiring expenses	5857416	1079093	6936509	2777759	876823	3654582
<b>Total</b>	<b>5857416</b>	<b>1079093</b>	<b>6936509</b>	<b>2777759</b>	<b>876823</b>	<b>3654582</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

Amount in ₹

SCHEDULE - 19 REPAIRS & MAINTENANCE	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Buildings	-----	161114197	161114197	-----	146437703	146437703
b) Furniture & Fixtures	153085	5491043	5644128	22853	2835277	2858130
c) Plant & Machinery	7210532	15277748	22488280	8784428	18788010	27572438
d) Office Equipment	-----	-----	0	-----	-----	0
e) Computers	3019326	-----	3019326	4975557	-----	4975557
f) Laboratory & Scientific equipment	-----	400031	400031	-----	345501	345501
g) Audio Visual equipment	-----	-----	0	-----	-----	0
h) Cleaning Material & Services	-----	-----	0	-----	-----	0
i) Book binding charges	-----	-----	0	-----	-----	0
j) Gardening	41700	5318752	5360452	32425	4852402	4884827
k) Estate Maintenance	-----	-----	0	-----	-----	0
l) Vehicle	-----	1823791	1823791	-----	1812246	1812246
m) Others (Specify)	-----	-----	0	-----	-----	0
<b>Total</b>	<b>10424643</b>	<b>189425562</b>	<b>199850205</b>	<b>13815263</b>	<b>175071139</b>	<b>188886402</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

					Amount in ₹		
SCHEDULE - 20 FINANCE COSTS		Current Year			Previous Year		
		Plan	Non Plan	Total	Plan	Non Plan	Total
a)	Bank charges	273703	169860	443563	195475	180745	376220
b)	Others (specify)	-----	-----	-----	-----	-----	-----
<b>Total</b>		<b>273703</b>	<b>169860</b>	<b>443563</b>	<b>195475</b>	<b>180745</b>	<b>376220</b>

Note: If the amount is not material, the head Bank charges could be omitted and these could be accounted as Administrative expenses in Schedule 17.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

SCHEDULE - 21 Expenditure on Grants, Subsidies etc.	Amount in ₹					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
a) Provision for Bad and Doubtful Debts/Advances	-----	-----	-----	-----	-----	-----
b) Irrecoverable Balances Written- off	-----	-----	-----	-----	-----	-----
c) Grants/Subsidies to other institutions/organizations	51001824	110484504	161486328	170100806	121853973	291954779
d) Others (specify)	-----	-----	-----	-----	-----	-----
<b>Total</b>	<b>51001824</b>	<b>110484504</b>	<b>161486328</b>	<b>170100806</b>	<b>121853973</b>	<b>291954779</b>

Note: Other expenses shall be classified as writes- off, provisions, miscellaneous expenses, loss on sale of investments, loss of fixed assests and loss on sale of fixed assests etc.and disclosed accordingly.

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31-03-2017**

**SCHEDULE 22: PRIOR PERIOD EXPENSES**

Particulars	Amount in Rs.					
	Current Year			Previous Year		
	Plan	Non Plan	Total	Plan	Non Plan	Total
1 Establishment expenses	----	----	0	----	16843799499	16843799499
2 Academic expenses	----	----	0	----	----	----
3 Administrative expenses	----	----	0	----	----	----
4 Transportation expenses	----	----	0	----	----	----
5 Repairs & Maintenance	----	----	0	----	----	----
6 Other expenses	----	----	0	----	----	----
7. Depreciation related to prior period	1195708575	----	1195708575	----	----	----
<b>Total</b>	<b>1195708575</b>	<b>----</b>	<b>1195708575</b>		<b>16843799499</b>	<b>16843799499</b>

**SCHEDULES FORMING PART OF INCOME & EXPENDITURE FOR THE YEAR ENDED 31<sup>ST</sup> MARCH 2017**

Amount in ₹

Increase/Decrease in Stock	Current year	Previous year
<b>a) Closing Stock</b>		
Stationery	12715923	-----
Drugs and Medicines	3895059	----
Liveries	196474	----
Answer Sheet	15012418	----
<b>Net Increase/Decrease (A-B)</b>	<b>31819874</b>	----

## SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH 2017

### **Schedule 23: Significant Accounting Policies**

#### **1 Basis for Preparation of accounts :**

- a. The financial statements are prepared on the basis of historical cost convention and generally on the accrual method of accounting unless otherwise stated.

