



# Annual Report 2015



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# 1. Introduction

“जीत की खातिर बस जूनून चाहिए,  
जिसमे उबाल हो ऐसा खून चाहिए,  
ये आसमान भी आएगा ज़मीन पर,  
बस इरादों में जीत की गूँज चाहिए”।

As I stand here and present this Annual Report, I feel great joy in sharing our achievements of yet another monumental year for Acharya Narendra Dev College. The spirit of competition and the quest for success at ANDC inspired both students and faculty to excel in their performance.

One of the biggest strengths of the College is our belief in the collective, in team work and in collaboration which helps bring out the best in each of us, while ensuring that together we achieve much more than possible alone. The approach we take to education is interwoven around the twin philosophies viz., *Learning beyond the classroom...* and *Preparing for the future!*

The College is today recognised due to its astounding achievements and though very young, has been listed, since 2010, among the top 10 Science colleges in Delhi (India Today Survey). At all India level we have been ranked 22nd last year.

Our efforts to make a difference were applauded in the form of **AWARDS FOR GOOD PRACTICES** among all colleges of the University of Delhi at the mega multidimensional event of the University of Delhi - the **Antardhvani** in the years 2013 - 2015. After winning third Prize two years running (2013 and 2014) (from amongst 63 DU colleges), AND College was awarded the First prize (and Rs. 10 Lakhs) in 2015. We are the only College to win a prize in all three editions of the event.

The kind of activities that set us apart from all DU colleges (and in the country) and lead to our recognition include:

1. **Research by the faculty and by students (at the UG level)** - Such research opportunities produce tangible outputs in the form of Ph.D. students and research papers by faculty and by students and conferences in India and abroad (even UG students) ..... leading to many students pursuing a career in science/academics.
2. **Entrepreneurship** - Innovation and Entrepreneurship Development Centre (DST, GOI) and 'Business Incubator' (MSME, GOI) are unique to our college in DU. The Entrepreneurship Lab and ANDY-the Campus Company set up

here provide space for experiential learning to young entrepreneurs in the college and outside. This is towards creating 'job generators rather than job-seekers'.

3. **Social Outreach** - Our thrust on providing wide ranging activities to the under-privileged finds expression through special college-schemes like ELITE, EXPLORE and SAKSHAM as well as in our unique (and noble) adoption of 10 Thalassemic girls (from lower economic backgrounds) for their blood requirements all through the year (through Red Cross).
4. **Open in Education** - We are the first and only college to adopt FOSS and OER as a way of life in college. We have been recognised in India and world-wide for our commitment – including the OPAL Awards for quality and innovation through open educational practices in 2011 (by a consortium including UNESCO, ICDE, EFQUEL and several European universities [http://www.icde.org/Open+educational+practices+recognized+through+OPAL+Awards.b7C\\_wJnG21.ips](http://www.icde.org/Open+educational+practices+recognized+through+OPAL+Awards.b7C_wJnG21.ips)), our recognition as the official **Indian Affiliate of Creative Commons** (<https://wiki.creativecommons.org/India>), the Principal's role as Advisor on a major International project on 'Research and OER for Development (ROER4D) in the global south (<http://roer4d.org/advisory-panel>).
5. **Theatre in Education** - We believe theatre can contribute a lot towards personality development and in sensitizing students; our ECPDT course and Annual Theatre production are instrumental in 'confidence-building' among students.
6. **And more.....**

The college faculty members have set high standards for the students to follow. Dr. Urmi Bajpai was selected for Meritorious Teachers Award by Govt. of NCT of Delhi and Dr. Vikrant Kumar was awarded the UGC Raman Fellowship for post-doctoral research, at San Diego.

Ms Priyanka Dasgupta of B.Sc. (H) Zoology has made the College proud – she was awarded the POSCO Asia fellowship through the POSCO TJ Park Foundation (Korea)-University of Delhi collaboration for her outstanding scholastic achievement – she topped in her Part I University examinations in 2014 among students of all colleges. Details of all the academic prize-winners are listed in this report. The undergraduate research, which we are very proud of at ANDC, has been authenticated by publication of two articles from the college in the inaugural issue of the DU Journal of Undergraduate Research and Innovation.



Our students have not only shown their mettle in academics but also opened their hearts for the cause of society. Our association with various NGO's and the contribution of students to the NGO Goonj is not new but now the students have put their blood into this service. The NSS team has adopted ten Thalassemic girls from the economically weaker class and has pledged to fulfill their blood requirements for the year. They have also actively spread awareness about Thalassemia and the need of genetic counseling to control it. Their efforts were very visible during Antardhvani 2015.

