

# ANNUAL REPORT

ACHARYA NARENDRA DEV COLLEGE

*Preparing for the future.....*

2016

NAAC ACCREDITATION

GRADE 'A' | SCORE 3.31



# Annual Report

Acharya Narendra Dev College Annual Report *Session 2015 – 2016*



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## 1. Introduction

As I present this Annual Report I feel delighted; this year we have achieved two major milestones. First, we have entered the 25th year of establishment of the College. It's a good coincidence that I completed 10 years in the College as Principal in the same year. In these 10 years, I have seen the College progressing in leaps and bounds and setting higher standards of all-round education. The other reason for celebration is that we have now got grade A accreditation from NAAC, with a score of 3.31 (first cycle of accreditation) the second highest among all the Colleges of the University, till date.

Over the last three years the College has been bagging prizes for 'Best Practices' at Antardhvani – an intercollege multidimensional competition among colleges of the University of Delhi. Last year we excelled ourselves and got the first prize. Then the question arose – what next? Have we achieved our best or is there something else we should take as a challenge? This year we applied for NAAC accreditation where we were sure of getting the 'A' grade, not because we were overconfident but because we believed in our good practices and our collective strength. The real task was to get a good score. I am happy that we all stood up to this challenge like a family and worked together to get a score which many reputed and much talked about colleges of University of Delhi could not.

We were able to achieve this milestone due to our consistent belief in our 'Good Practices' – research by faculty and students, entrepreneurship development, social services through NSS, theatre in education, OER, providing equal opportunities to students belonging to different strata of society, etc.

There are many other proud moments this year. Dr. Gagan Dhawan from Department of Biomedical Science was selected for Meritorious Teachers Award by Govt. of NCT of Delhi. He was also awarded the UGC Raman Fellowship for post-doctoral research in US. Six faculty members were awarded 'Teaching excellence award for innovation' by University of Delhi.

The college was granted 11 Innovation projects from University of Delhi. Four of our students have been given Science Meritorious Award by Faculty of Science, University of Delhi for securing merit positions in the University examinations.

We are celebrating the Silver jubilee year through various activities planned throughout the year in a celebration – *Rajatotsav*. A special logo, designed by one of our students, has been adopted for the year. A three-day festival comprising of various activities such as *Darpan* (Exhibition), *Manthan* (interschool and intercollege debate competition), *Rangmanch* (the inter-college street play competition), *Dhumki* (the inter-school folk dance competition) and *Exquizit* (the inter-college quiz competition) – were organized from Feb 6-8, 2016. An inter-college volleyball (Women's and Men's) tournament with 24 teams was also organized.

Like every year this year too was full of various activities and several achievements that are documented in the pages ahead.



## 2. Research

Acharya Narendra Dev College believes in preparing interested students for a career in science and towards that end promotes research at the UG levels through various schemes.

### 2.1 Research Initiatives at the UG Level

#### 2.1.1 ELITE – ‘Education in a Lively Innovative Training Environment’ Summer Fellowship:

During summer 2015, 94 students undertook projects of two months duration under this scheme. Each student earned a fellowship of Rs. 1000/- p.m.

S. No.	Title of the Project	Mentor(s)	Details of the Students and Course
1.	Discovery of mycobacteriophages and characterization of Lysin A gene from various phages	Dr. Urmi Bajpai and Dr. Abhishek Kumar Mehta (Biomedical Science)	Anshul Aggarwal, Antra Kumari, Arti Yadav, Lakshya Wadhwa, Sakshi Kaushik, Shiva Shekhar [B.Sc. (H) Biomedical Science, II yr], Anushka Saxena, Harshit Arora, Maitreyee Kuhu [B.Sc. (H) Biomedical Science, I yr]
2.	Extraction of lipase from germinating seeds of groundnut & castor and study the <i>in-vitro</i> fat hydrolysis	Dr. Gagan Dhawan and Dr. Satendra Singh (Biomedical Science)	Rahul Shaha (KVPY Fellow) [B.Sc. (H) Biomedical Science, I yr]
3.	Extraction of lipase from germinating seeds of soybean and study the <i>in-vitro</i> fat hydrolysis	Dr. Gagan Dhawan and Dr. Satendra Singh (Biomedical Science)	Shiwani Katiyar [B.Sc. (H) Biomedical Science, II yr]

S. No.	Title of the Project	Mentor(s)	Details of the Students and Course
4.	Identification of a novel protein in <i>Methylobacterium tuberculosis</i> through proteogenomics using its mass spectroscopic data	Dr. Gagan Dhawan and Dr. Uma Dhawan (BCAS) (Biomedical Science)	Sristi Vajpayee [B.Sc. (H) Biomedical Science, I yr]
5.	Search for a novel protein in bacteria through analyzing its proteogenomics data using genosuite	Dr. Gagan Dhawan and Dr. Uma Dhawan (BCAS) (Biomedical Science)	Aparna Shandeep [B.Sc. (H) Biomedical Science, I yr]
6.	Green synthesis and antimicrobial activity of silver nanoparticles	Dr. Gagan Dhawan (Biomedical Science)	Rashi Aggarwal [B.Sc. (H) Biomedical Science, II yr]
7.	Synthesis and study of metallic nanoparticles by green synthesis	Dr. Gagan Dhawan (Biomedical Science)	Akanksha Kanojia [B.Sc. (H) Biomedical Science, II yr]
8.	Design and development of optical biosensor for trypsin.	Dr. Gagan Dhawan (Biomedical Science), Dr. Seema Gupta and Dr. Manisha Jain (Chemistry)	Nitish Malhotra [B.Sc. (H) Biomedical Science, II yr]
9.	Isolation and identification of local microalgae	Dr. Anupama Shukla and Dr. Anita Narang (Botany)	Bishal Kumar Das, Deepak Kumar, [B.Sc. (H) Botany, II yr] Dhara Awasthi, Arwind Yadav [B.Sc.(H) Biomedical Science I yr]
10.	(a) To test the presence of secondary metabolites in <i>Datura</i> and compare their presence in different plant extracts (b) To study the effect of plant extract on bacterial culture.	Dr. Anita Narang (Botany)	Nandita, Gunjan, Anvita [B.Sc. (H) Botany, II yr]

S. No.	Title of the Project	Mentor(s)	Details of the Students and Course
11.	Assessing adulterants in various food products	Dr. Seema Gupta and Dr. Manisha Jain (Chemistry)	Rajeev Kumar, Vinod Kumar [B.Sc.(H) Chemistry, I yr]
12.	Plastics: a boon or a bane	Dr. Seema Gupta and Dr. Manisha Jain (Chemistry)	Nishtha Arora, Chetan Chaudhary [B.Sc.(H) Chemistry, I yr]
13.	Greener approach to synthesis and characterization of oxalamide derivative of 2-aminobenzothiazole	Dr. Manisha Jain (Chemistry)	Pankaj Kushwaha [B.Sc.(H) Chemistry, II yr]
14.	Exploring synthetic routes to prepare hetero-cyclic compounds and their derivatives	Dr. Manisha Jain (Chemistry)	Suraj Singh [B.Sc.(H) Chemistry, II yr]
15.	Exploring copper coordination chemistry	Dr. Manisha Jain (Chemistry)	Sumit Tiwari, Prashant Singh [B.Sc.(H) Chemistry, I yr]
16.	Peptide chemistry: An attempt to explore solid phase peptide synthesis	Dr. Manisha Jain and Ms. Swarndeep Kaur (Chemistry)	Sundaram Maurya [B.Sc.(H) Chemistry, II yr]
17.	Fabrication of ion-exchange resins from natural protein (Casein)	Dr. Sunita Hooda and Dr. Madhu Bala Raigar (Chemistry)	Meenu Upadhyay [B.Sc. (H) Chemistry, I yr]
18.	Synthesis and characterization of ion exchange resin by guar gum with N, N – Dimethyl aniline	Dr. Sunita Hooda and Dr. Madhu Bala Raigar (Chemistry)	Gayatri Batra, Sakshi Tyagi [B.Sc. (H) Chemistry, I yr]
19.	Synthesis and characterisation of ion exchange resin by cellulose with N, N-Dimethyl aniline	Dr. Sunita Hooda and Dr. Madhu Bala Raigar (Chemistry)	Kajal Singhal and Yogesh Kumar [B.Sc. (H) Chemistry, I yr]

S. No.	Title of the Project	Mentor(s)	Details of the Students and Course
20.	Designing of galvanic cells for different redox reactions and verification of Nernst equation	Dr. Neeti Misra and Dr Pankaj Khanna (Chemistry)	Shivani Goel, Palak Sharma, [B.Sc. (H) Chemistry, I yr]
21.	Extraction of medicinal compounds from plants and plant parts	Dr Pankaj Khanna, Dr. Neeti Misra and Dr. Kavita Singhal (Chemistry)	Raghuv eer Verma, Sonu Kumar, [B.Sc. (H) Chemistry, II yr]
22.	Departmental student information system	Dr. Sunita Narang, Ms. Priyanka Sharma (Computer Science)	Ankit Srivastava, Mohd. Bilal, Priya Singh, Vikash Kumar [B.Sc. Phy.Sc. (Comp. Sc.) I yr]
23.	Movie recommender system	Dr. Harita Ahuja Dr. Sunita Narang (Computer Science)	Nancy, Rohit, Mangesh, Sudhakar [B.Sc. (H) Electronics, I yr]
24.	FM radio station	Dr. Sona P. Kumar and Ms. Sangeeta Mokhria (Electronics)	Manoj Prajapati, Ankit Singh [B.Tech. Electronics, II yr]
25.	Solar powered irrigation system	Dr. Sona P. Kumar and Ms. Sangeeta Mokhria (Electronics)	Nikhil Jain, Pradeep Kumar Prabhakar [B.Tech.Electronics, II yr]
26.	Wireless electronic notice board	Dr. Sona P. Kumar and Ms. Sangeeta Mokhria (Electronics)	Shubham Agarwal, Vishnu Rathore [B.Tech. Electronics, II yr]
27.	Solar-powered LED street light with intensity control	Dr. Sona P. Kumar and Ms. Gauri Ghai (Electronics)	Ankit Baliyan, Kiran, Amrita Kumari, Rashmi [B.Tech. Electronics, II yr]
28.	Wireless connectivity of home appliances	Dr. Anju Agrawal and Ms. Anita Kumari (Electronics)	Harshit Agrawal, Rohit Kumar Jha, Pankaj Dhaundiyal, Vikram Maurya [B.Tech. Electronics, II yr]

S. No.	Title of the Project	Mentor(s)	Details of the Students and Course
29.	Understanding data acquisition and its application in the field of environment monitoring	Dr. Amit Garg (Electronics)	Sarthak Chauhan, Raj Kumar, Rakesh Roshan, Sadashiv Raj Bhardwaj [B.Tech. Electronics, II yr]
30.	Wireless power transfer using inductive resonant coupling	Mr. Vishal Dhingra (Electronics)	Shubham Kumar, Rahul Kumar Jha, Shivam Mishra [B.Tech. Electronics, II yr]
31.	Sun-tracking solar panel system	Dr. Sanjeeta Rani and Dr. Vinita Suyal (Physics)	Munendra Singh, Mohd. Azam, Tejmani Kumar [B.Sc.(H) Physics, III yr]
32.	Measuring quanta of radiation in cell phones	Dr. Arijit Chowdhuri (Physics)	Sunita Gupta [B.Sc. Physical Science (Electronics), I yr]
33.	A study on effect of ultraviolet radiation on the anterior regeneration of the earthworms, <i>Eisenia fetida</i>	Dr. Arijit Chowdhuri (Physics) and Dr. Charu Khosla Gupta (Botany)	Abhishek Singh [B.Sc. (H) Botany, II yr] Jabili Chowdari [B.Sc. (H) Biomedical Science, I yr]
34.	A study on effect of earthworms on methane emission from compost	Dr. Arijit Chowdhuri (Physics) and Dr. Charu Khosla Gupta (Botany)	Tripti Singh [B.Sc. (H) Botany, II yr], Khushboo Singh, Kajal Kumari [B.Sc. (H) Biomedical Science, I yr]
35.	Comparison of indoor air pollution due to different sources	Dr. Arijit Chowdhuri (Physics), Dr. Charu Khosla Gupta (Botany)	Pragya Yagnik, Shweta Singh Dr. Sarita Kumar (Zoology) [B.Sc. (H) Botany, II yr]
36.	Phytochemical screening of seed kernels of mango ( <i>Mangifera indica</i> )	Dr. Sarita Kumar (Zoology)	Prince Upadhyay, Amit Kumar [B.Sc. (H) Zoology, I yr]
37.	Investigations on the survival and development of <i>Sitophilus oryzae</i> in different varieties of rice grains	Dr. Sarita Kumar (Zoology)	Komal Mewari and Ritika Singh [B.Sc. (H) Zoology, I yr]

S. No.	Title of the Project	Mentor(s)	Details of the Students and Course
38.	Study of nutrition and regeneration of anterior segments in the clitellated earthworm <i>Eisenia fetida</i>	Dr. Sarita Kumar (Zoology)	Aashi Aggarwal, Jatin Mathur, Jyoti Pal, Mahima Bose [B.Sc. (H) Biomedical Science, I yr]
39.	Ciliate diversity as cellular tool to assess soil quality	Dr. Ravi Toteja and Dr. Seema Makhija (Zoology)	Shiv Jangra, Sidhanth Zutshi [B.Sc. (H) Zoology, I yr]
40.	Quantitative estimation of fresh water samples of Delhi by testing their physico-chemical properties	Dr. Ravi Toteja and Dr. Seema Makhija (Zoology)	Ashish Choudhary [B.Sc. (H) Zoology, I yr]
41.	Spread sheet for calculation of basal metabolic Index	Dr. Ravi Toteja and Dr. Seema Makhija (Zoology)	Rahul Dev, Gayatri [B.Sc. (H) Zoology, I yr]

## 2.1.2. Student-Projects through the Innovation & Entrepreneurship Development Centre (IEDC) 2014-2016

S. No.	Project Title	Students	Mentor/s
1.	Development of alternative antibacterial through bacteriophage derived proteins isolated from India	Shazeb Ahmad, Rahul Kushwaha, Simran Virdi [B. Sc. (H) Biomedical Science II yr]	Dr. Urmi Bajpai (Biomedical Science)
2.	Extraction of microbial enzymes from kitchen waste and preparation of biological detergent	Rahul Saha (KVPY Fellow) [B. Sc. (H) Biomedical Science II yr] Shiwani Katiyar and Nitish Malhotra [B. Sc. (H) Biomedical Science III yr]	Dr. Gagan Dhawan (Biomedical Science) Dr. Seema Gupta and Dr. Manisha Jain (Chemistry)

S. No.	Project Title	Students	Mentor/s
3.	Development of low cost disinfectant using cow urine	Vineet Kumar Pal, Manisha, Atul Kumar [B. Sc. (H) Biomedical Science III yr]	Dr. Neeti Misra, Dr. Pankaj Khanna (Chemistry)
4.	Multipurpose quadcopter	Ankit Pant, Avi, Shubhankar [B.Tech Computer Science III yr] Anuj Gupta, Ashutosh Gupta [B.Tech. Electronics III yr]	Dr. Sona P. Kumar (Electronics) Dr. Vibha Gaur (Computer Science)
5.	Formulation of mehndi remover using natural products	Nandini Sahni, Sakshi Bhardwaj, Priyanka Das Gupta [B.Sc. (H) Zoology III yr]	Dr. Sarita Kumar (Zoology)

### 2.1.3. Embedded Systems and Robotics Laboratory (ESRL)

#### Mentor: Dr. Amit Garg

ESRL inaugurated a Robotics Society 'Innov8' on Nov 3, 2015. The following are the office bearers of 'Innov8' for the year 2015-16

1. President - Sadashiv Raj Bharadwaj, B.Tech. Electronics, III yr
2. Vice-President - Raj Kumar, B.Tech. Electronics, III yr
3. Secretary - Sarthak Chauhan, B.Tech. Electronics, III yr

The Society is aimed at conducting a series of workshops by dividing the entire robotics course into five different modules. The first workshop "Robotics 101: Microcontrollers and its programming" was conducted from Nov 3-6, 2015. A hundred students were trained on Firebird V in batches. The students were provided laptops with the necessary softwares installed on them for the programming tutorial.

Six teams from ANDC have qualified to participate in eYRC+ 2015 (e-LSI) Search and Rescue theme. The team leaders are Abhishek Gupta, Deepak Kumar, Manoj Prajapati, Vikram Maurya, Anuj Gupta and Rahul Kumar Jha (all from B.Tech. Electronics, III yr).

The following students qualified for Stage-2 of the National Level e-Yantra Robotics Competition, Plus, organized by IIT, Bombay, (e-YRC 2015).

1. Mr. Sadashiv Raj Bharadwaj      B.Tech. Electronics, III yr
2. Ms. Ayesha Rustgi                B.Tech. Electronics, III yr
3. Mr. Raj Kumar                      B.Tech. Electronics, III yr
4. Mr. Saksham Tyagi                B.Tech. Electronics, III yr

## 2.2. Research Projects

### 2.2.1. Extramurally Funded Projects under Progress /Sanctioned in 2015-16

Investigators	Title of the Project	Funding Agency	Rs. (Lakhs)
Dr. Arijit Chowdhuri (PI), Dr. Savithri Singh (Co-PI) & Dr. Charu K. Gupta (Co-PI) (2015-2018)	Exposure-Response assessment of Ambient Air Pollution (AAP) and Hg contamination in affected cities of India and Slovenia: A comparative study	DST (Indo-Slovenia joint project)	17.00
Dr. Subhash Kumar (2014-2017)	Analysis of light curves of variable stars	SERC, DST	6.60
Dr. Urmi Bajpai (2013 - 2016)	Mtb Mur pathway enzymes: Potential candidates for multi-target therapy	CSIR – OSDD	37.63
Dr. Seema Makhija & Dr. Ravi Toteja (2012 - 2015)	Stress-Induced induction of Metallothioneins (MTs) gene in ciliates and its use as biomarker to assess environmental pollution	UGC	9.42
Dr. Seema Makhija & Dr. Ravi Toteja (2012 - 2015)	A study on heavy metal-induced stress response at cellular and molecular level in ciliates for the development of a potential biosensor	DST	21.0
Dr. Monisha Khanna (2012 - 2015)	Extraction and activity analyses of extracellular enzymes from soil actinomycetes	UGC	9.72
Dr. Vibha Gaur & Mr. Sanjay Vohra (2010-2016)	Innovation and Entrepreneurship Development Centre (IEDC) – It provides funds for 5 innovative projects by students each year	DST	5.00 (total 27.55)



## 2.2.2. Innovation Projects Sanctioned by the University of Delhi in 2015-16

Title of the Project	Faculty (Department)	Mentors	Funds Rs. (Lakhs)
<b>ANDC 301</b> 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	Dr. Charu Khosla Gupta (Botany) Dr. Sarita Kumar (Zoology)	Ms. Sonia Kapur, Programme Manager, MSME Umbrella Programme, <i>Deutsche Gesellschaft fur Internationale (GIZ) GmbH</i>	6.00
<b>ANDC 302</b> Biodegradation of wastes by microbial extracellular enzymes	Dr. Monisha Khanna & Mr. Ravinder Kumar Sagar (Zoology) Dr. Sunita Hooda (Chemistry)	Prof. R.C. Kuhad, Vice Chancellor, Central University of Haryana	6.50
<b>ANDC 303</b> Ciliate diversity as cellular tool to assess soil quality	Dr. Ravi Toteja & Dr. Seema Makhija (Zoology) Dr. Geetu Gambhir (Chemistry)	Prof. D.K. Singh, Department of Zoology, University of Delhi	6.50
<b>ANDC 304</b> 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	Dr. Arijit Chowdhuri (Physics) Dr. Chaman Singh & Dr. Sadanand Prasad (Mathematics)	Mr. Amit Jha Programme Manager <i>Deutsche Gesellschaft fur Internationale (GIZ) GmbH</i>	6.00
<b>ANDC 305</b> Designing a virtual chemistry lab for undergraduate students	Dr. Pankaj Khanna & Dr. Neeti Misra (Chemistry) Dr. Vibha Gaur (Computer Science)	Prof. Pankaj Tyagi, Cluster Innovation Centre, University of Delhi	6.00