#### **2 Revenue Recognition :**

- a. Fee from students, Sale of admission forms, tuition fees for each semester and Interest on Saving Bank accounts are accounted for on cash basis.
- b. During the current financial Year University has changed its policy regarding accounting of Income from Land, Buildings and other Property and Interest on investments from cash basis to accrual basis.
- c. Interest on Interest bearing advances to staff for House Building, Purchase of Vehicles and Computers are accounted for accrual basis every year, though the actual recovery of interest starts after the full repayment of the principal.

#### **3 Fixed Assets and Depreciation :**

- a. Fixed assets are stated at cost of acquisition including inward freight, duties, taxes, incidental direct expenses related to acquisition, installation and commissioning less depreciation. Fixed assets received by the University without any consideration has been capitalized in the financial statement at a nominal value i.e. at ₹. 1/- (One) per asset.

3.1 Gifted / donated assets are valued at a nominal value at ₹. 1/- (One) per asset.

3.2 Books received as gift are valued at a nominal value i.e. at ₹. 1/- (One) per asset.

3.3 Fixed assets are valued at cost less accumulated depreciation, Depreciation on fixed assets is provided on written down value method as specified in the Guidance Note issued by the Institute of Chartered Accountants of India, at the following rates :

**Tangible Assets :**

Sr. No.	Type of Assets	Rate
1	Land	0%
2	Building	5%
3	Furniture & Fixture	25%
4	Scientific Equipment	40%
5	Computer including Printers, UPS etc.	40%
6	Library Books	50%
7	Buses, Vans etc.	30%
8	Cars, Scooters	25%
9	Plant & Machinery including Air-conditioners, Generators, Fire Extinguishers, Telephone, Television sets, Photo copiers, Fax Machines, Water Coolers, Projectors etc.	20%
10	Musical Instruments	50%
11	Sports Equipment	50%

**Intangible Assets (amortization) :**

1	Computer Software	40%
2	Patents	25%

3.4 In respect of additions to fixed assets during the year, depreciation is provided for full year. In respect of sale/deductions from the fixed assets, no depreciation is charged.

3.5 Assets created out of Earmarked Funds where the ownership of such assets vest in the University, are set-up by credit to Capital Fund and merged with the Fixed Assets of the University. Depreciation is charged at the rates applicable to respective assets. Assets purchased out of project funded by outside agencies remain the property of the concerned funding agency till the project is closed . After closure of the project, the project assets are merged with the Fixed Assets of the University at written down value by debiting respective Fixed Assets account and crediting Capital Fund Account.

3.6 Assets, the individual value of each of which is Rs. 5000/- or less (except Library books) are treated as revenue expenditure. However physical accounting and controls are continued by the holders of such assets.

**4 Intangible Assets:**

Patents, copy rights and computer software are grouped under intangible Assets.

4.1 **Patents:** The expenditure incurred from time to time (application fees, legal expenses etc.) for obtaining Patent is capitalized and shown as part of Intangible assets in the Balance Sheet. If applications for Patents are rejected, the cumulative expenditure incurred on the particular Patent is written off to the Income & Expenditure in the year of application is rejected. The rate of depreciation is provided @ 25% on written down value method.



4.2 Electronic Journals: The amount spent on E- Journals/periodicals are treated as revenue expenditure to the extent of the Benefits utilized in the current year and rest of the amount is accounted in books of account on accrual basis as prepaid expenses.

4.3 Expenditure on acquisition of software has been separated from computer and peripherals and depreciation is provided @ 40% on written down value method w.e.f. **1st April, 2014**.

**5 Stocks:**

The stock at the end of the year has been valued at the cost and has been shown in Income and Expenditure account under the head of income since the cost incurred on purchase of these items has already been accounted as expenditure.

**6 Retirement Benefits :**

Retirement benefits i.e., pension, gratuity and leave encashment are provided on the basis of actuarial valuation as per Accounting Standard-15. Capitalized value of Pension, Gratuity and earned leave received from previous employers of Universities employees, who have been absorbed in the university is credited to the respective provision Accounts. Pension and leave salary contribution received in respect of employees on deputation is also credited to the respective provision accounts.

**7 Investments :**

All Investments are stated at cost.

**8 Earmarked/ Endowment Funds :**

The Earmarked Fund consisting of Corpus Fund, Housing Building Funds, Conveyance Fund (including computer advances and other such funds) are long term funds and earmarked for specific purposes. Each of the Funds has a separate bank account. Those with large balances also have investment in government securities, debentures and bonds and term deposit with Banks. The income from investment/ advances (house building, conveyance and computer) is accounted on accrued basis and interest on saving bank accounts are credited to the respective fund on cash basis. The expenditure and advances (in the case of housing building conveyance/computers) are debited to the respective funds. The assets created out of earmarked fund where the ownership vests in the institutions, are merged with the assets of the institutions by crediting an equal amount to Capital Fund.