The year witnessed some more new beginnings. The college received a donation for a new scholarship – Pushpa Paul Memorial Scholarship (2) for girl-students from the lower economic strata. The college participated in the National Youth Parliament Competition for the first time and the students were able to impress the judges, including our MP Mr. Ramesh Bidhuri.

Another landmark (literally) achievement has been the allotment of land to our college for construction of the New College Building. The college has been allotted about 8 acres land at Sector 5, Rohini for the new construction. The Bhoomi Pujan of the new site was done on March 25, 2014.

Some more achievements of the year 2014-15 are presented in the following sections.

## 2. Research

Being primarily a Science college, ANDC has always considered research as an important supplement to the classroom education benefitting both the educator and the learner. Research helps students not only learn and understand 'science' but to experience and live Science. Students don't simply graduate from ANDC they graduate with a clarity of thought.

ANDC's philosophy of going "beyond the classroom..." to prepare the students for future has set the institution on an endless journey of providing plenty of opportunities to its students. The volume and scale of genuine and exciting research activities carried out by its faculty members and students have resulted in a large number of research publications by both faculty and students (List of publications in annexure).

### 2.1 RESEARCH INITIATIVES AT UG LEVEL

#### 2.1.1 Summer Projects and Training Workshops for Students

ELITE – 'Education in a Lively Innovative Training Environment' Summer Fellowship: In the summer of 2014, 54 students took up projects of two months duration under this scheme. Each student was given a fellowship of Rs. 1000/- p.m. for a maximum duration of two months.

S.No.	Title of the Project	Students	Mentors	Department
1	Predicting the Habitat of Bacteria Using Machine Learning Approach.	Divyansh Mittal	Dr. Gagan Dhawan	Biomedical Science
2	Virtual Screening of Potential Inhibitors Against Efflux Pumps of <i>Mycobacterium tuberculosis</i>	Manisha Goel Tanaya Chatterjee Debanjana Chakravorty	Dr. Gagan Dhawan	Biomedical Science
3	Study of Various Biophysical Parameters on Heterogenous DNA Sequences	Rinki Sisodia Shruti Sharma Deepak Chauhan	Dr. Gagan Dhawan, Dr. Monika	Biomedical Science
4	To Study Various Techniques for Protein Isolation from Leaves of <i>Ricinus communis L.</i> and Interpretation of Results	Neeraj Kumar Eti Khatri Bharati Deshwal	Dr. Gagan Dhawan, Dr. Satendra Singh	Biomedical Science

S.No.	Title of the Project	Students	Mentors	Department
5	Understanding Novel Proteins using Automated Proteogenomic Tool : GenoSuite	Praver Gupta Shruti Gupta	Dr. Gagan Dhawan, Dr. Debasis Dash	Biomedical Science
6	Kinetic Studies of Acid Phosphatases in the Sprouted Seedlings of <i>Cicer arietinum</i>	Asgar Ansari	Dr. Rajesh Chaudhary, Dr. Monika	Biomedical Science
7	Studies on Acid Phosphatase Activity in the Sprouted Seeds of <i>Vigna mungo</i>	Sristi	Dr. Rajesh Chaudhary, Dr. Monika	Biomedical Science
8	Studies on Acid Phosphatase Activity in the Sprouted Seeds of <i>Lobia (Vigna unguiculata)</i>	Arun Nandwani Yogesh Kumar	Dr. Rajesh Chaudhary, Dr. Monika	Biomedical Science
9	Studies on Acid Phosphatase Activity in the Sprouted Seeds of <i>Moong (Vigna radiata)</i>	Mansi Jatwani	Dr. Rajesh Chaudhary, Dr. Monika	Biomedical Science
10	Open Medical Genetic Diagnostics (OMG-D)	Anaya Bhav Abrol	Dr. Urmi Bajpai, Dr. Abhishek K. Mehta	Biomedical Science
11	An Integrative Biology Approach in Deciphering the Genotype – Phenotype Correlation for Human Complex Disorders by Crowdomics	Akanksha Kanojia Amarjot Kaur Sakshi Sharma Tanaya Chatterjee Sumaira Rizvi Nidhi Goyal Yashika Bhatia Ritwika Biswas	Dr. Urmi Bajpai, Dr. Abhishek K. Mehta	Biomedical Science & Zoology