Title of the Project	Faculty (Department)	Mentors	Funds Rs. (Lakhs)
<b>ANDC 306</b> The design, synthesis and biological evaluation of oxindole based isoxazolines towards the analog synthesis of marine natural product Flustraminol-B	Dr. Gagan Dhawan (Biomedical Science) Dr. Seema Gupta & Dr. Pooja Bhagat (Chemistry)	Dr. Kallolmay Biswas, Senior Scientist Jubilant ChemSys Ltd, Noida	4.50
<b>ANDC 307</b> Digital India: Challenges and opportunities	Dr. Sunita Narang (Computer Science) Dr. Shalu Mahajan & Dr. Surinder Kaur (Commerce)	Prof. Monica Singhania, Faculty of Management Studies, University of Delhi	3.50
<b>ANDC 308</b> Analysis of the efficacy of plant sources recommended as brain tonics	Dr. Geetika Kalra & Dr. Saumya Saxena (Botany) Dr. Manisha Jain (Chemistry)	Prof. S.C. Bhatla, Department of Botany, University of Delhi	4.00
<b>ANDC 309</b> Leveraging big data for astronomy and health care	Dr. Mamta Bhatia & Dr. Subhash Kumar (Physics) Ms. Sunita Jetly (Biomedical Science)	Prof. R.K. Agarwal, JNU	5.00
<b>ANDC 310</b> Development of an all-in-one module for real time agricultural data acquisition and processing	Dr. Roopesh Tehri (Mathematics) Dr. Harita Ahuja (Computer Science)	Mr. Sunil Piplani, Consultant Excel Technologies	5.00
<b>ANDC 311</b> Development of a multi-sensor gesture controlled wheelchair system for persons with disability	Dr. Amit Garg and Mr. Vishal Dhingra (Electronics) Dr. Abhishek Kumar Mehta (Biomedical Science)	Dr. Anita Talwar, Managing Director, Gentech	5.00

## 2.3. Research Supervision

### 2.3.1. Post Doctoral Fellows Enrolled under the Supervision of ANDC Faculty

Supervisor (Department)	Post Doctoral Fellow	Area of Work and Date of Registration
Dr. Sarita Kumar (Zoology)	Dr. Shrankhla	UGC Post-doctoral fellow working on 'Adjustment for the larvicidal potentiality of vegetables and fruits waste against mosquito vectors (Registered in Nov 2015)

### 2.3.2. Ph.D. Students Enrolled under the Supervision of ANDC Faculty

Supervisor (Department)	Ph.D. Student	Area of Work and Date of Registration
Dr. Urmi Bajpai (Biomedical Science)	Eniyan Kanadasamy	New drugs targets for <i>Mycobacterium tuberculosis</i> (Registered in Dec 2011)
Dr. Sunita Hooda (Chemistry)	Shyam Lal	Synthesis, characterization, kinetics and biological application of some metal complexes (Registered in Oct 2012)
Dr. Sharanjit Kaur (Computer science)	Rakhi Saxena	Mining large graphs (Registered in Mar 2014)
Dr. Amit Garg (Electronics)	Vishal Dhingra	Growth and characterization of Graphene oxide loaded with nano crystalline ZnO clusters for gas sensing applications (Registered in Dec 2014)
	Shani Kumar	Growth and characterization of a composite system based on reduced Graphene oxide for water purification application (Registered in Dec 2014)
Dr. Udaibir Singh (Electronics)	Jyoti Kashyap	Study and analysis of structures of plasmonic solar cells (Registered in Dec 2014)
	Manju Rani	Theoretical investigation of plasmonic solar cells (Registered in May 2015)

Supervisor (Department)	Ph.D. Student	Area of Work and Date of Registration
<b>Dr. Monisha Khanna</b> (Zoology)	Prateek Kumar	Microbial technology (Registered in Jan 2016)
	Payal Das	Exploring useful bacteria from soil for production of secondary metabolites (Registered in Mar 2013)
<b>Dr. Sarita Kumar</b> (Zoology)	Roopa Rani Samal	Insecticidal resistance in mosquito (Registered in Jan 2016)
<b>Dr. Seema Makhija</b> (Zoology), <b>Dr. Vibha Gaur</b> (Computer Science) and <b>Dr. Gagan Dhawan</b> (Biomedical Science) are also recognized as Ph.D. guides by University of Delhi.		

### 2.3.3. Ph.D./M.Tech. Awarded under the Supervision of ANDC Faculty in 2015-16

Supervisor (Department)	Name of the Student	Thesis Title and Award date
<b>Dr. Gagan Dhawan</b> (Biomedical Science)	Pallawi Kumari	M.Tech. Dissertation project entitled 'Functional characterization of hypothetical proteins of <i>Plasmodium falciparum</i> ' (M.Tech. awarded in Jun 2015)
<b>Dr. Sarita Kumar</b> (Zoology)	Monika Mishra	Evaluation of bio-efficacy of <i>Thevetia nerifolia</i> extracts on the growth and development of <i>Helicoverpa armigera</i> (Lepidoptera: Noctuidae) (Ph.D. awarded in Mar 2016)

### 2.3.4. External Students Trained under ANDC Faculty in 2015-16

Supervisor (Department)	Candidate	Project Title
<b>Dr. Urmi Bajpai</b> (Biomedical Science)	Avni Sinha (Jun 2015-Jun 2016) Yashwee Sinha (Dec 2015-Mar 2016) Imtiyaz Ghulami (Dec 2015-Jun 2016) TCOF fellowship	Computational identification, purification and functional analysis of proteins from mycobacteriophages and to explore their anti-mycobacterial potential

Supervisor (Department)	Candidate	Project Title
<b>Dr. Urmi Bajpai</b> (Biomedical Science)	Jyoti Rani (ICMR SRF) (since Jan 2016) (Joint supervision with Dr. Ramchandran, Senior Scientist, Institute of Genomics and Integrative Biology (IGIB) Mathura Road, Delhi)	Integrative modelling of metabolic reactions with transcriptomics data in type 2 diabetes associated comorbidity tuberculosis
<b>Dr. Gagan Dhawan</b> (Biomedical Science)	Kundan Kumar (April-Jul, 2015) (M.Sc. Bioinformatics, Jamia Millia Islamia)	Four months project in computational biology
<b>Dr. Arijit Chowdhuri</b> (Physics) <b>Dr. Charu K Gupta</b> (Botany)	Lalita Dagar, Rekha Chauhan (M.Sc. Physics , Banasthali Vidyapeeth, Rajasthan ) (May-Jun 2015)	Studies on understanding and measuring Ambient Air Pollution (AAP)
<b>Dr. Monisha Khanna</b> (Zoology)	Pagmadulam Baldorj Research Training Fellowship for Developing Country Scientists (RTF-DCS Trainee, Mongolia) (Jan 2016 – Jul 2016)	Molecular biodiversity of microorganisms isolated from mongolia and screening for effective and industrially important strains

### 3. Affiliate of National and International Organisations

#### 3.1. Creative Commons (CC)

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**Affiliate: Dr. Savithri Singh**

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As an Affiliate of the Creative Commons (CC) in India Dr. Savithri Singh was invited as an expert for a key meeting on 'Open Educational Resources: Roadmap' organised by UNESCO in Paris on Mar 30-31, 2016.

#### 3.2. University of Delhi at ANDC SPIE Student Chapter

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**Faculty Advisor: Dr. Amit Garg**

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The office bearers of the ANDC SPIE (Society of Photo-Optical Instrumentation Engineers) Student Chapter office this year are: Sadashiv Raj Bharadwaj (President), Raj Kumar (Vice President), Ayesha Rustagi (General Secretary) and Sarthak Chauhan (Treasurer). A total of 70 new members were inducted in the year 2015-2016.

The SPIE Officer's Travel Grant for the year 2015-16 was awarded to Vivek Trivedi of B.Sc.(H) Physics, III yr. Sadashiv Raj Bhardwaj (B.Tech. Electronics, III yr) attended SPIE.FOCUS Armenia: 3rd International Symposium on 'Optics & its Applications'. Nine students doing research work supported by SPIE Chapter participated in a number of conferences and presented their papers and projects (Details in Section 4 of this Annual Report).

#### 3.3. NNMCB-Delhi Node @ ANDC

**Mentor: Dr. Gagan Dhawan**

Dr. Gagan Dhawan continues to be a mentor in the Delhi Node of the National Network of Mathematical and Computational Biology (NNMCB) funded by Science and Engineering Research Board, Government of India that provides hands-on training in mathematical and computational biology to both undergraduate/postgraduate students by organizing national and international visitors' programmes and workshops.

Acharya Narendra Dev College, in association with NNMCB-Delhi Node organized a three-day instructional workshop on 'Proteomics and Proteogenomics: Hands-on Protein Identification and Gene Discovery from Mass Spectrometry Data' from Oct 10-12, 2015.

The workshop focused on introduction to mass spectrometry and proteomics, peptide and protein discovery from MS/MS data, genome annotation process and limitations, gene prediction, recent advances in quantitative proteomics, proteogenomic re-annotation of microbial genome, discovery of novel genes and confirmation of hypothetical proteins. The workshop had 70 participants (01 post-doctoral, 27 doctoral, 18 postgraduates and 16 undergraduates). The training/practical knowledge gained through this workshop could help the participants in enhancing their skills in research and their potential for employment. The resource persons for the workshop included Debasis Dash (CSIR-IGIB), Amit Kumar Yadav (DBT-THSTI), Uma Dhawan (BCAS, DU), Dharendra Kumar (CSIR-IGIB) and Gagan Dhawan (ANDC, DU). The Organising Committee of the workshop consisted of Dr. Savithri Singh (Principal, ANDC), Dr. Gagan Dhawan (ANDC) and Dr. Sanjay Jain (Department of Physics, DU).

## 4. Students' Corner

### 4.1. Students' Achievements, Scholarships and Aids

#### 4.1.1. Merit Positions in the University of Delhi (2014-2015)

S. No.	Name of the Student	Course	Position
1	Madan Kathiwada	B.Sc. (H) Biomedical Science I yr	II
2	Divyansh Mittal	B.Sc. (H) Biomedical Science III yr (Overall three years)	II
3	Aayush Kumar	B.Sc. (H) Chemistry II yr	I

#### 4.1.2. Merit Positions in the University of Delhi South Campus (UDSC) (2014-15)

S. No.	Name of the Student	Course	Position
1	Madan Kathiwada	B.Sc.(H) Biomedical Science I yr	II
2	Divyansh Mittal	B.Sc.(H) Biomedical Science III yr	II
3	Aayush Kumar	B.Sc.(H) Chemistry II yr	I
4	Shivam Agarwal	B.Sc.(H) Computer Science I yr	III
5	Rohit Verma	B.Sc. Physical Science (Chemistry) III yr	II
6	Saurav Kumar Jha	B.Sc. Physical Science (Comp.Sc.) I yr	II
7	Divamani Bajpai	B.Sc. Physical Science (Comp.Sc.) III yr	III

#### 4.1.3. First Positions in Acharya Narendra Dev College (2014-15)

S. No.	Course		Name of the Class Topper
1	B.Sc. (H) Biomedical Science	I yr	Madan Kathiwada
		II yr	Vineet Kumar Pal
		III yr	Divyansh Mittal
2	B.Sc. (H) Botany	I yr	Moksha Mangotra
		II yr	Nandita
		III yr	Nidhi Varshney
3	B.Sc. (H) Chemistry	I yr	Nisha Yadav
		II yr	Aayush Kumar
		III yr	Pooja Rawat



S. No.	Course		Name of the Class Topper
4	B.Com. (H)	I yr	Arvind
		II yr	Swati Garg
		III yr	Divya
5	B.Sc. (H) Computer Science	I yr	Shivam Agarwal
		II yr	Monika
		III yr	Poonam Gupta
6	B.Sc. (H) Electronics	I yr	Mangesh Sharma
		II yr	Amrita Kumari
		III yr	Sparsh Bajpai
7	B.Sc. Life Science	I yr	Barkha Aggarwal
		III yr	Jatin Bhatt
8	B.Sc. (H) Mathematics	I yr	Balbeer Singh
		II yr	Sajal Kumar
		III yr	Jatin Mahajan
9	B.Sc. Physical Science (Chemistry)	I yr	Neha Chaudhary
		III yr	Rohit Verma
10	B.Sc. Physical Science (Comp.Sc.)	I yr	Saurav Kumar Jha
		III yr	Divamani Bajpai
11	B.Sc. Physical Science (Electronics)	I yr	Devesh Bharra
		III yr	Nikhil Kumar
12	B.Sc. (H) Physics	I yr	Deepak Kumar
		II yr	Salil batabyal
		III yr	Abhrajit Bhattacharjee
13	B.Sc. (H) Zoology	I yr	Kanika Arora
		II yr	Priyanka Das Gupta
		III yr	Geetika Arora

#### 4.1.4. Scholarships and Awards

##### 1) Science Meritorious Award (Faculty of Science, University of Delhi)

Name of the Student	Course	Amount (Rs.)
Saranya Nair	B.Sc.(H) Botany II yr	3000
Aayush Kumar	B.Sc.(H) Chemistry II yr	3000

Name of the Student	Course	Amount (Rs.)
Priyanka Dasgupta	B.Sc.(H) Zoology II yr	3000
Nandini Sahani	B.Sc.(H) Zoology III yr	2980

### 2) Sh. Sultan Chand Endowment Scholarship (2015) Rs. 3500/-

Swati Garg, B.Com. (H) III yr (section B)

### 3) Dr. (Ms.) Usha Aggarwal Tejaswini Scholarship, Rs.3600/- each

Name of the Student	Course
Sucheta Bist	B.Com. (H) II yr (Section B)
Arvind	B.Com. (H) II yr (Section B)
Gunjan Arora	B.Com. (H) III yr (Section A)

### 4) D.C. Arora Scholarship (2015), Rs 6000/- each

*Needy Category:*

1. Imran, B.Sc. (H) Mathematics III yr
2. Himanshi, B.Com. (H) III yr

*Meritorious Category:*

1. Pragya Yagnik, B.Sc. (H) Botany III yr
2. Manas Sharma, B.Sc. (H) Physics III yr

### 5) Pushpa Paul Memorial Scholarship (2014), Rs. 15000/- each:

1. Sunita Gupta, B.Sc. Physical Science (Electronics) II yr
2. Nandini Sahni, B.Sc. (H) Zoology III yr

### 6) Student Aid for Knowledge, Success, Honour and Motivation (SAKSHAM)

The college continues to offer a helping hand, to needy and deserving students, in the form of financial aid through SAKSHAM. This scheme collects Rs. 100/- as SAF from students, besides some monthly donation by faculty, non-teaching staff and well-wishers. After a rigorous evaluation of the needs, selected students are supported in the following categories:

1. Full fee waiver (Except Security Deposit)
2. A stipend of Rs. 800/- per month for ten months
3. Book bank aid (5 books for every grantee)
4. Stationery + photocopying up to Rs. 3000/- for the whole academic year

This year, the following students were supported in one or more of the above categories:

#### April 16, 2015

S. No.	Name of the Student	Course
1	Mohd. Sharik Ansari	B.Sc. (H) Botany I yr
2	Noorul Hasan	B.Sc. (H) Computer Science I yr
3	Deepak Kumar	B.Sc. (H) Physics I yr
4	Arvind Kumar	B.Sc. (H) Physics I yr
5	Himanshi	B.Com. (H) II yr
6	Alok Yadav	B.Sc. (H) Mathematics I yr
7	Shivani Gulati	B.Sc. (H) Mathematics I yr
8	Ashish Gautam	B.Sc. (H) Mathematics II yr
9	Nandini Sahani	B.Sc. (H) Zoology II yr
10	Sushila	B.Com. (H) I yr

#### Sept 1, 2016

S. No.	Name of the Student	Course
1.	Safal Golas	B.Com. (H) I yr
2.	Umesh	B.Com. (H) II yr
3.	David	B.Com. (H) II yr
4.	Rishabh Kumar	B.Sc. (H) Computer Science I yr
5.	Siddharth Mishra	B.Sc. (H) Computer Science I yr
6.	Maneesh Kumar	B.Sc. (H) Electronics I yr
7.	Deepak Kumar	B.Sc. (H) Mathematics I yr
8.	Alok Kumar	B.Sc. (H) Mathematics II yr
9.	Kailash Singh Kushwaha	B.Sc. (H) Mathematics II yr
10.	Shivani Gulati	B.Sc. (H) Mathematics II yr

S. No.	Name of the Student	Course
11.	Shivpal Singh	B.Sc. (H) Mathematics III yr
12.	Deepak Kumar	B.Sc. (H) Physics II yr
13.	Munendra Singh	B.Sc. (H) Physics III yr
14.	Tejmani Kumar	B.Sc. (H) Physics III yr
15.	Mohammad Azam	B.Sc. (H) Physics III yr
16.	Salil Batabyal	B.Sc. (H) Physics III yr
17.	Aman	B.Sc. (H) Zoology I yr
18.	Komal Mewari	B.Sc. (H) Zoology II yr
19.	Sehar Usman	B.Sc. (H) Zoology II yr
20.	Nandini Sahni	B.Sc. (H) Zoology III yr
21.	Noorul Hasan	B.Sc. (H) Computer Science II yr
22.	Kishan Halder	B.Tech. Computer Science III yr
23.	Sumit Kumar	B.Sc. Physical Science (Chemistry) I yr
24.	Jyoti Kumari	B.Sc. Physical Science (Chemistry) I yr
25.	Km. Priyansha	B.Sc. Physical Science (Comp. Sc.) II yr
26.	Sunil Kumar	B.Sc. Physical Science (Comp.Sc) II yr
27.	Sunita Gupta	B.Sc. Physical Science (Electronics) II yr
28.	Priya Singh	B.Sc. Physical Science (Comp.Sc.) II yr
29.	Aman Kumar Kushwaha	B.Sc. (H) Mathematics I yr
30.	Ravi Kumar Gupta	B.Sc. (H) Mathematics I yr
31.	Paramhans	B.Sc. (H) Mathematics I yr

## 7) Ms. Teena Gupta Memorial Scholarship

This scholarship has been constituted in the memory of Ms. Teena Gupta, who departed as a young teacher of Department of Computer Science and was an alumnus of Department of Electronics from our college. The fellowship is worth Rs. 6,000/- each and is awarded to needy cum deserving students of B.Sc. (H) Electronics and B.Sc. Physical Science (Computer Science). This year, the following students were awarded:

1. **Priya Singh**, B.Sc. Physical Science (Computer Science), II yr
2. **Sagar**, B.Sc. Physical Science (Computer Science), II yr

3. **Maneesh Kumar**, B.Sc. (H) Electronics, I yr
4. **Udit Kumar Gupta**, B.Sc. (H) Electronics, II yr
5. **Ravi Kumar Dhaker**, B.Sc. (H) Electronics, II yr

#### 4.1.5. Co-Curricular Activities

ANDC students are active in all spheres of college activities including research. They participate in various conferences, workshops, inter-college curricular and extra-curricular competitions etc., and bag positions to let the world know and realize their potential. Our students indeed have made us proud at national and international platforms.

##### 4.1.5.1. Awards Won by Students in Various Conferences /Competitions

Nitish Malhotra B.Sc. (H) Biomedical Science III yr Ravi Dwivedi B.Sc. (H) Mathematics II yr Gaurav Prakash B.Sc. (H) Chemistry III yr Shashank Kumar B.Sc. (H) Physics III yr	<b>Topped</b> the zonal level (Delhi) in the national level annual science quiz – Mimamsa, Organised by IISER Pune and held at Miranda House on Jan 10, 2016.
Rishabh Raj B.Sc. (H) Biomedical Science III yr	<b>First Runner up</b> , Shoot out @ Maitreyi College (Short Movie Competition), Maitreyi College, Feb 17, 2016. <b>First prize</b> , 'Through the Lens (Photography Competition) – Seher 2016', Jamia Milia Islamia University, Feb 10, 2016.
Vaibhav Srivastava B.Sc. (H) Chemistry I yr	<b>Special prize</b> , International Women's Day special debate competition, Dyal Singh College, Mar 2, 2016. <b>First prize</b> , Just A Minute (JAM) and Second prize, debate competition, Lady Irwin college, Mar 1, 2016. <b>Second prize</b> , Inter-college debate competition, (Manthan), in <i>Rajatotsav</i> , Acharya Narendra Dev College, Feb 6, 2016.