8.1 The balance of respective funds is carried forward on the liability side of the Balance Sheet and is represented by bank balance, advances, Fixed Deposits and investment on the asset side of the Balance Sheet.

8.2 Assets purchased/created out of Earmarked Funds where the ownership of the assets vests in the University, are merged with the fixed assets of the University by debiting respective fixed asset account and crediting Capital Fund account. Depreciation is charged at the rates applicable to the respective assets.

**8.3 Endowment Funds:** Endowment Funds are received from various individual donors, Trust and other Organization, for establishing Chairs and for Medals & Prizes, as specified by the donors. The Income from investment of each Endowment Fund is added to the Fund. The expenditure on Medals & Prizes is met from the interest earned on investment of the respective Endowment Funds and the balance is carried forward to next year. In respect of chairs, however, the Corpus of Endowment is also used. The balances are represented by Investment in RBI Bonds and Fixed Deposits and balance in Saving Bank Account common for all Endowments, and Accrued Interest on Investments.

**9 Government and UGC Grants :**

9.1 Government Grant and UGC grants are accounted for on receipt basis. However, where a sanction for release of grant pertaining to financial year received before 31<sup>st</sup> March and the grant is actually received in the next financial year, the grant is accounted on accrual basis and an equal amount shown as recoverable from grantor.

9.2 To the extent utilized towards capital expenditure (on accrual basis) grant from UGC are transferred to the capital fund.

9.3 UGC grants for meeting Revenue Expenditure (on accrual basis) are treated to the extent utilized as income of the year in which they are realized.

9.4 Unutilized Grant ( including advances paid out of such grants) are carried forward and exhibited as a liability in the Balance Sheet.

**10 Investments of Earmarked Fund and Interest Income Accrued on such Investments :**

To the extent not immediately required for expenditure the amounts available against such funds are invested in approved Securities and Bonds or deposited for fixed term with Banks, leaving the balance in Saving Bank Account.

Interest received, interest accrued and due and interest accrued but not due on such investment are added to the respective funds and not treated as income of the Institution.

**11 Sponsored Projects :**

11.1 In respect of ongoing sponsored projects the amount received from sponsors are credited to the head Current liabilities and provisions- current liabilities – Other Liabilities – receipt against ongoing sponsored projects. As and when expenditure incurred/ advances are paid against such project, or the concerned project account is debited with allocated overhead charges, the liability account is debited.

11.2 In addition to the earmarked funds for junior research fellowship funded by the UGC fellowship and scholarship are also sponsored by various organizations. These are accounted in the same way as Sponsored Project except that the expenditure generally is only on distribution of fellowship and Scholarship which may include allowances for contingent expenditure by fellow and scholars.

11.3 The Institutions itself also awards fellowships and Scholarships, which are accounted on Academic expenses.

11.4 Assets purchased out of Project funded by outside agencies remain the property of the concerned funding agency till the project is closed. After closure of the project, the project assets are merged with the Fixed Assets of the University at written down value by debiting respective Fixed Assets account and crediting Capital Fund Account.

## **12 Income Tax :**

The Income of the institution is exempt from Income Tax under section 10(23) (c) of the Income Tax Act. No provision for tax is therefore made in the accounts.

## SCHEDULES FORMING PART OF THE ACCOUNTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2017

### **Schedule 24: Contingent Liabilities and Notes on Accounts**

#### **1 Contingent Liabilities :**

- (a) Various claims filed by present/former employees of the University are pending before Industrial Tribunals and the High Court of Delhi. The quantum of claim is not ascertainable.
- (b) An Amount of Rs 14.25 Crore is payable to ECIL as balance payment for supplying and commissioning of security equipment related to various venues of DU areas during Commonwealth Games 2010 (against bill amount of Rs. 28.23 Crore). The balance payment was stopped by the Ministry of Home Affairs as the matter is sub-Judice in the Hon'ble Court.

#### **2 Capital Commitments ( Capital Works In Progress)**

Capital Works in Progress includes the amount paid by University till 31<sup>st</sup> March 2017 towards construction of the following Projects

I. Construction of stadium for Common Wealth Games	₹ 311,18,50,653/-
II. Construction of 1500 seated Rajiv Gandhi Girls Hostel for under graduate and Post graduate students at Dhaka North Campus	₹ 74,72,81,869/-
III. Construction of 70 'D' type flats at Dhaka	₹ 8,38,20,926/-
IV. Other Projects From Earmarked/ Endowment Fund	₹ 12,28,72,429/-

#### **3 Fixed Assets :**

3.1 Addition in the year to Fixed Assets in Schedule 4 include assets purchased out of plan funds Rs.166,10,21,233/- Non plan Funds Rs. 7,19,57,191/- and Earmarked/Endowment Fund Rs.1,27,18,002/- sponsored projects closed 3,01,89,637/- and Library Books and other assets of the value of Rs 1199/- (at nominal value of Rs. 1/- per assets) gifted to the institutions. The assets have been set up by credit to Capital Fund.

3.2 In the Balance sheet as on 31<sup>st</sup> March, 2014 and the Balance Sheets of earlier years Fixed Assets created out of Plan Fund and Fixed Assets created out of non-plan funds were not exhibited distinctly. Further the addition during the year from 31<sup>st</sup> March 2017 from plan, non-plan funds, and other funds, and the depreciation on those additions respectively has been exhibited distinctly in sub schedule A B & D to the main schedule of the Fixed Assets (Schedule 4)

3.3 Fixed Assets set out in Schedule 4 do not include Assets purchased out of funds of sponsored Project, held & used by the Institutions, as Project contracts includes stipulations that all such Assets purchased out of Project funds will remain the property of Sponsors.

3.4 The loss in books has been reflected in books of accounts from this financial year.

**4 Patents :**

An Accounting Policy in respect of Expenditure on Patents was evolved for the first time during the financial year 2013-14.

**5 Deposit Liabilities :**

There is no amount of earnest money deposit & security deposit which has been transferred to Revenue Account

**6 Expenditure in Foreign currency :**

Transaction denominated in Foreign Currency at the exchange rate prevailing at the date of payment/realization.

**7 Current Assets, Loans & Advances and Deposits :**

6.1 In the opinion of the management, the Current Assets, Loans and Advances have a value on realization in the ordinary course, equal at least to the aggregate amounts shown in the Balance Sheet.

6.2 The Loans & Advances shown in the asset side of the Balance Sheet does not include, advances pertaining to period up to 31<sup>st</sup> March 2006, are still outstanding for final statement. These advances were charged to the respective head of account at the time of release of advance.

**8 Bank Balances :**

The Details of Balances in Saving Bank Accounts, Currents Accounts, & Fixed Deposit Accounts with Banks are enclosed as attachment "A" to the schedule of current assets.

- All Savings Bank Accounts with auto sweep facility (Flexi Deposit) generate interest at the rate applicable to the Fixed Deposit for the duration for which the funds are kept in the "Flexi Deposit Account". The interest income in such savings bank accounts is accounted for on accrual basis.

9 Previous year figures have been regrouped /rearranged where ever necessary.

10 Figures in the final accounts have been rounded off to the nearest rupee.

11 Schedule 1 to 24 are annexed to & form an integral part of the Balance Sheet as on 31<sup>st</sup> March 2017 and The Income & Expenditure Account for the year ended 31<sup>st</sup> March 2017

**12 Provident Fund Accounts:**

As the Provident Fund Accounts including New Pension Scheme Fund are owned by the members of those funds and not by the University, these accounts were separated from the University Accounts. However, a Receipts & Payments Account, an Income & Expenditure Account (on Accrual basis) and a Balance Sheet of the Provident Fund Accounts as well as the New Pension Scheme for the year 2016-17 have been attached, to the University's Accounts.

**13 Salaries:**

The expenditure on salary is for the period from March 2016 to February 2017. No provision is made towards salary for the month of March 2017.

**14 Halls & Hostel:**

As Hall & Hostels are separate reporting entities, their accounts are prepared separately from the University Accounts. However, a consolidated Receipts & Payments Account, consolidated Income & Expenditure Account and a consolidated Balance Sheet of all the Halls & Hostels and Guest Houses have been attached to the University's Account.

**15 Delhi University Press:**

As University Press is a separate reporting entity, its accounts are prepared separately and attached to the University's Account.

## RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2017

Amount in ₹

RECEIPTS		Current Year	Previous Year	PAYMENTS		Current Year	Previous Year
<b>I. Opening Balances</b>				<b>I. Expenses</b>			
a) Cash Balances		----	----	a) Establishment Expenses		3994726386	3805917365
b) Bank Balances				b) Academic Expenses		503322960	483295923
i. In Current Accounts		69881547	192009972	c) Administrative Expenses		779428440	814066327
ii. In Saving Accounts		1040611971	2861835734	d) Transportation Expenses		6936509	3654582
iii. In Deposit Accounts		9716383113	7219616295	e) Repairs & Maintenance		199850205	188886402
c) Permanent Advance		983500		f) Finance costs		443563	376220
<b>II. Grants Received</b>				g) Expenditure on Grant		161486328	291954779
a) From Government of India		----	----	h) Prior Period Items		----	----
b) From State Government		----	----	<b>II. Payments against Earmarked/ Endowment Funds</b>		450955909	723520908
c) From UGC				<b>III. Payments against Sponsored Projects/Schemes</b>		555192068	601454476
i) Grant for Capital Expenditure-Non Plan	71957191		----	<b>IV. Payments against Sponsored Fellowships/Scholarships</b>		335144552	381347493
ii) Grant for Revenue Expenditure-Non Plan	4263272809		----	<b>V. Payments against Plan Accounts</b>		----	----
Less: Advance Grant received	0	4335230000	4339479000	<b>VI. Investments and Deposits made</b>			
d) From other sources (details)				a) Out of Earmarked/Endowment Funds		----	149800000
( Grants for capital & revenue exp./ to be shown separately if available)				b) Out of own funds (Investments - Others)		----	----
<b>III. Academic Receipts</b>				<b>VII. Term Deposits with Scheduled Banks</b>		----	----
a) Fees and Subscriptions		941496552	1015160416	<b>VIII. Expenditure on Fixed Assets and Capital Work - In - Progress</b>		----	----
b) Sale of Publications		12544233	14065440	a) Fixed Assets		1745679530	190272737
<b>IV. Receipts against Earmarked/Endowment Funds</b>		611963335	822965530	b) Capital Works - In - Progress		----	50000000
<b>V. Receipts against Sponsored Projects/Schemes</b>		580930373	646136569	<b>IX. Other Payments including statutory payments</b>			
<b>VI. Receipts against Plan</b>		246082071	253258797	Other body transaction		27538910	160848782
<b>VII. Receipts against Sponsored Fellowships and Scholarships</b>		328040602	310782925				

<b>VIII. Income on Investments from</b>			<b>X. Refunds of Grants</b>	----	----
a) Earmarked/Endowment Funds	311459728	502936345			
b) Plan Accounts	305857123	243563560	<b>XI. Deposits and Advances</b>		
c) Sponsored Projects	89003867	68412455	a) Festival Advance	9785235	8622309
d) Sponsored Fellowship & Scholarship	4202701	3876800	b) Advances	----	91064729
			c) Permanent Advance	----	8995897
<b>IX. Interest received on</b>			d) Medical Advance	----	504000
a) Bank Deposits	38086481	18576534	e) LTC Advance	----	3992468
b) Loans and Advances	----	----	f) Remittances	----	1039991
c) Savings Bank Accounts	10757610	12445873	<b>XII. Other Payments</b>	----	----
<b>X. Investments encashed</b>	97600000	----	<b>XIII. Closing Balances</b>		
			a) Cash in hand	----	----
<b>XI. Term Deposits with Scheduled</b>			b) Bank Balances		
<b>Banks encashed</b>	----	----	- In Current Accounts	65626464	69881547
			- In Savings Accounts	1228784221	1040611971
<b>XII. Other Income (including Prior Period</b>			- In Deposits Accounts	10123882586	9716383113
<b>Items)</b>	62834521	80645038	c) Permanent Advance	943500	----
<b>XIII. Deposits and Advances</b>					
a) Festival Advance	10199885	8522760			
b) LTC Advance	2471227	----			
c) Medical Advance	451000	----			
d) Permanent Advance	----	9042097			
e) Advances	1325488119	----			
f) Remittances	1323844	----			
<b>XIV. Miscellaneous Receipts including</b>					
<b>Statutory Receipts</b>	44188743	162063724			
<b>XV. Any Other Receipts</b>	1655221	1100855			
<b>TOTAL</b>	<b>20189727367</b>	<b>18786494719</b>	<b>TOTAL</b>	<b>20189727367</b>	<b>18786494719</b>