<p>Vaibhav Srivastava B.Sc. (H) Chemistry I yr</p>	<p><b>First prize</b>, Anchoring talent hunt at Aaghaz, annual festival PGDAV College, Feb 2, 2016.  <b>First prize</b>, Inter-college debate competition, 'Accenture' 2016 Acharya Narendra Dev College, Jan 28, 2016.  <b>First prize</b>, Pt. Shivdutt Chaturvedi Memorial debate competition (Hindi), Etawah Mahotsav, Dec 15, 2015.  <b>First prize</b>, Hindi extempore, 'Pulse', AIIMS, Sept 22, 2015.  <b>First prize</b>, Hindi debate competition, Lekhika Sangh, Pragati Maidan, Sept 4, 2015.  <b>Second prize</b>, Hindi extempore competition, IIMHR, Delhi, Aug 14, 2015.</p>
<p>Gayatri Batra B.Sc. (H) Chemistry II yr</p>	<p><b>IASc-NAS Summer Research Fellowship 2016</b>, two months project with Dr. R. K. Singhal, BARC Mumbai.  <b>Consolation prize</b>, Speech competition, Kalindi College, Mar 9, 2016.</p>
<p>Aayush Kumar B.Sc. (H) Chemistry III yr</p>	<p><b>First prize</b>, Rapid Fire Quiz competition, Department of Environment, Delhi Secretariat, Sept 16, 2016.</p>
<p>Shubhit Gulati B.Sc. (H) Computer Science II yr</p>	<p><b>First position</b>, Cryptoid (Pictorial Decryption Quiz), Taarangana, IGDTUW, IP University, Jan 30-31, 2015.</p>
<p>Ankit Pant B. Tech. Computer Science III yr Nishita Rana B.Sc. Life Science II yr Simran Bodh B.Sc. (H) Biomedical Science I yr</p>	<p><b>Second prize</b>, Court Room Debate, <i>Aaghaz</i>, cultural festival PGDAV College, Feb 2, 2016.</p>
<p>Abhishek Malik B.Sc. (H) Computer Science III yr</p>	<p><b>Fourth place</b>, Javelin throw, Delhi University inter-college sports tournament, Oct 16, 2015.</p>
<p>Pranshu Agarwal B.Tech. Computer Science III yr</p>	<p><b>Second position</b>, Quiziasta 2016, Ambedkar University, Feb 12, 2016.  <b>Second position</b>, Tech-It-Out quiz, CSI Regional Student Convention, Bharati Vidyapeeth's College of Engineering, Feb 04, 2016.  <b>First position</b>, TechQuiz, PGDAV College, Feb 1-2, 2016.  <b>Second position</b>, xQuizIT, Esya 15- Exploring Infinity and Beyond, IIIT Delhi, Aug 21-22, 2015.</p>

Pranshu Agarwal B.Tech. Computer Science III yr	<b>First position</b> , Whiz Quiz, Tech Melange, Shaheed Rajguru College of Applied Sciences for Women, Oct 16, 2015. <b>Second position</b> , Brainwars, OctRuX-2K15, Department of Computer Science, South Asian University, Oct 30-31, 2015.
Akshat Chaddha B.Tech. Electronics III yr	<b>Special Prize</b> , paper presentation, "A step towards social entrepreneurship: Innovative ideas to create mosquito repellent products", 3rd International Conference on Corporate Social Responsibility and Sustainable Development, May 4-5, 2015, Sharjah (UAE).
Sadashiv Raj Bharadwaj B.Tech. Electronics III yr	<b>First position</b> , Quiz, Science of Optics and Inventions, NorthCap University (formerly ITM University) Gurgaon, Oct 14, 2015.
Sadashiv Raj Bharadwaj & Raj Kumar B.Tech. Electronics III yr Sarthak Chauhan B.Sc. (H) Physics III yr	<b>Best Project Presentation</b> , "Development of a low cost computer controlled scientific laboratory", National Conference on Inspired Learning (NCIL-2015), Maharaja Agrasen College, Oct 16-17, 2015. (Work done under the DU-Innovation Project ANDC-202).
Ravi Kumar & Neelima B.Sc. (H) Mathematics II yr	<b>First prize</b> , Mathematical Quiz, Department of Mathematics, PGDAV (E) College, Oct 14, 2015.
Siva Srivastava B.Sc. (H) Physics I yr	<b>Second prize</b> , Inter-college Maths Quiz Competition, Satyawati College, Mar 08, 2016.
Dharmendra Kumar B.Sc. Physical Science (Chemistry) I yr	<b>Silver Medal</b> , 1500m, 92nd Delhi University Inter College Athletics Championship - 2015-16.
Vishal Sharma B.Sc. Physical Science (Comp. Sc.) I yr	<b>Second position</b> , Singing Competition, Cultural Festival 'Vibrations 2016', Shivaji College, Feb 3 - 4, 2016. <b>Consolation prize</b> , University Ghazal Competition, Culture Council of University of Delhi, SPM College, Jan 29, 2016.
Vivek Trivedi B.Sc. (H) Physics III yr	<b>SPIE Officer's Travel Grant</b> to attend the SPIE Optics + Photonics 2015, San Francisco, USA, Aug 8-13, 2015 and presented his project - 'Acoustic Laser Dancing: Studying Standing Wave Patterns Through Acoustic Vibrations of Circular Membrane'.
Priyanka Das Gupta B.Sc. (H) Zoology III yr	<b>First prize</b> , extempore competition, Department of Environment, Delhi Secretariat, Sept 16, 2016.

<p>Shiv Jangra                  Bhupender Singh, Jyoti Dagar,                  Khushi, Anit Kumar, Simran ,                  Sidhanth Zutshi,                  B.Sc. (H) Zoology II yr                  Anusha, Muskan Bhatnagar,                  Meenu Upadhaya,                  B. Sc. (H) Chemistry II yr</p>	<p><b>Second Prize</b>, oral presentation on 'Ciliate diversity as a cellular tool to assess soil quality', National Symposium on Man Made Diseases: An Urban Menace, Maitreyi College, Feb 11-12, 2016.</p>
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#### 4.1.5.2 Participation by Students in Various Conferences/Workshops

Students	Details of conferences/workshops
<p>Rashi Aggarwal &amp; Akanksha Kanojia                  B.Sc. (H) Biomedical Science III yr</p>	<p><b>Poster presentation:</b> 'Green synthesis and antimicrobial activity of silver nano particles', Annual Symposium on Frontiers in Biomedical Research-2015 (FBR-2015) Comprehending Genes @ work: From Structural Biology to Drug Discovery, ACBR, Oct 29-31, 2015.</p>
<p>Nitish Malhotra                  B.Sc. (H) Biomedical Science III yr                  Eshant Bhatia, Divyansh Mittal                  B.Sc. (H) Biomedical Science III yr (graduated in 2015)</p>	<p><b>Poster presentation:</b> 'Detection of proteases, using gold nano particle-based optical biosensor', Annual Symposium on Frontiers in Biomedical Research-2015 (FBR-2015) Comprehending Genes @ work: From Structural Biology to Drug Discovery, ACBR, Oct 29-31, 2015.</p>
<p>Eshant Bhatia &amp; Divyansh Mittal                  B.Sc. (H) Biomedical Science III yr (graduated in 2015)                  Nitish Malhotra                  B.Sc. (H) Biomedical Science II yr</p>	<p><b>Paper presentation:</b> 'Design and development of optical biosensor for protease sensing', Annual Science and Technical Festival, TRYST-2015, IIT Delhi, Feb 27- Mar 2, 2015.</p>
<p>Manisha Goel                  Tanaya Chatterji &amp;                  Debanjana Chakravarty                  B.Sc. (H) Biomedical Science III yr (All graduated in 2015)</p>	<p><b>Poster presentation:</b> 'Virtual screening of potential inhibitors against efflux pumps of Mycobacterium tuberculosis', University Biotikos-2015, TERI, Jan 19-20, 2015.</p>
<p>Divyansh Mittal                  B.Sc. (H) Biomedical Science III yr (graduated in 2015)</p>	<p><b>Poster presentation:</b> 'Predicting the habitat of bacteria using machine learning approach', National Conference on Understanding the Mechanism and Challenges of Complex Diseases', Shaheed Rajguru College of Applied Sciences for Women, Dec 29-30, 2014.</p>



Students	Details of conferences/workshops
Rinki Sisodia Shruti Sharma Deepak Chauhan B.Sc. (H) Biomedical Science III yr (graduated in 2015)	<b>Poster presentation:</b> 'Study of various biophysical parameters on heterogenous DNA sequences', National Conference on Understanding the Mechanism and Challenges of Complex Diseases', Shaheed Rajguru College of Applied Sciences for Women, Dec 29-30, 2014.
Manisha Goel Tanaya Chatterji Debanjana Chakravarty B.Sc. (H) Biomedical Science III yr (graduated in 2015)	<b>Poster presentation:</b> 'Virtual screening of potential inhibitors against efflux pumps of Mycobacterium', National Conference on Understanding the Mechanism and Challenges of Complex Diseases, Shaheed Rajguru College of Applied Sciences for Women, Dec 29-30, 2014.
Pragya Yagnik B.Sc. (H) Botany III yr	<b>Paper presentation:</b> 'Carbon monoxide (CO) pollution within micro-environment of households from hidden and non-discernible sources', National Conference on Recent Advances in Materials and Field Theory (NCRAMFT – 2K15), Bhagwan Parashuram Institute of Technology, I. P. University, on Dec 28 – 29, 2015.
Shweta Singh B.Sc. (H) Botany III yr	<b>Paper presentation:</b> 'Particulate matter emissions from coal-fired barbeque ovens – A potential source for pulmonary and cardiovascular diseases', National Conference on Recent Advances in Materials and Field Theory (NCRAMFT – 2K15), Bhagwan Parashuram Institute of Technology, I. P. University, Dec 28 – 29, 2015.
Shweta Singh Pragya Yagnik B.Sc. (H) Botany III yr	<b>Poster presentation:</b> 'Carbon monoxide (CO) generation within the micro-environment of households through regular usage of popular incense and anti-mosquito repellants', 3rd Indo-UK seminar on Recent Advances in Chemical Sensor (IUCRACS 2015), Gargi College, Aug 25-26, 2015.
Anusha Goyal Muskan Bhatnagar, Meenu Upadhaya, B. Sc. (H) Chemistry II yr Shiv Jangra, Bhupender Singh, Jyoti Dagar, Khushi, Anit Kumar, Simran , Sidhanth Zutshi B.Sc. (H) Zoology II yr	<b>Paper presentation:</b> 'A study on physico-chemical analysis of soil samples collected from various sites in and around Delhi', National Symposium on Man Made Diseases: An Urban Menace, Maitreyi College, Feb 11-12, 2016.

Students	Details of conferences/workshops
Gayatri Batra & Sakshi Tyagi B.Sc. (H) Chemistry II yr	<b>Paper presentation:</b> 'Synthesis, characterization and application of novel Guar Gum N, N-Dimethyl Aniline resin for waste water treatment', National Seminar on Innovative, Advance Research in Biomedical and Environmental Dynamics, Department of Chemistry, Dyal Singh College, Oct 9-10, 2015.
Sadashiv Raj Bhardwaj B. Tech. Electronics III yr	<b>Paper presentation:</b> "Innovative approach towards understanding optics" at SPIE.FOCUS Armenia: 3rd International Symposium on 'Optics & its applications', Yerevan, Armenia Oct 1-5, 2015. His trip was fully funded by the conference organizers.
Sarthak Chauhan B.Sc (H) Physics III yr Sadashiv Raj Bharadwaj & Raj Kumar B.Tech. Electronics III yr Avinash Kumar Sudhanshu (B.Sc. Phy.Sc. (Electronics) ) (graduated from ANDC in 2015)	<b>Paper presentation:</b> "Cooperative autonomous robotics transportation system", National Conference on Inspired Learning, Maharaja Agrasen College, Oct 16-17, 2015.
Abhishek Chamola & Bhanu Pratap Singh Bhati B.Sc. (H) Computer Science I yr	<b>Paper presentation:</b> 'Acoustic laser dancing: studying standing wave patterns through acoustic vibrations of circular membrane', Deen Dayal Upadhyaya College, International Year of Light celebration-2015, Oct 28, 2015.
Rashmi Priya, Sweta Gautam, Deepali and Diksha B.Sc. (H) Physics II yr	<b>Presented a project:</b> 'Acoustic laser dancing', Deen Dayal Upadhyaya College, International Year of Light celebration-2015, Oct 28, 2015.

### 4.1.5.3. Youth Parliament Competition

**Coordinator: Dr. Abhishek Kumar Mehta**

The college participated in the 12th National Youth Parliament Competition for colleges and universities in 2014-15. The competition was organized by Ministry of Parliamentary Affairs, Government of India. A total of 36 teams, divided into six groups participated in the competition. The group level event was conducted in the college premise on Mar 26, 2015. The AND college team of 50 students from various courses was the runner up at the group level. Hon'ble M.P. Shri Ramesh Bidhuri, Dr.

Anupam Pachauri (National University of Educational Planning and Administration, New Delhi) and Dr. Harsha Bhosale (group coordinator; University of Mumbai) were the judges for the competition.

#### 4.2. The Students' Council

The Students' Council elections were held on Sept 11, 2015. The following students were elected to the office:

Students' Council Post	Name of the Student	Course
Mayor	Pankaj Dhaundiya	B.Tech. Electronics III yr
Deputy Mayor	Nishita Rana	B.Sc. Life Science II yr
Council Secretary	Gaurav Jain	B.Sc. Physical Science (Comp.Sc.) II yr
Treasurer	Vikram	B.Sc. (H) Electronics II yr
Cultural Secretary	Prashant Sengar	B.Com. (H) III yr
Student Representative (Grievances)	Ramraj	B.Sc. Physical Science (Chemistry) I yr
Student Representative (Sports)	Sudhanshu Arora	B.Sc. Life Science I yr
Student Representative (Placement Cell)	Imran	B.Sc. (H) Maths III yr
Student Representative (Women Empowerment)	Ayushi	B.Sc. (H) Maths II yr

#### 4.3. Class Representatives 2015

Course	Year	Name
Biomedical Science	I	Disha Parnami
	II	Dinesh Sharma
	III	Atul Kumar
Botany	I	Khush Mutha
	II	Sameeksha Thakur
	III	Shweta Singh
Chemistry	I	Pavitra

Course	Year	Name
	II	Gyanendra Ikorla
	III	Manoj Kumar Sharma
Commerce	I (Sec A)	Vasu Satija
	I (Sec B)	Varun Bhardwaj
	II (Sec A)	Balbir Jha
	II (Sec B)	Pragati Chaudhary
	III (Sec A)	Latasha Tanwar
	III (Sec B)	Manisha Badhan
Computer Science	I	Devang Tiwari
	II	Rajat Verma
	III	Avi
Electronics	I	Uttam Singh
	II	Nakul Parashar
	III	Nitin Singh Rawat
Mathematics	I	Shivam Rai
	II (Sec A)	Ayushi Acharya
	II (Sec B)	Neelima
	III (Sec A)	Imran Malik
	III (Sec B)	Tushar
Physics	I	Rachit Dobhal
	II	Deepali
	III (Sec A)	Md. Murtaza
	III (Sec B)	Sachin Singh
Zoology	I	Aman
	II	Sidhant Zutshi
	III	Rahul Roy

## 5. Achievements of Faculty

### Dr. Savithri Singh, Principal

S.No.	Achievement	Duration
1.	Invited as an expert by UNESCO for the "Open Educational Resources (OER) Roadmap Meeting" at the UNESCO Headquarters, Paris.	Mar 30-31, 2016
2.	Member, Committee for Implementation of RUSA, DHE, Govt of NCT of Delhi	Feb 2016
3.	Participated in the 'Open Education Global Conference 2015' and in ROER4D workshop held at Banff, Canada hosted by the Centre for Innovation in Learning and Teaching, University of Capetown, South Africa.	April 22-24, 2015
4.	Member, Advisory Group for ROER4D (Research on Open Educational Resources for Development) project, funded by the International Development Research Centre (IDRC), Canada involving 11 OER Adoption studies and 8 OER impact studies and 8 OER impact studies, all located in the Global South. (Specifically guiding three research projects in Malaysia, Columbia and India.)	Since 2013
5.	Member, National Resource Group (NRG) for Rashtriya Madhyamik Shiksha Abhiyan (RMSA), constituted by the Ministry of Human Resource Development, Government of India	Since 2011
6.	Member, National Resource Group (NRG) on ICT in School Education, constituted by the Ministry of Human Resource Development, Government of India	Since 2011

### 5.1. Contribution of Faculty to School/College Education

#### 5.1.1. Books/Chapters (in Books) Published

Title & Publisher	Author/s
<b>Chapter</b> 'Gonadotropins: Past, Present and Future' in Book entitled 'Mammalian Endocrinology and Male Reproductive Biology', Ed; Shio Kumar Singh, Publisher: CRC Press (2015) (ISBN: 9781498727358)	<b>Dr. Rajesh Chaudhary, K. Muralidhar</b>

Title & Publisher	Author/s
<p><b>Book</b> 'Ranthambhore National Park: A Virtual Tour',                      Publisher: Rajesh Chaudhary and Vinesh Kumar (2015) (ISBN: 9789352541812)</p>	<p><b>Vinesh Kumar</b>                      (Lab Asst.) &amp;  <b>Dr. Rajesh Chaudhary</b>                      (Biomedical Science)</p>
<p><b>Content Contributor</b> in chapters 19-23 and Reviewer of chapters 1-18 in the Global Edition of 'Chemistry, 7/E by McMurry, Fay, Robinson, Publisher: PEARSON Chemistry, (2016) (ISBN-13: 9781292092751)</p>	<p><b>Dr. Seema Gupta</b>                      (Chemistry)</p>
<p><b>Book</b> 'Engineering Chemistry' M M Uppal and Dr. Pooja Bhagat, Khanna Publishers (ISBN No. 978-81-7409-262-5) (2015)</p>	<p><b>Dr. Pooja Bhagat</b>                      (Chemistry)</p>
<p><b>Chapter</b> 'Impact of Risk management Capabilities on Profitability of Banks in India in Post-reform Era' in Book 'Emerging Horizons in Finance', Publisher: Bloomsbury Publishing India Pvt Ltd, page 80- 90.(2015)</p>	<p><b>Dr. Shalu Mahajan</b>                      and <b>Madhu Vij</b>                      (Commerce)</p>
<p><b>Book</b> Technical Writing &amp; Communication in English, Publisher: Sun India Publications, New Delhi (2015) (ISBN No. 978-93-85071-09-06)</p> <p><b>Book</b> English Communication: Theory and Practice, Publisher: Scholar Tech Press New Delhi (2015) (ISBN No. 978-93-82209-89-8)</p> <p><b>Book</b> Advanced English (Part-1), Publisher: Scholar Tech Press New Delhi (2015) (ISBN No: 978-93-82209-96-6)</p>	<p><b>Mr. Manoj Garg</b>                      (English)</p>
<p><b>Book</b> 'Exploring Science-Life Processes: For Class X' (Bhutan Board) Published by Sultan Chand &amp; Sons., New Delhi, (2015) (ISBN - 978-81-8350-421-6)</p> <p><b>Chapter</b> 'Larvicidal, repellent and irritant potential of the seed-derived essential oil of Apium graveolens against Dengue Vector, Aedes aegypti L. (Diptera: Culicidae)' in <b>E-book</b> 'Emerging Zoonoses: Eco-epidemiology, Involved Mechanisms and Public health Implications'; Ed(s). Rubén Bueno-Marí, A. Paulo Gouveia Almeida and Juan Carlos Navarro, Lausanne: Frontiers Media; Switzerland; (2015) pp: 137-142.                      (doi: 10.3389/978-2-88919-618-0)</p>	<p><b>Dr. Sarita Kumar</b>                      (Zoology)</p> <p><b>Sarita Kumar, Monika Mishra, Naim Wahab and Radhika Warikoo</b></p>
<p><b>Chapter</b> 'Screening, Quantification and Purification of Cellulases from Soil Actinomycetes' to be published in Book 'Microbial Biotechnology: Technology, Challenges and Developmental Trends', Apple Academic Press (2015)</p>	<p><b>Dr. Monisha Khanna</b>                      (Zoology)                      Payal Das and Renu Solanki</p>

### 5.1.2. Educational e- content Uploaded on the University of Delhi /Other Websites

Faculty	e-chapter
<b>Dr. Pankaj Khanna</b> (Chemistry)	Online live lectures at CEC-UGC (The Consortium for Educational Communication) EDUSAT network, on the topic of: a) Stereochemistry: 1. <a href="https://www.youtube.com/watch?v=36Pmfnt1ttY">https://www.youtube.com/watch?v=36Pmfnt1ttY</a> 2. <a href="https://www.youtube.com/watch?v=HP3OTL7urEs">https://www.youtube.com/watch?v=HP3OTL7urEs</a> 3. <a href="https://www.youtube.com/watch?v=1ygn_67vcIO">https://www.youtube.com/watch?v=1ygn_67vcIO</a> 4. <a href="https://www.youtube.com/watch?v=iX1-VeMy-9Y">https://www.youtube.com/watch?v=iX1-VeMy-9Y</a> b) Amino acids, Peptides and Proteins: 1. <a href="https://www.youtube.com/watch?v=pel8P2atSEg">https://www.youtube.com/watch?v=pel8P2atSEg</a>
<b>Dr. Sarita Kumar</b> (Zoology)	Classification of Phylum Arthropoda ( <a href="http://vle.du.ac.in/mod/tab/view.php?id=9778">http://vle.du.ac.in/mod/tab/view.php?id=9778</a> ) Morphology, Life Cycle and Transmission of <i>Wuchereria bancrofti</i> <a href="http://epgp.inflibnet.ac.in/view.php?&amp;category=888#">http://epgp.inflibnet.ac.in/view.php?&amp;category=888#</a> Pathogenicity, Diagnosis and Prophylaxis of <i>Wuchereria bancrofti</i> <a href="http://epgp.inflibnet.ac.in/view.php?&amp;category=888#">http://epgp.inflibnet.ac.in/view.php?&amp;category=888#</a>
<b>Mr. Manoj Garg</b> (English)	Course Content of English for B.Com (H) III semester. Chapter: Still I Rise <a href="http://vle.du.ac.in/file.php/570/Maya_Angelou/Maya_Angelou.pdf">http://vle.du.ac.in/file.php/570/Maya_Angelou/Maya_Angelou.pdf</a> Chapter: Blackout <a href="http://vle.du.ac.in/file.php/570/Roger_Mais_Black_Out/Roger_Mais_Ind_and_Soc.pdf">http://vle.du.ac.in/file.php/570/Roger_Mais_Black_Out/Roger_Mais_Ind_and_Soc.pdf</a> Chapter: A Chronicle of the Peacocks <a href="https://drive.google.com/file/d/0B0Izh6GcIA_DWUFZSUJyQ29mekU/view">https://drive.google.com/file/d/0B0Izh6GcIA_DWUFZSUJyQ29mekU/view</a>