**PROVIDENT FUND ACCOUNT**  
**BALANCE SHEET AS ON 31<sup>st</sup> MARCH 2017**

Amount 31.03.16	Liabilities	Amount 31.03.17	Amount 31.03.16	Assets	Amount 31.03.17
	<b><u>GPF</u></b>				
3065289213	Opening Balance	3307304110	1167800000	Investment (Bonds)	2354990000
481646120	Add: Subscriptions in the year	475912213	2810000000	Deposits Accounts (FD)	1894700000
267517470	Add: Interest Credited	261196202	230416092	Interest Accrued as on	101174110
(507133969)	Less: Advance/Withdrawal	(553440880)		31.03.2017	
(14724)	Less: Adjustment relating to Previous yr.	(33)			
3307304110	Closing Balance	3490971612			
	<b><u>CPF</u></b>				
682905444	Opening Balance	701457091		Bank Balances with SBI Bank in Saving Accounts	
58708641	Add: Subscriptions & Contribution	48172679			
60097341	repayment of advance in the year		37125058	GPF A/c No.10851298435	31589169
(100160893)	Add: Interest Credited	45997571	48068865	CPF A/c No.10851298457	69136762
(93442)	Less: Advance/Withdrawal/Final settlement	(165011195)			
	Less: Adjustment related to Previous Year (93432+10)	(41)			
701457091	Closing Balance	630616105			
	<b><u>Interest Reserve</u></b>				
264038758	Opening Balance	284648814			
20610056	Add: Excess of Income over Expenditure	45353510			
284648814	Closing Balance	330002324			
<b>4293410015</b>	<b>TOTAL</b>	<b>4451590041</b>	<b>4293410015</b>		<b>4451590041</b>

**PROVIDENT FUND ACCOUNT**  
**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>st</sup> MARCH 2017**

(Amount / Rs.)

Amount 31/03/16	Expenditure	Amount 31/03/17	Amount 31/03/16	Income	Amount 31/03/17
	<b>Interest Credited to:</b>		397678481	Interest earned on Investment	481795537
267517470	GPF Account	261196202	125812577	Add: Interest accrued during the year 2016-17	101174110
60097341	CPF Account	45997571	108166	Add: Adjustment related to previous year (GPF A/c 33 + CPF A/c 41)	74
4978	Bank Charges (GPF A/c 5303 + CPF A/c 1043)	6346	(175369379)	Less: Interest accrued for the year 2011-12, 2012-13, 2013-14, 2014-15 & 2015-16 but realized during the year 2016-17	(230416092)
20610056	Excess of Income over Expenditure	45353510			
<b>348229845</b>	<b>Total</b>	<b>352553629</b>	<b>348229845</b>	<b>Total</b>	<b>352553629</b>

**PROVIDENT FUND ACCOUNT**  
**RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2016-17**

		(Amount / Rs.)	
Receipts	Amount	Payments	Amount
Opening Balance as on 01/04/16 GPF A/c No.10851298435	37125058	GPF Adv./Withdrawal/Final Settlement	553440880
CPF A/c No.10851298457	48068865	CPF Adv./Withdrawal/Final Settlement	165011195
GPF Subscription	475912213	Investment during the year (GPF 1778000000 + CPF 1561890000)	3339890000
CPF Subscription & University Contribution	48172679	Bank Charges (GPF A/c 5303 + CPF A/c 1043)	6346
Investment Encashed (GPF 1554000000 + CPF 1514000000)	3068000000	Closing Balances: GPF A/c No.10851298435	31589169
Interest Received	481795537	CPF A/c No.10851298457	69136762
<b>TOTAL</b>	<b>4159074352</b>	<b>TOTAL</b>	<b>4159074352</b>

**NPS TIER-I ACCOUNT**  
**BALANCE SHEET AS ON 31<sup>st</sup> MARCH 2017**

(Amount /  
Rs.)

Amount 31.03.16	Liabilities	Amount 31.03.17	Amount 31.03.16	Assets	Amount 31.03.17
	<b>NPS Tier-I Account</b>				
365981	Opening Balance	373791	2422000	Investment	2617000
79694147	Add: Sub + Uni. Contribution	88485500	73833	Interest accrued but not realized	56609
7810	Add: Excess Receipt (Remittance)	--	11970	Balance at Bank Saving A/cs	83039
(79694147)	Less: Transferred to NSDL	(88493310)			
1872487	Excess of Income over Expenditure Balance as on 01.04.2015	2134012			
261525	Add: During the year	256655			
<b>2507803</b>	<b>TOTAL</b>	<b>2756648</b>	<b>2507803</b>	<b>TOTAL</b>	<b>2756648</b>

**NPS TIER-I ACCOUNT**

**INCOME & EXPENDITURE ACCOUNT FOR THE FINANCIAL YEAR 2016-17**

<b>Amount 31.03.16</b>	<b>Expenditure</b>	<b>Amount 31.03.17</b>	<b>Amount 31.03.16</b>	<b>Income</b>	<b>Amount 31.03.17</b>
1452	Bank Charges	1166	1940687	Interest received on investment	275045
261525	Excess of Income over Expenditure	256655	(1621726)	Less:	-
			(49964)	i) Interest pertain to GPF A/c (on Bonds)	-
			(79853)	ii) Interest pertain to GPF A/c (on FD)	-
			73833	iii) Interest Accrued 31/03/17	(73833)
				Add: Interest Accrued on F.D. due but not realized	56583
				Interest Accrued on SBI A/c	26
<b>262977</b>	<b>TOTAL</b>	<b>257821</b>	<b>262977</b>	<b>TOTAL</b>	<b>257821</b>