### 5.1.3. Enriching School/College Education

Contribution	Faculty Involved (Department)	Duration
<b>Resource Person</b> , Training program for the teachers of higher secondary stage in biology (Biology PGT's), NCERT	Dr. Gagan Dhawan (Biomedical Science)	Feb 05, 2016
<b>Resource Person</b> , Interdisciplinary refresher course in computer science, bioinformatics and information technology, ASC-HRDC-JNU, Delhi		Aug 24 – Sep 18, 2015
<b>Member</b> , Committee constituted by ACBR, University of Delhi for implementation of choice-based credit system (CBCS) for B. Sc. (H) Biomedical Science Course, University of Delhi.		2015-16

Contribution	Faculty Involved (Department)	Duration
<b>Resource Person</b> , 'Teacher's training workshop for Bal Bharati School Teachers' for the session on 'Transition metal chemistry', BBPS Training Centre empanelled by CBSE.	Dr. Seema Gupta (Chemistry)	May 20, 2015
<b>Steward (Observer)</b> , Guinness World Record Break attempt of the event 'The Largest Practical Session' with 2000 students by Vijnana Bharati, conducted at IIT Campus, New Delhi. The record has made an entry in the Guinness Book of World Records.	<b>Dr. Seema Gupta &amp; Dr. Manisha Jain</b> (Chemistry)	Dec 07, 2015
<b>Resource Person</b> , 'Teacher's training workshop for Bal Bharati School Teachers' for the session on 'Investigatory projects' organised by BBPS Training Centre empanelled by CBSE	<b>Dr. Manisha Jain</b> (Chemistry)	May 20, 2015
<b>Judge</b> , Student Research Symposium (SRS)-2015, Graduate and Research Affairs, Division of Research Affairs, San Diego State University, San Diego, USA.	<b>Dr. Vikrant Kumar</b> (Chemistry)	Mar 6 -7, 2015
<b>Resource Person</b> , session on "Blogging" at a workshop on "ICT integration in chemistry" at Hindu College, University of Delhi. <b>Resource person</b> , session on "Blogging" at a workshop on "ICT usages for teaching", CPDHE, University of Delhi.	<b>Dr. Pankaj Khanna</b> (Chemistry)	Oct 9-10, 2015 Sept 1-8, 2015
<b>Member</b> , National Committee constituted by UGC to prepare the syllabi for B.Sc. (H) Electronics under Choice Based Credit System (CBCS). <b>Convener of National Anveshika Experimental Skill Test (NAEST)</b> , 2015 for college students, BVN-IAPT Anveshika in coordination with University of Delhi, ANDC SPIE Student Chapter, Aug 2015.	<b>Dr. Amit Garg</b> (Electronics)	2015 2015



Contribution	Faculty Involved (Department)	Duration
<b>Judge</b> , Inter-school science drama competition, Mater Dei School.	<b>Dr. Sarita Kumar</b> (Zoology)	Oct 15, 2015
<b>Member</b> , NCERT project assigned by MHRD "Analysis of concept in science and mathematics in terms of learning performance at upper primary stage".		Oct 12-16 and Sept 21-24, 2015
<b>Member</b> , NCERT project 'Impact study of learning at upper primary level in Chattisgarh'.		Oct 5-8, 2015
<b>Reviewer</b> of modules developed by NCERT under CTES in Science for pre-service teachers and teachers in service.		Aug 31 – Sep 4, 2015
<b>Creating</b> 'Repository of animal diversity' for undergraduate students in biology as OER.		2015
<b>Developed</b> 'Shabdawali' on environmental terms for 'Vishwakosh' – a project of MHRD, Govt. of India.		2015

## 5.2. Conferences, Workshops, Training Programmes Organized

Details	Organizing Faculty (Department)
Organized <b>School Teacher's Training Workshop</b> 'Science pedagogy: Laboratory learning to classroom teaching' Acharya Narendra Dev College, Jan 20-21, 2016.	<b>Coordinator: Dr. Neeti Misra</b> <b>Dr. Urmi Bajpai, Dr. Sunita Jetly, Dr. Abhishek Kumar Mehta, Dr. Rama</b> (Biomedical Science) <b>Dr. Rashmi Thukral, Dr. Manisha Jain, Dr. Pragati Malik, Dr. Kavita Singhal</b> (Chemistry) <b>Dr. Amit Garg, Mr. Vishal Dhingra, Ms. Gauri Ghai</b> (Electronics) <b>Dr. Geetika Kalra, Dr. Rashmi Sharma</b> (Botany)

Details	Organizing Faculty (Department)
Organized <b>School Teacher's Training Workshop</b> 'Science pedagogy: Laboratory learning to classroom teaching' Acharya Narendra Dev College, Jan 20-21, 2016.	<b>Dr. Ravi Toteja, Dr. Monisha Khanna, Dr. Seema Makhija, Aparna Sharma and Dr. Sweety Srimali</b> (Zoology) <b>Dr. Arijit Chowdhary, Dr. V.Bhaskar Raj</b> (Physics)
<b>Instructional Workshop</b> , 'Proteomics and proteogenomics: Hands-on protein identification and gene discovery from Mass spectrometry data', Acharya Narendra Dev College and National Network on Mathematical Modeling and Computational Biology (NNMCB), supported by Science and Engineering Research Board, Government of India, Acharya Narendra Dev College from Oct 02-04, 2015.	<b>Dr. Gagan Dhawan</b> (Biomedical Science)
<b>Organised workshop</b> 'Basic chemistry experimentation skills and lab ethics for undergraduate chemistry students' Acharya Narendra Dev College, May 25-27, 2015.	<b>Dr. Seema Gupta, Dr. Manisha Jain</b> (Chemistry)
Organized an <b>awareness workshop</b> 'Digital India initiatives' under the DU Innovation Project entitled 'Digital India - challenges and opportunities', Acharya Narendra Dev College, Oct 14, 2015 and Oct 28, 2015.	<b>Dr. Harita Ahuja</b> (Computer Science) <b>Dr. Shalu Mahajan and Dr. Surinder Kaur</b> (Commerce)
Organized <b>workshop</b> for the Non-Teaching Staff of the college on 'Hands on training on Excel and Photoshop', September 19, 2015.	<b>Dr. Harita Ahuja</b> (Computer Science)
<b>Workshop</b> , on 'Personality Development' by 'Possiblers', for PwD students of the college, Sept 9, 2015, ANDC.	<b>Mr. Manoj Garg</b> (Covenor, EOC)

## 5.3. Awards /Honours

Awardee's Name (Department)	Name of the Award/Honour	Awarded/ Honoured by	Awarded on Date
<b>Dr. Gagan Dhawan</b> (Biomedical Science)	<b>Meritorious Teacher Award 2015</b>	Directorate of Higher Education, Govt. of NCT of Delhi	2015
	<b>Raman Fellowship</b> for Post Doctoral Research in USA for one year.	University Grants Commission	2016-17
<b>Dr. Urmi Bajpai</b> (Biomedical Science)	Reappointed <b>National Coordinator</b> , TATA-CSIR-OSDD Fellowship programme.	Sir Dorabji Tata Trust through CSIR	2015-2017
<b>Dr. Charu K Gupta</b> (Botany) <b>Dr. Sunita Narang</b> <b>Dr. Chandrakant Samal</b> (Computer Science) <b>Dr. Amit Garg</b> (Electronics) <b>Dr. Roopesh Tehri</b> (Mathematics) <b>Dr. Arijit Chowdhuri</b> (Physics)	<b>Teaching Excellence Award for Innovation</b> for the academic session 2014-15.	University of Delhi	May 01, 2015
<b>Dr. Vikrant Kumar</b> (Chemistry)	<b>Completed one year Post Doctoral research on Raman Fellowship (UGC) 'Catalysts for water oxidation: Hope for sustainable energy', San Diego State University, San Diego, California, USA.</b>	University Grants Commission	Aug 26, 2014 – Aug 26, 2015

Awardee's Name (Department)	Name of the Award/Honour	Awarded/ Honoured by	Awarded on Date
<b>Dr. Pankaj Khanna</b> (Chemistry)	Received training at <b>D-LITE program</b> (The Digital Literacy and Innovation for Tomorrow's Education), UKIERI, Edinburgh College, Scotland, as a <b>Digital Literacy Champion</b> , Campus of Open Learning, University of Delhi.	University of Delhi	Jul 15-17, 2015
<b>Dr. Amit Garg</b> (Electronics) <b>Dr. Chandrakant Samal</b> (Computer Science) <b>Dr. Roopesh Tehri</b> (Mathematics)	Innovation Project <b>ANDC-202</b> awarded ' <b>Best Display</b> ', Scientific Arena theme, Antardhvani 2015, University of Delhi.	University of Delhi	Feb 20-22, 2015
<b>Dr. Charu K Gupta</b> (Botany) <b>Dr. Sunita Narang</b> (Computer Science) <b>Dr. Arijit Chowdhuri</b> (Physics)	Innovation Project <b>ANDC-204</b> awarded ' <b>Best Innovative Idea</b> ' Scientific Arena theme, Antardhvani 2015, University of Delhi.	University of Delhi	Feb 20-22, 2015
<b>Dr. Monisha Khanna</b> (Zoology)	<b>Best oral presentation</b> for paper 'Screening, quantification and purification of extracellular enzymes from soil actinomycetes', National Conference on 'Recent trends in Microbial Technology' Department of Microbiology.	Osmania University, Hyderabad.	Feb 26-28, 2015

## 5.4 Seminars, Symposia, Workshops, Training Programs Participated/ Attended

Faculty (Department)	Details
<b>Dr. Urmi Bajpai</b> (Biomedical Science)	<b>Invited</b> to attend Indo-German seminar on Modeling Chemical and Biological Reactivity – MCBR, IIT Delhi, Nov 07, 2015.

Faculty (Department)	Details
<b>Dr. Sunita Jetly</b> (Biomedical Science)	<b>Workshop</b> on 'Bioinformatics in drug discovery', Bio-Medical Informatics Centre, Department of Biophysics, AIIMS, Feb 2 - 5, 2016. <b>Hands-on training</b> on 'Essentials of statistics and clinical data analysis using R', Clinical Development Services Agency (CDSA), an extramural unit of Translational Health Science and Technology Institute (THSTI), DBT, Ministry of Science & Technology, GOI, Dec 1-4, 2015.
<b>Dr. Gagan Dhawan</b> (Biomedical Science)	<b>Guest Researcher</b> , two months training 'Green synthesis of silver nanoparticles and evaluation of their antimicrobial activities' at IGIB-CSIR, May 22 – Jul 20, 2015. <b>Invited lecture</b> 'High-throughput data analysis for drug discovery using machine learning', International Conference on Biotechnology and Nanotechnology, IIS, University of Jaipur, Jan 30 – Feb 01, 2016.
<b>Dr. M. S. Rajeswari &amp; Dr. Charu K Gupta</b> (Botany) <b>Dr. Arijit Chowdhuri</b> (Physics) <b>Dr. Ravi Toteja</b> (Zoology)	<b>Participated</b> , First Knowledge Conclave for Colleges and Universities, Centre for Science and Environment, New Delhi, Jan 28-29, 2016.
<b>Dr. Charu K Gupta</b> (Botany)	<b>Participated</b> , Workshop 'Reproductive biology of angiosperms' Institute of Life-Long Learning, UDSC and Department of Botany, Dyal Singh College, Mar 16-17, 2015. <b>Participated</b> , Workshop 'Digital Literacy (D-LITE, UKIERI)', Campus of Open Learning, New Delhi, Feb 17-19, 2015.
<b>Dr. Rashmi Sharma</b> (Botany)	<b>Completed</b> a four week online course on Coursera, 'Learning how to learn: Powerful mental tools to help you master tough subjects', University of California, San Diego, Dec 2015.
<b>Dr. Sandeep Goel</b> (Commerce)	<b>Participated</b> , 38th All India Accounting Conference and International Seminar, 'Accounting Education and Research', University Business School, Punjab University, Chandigarh & Indian Accounting Association, Chandigarh Branch, Dec 5-6, 2015.

Faculty (Department)	Details
<b>Dr. Sandeep Goel</b> (Commerce)	<p><b>Participated</b>, FDP on 'Computerised accounting system using Tally.ERP 9', Deen Dayal Upadhyaya College and Tally Education Private Ltd. in collaboration with Indian Accounting Association, Delhi Chapter, Aug 6, 2015.</p> <p><b>Workshop</b> 'Innovative Teaching: New Indian Accounting Standards', CPDHE, University of Delhi, Indian Accounting Association, Delhi Chapter, Delhi, May 22-23, 2015.</p>
<b>Dr. Sharanjit Kaur</b> (Computer science)	<p><b>Member, Program Committee</b>, 4th International Conference on Big Data Analytics-2015, Hyderabad, December 15-18, 2015.</p>
<b>Mr. Manoj Garg</b> (English)	<p><b>Attended</b>, 'Intellectual Property Rights &amp; Patents', S.P. Jain Auditorium, South Campus, University of Delhi, Jan 19, 2015.</p> <p><b>Attended</b>, Capacity-building workshop on e-content, ILL, University of Delhi, Jan 25, 2016.</p> <p><b>Presented paper</b> 'Challenges before visually impaired persons', Enabling unit for differently-abled and society on affirmative actions, Lakshmibai College, University of Delhi, Jan 07, 2015.</p>
<b>Dr. Mamta Bhatia</b> (Physics)	<p><b>Invited delegate</b>, '5th University- Industry Congress: Global Higher Education Summit', CII, Dec 2-3, 2015.</p> <p><b>Invited delegate</b>, '4th National Conference on Skill Development', CII, Nov 26-27, 2015.</p> <p><b>Panel expert</b>, National workshop on 'Community Colleges: An Alternate Mode of Education', M.S.Panwar Community &amp; Technical College, Solan, H.P., Oct 2-3, 2015.</p> <p><b>Presented paper</b>, National workshop on 'Community Colleges in India: A desirable model', Tezpur University, April 27-28, 2015.</p> <p><b>Attended workshop</b> at West College, Scotland, UK, as Project Coordinator, "Gaming Project" under UKIERI, in collaboration with West College, Scotland, UK, Jul 14-17, 2015.</p> <p><b>Conducted workshop</b> as Project Coordinator, D-LITE Project on 'Digital Learning' under UKIERI, Campus of Open Learning, KeshavPuram, University of Delhi, in collaboration with Edinburgh College, Scotland, UK, Feb 18-21, 2015.</p>
<b>Dr. Monisha Khanna</b> (Zoology)	<p><b>Participated</b>, International Research Training Program through video conferencing on 'SPSS Essentials-Statistical analysis made easy', Research Center for Training &amp; Development (RCTD), Jun 16-17, 2015.</p> <p><b>Workshop</b> on 'Intellectual Property Rights &amp; Patents', S.P. Jain Auditorium, South Campus, University of Delhi, Jan 19, 2015.</p>

Faculty (Department)	Details
<b>Dr. Sweety Shrimali</b> (Zoology)	<b>Workshop</b> 'Training the trainers: IPR workshop', Miranda House, University of Delhi, Jan 15, 2016. <b>Workshop</b> on 'Applications of flow cytometry' Miranda House, University of Delhi, Delhi, Mar 20, 2015.
<b>Dr. Aparna Sharma</b> (Zoology)	<b>Workshop</b> 'Biochemistry of metabolic processes', Kirori Mal College, University of Delhi, Feb 2, 2015. <b>Participated</b> , 'Training workshop in animal behavior', Department of Zoology, University of Delhi, Aug 19-25, 2015

### 5.5. Faculty as Editors/ Reviewers/ Advisory

Faculty (Department)	Name of Journal/Committee
<b>Dr. Urmi Bajpai</b> (Biomedical Science)	<b>Member</b> of Department Research Committee (DRC), Dr B.R. Ambedkar Centre for Biomedical Research, University of Delhi, since 2008.
<b>Dr. Gagan Dhawan</b> (Biomedical Science)	<b>Member</b> , Board of Research Studies (Sciences) University of Delhi (Feb 2014- 2016). <b>Member</b> of the Committee of Courses for Post Graduate and Research Studies, Dr. B.R. Ambedkar Centre for Biomedical research, University of Delhi.
<b>Dr. Sharanjit Kaur</b> (Computer Science)	<b>Editorial, Reviewer, Board Member</b> of International Journal of Data Mining, Modelling and Management, Inderscience.
<b>Dr. Amit Garg</b> (Electronics)	<b>Editorial, Reviewer, Board Member of</b> <ul style="list-style-type: none"> <li>• Optics and Lasers in Engineering by Elsevier Inc., USA.</li> <li>• American Journal of Optics and Photonics published by Science Publishing Group, USA.</li> <li>• The Science Education Review (SER), Australia.</li> <li>• Computer Application in Engineering Education published by John Wiley &amp; Sons.</li> <li>• International Journal of Engineering Sciences, India.</li> <li>• International Research Journal of Engineering Science, Technology and Innovation (IRJESTI).</li> <li>• European Journal of Physics Education.</li> <li>• Offered Associate Editorship of Journal of Physics Students</li> </ul>

Faculty (Department)	Name of Journal/Committee
<b>Dr. Anju Agarwal</b> (Electronics)	<b>Reviewer</b> IEEE Transactions on Electronic Devices
<b>Dr. Sarita Kumar</b> (Zoology)	<ul style="list-style-type: none"> <li>• <b>Editorial Board member</b> of The Open Access Journal of Science and Technology (UK), Journal of Applied and Natural Sciences (Haridwar), Asian Pacific Journal of Tropical Biomedicine (China).</li> <li>• <b>Reviewer</b> in International Journals - African Journal of Biotechnology (Nigeria), Journal of Medicinal Plant Research (Nigeria), Science Postprint (Japan), MethodsX (UK), Journal of Mosquito Research (Canada), Asian Pacific Journal of Tropical Biomedicine (China), Asian Pacific Journal of Tropical Diseases (China), TANG Humanitas Medicine (Korea), Tropical Biomedicine (Malaysia);</li> <li>• <b>Reviewer</b> in National Journals - International Journal of Pharmacy and Pharmaceutical Sciences (Madhya Pradesh), Indian Journal of Medical Research (New Delhi)</li> </ul>
<b>Dr. Monisha Khanna</b> (Zoology)	<b>Reviewer</b> of the Indian Journal of Microbiology
<b>Dr. Seema Makhija</b> (Zoology)	<b>Reviewer</b> of the Journal of Ecosystem & Ecography

## 5.6. Other Achievements

Faculty (Department)	Achievement
<b>Dr. Urmi Bajpai &amp; Dr. Gagan Dhawan,</b> (Biomedical Science) <b>Dr. Seema Gupta &amp; Dr. Manisha Jain</b> (Chemistry) <b>Dr. Amit Garg &amp; Mr. Vishal Dhingra</b> (Electronics) <b>Dr. Ropeesh Tehri</b> (Mathematics) <b>Dr. Monisha Khanna,</b> <b>Dr. Ravi Toteja &amp; Dr. Seema Makhija</b> (Zoology)	<b>Members,</b> Committee to screen the project proposals submitted to UDGM-ANDC Business Incubator funded by Ministry of Micro, Small and Medium Enterprises, Government of India (2014-15).



Faculty (Department)	Achievement
<b>Dr. Seema Gupta</b> <b>Dr. Neeti Misra</b> <b>Dr. Manisha Jain</b>	<b>Life Member</b> , Indian Society of Analytical Scientists(Regd.), Delhi Chapter <b>Life Member</b> , Association of Chemistry Teachers.
<b>Dr. Sandeep Goel</b> (Commerce)	<b>Executive Committee Member</b> , Indian Accounting Association
<b>Dr. Amit Garg</b> (Electronics)	<b>Member</b> of the preliminary screening committee to shortlist potential business plans in 'Electropreneur Park' to support start-ups in electronic design and manufacturing, set up at University of Delhi, South Campus by a consortium comprising Software Technology Parks of India (STPI), under Union Ministry of Communications and Information Technology, and India Electronics and Semi Conductors Association India Electronics and Semi-Conductors Association (IESA) with an investment of Rs 21 crore. <b>Member</b> , Society of Photo-Optical Instrumentation Engineers (SPIE), USA <b>Member</b> , Network for the Public Communication of Science and Technology(PCST), Australia <b>Member</b> , Optical Society of India
<b>Dr. Sunita Jetly &amp;</b> <b>Dr. Gagan Dhawan</b> (Biomedical Science) <b>Dr. Charu K Gupta</b> (Botany) <b>Dr. Pankaj Khanna</b> (Chemistry) <b>Dr. Amit Garg</b> (Electronics) <b>Dr. Arijit Chowdhuri &amp; Dr. Subhash Kumar</b> (Physics) <b>Dr. Ravi Toteja &amp;</b> <b>Mr. Ravinder Sagar</b> (Zoology)	<b>Jury Member</b> for National Level Exhibition and Project Competition (NLEPC)-2015 under Innovation in Science Pursuit for Inspired Research (INSPIRE) programme, Department of Science and Technology on on December 6-7, 2015.

Faculty (Department)	Achievement
<b>Dr. Mamta Bhatia</b> (Physics)	<b>Member</b> , CII National Committee on Higher Education, 2015-16. <b>National Jury Member</b> for India Innovation i3 Awards by CII and AICTE, Dec 2015 at IIT-Delhi. <b>Member, Advisory Board</b> , M.S.Panwar Community and Technical College, Solan, H.P., since Nov 2015.
<b>Dr. Sarita Kumar</b> (Zoology)	<b>Life member</b> , Indian Science Congress, Delhi Chapter <b>Life member</b> , National Academy of Vector Borne Diseases, Bhubaneswar <b>Life member</b> , Indian Society of Parasitology, Lucknow <b>Member</b> , Scientific Advisory Board, Virginia, USA
<b>Dr. Monisha Khanna</b> (Zoology)	Inclusion of the Microbial Technology Lab of Acharya Narendra Dev College in the research labs panel of NAM S&T Centre sponsored RTF-DCS programme. <b>Life Member</b> , AMI (Association of Microbiologists of India) <b>Life Member</b> , Journal of Microbial World <b>Life Member</b> , Association of Teachers in Biological Sciences

## 5.7. Faculty Awarded Ph.D. Degree (2014-15)

Name	Title of Thesis	Date of Award of Ph.D.	University
<b>Dr. Shalu Mahajan</b>	Profitability and risk management: A comparative study of banks in India in the post reform era	Oct 01, 2015	University of Delhi
<b>Dr. Surinder Kaur</b>	Human resource accounting – A review of current practices and management strategies	Jun 2015	University of Delhi

## 5.8. Faculty on Study Leave for Doctoral Research

Name	Course of Study	University
Mr. Yasheshwar	Ph.D.	Jamia Hamdard University, New Delhi

### 5.9. Faculty Registered for Ph.D. Programme

Name	University	Date of Registration
Mr. Manoj Garg	Department of MILLS, University of Delhi	May 11, 2015
Mr. Vishal Dhingra	Department of Electronic Science, University of Delhi	Dec 17, 2014

### 5.10. Orientation Programmes Attended by Faculty

**Dr. Preeti Marwah** (Department of Computer Science) attended an Orientation programme conducted by CPDHE, University of Delhi, Nov 17, 2015 to Dec 15, 2015.

### 5.11. Research Publications by Faculty in Peer Reviewed Journals, National and International Conferences and Seminars

See Annexure I

### 5.12. Training/Workshops Attended/Other Achievements by Non-teaching Staff

Name	Programme/Achievement	Date/s
Mr. Sanjay Vohra (Placement officer)	<b>Special Prize</b> , paper presentation, "A step towards social entrepreneurship: Innovative ideas to create mosquito repellent products", 3rd International Conference on Corporate Social Responsibility and Sustainable Development, Sharjah (UAE)	May 4-5, 2015
Ms. Namrata Arora (Library)	Article on world ranking of universities published in University News; Dec 2015, Vol.53 (51).	Dec 2015
Mr. Satinder (Library)	Attended training in the use of Lex Air camera scanner and assistive softwares for the visually impaired, University of Delhi.	April 17, 2015
Mr. Vinesh Kumar (Biomedical Science)	Co-authored a Book entitled 'Ranthambhore National Park: A Virtual Tour', Publisher: Rajesh Chaudhary and Vinesh Kumar (ISBN: 9789352541812).	2015

## 6. College Activities

Staff Council Committees and Departmental Societies are active throughout the year and have organised a number of events. The Departmental Societies deal with activities specific to the department while the Staff Council Committees work across all subjects and courses.

### 6.1. Accreditation of College by National Assessment and Accreditation Council (NAAC)

The College had applied to the National Assessment and Accreditation Council (NAAC) for accreditation as per the UGC guidelines. A Steering Committee comprising of Dr. Seema Gupta (Coordinator), Dr. Sarita Kumar (Vice-Principal), Dr. Amit Garg (Bursar), Dr. Ravi Toteja, Dr. Vikrant Kumar and Mr. Sadanand was constituted. The committee held regular meetings to check the preparedness of the College and suggested necessary steps to be taken to all departments and societies.

A Peer Team appointed by NAAC and comprising of Prof. Jai Rup Singh (Chairperson), Prof. A.V. Prasada Rao (Member Coordinator) and Dr. P.A.S. Naidu (Member), visited the College during Mar 8-10, 2016 to validate the Self-Study Report uploaded on the College web site in Jun 2015. The team visited all the departments and facilities of the College and held extensive interaction with all the stakeholders. The Peer Team was highly satisfied by the activities being carried out in the College and conveyed its appreciation for the cooperation extended by the College fraternity for the NAAC accreditation process.

The result was announced on Mar 29, 2016. The college was conferred 'A' Grade and CGPA score 3.31 on a scale of 4.00. The College has got the second highest score among in first cycle among all Science colleges of the University of Delhi accredited by NAAC, till date.

### 6.2. Internal Quality Assurance Cell (IQAC)

As required by National Assessment and Accreditation Council (NAAC), the College had set-up the Internal Quality Assurance Cell (IQAC) in Jul 2015. The IQAC aims at formulating and monitoring the mechanisms for enhancing the quality functioning in the college.

The College IQAC comprises of the following members:

Chairperson: Dr. Savithri Singh (Principal);

External members: Prof. K.N. Tripathi and Dr. Harsh Kumar;

Faculty members: Dr. Seema Gupta (Coordinator), Dr. Sarita Kumar (Vice Principal), Dr. Amit Garg (Bursar), Dr. Sanjeeta Rani, Ms. Anupama, Dr. Urmi Bajpai, Ms. Anuradha Sarin, Mr. Vishal Dhingra, Dr. Geetika Kalra, Mr. Ravinder K. Sagar, Dr. Harita Mehta, Mr. Manoj K. Garg.

Mr. V.S. Rao (Administrative Officer).

The following actions were taken as per recommendations of IQAC:

- A Facebook page was created for interaction among college staff.
- Dr. Subhash Kumar, Assistant Professor, Department of Physics was assigned the role of media coordinator for the college to ensure wider representation of the college in media.
- Each faculty member was assigned a slot as per their convenience in their time table when they would be available to students whom they are mentoring. The same was conveyed to students as well.
- To ensure the implementation of ERP (Enterprise Resource Planning) system purchased by the College a number of workshops were organized by the college to train faculty, students and non-teaching staff to acquaint them with the functioning of the software. The library services will soon be RFID enabled to allow full automation. The ID cards of the faculty, non-teaching Staff and Students are already RFID enabled to facilitate this. The books are being RFID tagged.
- Some faculty have started contributing to the Central Repository for e-materials, online tests and questionnaires developed by ANDC teachers.
- To rejuvenate research a provision has been made for allocation of a Research Grant in the form of seed money of Rs. One Lakh each for two teachers at the entry level and within 4 years of appointment. It also recommended that faculty should be encouraged to publish their work in good journals and such teachers may be honoured on the Annual Day.
- A feedback mechanism on the college facilities and departmental teaching-learning environment from students has been initiated and a sample of around 150 final year students has been collected till date.

### 6.3. *Rajatotsav* – Silver Jubilee Celebrations

**Conveners: Dr. Seema Gupta, Dr. Sanjeeta Rani and Dr. Ravi Toteja**

This year, the college has entered into its 25<sup>th</sup> year of establishment as a constituent college of the University of Delhi. The college has planned a year-long Silver Jubilee Celebrations, *Rajatotsav*. A silver jubilee logo design competition was organized in Oct 2015 that was open to students, teaching and non teaching staff. A suitable logo was designed by Mr. Shubhankar Ganguli (B.Tech. Computer Science Sem VI). He was awarded with a cash prize of Rs. 5000/- and the logo has been adopted by the college to be used through the year for the College and the Silver Jubilee Celebrations.

Under the umbrella of *Rajatotsav*, a two-day workshop entitled ‘Science Pedagogy: Laboratory Learning to Classroom Teaching’ was organized for school teachers on Jan 20-21, 2016. Teachers from 18 schools participated in the workshop. The participants were provided with a kit that included laboratory manuals in Biology, Chemistry and Physics/Electronics prepared by the faculty of the college. The participants were given hands-on training in various experiments of Physics, Chemistry and Biology. Faculty members from Botany, Biomedical Science, Chemistry, Electronics, Physics and Zoology departments conducted the workshop as coordinators and resource persons (Details in section 5).

Between Feb 6-8, 2016, the college organized a three-day Festival comprising a number of competitive events. One event was an Exhibition – *Darpan* that consisted of stalls put up by the various departments of the college as well as by various committees like Open Education, Research, Th!nk lab & CUBE, SPIE, Students’ Empowerment, Theatre in Education, NSS, Entrepreneurship, skill development and ANDY. In addition, the college through multi-media projections in the form of Bioscope – the audio visual gallery and use of still photographs, highlighted various dimensions of the college, its people and its contribution to the academia and the society in general.

Since the exhibition was a competitive event, the stalls of *Darpan* were evaluated over three days by eleven judges. The **First Prize** of Rs. 10,000/- was bagged by the ‘student-scientists’ in the Th!nk Lab. The **Second Prize** of Rs 7,500/- went to the NSS and Theatre Stall. There were two **Third prizes** of Rs 5,000/- each for the Department of Mathematics and Electronics. In addition to this, two **Commendation Prizes** of Rs. 2,000/- each were awarded to the Department of Zoology and Research Stall.

The Festival also had various other competitive inter-school and inter-college events such as, *Manthan*, the inter-school and inter-college debate competitions, *Rangmanch*, the inter-college street play competition, *Dhumki*, the inter-school folk dance competition and *Exquizit*, the inter-college quiz competition. An inter-college volleyball (Women's and Men's) tournament with 24 teams was also organised. All members of participating teams were given free kits for playing in.

### Inter College Events

<b>Debate, <i>Manthan</i> Feb 06, 2016</b>	
First Prize	Anju, Moti Lal Nehru College, DU
Second Prize	Shashank, CPC, JNU Vaibhav Srivastava, Acharya Narendra Dev College, DU
Interjection	Deepanshu, SGTB Khalsa College, DU Kirti, IP College
<b>Street Play, <i>Rangmanch</i> Feb 06, 2016</b>	
First Prize	Maharaja Agrasen Institute of Technology, GGSIPU
Second Prize	Lady Irwin College, DU and Jesus and Mary College, DU
<b>Quiz, <i>Exquizit</i> Feb 08, 2016</b>	
First Prize	Gaurav Jenu and Jyant Verma, Shaheed Sukhdev College of Business Studies, DU
Second Prize	Shreyan Parth Krishna and Mohd. Fahad, Delhi Technological University

### Inter School Events (Feb 08, 2016)

<b>Debate, <i>Manthan</i></b>	
First Prize	Shankar Tripathi, Air Force Golden Jubilee Institute
Second Prize	Shruti Katoch, Tagore International School, East of Kailash
Best Interjection	Siaa Girotra, Tagore International School, East of Kailash Aatmik Gupta, Modern School, Barakhamba Road

Folk Dance, <i>Dhumki</i>	
First Prize	Bal Bharti School, Dwarka
Second Prize	SDP School
Third Prize	New Light School

## Inter College Volleyball Tournament Feb 06-08, 2016

Men	
First Prize	Deshbandhu College, DU
Second Prize	Dyal Singh College, DU
Best Player	Umed Singh B.A. (Hindi) II yr Deshbandhu College, DU
Women	
First Prize	Gargi College, DU
Second Prize	IIT-Delhi
Best Player	Kritika Sharma B.Com (P) II yr Gargi College, DU

The alumni meet, *Mel Milap*, on **Feb 07, 2016**, was scheduled such that the old students could attend the exhibition *Darpan* and see the trajectory of development, the College has taken since they left. This year being the silver jubilee year, the meet even attracted students from the first batch (1991-1994) of the college.

The other important stakeholders, the society and the parents of our students, were also welcomed under *Avlokan*, the Open Day on Feb 07, 2016.

### 6.4. Staff Council Committees (List of Committees and their members: Annexure II)

#### 6.4.1. Academic Affairs Committee

**Convenor: Dr. Seema Gupta**

The **Annual Day** of the college was organised on April 09, 2015. Mr. Manish Sisodia, Hon'ble Deputy Chief Minister, Government of NCT of Delhi was the Chief Guest. Ms. Puniya Salila Srivastava, Secretary (Edn./TTE/ Higher Education) Government of



NCT of Delhi and Ms. Achla Singh, Director, Higher Education, Government of NCT of Delhi, were the Guests of Honour. Professor R.C. Kuhad, Chairman, Governing Body, presided over the function.

The **Open Day** of the college was organised on Jun 2, 2015 for students seeking admission in the colleges of the University Delhi in the academic session 2015-16. Detailed information of the centralized admission process was provided to the participating students and their parents.

An **Orientation Programme** for the first year students was organised on Jul 20, 2015. Students were familiarised with the academic culture, co-curricular and extra-curricular activities, attendance rules, internal assessment criteria, add-on courses, skill development through research and entrepreneurship, grievance cell, students' council and choice based credit system introduced in the University of Delhi in 2015 through a visual presentation.

The **Acharya Narendra Dev Memorial Lecture** was organised on Nov 2, 2015. This lecture marked the beginning of the silver jubilee celebrations of ANDC's establishment. Shri Kumar Prashant, Member, Governing Board, Gandhi Peace Foundation, Delhi enlightened the students through an interactive lecture on 'Kaise Jiyein'. Shri Rajiv Chaudhary, Chairman, Governing Body also graced the occasion.

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#### 6.4.2. National Service Scheme (NSS)

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**Convenor: Dr. Anita Narang**

The NSS Unit of the college celebrated **International Yoga Day** on Jun 21, 2015 at 7:00 am in the college grounds. Students and staff had a healthy yoga-session to mark the day.

NSS volunteers made life easier for prospective students and their parents during admission time, by helping and guiding the students seeking admission in ANDC.

The **Thalassemia Initiative** adopted in the previous session was continued by the college. The College sent donors to the Red-Cross Society when the thalassemic girls adopted by the college were in need of blood.

**Swachh Bharat Abhiyaan** was adopted as a regular practice and cleanliness drives were held regularly in the college campus by NSS students. **NSS Day** was celebrated on Sept 24, 2015 and a massive rally on dengue awareness was organized in the adjoining areas of Govindpuri followed by a cleanliness drive.

**Diwali Mela (Sahyog)** was organised on Nov 03, 2015. At the Mela, different NGOs working for the welfare of persons with disability, sold products made by the disabled, to the staff and students of the college and the collective sale amounted to Rs. 100,000/-. Events like painting, dancing and singing were organised for the especially-abled students. *Dhun* (the Dance and Music Society) and *Dhwani* (the Dramatics Society) also performed for the guests.

**Rashtriya Ekta Divas** was celebrated on Oct 31, 2015 to commemorate the birth anniversary of Sardar Vallabh Bhai Patel. The event was marked by the oath-taking ceremony followed by a discussion on Sardar Vallabh Bhai Patel. Some ANDC students also participated in the 'Run for Unity' at India Gate organized by the Government of India at 7:00 am on the same day.

Some students of the ANDC NSS Unit also went to Chattrasal Stadium in Dec 30, 2015 to attend a talk by the CM of Delhi regarding the planning and implementation of the odd-even formula (to the private vehicles of Delhi). Two students attended the **National Youth Festival** held in Raipur, Chhatisgarh from Jan 12 -16, 2016.

The NSS Unit of the college also observed the **National Youth Day** on Jan 12, 2016 to mark the 153rd birth anniversary of Swami Vivekanand. The students delivered speeches on Swami Vivekananda's life and his teachings followed by a poster-making competition.

The college NSS unit extended help to **MUSKAN**, an NGO, and some volunteers going to MUSKAN each day for two months and helping the mentally-disabled children in the production and marketing of goods, in an effort to boost their production and sales.

A **blood donation camp** was organized on Jan 27, 2016 in the college premises followed by a counselling session for anaemic students. A **thalassemia-screening camp** in association with Thyrocare Technologies Ltd. was organised on Feb 6 and 8, 2016 during Darpan. ANDC students received a certificate of appreciation for setting up a stall for thalassemia awareness in IIT-Delhi's fest on Mar 13, 2016.

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### 6.4.3. Annual Cultural Events Committee

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**Convenor: Dr. Sadanand Prasad**

The Cultural Events Committee takes care of the freshers' welcome party, departmental farewell functions and the Annual Cultural Festival – Accenture.

The **farewell party** for the batch passing out in 2015 was organized on April 17, 2015. The **freshers' welcome party** was organized on Aug 14, 2015 by each department. The Annual Cultural Festival, **Accenture** was held on Jan 28-29, 2016. The activities included were various literary, fine arts and music-oriented inter-college competitions. This year, Accenture saw excessive coverage on the social and print media. Around 1000 students registered for different events over the two days. Some unique programmes included this year were FIFA gaming, Mr. & Ms. Accenture 2016 contest, and the Eat-to-Beat contest. The Festival culminated with the much awaited Star Night, which featured the famous Punjabi singer, Hardy Sandhu. The event was sponsored by our Banking Partners (Punjab National Bank, Union Bank, Canara Bank), Awareness Partners (Delhi State AIDS Control Organization), Food Partners (Om Shanti, Alvi's Food), Event Partner (Verve Events), Education Partner (TIME) and Media Partners (BBC India, DU EXPRESS, Collegedunia).

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#### 6.4.4. Sports Committee

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**Convenor: Dr. Udaibir Singh**

The college organised a **Sports League** (Football, Cricket, Volley ball, Athletics, Badminton, Basket ball, Chess and Table tennis matches) from Sept 16 - Oct 10, 2015. A **Sports Week** was organized from Jan 20 - Feb 2, 2016. The **Sports Day** was organized on Feb 04, 2016. Dronacharya awardee Sh. Mahavir Singh, the coach of Indian Women's Boxing Association and also the coach of the world champion, MC Mary Kom, was the Chief Guest for the occasion. B.Sc. Physical Sciences students won the overall winner's trophy and B.Sc. (H) Mathematics won the runner's up trophy. A **Silver Jubilee Inter College Volleyball Tournament** was organized during *Rajatotsav*. Sixteen men's teams and eight women's teams from colleges of the University of Delhi, DTU as well as IIT-Delhi participated (Results listed in section 6.1).

This year, AND College's Volleyball team won the Winner's Trophy and the cricket, basket ball, football teams reached the semi finals in the NDIM Sports Tournament held at Jasola Sports Complex on Feb 9, 2016. The ANDC teaching and non teaching staff cricket team won the trophy at the Bhaskaracharya Inter College Staff Tournament held in BCAS, Dwarka on Dec 31, 2015. Mr. Mukesh Sharma (Non teaching staff, Dept. of Botany) won the Man of the Match award in the finals and Mr. Kiran Ahuja (Non teaching staff, Dept. of Electronics) won the Man of the Tournament Trophy. The ANDC Teachers' Cricket Team won the Runner's up Trophy at the Shaheed Bhagat

Singh Memorial Cricket Tournament-2016 held in Shaheed Bhagat Singh College on Feb 18, 2016. This was the first time when the ANDC Teachers' Cricket Team participated in any cricket tournament.

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### 6.4.5. IT Committee

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**Convenor: Dr. Pankaj Khanna**

For the continued proliferation of FOSS philosophy, the IT and FOSS Committee of the college organized a series of workshops for the first year students, in batches, during Aug 18-21, 2015. The workshop sessions were conducted by the students of B.Tech. Computer Science to familiarize the new batch of students with the Linux environment and its potentials. The sessions included a discussion and a hands-on session on Ubuntu and the office suite, Open Office. Besides this, workshops on ERP solution software were also organized by the IT Committee for second and third year students on Mar 1, 2016. The Committee also arranged for the transmission of the launch of the 'Startup India Campaign' by the Hon'ble Prime Minister of India on Jan 16, 2016.

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### 6.4.6. *Dhwani* - The Rhythm of Action (Theatre Society)

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**Convenor: Dr. Sandeep Goel**

In order to promote theatre among students and make them familiar with *Dhwani*, a **theatre week** was organised in the college during Aug 5-11, 2015. A small street play entitled *Rangmanch Ka Khel*, was performed on Aug 5 and 6, 2015 in the college's front lawns. The play included a brief introduction to street plays, short plays, annual theatre productions and other performances of *Dhwani* in recent years.