**NPS TIER-I ACCOUNT**  
**RECEIPTS AND PAYMENTS ACCOUNTS FOR THE FINANCIAL YEAR 2016-17**

		(Amount / Rs.)	
Receipts	Amount	Payments	Amount
Opening Balance as on 01/04/2016	11970		
<b>NPS Tier-I Account</b>		Investment	2617000
Own Subscription & University Contribution	88485500	Withdrawal/Refund to NSDL Excess remittance refunded	88493310
Interest Received on investment (NPS)	232565		
Interest on Saving Bank A/c	42480	Bank Charges	1166
Investment Encashment (F.D.)	2422000	Closing balance as on 31.03.2017	83039
<b>TOTAL</b>	<b>91194515</b>	<b>TOTAL</b>	<b>91194515</b>

**BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2017**

<b>FUNDS &amp; LIABILITIES</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
<b>1. <u>Capital Fund</u></b>	6315552	3996503
<b>2. <u>Current Liabilities :</u></b>		
(a) Deduction from Salary Bills	1159813	1018671
(b) Bills Payable	992400	605322
(c) Advance for work to be done	130000	130000
(d) Inter Bank Transfer	17395492	17395492
(e) Loan from UDF	10000	10000
(f) Earnest Money	50500	50500
<b>Total</b>	<b>26053757</b>	<b>23206488</b>
<b>ASSETS</b>	<b>CURRENT YEAR</b>	<b>PREVIOUS YEAR</b>
1. Machinery, Furniture & Equipment	258223	328141
2. Amount Receivable	20234958	20845348
<b>3. <u>Stock in Hand :</u></b>		
(a) Raw Material	614900	1128533
(b) Finished Goods	20640	49850
4. Work in Progress	1153000	365000
5. Cash in Bank	3770136	482316
6. Festival Advance	900	6300
7. Permanent Assets	1000	1000
<b>TOTAL</b>	<b>26053757</b>	<b>23206488</b>

**UNIVERSITY PRESS**  
**PROFIT & LOSS ACCOUNT FOR THE YEAR 2016--17**

(Amount in ₹)					
Particulars	Current Year	Previous Year	Particulars	Current Year	Previous Year
1. To <u>Opening Stock</u>			1. By <u>Income</u>		
(a) Raw Materials	1128533	811364	(a) Income from Printing and Binding	19030047	22341971
(b) Finished Goods	49850	25405			
2. To work in progress	365000	1277000			
3. To <u>Pay and Allowances</u>	6650455	7473557	2. By Closing Stock :		
(a) L.T.C	8395	353566	(a) Raw Materials	614900	1128533
(b) Tuition Fees	18000	57000	(b) Finished Goods	20640	49850
(c) Bonus	126071	44902			
(d) Medical Reimbursement	352674	266016			
4. To purchase of Raw Material	1870816	5564643	3. <u>By Work in progress</u>	1153000	365000
5. To. Misc. Contingent Exp.	35739	66364			
6. To Rate, Rent and Taxes	6379	6025			
7. To work done through Outside Agency	7817708	7853930	4. <u>By Loss for this year</u>	---	5290
8. Depreciation					
(a) Machinery, Furniture & Equipment	69918	90872			
9. Profit	2319049	Nil			
<b>TOTAL</b>	<b>20818587</b>	<b>23890644</b>	<b>TOTAL</b>	<b>20818587</b>	<b>23890644</b>



**RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2017**

(Amount in ₹)

Receipts	Current Year	Previous Year	Payments	Current Year	Previous Year
<b>I. <u>Opening Balance</u></b>			<b>I. <u>Expenses</u></b>		
Bank Balance	482316	7730739	Establishment Expenses	7160095	8033541
Deposits in Bank	---	---			
<b>II. <u>Receipts from Printing &amp; Binding work</u></b>	19640437	27160163	<b>II. <u>Other Administrative Expenses</u></b>		
			Expenditure	9339064	16449758
<b>III. <u>Deductions/Recoveries</u></b>	3280333	3333066	Festival Advance	4500	14500
Festival Advance	9900	12600	Remittance	3139191	3256453
Loan Received UDF	---	---	Earnest Money	----	----
Other receipts	---	---	Loan Received UDF	----	10000000
Interest on FDR's	---	----	<b>III. <u>Closing Balance</u></b>		
			Bank Balance	3770136	482316
<b>Total</b>	<b>23412986</b>	<b>38236568</b>	<b>Total</b>	<b>23412986</b>	<b>38236568</b>