*Dhwani* conducted **auditions** in the categories of acting, writing and instruments and backstage for selecting new members on Aug 11, 2015 and Aug 26, 2015. For the selected participants (55), *Dhwani* organized a **four-day students' workshop** for two hours each day consisting of many theatre exercises during Aug 17-21, 2015. The workshop was aimed to train the new members in working in teams, trusting team members, coordination, techniques of performing on the stage, confidence building, voice modulation etc.

*Dhwani* staged a short play titled *Auchitya* on naxalism on Sept 29, 2015 with a repeat show on Sept 30, 2015, second short play titled *Jhumri Talaiya* on the occasion of

*Diwali Mela* organized by the college NSS unit and third short play titled *Virangana* on the occasion of the annual cultural festival, Accenture.

*Dhwani* organised *Rangmanch* - the Street Play Competition, on Feb 6, 2016 in the college under the aegis of *Rajatotsav*, the silver jubilee celebrations. Twelve teams from different colleges of the University of Delhi and GGSIPU participated and covered a variety of socially relevant topics such as cruelty against animals, homophobia, depression, plight of juveniles etc. in their street plays (results in section 6.1). *Dhwani* also showcased its activities and achievements in a stall shared with NSS in *Darpan* and also staged a small skit portraying the work of *Dhwani* & NSS for every group of guests on all the three days of *Rajatotsav*. The joint stall of Theatre and NSS bagged the second prize in *Darpan*.

*Dhwani*, staged the 6th Annual Theatre Production *Wajood* – Men without Shadows on Mar 2 and 3, 2016 at the Shri Ram Centre, Safdar Hashmi Marg, New Delhi. The theatrical production was designed, devised and directed by renowned theatre personality Ajay Manchanda and scripted by Anis Azmi and Rajan Tiwari. Dr. B. K. Sharma, Director and Special Secretary, Planning Department, Government of N.C.T. of Delhi, graced the occasion as the Chief Guest on Mar 2, 2016. Mr. M. K. Raina, renowned actor, director, producer and cultural activist, was the Chief Guest on Mar 3, 2016.

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#### **6.4.7. Career Counseling and Placement Cell**

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**Coordinator: Dr. Harita Ahuja**

The college has an active Career Counseling and Placement Cell that tries to understand the career objectives of students, keeping in mind the current trends in the corporate world. The scope of the cell extends from coordinating job-hiring activities to organizing interactive career counseling seminars. The Cell is truly a platform of the students, by the students and for the students.

The Placement Cell helped 201 third-year students, registered with it, by providing guidance for career options in the form of counseling sessions and by organizing campus recruitment drives. The Placement Cell organized a talk on 'Soft Skill Development' by Ernst & Young on Aug 21, 2015. It also organized a pre placement session by TCS on TCG Ignite programme on Aug 28, 2015.

## Net Placement Data for 2015-16

S. No.	Company	No. of Selected Students
1	Ernst & Young	02
2	Wipro Wase and Wista	10
3	Aon Hewitt	03
4	Concentrix Daksh	21
5	British Telecom	05
6	Tech Mahindra	14
7	Genpact	13
	<b>Total Students Selected</b>	<b>68</b>

### 6.4.8. Women Students' Affairs Committee (Sashakt)

**Convenor: Dr. Sanjeeta Rani**

*Sashakt* organized a **workshop** on 'Awareness on Sexual Harassment amongst Youth' on April 15, 2015. Prof. Anjali Gandhi, retired professor of social work from Jamia Millia Islamia and an authority in the field of women's empowerment was the guest speaker. Prof. Gandhi highlighted the issue of gender discrimination and sexual harassment. *Sashakt* also organized a **workshop** on 'Promotion of Feminine Hygiene and Sanitation' cum 'Demonstration of the Sanitary Pad Vending Machines and Sanitary Pad Disposal Incinerator' which was conducted by an NGO named Centre for Water, Sanitation and Health for Women (CWSHW) on Sept 1, 2015. The facility became operational in the college campus from Jan 2015.

*Sashakt* organized a three-day **Self Defence Training Programme** from Nov 6-8, 2015. Sixty eight girl students participated in the programme conducted by Delhi Police, Central Zone – Ms. Kavita Sethi of the Delhi Police was the trainer. A brief interactive session by the local police of Kalkaji area apprised students about their safety issues and use of mobile applications like esathi and Himmat on Jan 7, 2016.

*Sashakt* showcased its activities in the stall for Students' Empowerment during Darpan. The students of *Sashakt* also enacted a short skit on various issues of women's safety. A workshop on **Legal Literacy** was organized on Feb 25, 2016 by the District Legal Services Authority (DLSA) -South East, wherein Ms. Chetna Singh, Secretary DLSA-South East, Saket Courts delivered a lecture on **Sexual Harassment of Women at the Workplace**. Sh. Dharmender Rana, Project Officer, Patiala House Courts also delivered a talk on the **Activities of DLSA**.

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#### 6.4.9. Debating Society

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**Convenor: Mr. Manoj Garg**

The Debating Society organized a number of events throughout the year:

An **Intra-college Debate Competition** on the topic 'Youth is performing their duty towards national integration' was organized on Sept 24, 2015. A **Group Discussion** (both in Hindi and in English) on the topic 'The present education system is suited to nation building' was held on Nov 02, 2015 as an activity on the day of Acharya Narendra Dev Memorial Lecture.

An **Inter-college Debate Competition** on the topic 'The odd-even formula is a right step to control Delhi's air pollution' was organized in 'Accenture 2016' on Jan 28, 2016. The first prize winner was Vaibhav Srivastava of B.Sc. (H) Chemistry, I year (ANDC) while the second prize went to Rajesh (Shivaji College) and the third prize to Himani (Shaheed Bhagat Singh College, Eve). The Best Interjectors were Shailya Verma, B.Sc. (H) Biomedical science, Iyear (ANDC) and Arathi Nair (IGDTU).

An **Inter-college Debate Competition (Manthan)** was organized on Feb 6, 2016 as part of the silver jubilee celebrations of the college. The topic of the debate was 'Surrogacy is unethical and should not be permitted'. The competition was judged by Prof. Ravinder Gargesh, Dr. Mukti Sanyal and Dr. Sabina Pillai (Results in section 6.1).

An **Inter-school Debate Competition (Manthan)** on the topic 'Internet encourages democracy' was organized on Feb 8, 2016. Dr. Gagan Gupta, NCERT, Dr. Shobha Rani, Asst. Professor, KNC and Mr. Vishal Gupta, AGM, State Bank of India were the judges of the event (Results in section 6.1).

The Society also sent students of the college to participate in Debate Competitions at various colleges/institutions. Details of prizes won by students are in Section 4 of this Annual Report.

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#### 6.4.10. Equal Opportunity Cell

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**Coordinator: Mr. Manoj Garg**

EOC organized a workshop on 'Personality Development' in the college for the PwD students on Sept 9, 2015. The resource persons for the workshop were Ms. Mehak Vaish and Ms. Kamna from 'The Possiblers'. The speakers motivated the students through an interactive session which included some games also. They touched on the behavioural and practical aspects of life. Sahyog, Diwali Mela was organized in collaboration with the NSS unit of the college on Nov 3, 2015.

Sports competitions were held for the differently-abled students on Feb 3, 2016, as part of the sports week in the college. The events held during the day were 100m Race (08 participants), Badminton Women (2 participants), Badminton Men (10 participants), Carrom (10 participants) and Chess (10 participants). The participating students felt highly encouraged and happy through this new initiative of the college.

### 6.5. Departmental Activities

The students' society of each department organizes co-curricular activities throughout the session. These societies help the students to identify their hidden talents by overcoming inhibitions, thus improving their organizational capabilities and leadership skills and helping them emerge as better individuals. Besides co-curricular activities, some extra-curricular activities are also organized by these societies.

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#### 6.5.1. Department of Biomedical Science

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**Teacher-in-charge: Dr. Rajesh Chaudhary**

The departmental society **CATHEXIS** organised its inaugural lecture on Sept 14, 2015. Eminent Immunologist **Dr. Satyajit Rath** from National Institute of Immunology delivered a talk entitled Antargyan: how the immune system detects the hidden hand. Dr. Rath explained the various complex mechanisms that encompass the immune system in a very simple and easy-to-grasp manner to the undergraduate students.

A lecture on the 'Role of iron in rheumatoid arthritis' by Dr. Helen Collins, Vice Dean, Faculty of Life Sciences and Medicine, Kings College, London was organized on Nov 3, 2015.

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#### 6.5.2. Department of Botany

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**Teacher-in-charge: Dr. M. S. Rajeswari**

The Department of Botany started its new session by welcoming its freshers on Aug 14, 2015. **TARUMITRA** held its function on Sept 3, 2015. The **inaugural lecture** was delivered by Prof. S. Biju Das, the 'Frog Man of India'. Prof. Biju's Lecture, 'Life: understanding with uncertain knowledge – halting human induced amphibian extinction' focused on the evolutionary significance of amphibians, their importance in Nature, human beings as a cause of their extinction and how the society can work towards the conservation of amphibians. TARUMITRA organized its **validictory**



lecture by Prof. R. Geetha, Department of Botany, University of Delhi on "What do you mean, nothing in Biology makes sense except in the light of evolution?" on Mar 22, 2016.

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### 6.5.3. Department of Chemistry

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**Teacher-in-Charge: Dr. Neelu Dheer**

**ABHIKRIYA**, the Chemistry Society, organised a lecture on 'Future of Chemistry' by Prof. J. M. Khurana, Department of Chemistry, University of Delhi, on Oct 15, 2015. The Department organized a workshop for the first year students to improve their experimentation skills. (Details in Section 5)

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### 6.5.4. Department of Commerce

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**Teacher-in-charge: Mrs. Sangeeta Relan/Dr. Shalu Mahajan**

**VANIYA**, the Commerce Society, celebrated its annual fest **CORPOMAZE** on Feb 2, 2016. It started off with a lecture by Dr. V. K. Singhanian on 'Personal tax planning' and was followed by events like 'Act Mad' Brain Hammer Age, a quiz about commercial advertisements and taglines and had three rounds.

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### 6.5.5. Department of Computer Science

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**Teacher-in-charge: Dr. Preeti Marwah**

**TURING** - The Computer Science society organized its inaugural function on Sept 8, 2015 in which a **talk** on 'Cloud Computing' was delivered by Mr. Sheikh Faraz Osmani, Joint Director, Planning and Analysis Cell, Ministry of Petroleum and Natural Gas, Government of India.

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### 6.5.6. Department of Electronics

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**Teacher-in-Charge: Dr Udaibir Singh**

The Electronics Society, **ELECTRONICA**, organized its annual festival 'ElectroBlitz' on April 1, 2015 in which Professor H. B. Bohidar, Special Centre for Nanoscience, JNU, New-Delhi delivered a talk. The students organized events like Tech Quiz, Extempore and Electroज्ञापन.

**ELECTRONICA** also organized a session on Robotics on Aug 27, 2015, in which students of Electronics, Computer Science and Physics participated. The students of B.Tech.

Electronics (III year) under Innov8 Society organized their first workshop, Robotics 101: Microcontrollers and its Programming from Nov 3-6, 2015.

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### 6.5.7. Department of Mathematics

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**Teacher-in-charge: Ms. Seema Gupta**

**MATRIX**, the Mathematical Society, organised an **inaugural lecture** on ‘Mathematical modeling of pharmacokinetics’ on Sept 17, 2015 by Prof. Shobha Bagai, an eminent professor at the Cluster Innovation Centre, University of Delhi. Students had the opportunity to develop a mathematical model of a biological phenomenon with which all of them can relate to. Students were also able to make interdisciplinary connections between the model and their previous personal, mathematical and other classroom experiences.

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### 6.5.8. Department of Physics

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**Teacher-in-charge: Dr. Rachna Kundliya**

The Physics Society of Acharya Narendra Dev College, **PHYSENTROPY**, organised a **documentary show** for college students, on the life of Dr. A.P.J. Abdul Kalam and his achievements, on Oct 7, 2015. A short educational video on ‘Graphene’ and its applications was also played along with other inter-college competitions like Quiz and Poster Making on themes (i) Advances in Physics: Everyday life and (ii) Life Beyond this World. **PHYSENTROPY** organized a **talk** on ‘Accelerators and related research activities at IUAC Delhi’ by Dr. D. Kanjilal, Director, IUAC, Delhi on Oct 20, 2015.

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### 6.5.9. Department of Zoology

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**Teacher-in-charge: Dr. Poonam A. Kant**

The Zoological Society, **NICHE**, organised its **inaugural lecture** on ‘Defending Nature: The Unconventional Route’ by Mr. Debadityo Sinha, a well known environmental activist and an alumnus of the college on Sept 9, 2015. On Sept 29, 2015, the Department organized another lecture on ‘Role of induced pluri-potent stem cells in understanding neurodegenerative diseases such as Parkinson’s disease’ by Dr. Yogita Adlakha, also an alumna of the college and currently a Visiting Scientist at National Institute of Health, USA. **A trip to Yamuna Biodiversity Park**, Delhi was organized for Zoology (H) I yr students as part of their course curriculum on Sept 23, 2015.

The final year students were taken for an **excursion to Sariska National Park** from Oct 27- 29, 2015, as part of their curriculum. The Department bagged the 'Commendation Prize' for its stall set up in Darpan- an exhibition organized by the college from Feb 6-8, 2016.

### 6.6. Excursions for Peer Learning in an Open and Rejuvenating Environment (EXPLORE)

Under the EXPLORE scheme offered by the college for its second year students, the following departments took their students on excursions:

S.No.	Course	No. of Students (Staff)	Destination	Duration
1.	Botany	32 (4)	Dalhousie and Khajjiar	Sept 30, 2015 - Oct 4, 2015
2.	Life Sciences	52 (7)	Jaisalmer and Jodhpur	Jan 22-26, 2016
3.	Biomedical Science	29 (5)	Jim Corbett	Mar 12-15, 2016
4.	Zoology	28 (4)	Jaisalmer	Mar 11-14, 2016

### 6.7. Library

The ANDC Library increased the number of books on its shelves by 300 and subscribed to two additional journals.

The library organized a two day Annual Book Exhibition on Sept 3-4, 2015. Publishers and book sellers like Prentice Hall of India, Unilib Book Dist. Pvt.Ltd., Asian Book Centre, Narosa Publishing House, N.R.Book Distributor, Pearson Education, S.Chand & Co., Cambridge University Press, Orange Books International, Viva Books Pvt. Ltd., Orient Blackswan Pvt.Ltd. and Panima Educational Agency participated in the exhibition & displayed their books in the library. The faculty members and students selected books for the library as well as for their personal use.

## 7. Innovation And Entrepreneurship Development Centre (IEDC)

IEDC of Acharya Narendra Dev College, supported by National Science and Technology Development Board (NSTEDB), Department of Science & Technology, Govt. of India, continues to motivate the students to develop entrepreneurial skills and work on innovative ideas having a potential of commercialization. IEDC conducted an **Entrepreneurship Awareness Camp (EAC)** at Bhagini Nivedita College, Delhi on Feb 19-20, 2016. A one day “**Entrepreneurship Workshop**” was organized on Mar 21, 2016 at Aditi Mahavidyalaya, Delhi, to motivate and translate existing skills of rural community into rural-based microenterprises.

The **Entrepreneurship Lab (EL)** setup by IEDC provides a strong platform where students and faculty work together on business ideas, evaluate ideas to check whether fit for developing a Business Plan, calculate risk factors and give a kick-start at micro level. After a successful two years of existence, a few students have begun with small startups and four students have already setup their venture at micro level and started earnings.

**Acharya Narendra Dev Youth (ANDY)**, a campus-based company completed its two years. This year it provided new products such as customised Sweat Shirts and T-shirts for college students and NSS volunteers at reasonable prices. This year ANDY products received great appreciation from DU souvenir shop that is managed by the Delhi University Women Association (DUWA) and led to repeated orders from DU souvenir shop.

**UDGAM ANDC-Business Incubator (BI)** in the college, funded by Ministry of Micro, Small and Medium Enterprises (MSME), Govt. of India, has selected four innovative projects this year that have strong commercial viability to be forwarded to MSME.

## 8. Internal Complaints Committee

The college has an Internal Complaints Committee (ICC) with the following composition:

1. Dr. Sanjeeta Rani, Presiding Officer
2. Prof. Vibha Maurya, External Member
3. Mr. Nakul Singh Sawhny, External Member
4. Dr. Subhash Kumar, Member, Teaching Staff
5. Ms. Kanika Chadha, Member, Non-Teaching Staff

The ICC Presiding Officer is also the Convenor of the Women's Development Cell of the College – *Sashakt* – the Society for Women's Empowerment.

In order to fulfil its main objective of working towards women's development, the college has purchased one sanitary napkin vending machine and two incinerators for the women's washrooms for maintaining clean and hygienic conditions in the toilets.

Given below is an overall report of ICC and the activities organized under the aegis of Sashakt:

### Status Report of ICC as on Feb 29, 2016

Complaints of sexual harassment received	Nil
Nature of the act of sexual harassment	NA
Number of complaints disposed of	NA
Number of complaints disposed of within time	NA
<b>Number and type of training workshops organized</b>	
Self defence training	01
Workshop cum interactive session on sexual harassment and women's issues	03
Awareness programme on safety	01
Methods adopted in awareness programme	Posters, open house sessions and talks

## 9. Add-On Courses

Each student in the college comes from a different socio-economic background and hence has his/her own strengths and weaknesses. At ANDC, we have several students who come from a disadvantaged background. We, at ANDC, try to provide each student opportunities for her/him to overcome his/her weaknesses. To achieve this, various add-on courses are arranged by the college every year.

### 9.1. Effective Communication and Personality Development through Theatre (ECPDT)

**Course Coordinator: Dr. Sandeep Goel**

ECPDT is a short term add-on course designed, directed and conducted by Mr. Ajay Manchanda, an eminent theatre personality to inculcate dynamic life skills in students and to nurture their creative potential. The course is modelled on the philosophy of education advocated by UNICEF and WHO. The students are coached by theatre personalities well acclaimed in their domain as Dr. Suwarn Rawat, Mr. Rajinder Sharma, Ms. Nalini Joshi, Ms. Neelam Gupta, Mr. Anis Azmi, Mr. Bhoomikeshwar Singh, Mr. Avtar Sahni and Mr. Ashish Kumar are invited as guest faculty.

The college started its 7th ECPDT batch with 39 students on Aug 22, 2015. The course saw its successful culmination on Oct 27, 2015 with Professor Geetha Venkataraman, Department of Mathematics, School of Liberal Studies, Ambedkar University, Delhi as the Chief Guest and Shri Guneesh Agrawal, Treasurer, Governing Body, Acharya Narendra Dev College as the Guest of Honour. An innovation included as a part of the culmination function for the first time was a 'live' television that reported a summary of the major achievements of the college since its inception and the various programmes scheduled to be held throughout the year marking the college's completion of 25 years.

An exhibition was organized in which students showcased their creative and imaginative skills. Parents of the students also shared their views about the course and emphasized the positive transformation that they could easily discern in their wards after joining the course. 38 students who successfully completed the course were awarded certificates.

## 9.2. Foreign Language Courses

### Course Coordinator: Dr. Geetu Gambhir

The Foreign Language Centre of the college offers self financed one year part-time certificate and diploma courses in French, German, Spanish and Russian (only Diploma) that is recognized by the University of Delhi. In the previous academic year, the pass percentage of students in these courses has been 80 percent. There were over 50 students admitted in each of the certificate courses of French, Spanish and German Languages and more than 20 admissions in the Russian certificate courses. The Diploma course in Spanish and Advance Diploma in German had 15 admissions each.

## 9.3. Certificate Course in Bioinformatics and *in-silico* Drug Discovery

### Course Coordinator: Dr. Gagan Dhawan

The course, **Bioinformatics and *in-silico* Drug Discovery**, a 128-hour long course, offered by the Department of Biomedical Science, ANDC in collaboration with Bhaskaracharya College of Applied Sciences, has successfully trained two batches. The third batch of this course commenced from Feb 21, 2016. This course includes both lectures and hands-on sessions on biological databases, sequence and microarray analyses, phylogenetic analysis, importance of Bayesian statistics, molecular modelling and protein-drug docking.

The course structure is formulated in consultation with the members of the course advisory committee consisting of eminent scientists from the academia as well as industry aims to suit the fast-track needs of bioinformatics and *in-silico* drug discovery divisions of pharmaceutical companies and research organizations.

## 10. College Development

### 10.1. Financial Grants Received

#### 10.1.1. Grants received from the University of Delhi for Innovation Projects

Details of the Projects	Amount (Rs.)
DU Innovation Projects (ANDC-301, ANDC-302, ANDC-303, ANDC-304, ANDC-305, ANDC-306, ANDC-307, ANDC-308, ANDC-309, ANDC-310 and ANDC-311)	42,00,000/-

#### 10.1.2. Grants Received from DST/CSIR/UGC

Type of Grant received	Funding Agency	Amount Sanctioned (Rs.)	Received during 2015-2016 (Rs.)
Exposure-response assessment of Ambient Air Pollution (AAP) and Hg contamination in affected cities of India and Slovenia (DST Project)	DST	16,11,375/-	5,37,125/-
Mtb Mur pathway enzymes: Potential candidates for multi targeted therapy (CSIR – OSDD project 2013-2016)	OSDD	37,63,000/-	7,18,400/-
Establishment of an Innovation and Entrepreneurship Development Centre (IEDC 2010-2015)	DST	27,55,000/-	2,50,000/-

#### 10.1.3. Infrastructural Grants Sanctioned by the Directorate of Higher Education

Name of Work	Sanctioned Amount (Rs.)
External and internal finishing (White Washing and Painting), etc	24,39,753/-



## 10.2. Upcoming ANDC Campus at Rohini

The Directorate of Higher Education, Government of N.C.T. of Delhi has allotted 7.5 acres of land for the construction of the new campus of the college at PSP area Sector 5, Rohini in December, 2014. The allotted land is at a prime location in the institutional area of Rohini and is at a walking distance from Rithala/Rohini West metro station. Bhoomi poojan ceremony was performed by ANDC family on March 25, 2015.

The new Campus and the College buildings are being designed by the consultant, M/s Behal Joshi and Associates, appointed by the Government of N.C.T. of Delhi. The new buildings will be disabled-friendly and green, and designed to utilize permissible floor-area ratio by attaining maximum height for each building. The layout design has more than 6,60,000 sq.ft. of constructed area and will serve an academic community of nearly four thousand including 3500 students.

The new Campus will have all modern amenities for students and the College will expand its horizons by adding a range of new courses as well as increase the number of students enrolled in it from the present 1800. It will have more than 4,00,000 sq.ft. in the academic block (G+8 storey) and 32,000 sq.ft. in the administrative block (G+4). The auditorium, library, start-up hub and multipurpose indoor gymnasium complex measures around 1,00,000 sq.ft. (G+7).

The library will span across three floors with a total area of around 50,000 sq. ft. Stacking provisions are made for more than 60,000 books and reading halls for more than 450 students. The library will be air-conditioned with natural light garnered through cut outs on the roof. A Start-up and Innovation Hub measuring 16,000 sq.ft. will house young entrepreneurs alongside academic researchers such that new technology developed can be brought to the market in the minimum turn-around time. An auditorium of around 600 seating capacity having all modern facilities have been provisioned to stage the annual theatre productions, annual cultural festivals, annual days, and for organization of national and international conferences/symposia etc. An amphitheatre has been provided for with a seating capacity of 150 near the playground for showcasing of the round-the-year cultural activities.

The new Campus will have a playfield of 55 x 96 meters, of standards to host football as well as cricket tournaments. A state-of-the-art indoor multipurpose sports facility measuring 32,000 sq.ft., to host any national level tournament, will be created for volleyball, basketball, badminton and table tennis along with a gymnasium and a yoga centre.

The Hostel Block measuring 61,000 sq.ft. (G+7) will provide a comfortable living experience, reinforcing the social and intellectual connectivity for 100 boys and girls each. The residential building plans for staff include eight units each of type II, III, IV, V and one unit of type VI.

The plan drawings are ready and are under submission with various local bodies. The project is of high priority to the Government of N.C.T. of Delhi who have made budgetary provisions for the construction of this new campus. We hope to start construction by September/October, 2016.

## Annexure I (A)

### RESEARCH PUBLICATIONS BY FACULTY AND STUDENTS

#### Peer Reviewed Journals

- 1) Sinha A, Kandasamy E, Sinha S, Lynn AM and **Bajpai U** (2015) Functional Analysis of TPM Domain Containing Rv2345 of *Mycobacterium tuberculosis* Identifies its Phosphatase Activity. *Protein Expression and Purification*, **111**: 23-27. (doi: 10.1016/j.pep.2015.03.003).
- 2) Ahamad S, Khan F I, **Bajpai U**, Ali S, Dwivedi N, Hassan Md. I (2015) A Comparative Molecular Dynamics Study of MurA Enzymes from *E. coli* and *M. tuberculosis*. *Innovations in Pharmaceuticals and Pharmacotherapy*, **3 (3)**: 673-682.
- 3) **Dhawan G**, Chandra R, Gupta K C and Kumar P (2015) Facile and Rapid Deprotection Conditions for the Cleavage of Synthetic Oligonucleotides from 1,4-Anhydroerythritol-based Universal Polymer Support. *Nucleosides, Nucleotides and Nucleic Acids* (Taylor and Francis Publishers, UK), **34(3)**: 149-162.
- 4) **Dhawan G, Gupta S, M. Jain**, Dhawan U, Deepika, Dungriyal P, Zaidi Z, Singh Y, Thakur J, Dharmendra, Chauhan A and Sharma K (2015) An Explorative Study on Knowledge and Awareness of Health Problems Related to Usage of Fabric Dyes by Road Side Dyers in Delhi, India. *DU Journal of Undergraduate Research and Innovation*, Vol. **1(3)**: 20-25.
- 5) **Mangla A**, Chaudhary M, Gupta H, Thakur R, Goel S, Raina SN and Tandon R (2015) Facultative Apomixes and Development of fruit in a Deciduous Shrub with Medicinal and Nutritional Uses. *AoB Plants*, **7**: 1-11. (doi: plv098;10.1093/aobpla/plv098).
- 6) **Chhabra S** and Dixit VS (2015) Cloud Computing: State of the Art and Security Issues. *ACM SIGSOFT Software Engineering Notes* archive **40(2)**: 1-11 (doi: 10.1145/2735399.2735405).
- 7) Chandra S, **Hooda S**, Tomar PK, Malik A, Kumar A, Malik S, Gautam S (2016) Synthesis and Characterization of Bis-Nitarto[4-hydroxyacetophenonesemicarbazone]

- Nickel(II) Complexes Ionophore for Thiocyanate - selective Electrode. *Material Sci. and Engg. C*, **62**, 18-27.
- 8) Bhatnagar V, Ahuja S, **Kaur S** (2015): Discriminant Analysis-based Cluster Ensemble. *International Journal of Data Mining, Modelling and Management*, **7(2)**: 83-107.
  - 9) **Singh N**, Vaish B and Singh SR (2015) Three Level Supply Chain Model with Variable Demand Rate under Partial Trade Credit Policy. *International Journal of Services and Operations Management*, **21 (4)**: 479-503.
  - 10) Khan A and **Geol N** (2015) Non-resonant and Resonant Planar Oscillations of the Satellite. *International Journal of Applied Engineering Research*, **10 (8)**: 21267-21272.
  - 11) 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*, Article ID 2857089, pp: 1-8. <http://dx.doi.org/10.1155/2016/2857089>
  - 12) Shukla R K, Tripathi P and **Kumar S** (2015) Evaluation of Larvicidal Efficacy of Actinomycetes, Isolated from the Soil, against Dengue Vector, *Aedes aegypti* L. *Indian Research Journal of Genetics and Biotechnology*, **7(2)**: 248 – 254.
  - 13) Sharma A, **Kumar S** and Tripathi P (2015) Impact of *Achyranthes aspera* Leaf and Stem Extracts on the Survival, Morphology and Behaviour of an Indian Strain of Dengue Vector, *Aedes aegypti* L. (Diptera: Culicidae). *Journal of Mosquito Research*, **5(7)**: 1-9. (DOI: 10.5376/jmr.2015.05.0006).
  - 14) Warikoo R and **Kumar S** (2015) Investigations on the Oviposition Deterrence and Ovicidal Potential of the Leaf Extracts of *Argemone mexicana* against an Indian Strain of Dengue Vector, *Aedes aegypti* (Diptera: Culicidae). *Applied Research Journal*, **1(4)**: 208 – 215.
  - 15) Singh M, Kumari S, Attri R and **Kumar S** (2015) Impact of *Calotropis procera* Leaf Extracts on the Survival, Morphology and Behaviour of Dengue Vector, *Aedes aegypti* L. *DU Journal of Undergraduate Research and Innovation*, **1 (3)**: 96 – 107.
  - 16) Mishra M, Gupta K K and **Kumar S** (2015) Impact of the Stem Extract of *Thevetia neriifolia* on the Feeding Potential and Histological Architecture of the Midgut Epithelial Tissue of Early Fourth instars of *Helicoverpa armigera* Hübner. *International Journal of Insect Science*, **7**, 53-60. Doi: 10.4137/IJIS.S29127

- 17) Mishra M, Gupta K K and **Kumar S** (2015) Impact of the Stem Extract of *Thevetia neriifolia* (Apocynaceae) on Food Consumption and Growth of Early Fourth Instars of *Helicoverpa armigera* Hübner. *Malaya Journal of Biosciences*, **2 (1)**: 26 – 35.
- 18) Das P, Solanki R and **Khanna M** (2015) Characterization of Extracellular Enzymes from Soil Actinomycetes: A Molecular Approach. *International Journal of Biotech. Trends and Technology*, **10 (2)**: 20-32.
- 19) Solanki R, Kundu A, Das P and **Khanna M** (2015) Chemical Profiling of Antimicrobial Compounds from *Streptomyces* sp. *European Journal of Pharmaceutical and Medical Research*, **2(6)**: 147-152.
- 20) Solanki R, Kundu A, Das P and **Khanna M** (2015) Characterization of Antimicrobial Compounds from *Streptomyces* sp. *World Journal of Pharmaceutical Research*, **4 (7)**: 1626-1641.
- 21) Sripoorna S, Abraham JS, Gupta R, Makhija S and **Toteja R** (2015) Diverse Freshwater Spirotrich ciliate fauna from Okhla Bird Sanctuary, Delhi, India. *Global Journal for Research Analysis*, **4 (9)**: 37-41.
- 22) **Makhija S**, Gupta R, **Toteja R**, Abraham JS and Sripoorna S (2015) Cadmium Induced Ultrastructural Changes in the ciliate, *Stylonychia mytilus* (Ciliophora, Hypotrichida). *Journal of Cell and Tissue Research*, **15 (3)**: 5151-5157.
- 23) **Makhija S**, Gupta R and Toteja R (2015) Lithium-induced Developmental Anomalies in the Spirotrich ciliate, *Stylonychia mytilus* (Ciliophora, Hypotrichida). *European Journal of Protistology*, **51**: 290-298.
- 24) Kar A, Kaur M, Ghosh T, Khan MM, **Sharma A**, Shekhar R, Varshney A, and Saxena S (2015) RPA70 depletion induces hSSB1/2-INTS3 complex to initiate ATR signaling. *Nucl. Acids Res.* **43 (10)**: 4962-4974 ISSN: 0305-1048.

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#### PAPERS PUBLISHED IN CONFERENCE PROCEEDINGS

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- 1) Singh S, Yagnik P, **Gupta C K** and **Chowdhuri A** (2015) Carbon Monoxide (CO) Generation within the Micro-environment of Households through Regular Usage of Popular Incense and Anti-mosquito Repellants, Proc. of 3<sup>rd</sup> Indo-UK seminar on Recent Advances in Chemical Sensor (IUCRACS 2015), 25 – 26 Aug 2015, Gargi College (University of Delhi) INDIA pp 21.

- 2) **Vohra S** and **Kumar S** (2015) Waste to Wealth: Innovative Technologies to Create Beneficial Products through Entrepreneurship for Inclusive Growth. *Proceedings of International Conference on Corporate Social Responsibility & Sustainable Development, CSR 2015*; Dubai, May 4-5, 2015, pp: 10-19.
- 3) Chadha A and **Vohra S** (2015) Step towards Social Entrepreneurship: Innovative Ideas to Create Mosquito Repellent Products through Waste and Low Cost Material under Entrepreneurship for Inclusive Growth. *Proceedings of International Conference on Corporate Social Responsibility & Sustainable Development, CSR 2015*; Dubai, May 4-5, 2015, pp: 21- 26.
- 4) **Gupta C K** and **Chowdhuri A** (2015) Detection of trace-level H<sub>2</sub>S, SO<sub>2</sub> and H<sub>2</sub> Gas Concentrations using Nanocrystalline SnO<sub>2</sub> Thin Films Loaded with CuO Nanoparticles Proc. of 22<sup>nd</sup> International Symposium on Environmental Biogeochemistry 2015 (ISEB 2015) Sept 28– Oct 02, 2015, Piran-Portoroz, Slovenia pp 91.
- 5) **Chowdhuri A**, Raj S and **Gupta C K** (2015) Real-time Measurement of Gaseous Emissions from Unrestrained MSW Landfills Located in Delhi, India using Electronic-Nose (E-Nose) Proc. of 22<sup>nd</sup> International Symposium on Environmental Biogeochemistry (ISEB 2015), Sept 28– Oct 02, 2015, Piran-Portoroz, Slovenia P - 49, pp 142.
- 6) **Gupta C K**, Kumar N, Chakrabarty S and **Chowdhuri A** (2015) Significant Amount of Carbon Monoxide (CO) Generation with Heater Operation within the Microenvironment of a Closed Car Cabin, Proc. of 22<sup>nd</sup> International Symposium on Environmental Biogeochemistry (ISEB 2015) Sept 28– Oct 02, 2015 Piran-Portoroz, Slovenia P – 50, pp 143.
- 7) **Gupta C K**, Yagnik P, Singh S and **Chowdhuri A** (2015) Carbon Monoxide (CO) Pollution within Micro-environment of Households from Hidden and Non-discernible Sources -Proc. of National Conference on Recent Advances in Materials and Field Theory (NCRAMFT – 2K15), Dec 28-29, 2015, held at Bhagwan Parashuram Institute of Technology (I. P. University) pp 28 [ISBN 978-93-5254-054-9].
- 8) **Gupta C K**, Singh S, Yagnik P and **Chowdhuri A** (2015) Particulate Matter Emissions from Coal fired Barbeque Ovens – A Potential Source for Pulmonary and Cardiovascular Diseases Proc. of National Conference on Recent Advances

- in Materials and Field Theory (NCRAMFT – 2K15), Dec 28-29, 2015, held at Bhagwan Parashuram Institute of Technology (I. P. University) pp 36 [ISBN 978-93-5254-054-9]
- 9) Raigar M B, **Hooda S**, Batra G and Tyagi S (2015) Synthesis, Characterization and Application of Novel Guar Gum N, N-Dimethyl Aniline Resin for Waste Water Treatment, Published in Proceeding of National Seminar on “Innovative, Advance Research in Biomedical and Environmental Dynamics”, organized by Department of Chemistry, Dyal Singh College, University of Delhi on Oct 09 -10, 2015, pp-30.
  - 10) **Kumar V**, Lal S, Joshi MC, Rajour HK and **Hooda S** (2015) Spectroscopic Analysis, Molecular Modeling and Antimicrobial Applications of Cull heteroleptic Metal Complex Bearing Curcumin and 2, 2' - bipyridine, published in proceeding of ‘National conference on Interdisciplinary Approaches in Chemical Sciences – 2015’, organized by the Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia held on Dec 16, 2015, page no. 67 (pp-144).
  - 11) **Garg A**, Shudhanshu AK, Bharadwaj SR, Kumar R and Tyagi S (2015) Low Cost and User-friendly Environmental Monitoring System. *Proceedings of National Conference on Recent Trends in Instrumentation and Electronics* (RTIE – 2015), University of Delhi, South Campus, Jan 5-6, 2015, New Delhi, pp: 10-14.
  - 12) Kumar S, **Dhingra V**, **Garg A** and **Chowdhuri A** (2015) An Investigating Gas Sensing Mechanism of Graphene Oxide Thin Films through Cross-Selectivity to Various Gases International Conference On Condensed Matter & Applied Physics ICC 2015 , Oct 30-31, Bikaner, Rajasthan, Page 928.
  - 13) Chetna, Kumar S, **Dhingra V**, **Garg A**, **Chowdhuri A** and Kapoor A (2015) Zinc Oxide Doped Graphene Oxide Films For Gas Sensing Applications, International Conference on Condensed Matter & Applied Physics ICC 2015, Oct 30-31, 2015, Bikaner, Rajasthan, Page 795.
  - 14) **Garg A**, Bharadwaj SR and Kumar R (2015) Cooperative Autonomous Robotics Transportation System, National Conference on Inspired Learning organized by Maharaja Agrasen College, University of Delhi during Oct 16-17, 2015, International Journal for Scientific Research & Development (ISSN No (online). 2321-0613.

## Annexure I (B)

### Presentations in Conferences/Seminars/Symposia by Faculty

#### International

- 1) **Hooda S** presented a paper entitled 'Cd (II) Ion Selective Polymeric Electrochemical Sensor for Environmental Protection'. 3<sup>rd</sup> Indo Italian workshop on Electrochemistry for Energy and Health, Department of Chemistry, University of Delhi, on Jul 3 - 4, 2015.
- 2) Sripoorna S, Abraham J S, Gupta R, Toteja R and Makhija S presented a paper on 'Characterization of Cadmium Induced hsp70 gene in *Tetmemena* n. sp. and its Use as a Molecular Marker for Heavy Metal Toxicity. Ciliate Molecular Biology held at Camerino, Italy, Jul 10-16, 2015.
- 3) Gupta R, Abraham JS, Sripoorna S, **Toteja R** and **Makhija S** presented a paper on 'Morphology, Morphogenesis and Molecular Phylogeny of Two New Species of Class Spirotrichea Collected from Sanjay Lake in Delhi, India'. Ciliate Molecular Biology held at Camerino, Italy, Jul 10-16, 2015.
- 4) Abraham JS, Sripoorna S, **Toteja R**, Gupta R and **Makhija S** presented a paper on 'Metallothionein, TmMCd, Induction in Presence of Cadmium in the Spirotrich ciliate, *Tetmemena* n. sp'. Ciliate Molecular Biology held at Camerino, Italy, Jul 10-16, 2015.
- 5) Abraham JS, Sripoorna S, Gupta R, **Toteja R** and **Makhija S** presented a paper on 'Phylogenetic Relationships among the Spirotrich ciliates from the Indian Subcontinent Inferred from Small Subunit rRNA Gene Sequence. 4<sup>th</sup> workshop sponsored by the International Research Coordination Network for Biodiversity of Ciliates held at Qingdao, China, Oct 19-21, 2015.
- 6) Sripoorna S, Abraham JS, Gupta R, **Toteja R** and **Makhija S** presented a paper on Taxonomic Evaluation of *Tetmemena* sp. by Morphological and Multiple Markers to Assess its Phylogeny. 4<sup>th</sup> workshop sponsored by the International Research Coordination Network for Biodiversity of Ciliates held at Qingdao, China, Oct 19-21, 2015.
- 7) **Khanna M**, Das P and Solanki R presented a paper on 'Screening and Characterization of Chitinase and Xylanase Producing Soil'. 56<sup>th</sup> Annual



Conference of AMI, International Symposium on Emerging Discoveries in Microbiology, held at Convention Center, Jawaharlal Nehru University, New-Delhi Dec 7-10, 2015.

- 8) **Khanna M**, Solanki R and, Das P presented a paper on 'Antimicrobial Compounds from Soil Actinomycete'. 56<sup>th</sup> Annual Conference of AMI, International Symposium on Emerging Discoveries in Microbiology, held at Convention Center, Jawaharlal Nehru University, New-Delhi Dec 7-10, 2015.