**HALLS AND HOSTELS**  
**BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2017**

<b>SOURCE OF FUNDS</b>	<b>Current Year</b>	<b>Previous Year</b>
		Amount in ₹
CORPUS/CAPITAL FUND	249102659	221169522
DESIGNATED/EARMARKED/ENDOWMENT FUNDS	43449599	39760341
CURRENT LIABILITIES & PROVISIONS	14545250	14973043
<b>TOTAL</b>	<b>307097508</b>	<b>275902906</b>
<b><u>APPLICATION OF FUNDS</u></b>		
<b>Fixed Assets</b>		
Tangible Assets	24164990	28402677
Intangible Assets	9712	11436
Capital Works-In-Progress	0	0
<b>INVESTMENT FROM EARMARKED/ENDOWMENT FUNDS</b>		
Long Term	0	9906032
Short Term	20350202	0
<b>INVESTMENTS-OTHERS</b>	51727957	49061064
<b>CURRENT ASSETS</b>	202350708	178660692
<b>LOANS, ADVANCES &amp; DEPOSITS</b>	8548162	9915229
<b>MISCELLANEOUS EXPENDITURE</b>	(54224)	(54224)
<b>TOTAL</b>	<b>307097508</b>	<b>275902906</b>

**HALLS AND HOSTELS**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH 2017**

Particulars	Amount in ₹	
	Current Year	Previous Year
<b>(A) INCOME</b>		
Academic Receipts	47315301	52730755
Grants/Subsidies	109185694	115084624
Income from Investment	13501338	11491579
Interest Earned	2154183	2595584
Other Income	44086020	50850888
Prior Period Income	0	0
<b>Total (A)</b>	<b>216242536</b>	<b>232753430</b>
<b>(B) EXPENDITURE</b>		
Staff Payments & Benefits (Establishment Expenses)	118037989	119933527
Academic Expenses	2549808	48308
Administrative and General Expenses	52495450	64376319
Transportation Expenses	544399	570265
Repair & Maintenance	8449823	963427
Finance Costs	49394	42431
Depreciation	7456821	8594865
Other Expense	0	8210
Prior Period Expenses	0	0
<b>Total (B)</b>	<b>189583684</b>	<b>203208202</b>
<b>Excess of Income over Expenditure/(Expenditure over Income) (A-B)</b>	<b>26658852</b>	<b>29545228</b>
<b>Being Balance Surplus/(Deficit) carried to Capital Fund</b>	<b>26658852</b>	<b>29545228</b>

**HALLS AND HOSTELS**  
**RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31<sup>st</sup> MARCH 2017**

Amount in ₹

Receipts	Current Year	Previous Year	Payments	Current Year	Previous year
<b>I. Opening Balance</b>			<b>I. Expenses</b>		
- Cash in Hand	46552	278911	(a) Establishment Expenses	119219229	118581944
- Bank Balance	86082587	62190809	(b) Academic Expenses	4224063	48308
- Imprest	113578	777720	(c) Administrative Expenses	55330079	65919282
- Deposit Account	127309841	114097925	(d) Transportation Expenses	544399	570265
II. Other Bank Balances	200014	0	(e) Repairs & Maintenance Expenses	8160561	8584504
III. Grants Received	110110684	121583774	II. (a) Payments against Earmarked Fund	12837792	12676258
IV. Academic Receipts	43322539	46592774	(b) Payment against Projects	531654	0
V. Receipts against Earmarked/Endowment Funds	17978641	15313825	III. Investments and Deposits made	5324639	48379057
VI. Interest Received	7299896	3162327	IV. Expenditure on Fixed Assets & Capital work-in-Progress	3189677	11159096
VII. Income from Investments	13275330	13022047	V. Finance Charges	45287	29651
VIII. Other Income	45079149	55752119	VI. Deposits and Advances	7726193	6796359
IX. Deposits and Advances	2555877	47038156	VII. Other Payments	3683561	4773539
X. Any Other Receipts	15131083	11260433	<b>VII. Closing Balances</b>		
			- Cash in Hand	143310	46552
			- Bank Balance	92897226	86082586
			- Imprest	10240104	113578
			- Deposit Account	144407997	127309841
<b>Total</b>	<b>468505771</b>	<b>491070820</b>	<b>Total</b>	<b>468505771</b>	<b>491070820</b>