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### National

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- 1) Niyan K and **Urmi Bajpai** presented a poster on 'Mur enzymes of *Mycobacterium tuberculosis* as Potential Drug Targets'. National Symposium on frontiers in Biomedical Research, organized by Dr. Bhimrao Centre for Biomedical Research, University of Delhi. Oct 29-31, 2015.
- 2) **Dhawan G** and Wildenhain J presented a paper entitled 'Drug Discovery from High-throughput Data to a Drug in Silico Model Using Machine Learning'. Annual Symposium on Frontiers in Biomedical Research-2015 (FBR-2015) Comprehending Genes @ work: From Structural Biology to Drug Discovery, Oct 29-31, 2015.
- 3) Aggarwal R, Kanojia A, Kumar H, Gautam, Kumar P and **Dhawan G** presented a paper entitled 'Green Synthesis and Antimicrobial Activity of Silver Nanoparticles'. Annual Symposium on Frontiers in Biomedical Research-2015 (FBR-2015) Comprehending Genes @ work: From Structural Biology to Drug Discovery, 29-31 Oct, 2015.
- 4) Malhotra N, Bhatia E, Mittal D, **Gupta S, Jain M** and **Dhawan G** presented a paper entitled 'Detection of Proteases Using Gold Nano Particle-based Optical Biosensor'. Annual Symposium on Frontiers in Biomedical Research-2015 (FBR-2015) Comprehending Genes @ work: From Structural Biology to Drug Discovery, 29-31 Oct, 2015.
- 5) Goel M, Chatterji T, Chakravarty D and **Dhawan G** presented a paper entitled 'Virtual Screening of Potential Inhibitors against Efflux Pumps of *Mycobacterium tuberculosis*'. TERI University Biotikos-2015, Jan, 19-20, 2015.
- 6) Bhatia E, Mittal D, Malhotra N, **Gupta S, Jain M** and **Dhawan G** presented a paper entitled 'Design and Development of Optical Biosensor for Protease

- Sensing'. Annual Science and Technical Festival, IIT Delhi, TRYST-2015, February 27- Mar 2, 2015.
- 7) **Arya D** presented a paper entitled 'Synthesis and Characterization of Substituted 4H-1,4-Benzothiazine-(Sulfones)'. National Seminar on 'Recent Trends in Chemical Sciences; Global Opportunities and Challenges'. Organized by the Department of Chemistry, Shri Govind Guru Government College, Banswara (Rajasthan) held on Jan 18-19, 2016.
  - 8) **Goel SK** presented a paper entitled 'Accounting, Reporting and Trends of Non Performing Assets (NPAs) of Scheduled Commercial Banks in India'. 38th All India Accounting Conference and International Seminar on Accounting Education and Research, University Business School, Punjab University, Chandigarh & Indian Accounting Association, Chandigarh Branch, Dec. 5-6, 2015.
  - 9) **Narang S**, Verma G presented a paper on 'Perception of Student Community on Digital India'. National Seminar on Make in India: Prospects and Challenges, Sri Guru Nanak Dev Khalsa College, University of Delhi, Mar 30, 2016.
  - 10) **Kaur S**, Kaur P and Singhania M presented a paper entitled 'Xiaomi: Success Story of a Chinese Startup Challenging Bigwigs of Smartphone Industry' in a national conference organized by Shaheed Bhagat Singh College on the theme 'Marketing in the 21<sup>st</sup> Century: Issues and Challenges' on Feb 5-6, 2016
  - 11) Das P, Solanki R and **Khanna M** presented a paper entitled 'Screening, Quantification and Purification of Extracellular Enzymes from Soil Actinomycetes. National Conference on 'Recent trends in Microbial Biotechnology', held at the Department of Microbiology, Osmania University, Hyderabad, Feb 26-28, 2015.
  - 12) Warikoo R and **Kumar S** presented a paper entitled 'Variations in the Larvicidal Potential of *Argemone mexicana* Extracts against an Indian Strain of Dengue Vector, *Aedes aegypti* L. (Diptera: Culicidae) Assayed with Extracts and Extracts/PBO Combinations'. *National Symposium on Vector Biology and Vector Management, Deshbandhu College, New Delhi, Feb 12, 2015.*
  - 13) Sharma A, **Kumar S** and Tripathi P presented a paper entitled 'Evaluation of the Leaves and Stems of *Achyranthes aspera* (Amaranthaceae) as the Potential Larvicides against an Indian Strain of Dengue Vector, *Aedes aegypti* L. (Diptera:

- Culicidae)'. National Symposium on Vector Biology and Vector Management, Deshbandhu College, New Delhi, Feb 12, 2015.
- 14) Shukla R K, **Kumar S** and Tripathi P presented a paper entitled '*Pseudomonas fluorescens*: A novel and Potential Control Agent of an Indian Strain of *Aedes aegypti* (Diptera: Culicidae)'. *National Symposium on Vector Biology and Vector Management*, Deshbandhu College, New Delhi, Feb 12, 2015.
  - 15) Singh A, Gulami I, Yadav A, Shandheep A, Vajpayee S, Kumari K, Chowdari J and **Kumar S** presented a paper entitled 'Comparing the N2 strain *C. elegans* with the Native Ones to Study Behavioral Modifications Due to Domestication'. *XXXIII Annual Conference of Indian Academy of Neurosciences, IAN-2015*, Punjab University, Chandigarh, Oct 31-Nov 2, 2015.
  - 16) Sharma A, **Kumar S** and Tripathi P presented a paper entitled 'Evaluation of the Random Amplified Polymorphic DNA (RAPD) Assay for the Detection of DNA Damage in *Aedes aegypti* Larvae (Diptera: Culicidae) Treated with Leaves and Stem Extracts of *Achyranthes aspera* L. (Amaranthaceae)'. *India International Science Festival, IIT Delhi*, Dec 4-8, 2015.
  - 17) Singh AP, Warikoo R, Mishra M and **Kumar S** presented a paper entitled 'Anti-mosquito Potential of Waste Fruit Peels against Indian Strains of *Aedes aegypti* L., *Culex quinquefasciatus* Say and *Anopheles stephensi* Liston'. *India International Science Festival, IIT Delhi*, Dec 4-8, 2015.

### Presentation/Participations in Conferences/Workshops by Research Scholars Enrolled in ANDC

- 1) **Payal Das** participated in a three day International Research Workshop on SPSS Essentials-Statistical Analysis Made Easy, organized by Research Center for Training & Development (RCTD), Jun 16-17, 2015.
- 2) **Payal Das** participated in a three day Instructional Workshop on Proteomics and Proteogenomics: Hands-on Protein Identification and Gene Discovery from Mass Spectrometry Data, organized by NNMCB Delhi Node and Acharya Narendra Dev College, Oct 10-12, 2015.

- 3) **Eniyan Kandasamy, Avni Sinha** participated in a workshop on Advanced Techniques in Protein Design and Engineering, organised by the Department of Biological Sciences, IISER Mohali from Mar 15 -19, 2016.
- 4) **Avni Sinha** attended a workshop on Bioinformatics and Molecular Modeling in Drug Design organised by Ambedkar Center for Biomedical Research, University of Delhi on Jan 21-23, 2016.
- 5) **Avni Sinha** attended a one day workshop on 'Foldscope' by Prof Manu Prakash from Stanford University, USA, organised by the Department of Biotechnology at Sri Venkateshwara College, University of Delhi on Dec 16, 2016.
- 6) **Sripoorna** completed ten days training in Protozoological techniques related to species identification of ciliates at Laboratory of Protozoology, Institute of Evolution and Marine Biodiversity, Ocean University of China, Qingdao, China from Oct 22- 31, 2015. The training period was funded by International Research Coordination Network for Biodiversity of Ciliates (IRCN-BC).
- 7) **Shyam Lal**, presented a poster on Spectroscopic analysis, molecular modeling and antimicrobial applications of Cull heteroleptic metal complex bearing curcumin and 2, 2' - bipyridine, in a 'National Conference on Interdisciplinary Approaches in Chemical Sciences – 2015' Organized by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi on Dec 16, 2015, page no. 67 (pp-144).
- 8) **Dhingra V**, (2015) presented a paper on An Investigating Gas Sensing Mechanism of Graphene Oxide Thin Films through Cross-Selectivity to Various Gases International Conference On Condensed Matter & Applied Physics ICC 2015 , Oct 30-31, Bikaner, Rajasthan, Page 928.

### GENE BANK SUBMISSIONS

- 1) Abraham, J. S., Somasundaram, S., Gupta, R., **Toteja, R.** and **Makhija, S.** (2015) Notohymena sp. SL1 18S rRNA gene, partial sequence. Acc no. KP336402.1.
- 2) Abraham, J. S., Somasundaram, S., Gupta, R., **Toteja, R.** and **Makhija, S.** (2015) Pseudourostyla cristata strain SL2 18S ribosomal RNA gene, partial sequence. Acc. No. KT731104.

- 3) Abraham, J. S., Somasundaram, S., Gupta, R., **Toteja, R.** and **Makhija, S.** (2015) *Gastrostyla* sp. Y2 18S ribosomal RNA gene, partial sequence. Acc. No. KT780432.
- 4) Somasundaram, S., Abraham, J. S., Gupta, R., **Makhija, S.** and **Toteja, R.** (2015) *Tetmemena* sp. Y1 18S rRNA gene, partial sequence. Acc no. KP336401.1.
- 5) Somasundaram, S., Abraham, J. S., Gupta, **R., Toteja, R.** and **Makhija, S.** (2015) *Tetmemena* sp. Y1 18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, internal transcribed spacer 2, complete sequence; 28S ribosomal gene, partial sequence. Acc. No. KT731103.

## Annexure II

### Staff Council Committees 2015-16

<p><b>Admissions Committee</b></p> <p><b>All Teachers-in-Charge</b> <b>Convenors:</b> Mr. Ravinder Kumar Sagar Dr. Saumya Saxena Dr. Rashmi Thukral</p> <p><b>Foreign Language</b> <b>Dr. Geetu Gambhir</b> <b>(Convenor)</b> Ms. Seema Gupta (Co-Convenor) Dr. Geetika Kalra</p> <p><b>Sports Quota</b> <b>Arts &amp; Culture Quota</b></p>	<p><b>Alumni Affairs Committee</b></p> <p><b>Dr. Gaurav Sharma</b> <b>(Convenor)</b> Ms. Sangeeta Relan (Co-Convenor) Ms. Anuradha Sarin Dr. Anju Agarwal Dr. Sharanjit Kaur Dr. Arijit Chowdhuri Dr. Urmi Bajpai Dr. Sarita Kumar Dr. Charu K. Gupta Dr. Manisha Jain Ms. Gauri Ghai Mr. Bineet Kumar Dr. Satendra Singh</p>	<p><b>Academic Events</b> <b>Management Committee</b> (Open Day, Orientation Day, Annual Day, AND Memorial Lecture )</p> <p><b>Dr. Seema Gupta</b> <b>(Convenor)</b> Dr. Manisha Jain Dr. Vandana Uberoi Dr. Gagan Dhawan Dr. Surinder Kaur Dr. Sweety Shrimali Mr. Rahul Dev Mr. Levion Georgeb</p>
<p><b>Committee for coordination with the Equal Opportunity Cell, University of Delhi</b></p> <p><b>Mr. Manoj Kumar Garg</b> <b>(Convenor)</b>  Dr. Rupali Pabreja Dr. Vikrant Kumar Dr. Jamaluddeen</p>	<p><b>Canteen Committee</b></p> <p><b>Mr. Vishal Dhingra</b> <b>(Convenor)</b> Dr. Rajesh Chaudhary (Co-convenor) Dr. Monica Mishra Ms. Anupama Ms. Poonam Chauhan Dr. Vinita Suyal Dr. Rama Kadamb</p>	<p><b>Cultural Events</b> <b>Management Committee</b> (Accenture, Freshers'/ Farewell Parties)</p> <p><b>Dr. Sadanand Prasad</b> <b>(Convenor)</b> Ms. Anupama Ms. Anuradha Sarin Dr. Rashmi Sharma Dr. Sona Pranav Kumar Mr. Ravinder Kumar Sagar Dr. Rajesh Chaudhary Dr. Subhash Kumar Dr. Dinesh Kumar Arya Ms. Anu Preveen Dr. Neeti Goel</p>

<p><b>College Development Committee</b></p> <p><b>Dr. Sanjeeta Rani (Convenor)</b> Dr. Dinesh Kr. Arya Dr. Chandra Kanta Samal</p>	<p><b>Career Counselling Cell</b></p> <p><b>Dr. Harita Ahuja (Convenor)</b> Dr. Urmi Bajpai Mr. Keshav Pratap Singh Dr. Rama Kadamb Mr. Bineet Kumar</p>	<p>Ms. Sangeeta Mokhria Ms. Priyanka Sharma Mr. Gurudutt Rao Ambedkar Mr. Brijendra Yadav Dr. Pragati Malik Mr. Hanuman Verma Dr. Neelgagan Singh Mr. Sanjay Kumar Dr. Shrankhla</p>
<p><b>Editorial I – Magazine + Annual Report</b></p> <p><b>Dr. Manisha Jain (Convenor)</b> Dr. Rashmi Sharma Dr. Seema Makhija Dr. Meenu Mohil Dr. Abhishek Kumar Mehta Dr. Joita Dhar Rakshit Dr. Satendra Singh Dr. Jamaluddeen</p>	<p><b>Debating Society</b></p> <p><b>Mr. Manoj Garg (Convenor)</b> Dr. Joita Dhar Rakshit</p>	<p><b>SPICMACAY</b> Dr. Mamta Bhatia Dr. Subhash Kumar Dr. Manisha Verma Dr. Archana Pandey Ms. Sadhna Gupta</p>
<p><b>Editorial II – Prospectus + Other printing work</b></p> <p><b>Dr. Subhash Kumar (Convenor)</b> Dr. Geetika Kalra Dr. Sona Pranav Kumar Dr. Ravi Toteja Dr. Abhishek Kumar Mehta Dr. Joita Dhar Rakshit</p>	<p><b>Environment Society</b></p> <p><b>Dr. Vandana Uberoi (Convenor)</b> Dr. Sunita Hooda Dr. Saumya Saxena Dr. Manisha Jain Dr. Geetika Kalra Dr. Meenu Mohil Mr. Levion George</p>	<p><b>Fellowship Programmes and Awards Committee</b></p> <p><b>Dr. Anupama Shukla (Convenor)</b> (on leave) Dr. Anita Narang Dr. Manisha Verma Ms. Sunita Jetly Dr. Priti Goyal (Co-convenor) Dr. Monisha Khanna Dr. Vinita Suyal Dr. Yash Mangla Mr. Manoj Kumar Singh Mr. Shantanu Mandal Dr. Anita Thakur Dr. Sumit Sahni</p>
	<p><b>Examination Committee</b></p> <p><b>Dr. Charu Khosla Gupta (Convenor)</b> Dr. Roopesh Tehri Ms. Anuradha Sarin Dr. Urmi Bajpai Dr. Pooja Bhagat Dr. Sunita Narang Dr. Ravi Toteja Dr. Arijit Chowdhuri</p>	

<p><b>Garden Committee</b></p> <p><b>Dr. Rashmi Sharma (Convenor)</b>            Dr. Mamta Bhatia            Dr. Shallu Sachdeva            Ms. Poonam Chauhan            Dr. Vibha Gaur</p>	<p><b>I.T. Committee – Website Distribution/Maintenance help of laptops.</b></p> <p><b>Dr. Pankaj Khanna (Convenor)</b>            Dr. Ravneet Kaur            Dr. Seema Makhija            Ms. Anu Preveen            Dr. Monisha Khanna            Dr. Harita Ahuja            Dr. Aparna Sharma            Dr. V. Bhasker Raj            Ms. Priyanka Sharma</p>	<p><b>Internal Assessment Monitoring Committee</b></p> <p>Principal            Secretary, Staff Council – Dr. Vandana Uberoi            Vice-Principal/Bursar            Teachers’ Representatives:            1. Dr. Saumya Saxena            2. Dr. Pooja Bhagat</p>
<p><b>Library Committee</b></p> <p>Bursar  <b>Dr. Ravi Toteja (Convenor)</b>            Ms. Sadhna Gupta            Dr. Harita Ahuja            Mr. Pawan Kumar            Dr. Neeti Misra</p>	<p><b>Provident Fund Committee</b></p> <p>Principal            Bursar            Teachers’ Nominee: Dr. Roopesh Tehri</p>	<p><b>SAKSHAM (Formerly SAF Committee)</b></p> <p>Bursar            Convenor, Social Outreach Programme            Convenor, NSS Programme            Convenor, Awards and Fellowship Programme            Convenor-Proctorial Committee</p>
<p><b>Proctorial Committee</b></p> <p><b>Ms. Sadhna Gupta (Convenor)</b>            Mr. Pawan Kumar (Co-convenor)            Dr. Dinesh Kr. Arya            Mr. Gaurav Sharma            Dr. Monica Mishra            Ms. Surinder Kaur            Ms. Sunita Jetly            Dr. Ravneet Kaur</p>	<p><b>Remedial Coaching</b></p> <p><b>Dr. Sarita Kumar (Convenor)</b>            Dr. Rashmi Thukral            Dr. Sunita Hooda            Dr. Ravneet Kaur            Dr. Vibha Gaur</p>	<p><b>Social Outreach Programmes Committee (NSS)</b></p> <p><b>Dr. Anita Narang (Convenor)</b>            Mr. Vishal Dhingra            Ms. Sunita Jetley            Dr. Pankaj Khanna            Dr. Shalu Mahajant            Dr. Sarita Aggarwal            Dr. Ranjeet Singh            Dr. Rohtash Singh            Dr. Vinita Suyal</p>



<p>Dr. Aparna Sharma Mr. Gurudutt Rao Dr. Rohtash Singh Ms. Vinita Suyal Mr. Jitender Goel Dr. Pragati Malik Dr. Joita Dhar Rakshit</p>		<p>Dr. Yash Mangla Mr. Manoj Kumar Singh Mr. Shantanu Mandal Dr. Anita Thakur Dr. Sumit Sahni</p>
<p><b>Sports Committee</b></p> <p><b>Dr. Udaibir Singh (Convenor)</b> Dr. Laxmi Narain Mr. Ravinder Kumar Sagar Dr. Chandra Kanta Samal Dr. Neeti Goel Ms. Gauri Ghai Ms. Anita Kumari Mr. Brijendra Yadav Mr. Hanuman Verma Dr. Rama Kadamb Dr. Neelgagan Singh Mr. Sanjay Kumar Dr. Shrankhla Dr. Satyapal Singh</p>	<p><b>Women Students' Affairs Committee - Sashakt</b></p> <p><b>Dr. Anju Agarwal (Convenor – on leave)</b> <b>Dr. Sanjeeta Rani (Convenor – offg.)</b> Dr. Harita Ahuja Dr. Neeti Misra Mr. Gaurav Sharma Dr. Ranjeet Singh Ms. Rupali Pabreja Ms. Sunita Jetly Dr. Sweety Shrimali Ms. Anita Kumari Mr. Bineet Kumar</p>	<p><b>Workload and Time Table Committee</b></p> <p><b>Dr. Laxmi Narain (Convenor)</b> Dr. Udaibir Singh (Co-Convenor) Dr. Sharanjit Kaur Dr. Shallu Sachdeva All Teachers-in-Charge</p>
<p><b>Theatre Society</b></p> <p><b>Dr. Sandeep Kumar Goel (Convenor)</b> Dr. Geetu Gambhir Dr. Sarita Aggarwal Mr. Jitender Goel Mr. Rahul Dev</p>		

### CORRECTIONS IN ANNUAL REPORT 2015

The Editorial Committee apologises for the following errors reported in the Annual Report 2015

Error 1: In Annexure: Research Publications by Faculty and Students, Page no: 67, point 19

**Narang A (2014) A Novel OER Initiative Under University of Delhi's New Four Year Undergraduate Programme: An Investigation into the Pedagogical Impact**–Proc. of OCWC Global 2014: Open Education for a Multicultural World held at Ljubljana, SLOVENIA on April 23–25.

Correction:

**Chowdhuri A & Gupta C K (2014) A Novel OER Initiative Under University of Delhi's New Four Year Undergraduate Programme: An Investigation into the Pedagogical Impact**–Proc. of OCWC Global 2014:Open Education for a Multicultural World held at Ljubljana, SLOVENIA on April 23–25.

Correction 2: The following two publications were missing in the list of Research Publications by Faculty and Students (Peer Reviewed Journals).

1. **Singh S, Bajpai U, Lynn A.M. (2014).** Structure Based Virtual Screening to Identify Inhibitors against MurE Enzyme of Mycobacterium Tuberculosis Using AutoDock Vina. *Bioinformation.* 10(11) 697-702.
2. Eniyan K and **Bajpai U (2015).** Cloning, Expression, Purification and Bioinformatic Analysis of 2-Methylcitrate Synthase from Mycobacterium tuberculosis. *Asian Pac J Trop Med* (8) 19-23.

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**This Annual Report has been compiled by the Editorial Committee members:**

**Dr. Manisha Jain (Convenor),** Dr. Seema Makhija, Dr. Meenu Mohil, Dr. Rashmi Sharma, Dr. Abhishek K. Mehta, Dr. Joita Dhar Rakshit , Dr. Satendra Singh and Dr. Jamaluddeen



PROPOSED FOR  
FOR INDIAN  
CANCER SOCIETY  
(DHARMSHALA)

D.C.P.  
OFFICE

A.C.P.

R.H.O.

ESS.

M.C.D. ZONAL OFFICE

FIRE AREA

HOCKEY FIELD  
(95.00 X 66.00)

<p>CLIENT:- GOVERNMENT OF NCT OF DELHI (THROUGH PUBLIC WORKS DEPARTMENT)</p>	<p>JOB PROPOSAL FOR CONSTRUCTION OF ACHARYA NARENDRA DEV COLLEGE AT SECTOR -5, ROHINI NEW DELHI</p>	<p>ARCHITECTS: BEHAL JOSHI AND ASSOCIATES ARCHITECTS AND INTERIOR DESIGNERS P-9, HAUZ KHAS ENCLAVE, NEW DELHI</p>	<p>DRAWING TITLE: LAYOUT PLAN SCALE - 1:400</p> <p>DRG.NO. L-101</p> <p style="text-align: right;">N</p>
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Layout Plan of New ANDC Campus



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