S.No.	Title of the Project	Students	Mentors	Department
12	A Study on Some Aspects of Conservation Biology	Abhishek Singh Ayushi Bedi Bishal Das Pragya Yagnik Shweta Singh	Dr. Charu K. Gupta, Dr. Yash Mangla	Botany
13	Synthesis and Characterization of Ion Exchange Resin by Cellulose with Sulphanilic Acid	Sonu Kumar	Dr. Sunita Hooda, Dr. Madhubala Raigar	Chemistry
14	Synthesis and Characterization of Ion Exchange Resin by Guar gum with Sulphanilic Acid	Atul Sharma Raghuvver Verma	Dr. Sunita Hooda, Dr. Madhubala Raigar	Chemistry
15	Development of Bioactive Membrane Based Sensors for Determination of Pesticide Residues	Neelam Kumari Premlata Rai Asha	Dr. Geetu Gambhir	Chemistry
16	Development of Bioactive Membrane Based Sensors for Determination of Heavy Metals and their Salts as Pesticides	Aparna Jha Parwej Alam	Dr. Geetu Gambhir	Chemistry
17	On Line Application for Registration of Concurrent Course Option for Physical Sciences and Building Basic Android Application	Ankit Pant Ipshita Mishra Nidhi Singh Parag Jain Shubhankar Ganguli	Dr. Sharanjit Kaur, Ms. Dhriti Khanna	Computer Science
18	Modelling and Simulation of CROWD	Shreyak Chakraborty Salil Batabyal	Dr. Sarita Agarwal	Mathematics



S.No.	Title of the Project	Students	Mentors	Department
19	A Study of the Fluctuations in the Stock Market	Neha Chandra	Dr. Sarita Agarwal	Mathematics
20	Laboratory Evaluation of the Impact of <i>Calotropis procera</i> Leaf Extracts on the Cidal, Morphological and Behavioural Response of an Indian Stain of Dengue vector, <i>Aedes aegypti</i> L. (Diptera: Culicidae)	Mriganki Singh Sushma Kumari Rahul Attri	Dr. Sarita Kumar	Zoology
21	Measuring the Size of Quantum Dots using a Low Cost CCD	Priyanka Kachru Ananya Paul Shatakshi Singh	Dr. Amit Garg	Electronics

### 2.1.2. Student-Projects through the Innovation & Entrepreneurship Development Centre (IEDC) 2013-2014

These are year-long innovative research projects under the guidance of a faculty (mentor).

S.No.	Project Title	Students	Mentor (s)	Department
1	Design and Development of Gold Nanoparticle based Optical Biosensor for Protease Sensing	Divyansh Mittal Eshant Bhatia Nitish Malhotra	Dr. Seema Gupta Dr. Manisha Jain Dr. Gagan Dhawan	Chemistry & Biomedical Science
2	Development of Compact Water Purifier System	Haripriya Sharma Sagarika Abhishek Tiwari	Dr. Charu K. Gupta Dr. Arijit Chowdhuri	Botany & Physics
3	Development of Charcoal Based Chelating Resin for the Waste Water Treatment	Arun Kumar Vinod Singh Shantanu	Dr. Sunita Hooda Dr. Madhu Bala Raigar	Chemistry

S.No.	Project Title	Students	Mentor (s)	Department
4	Sensors based Notification System for the Visually Handicapped	Vijay Giri Anuj Gupta Ankit Pant	Dr. Vibha Gaur, Dr. Ravneet Kaur	Computer Science & Electronics
5	Generating Biogas and Organic Fertilizer Using Solid Waste From College and Surrounding Disposal Sites.	Himanshu Saini Nidhi Varshney Vivek Singh	Dr. Saumya Saxena Mr. Pawan Kumar	Botany & Physics
6	A Low Cost Microbio-test for Detecting Insecticides by Exploring Behavioral and Ecotoxicological Response of Fresh Water Ciliates.	Manu Shankar Vikas Ahlawat Ashish Choudhary	Dr. Ravi Toteja Dr. Seema Makhija	Zoology

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

**Mentor: Dr. Amit Garg**

ESRL was set up in ANDC last year, under the e-Yantra Lab Setup Initiative (eLSI) of IIT, Mumbai, as part of the e-Yantra Project funded by MHRD, Govt. of India. The aim of the laboratory was to impart theoretical and programming knowledge as well as hands on training to teachers. The significance of the research work associated with this laboratory has gone much beyond the curriculum boundaries. Three teams of students have been selected for the National Level Robotics Competition eYRC (e-Yantra Robotics Competition) 2014, a project sponsored by MHRD through the National Mission on Education through ICT (NMEICT) organized by IIT, Mumbai. (The list of students is included in Students' Achievements, in section 4.1.4.1.)

## 2.2. RESEARCH PROJECTS

### 2.2.1 Extramurally Funded Projects

#### 2.2.1.1. Projects under Progress /Sanctioned in 2014-15

Investigators	Title of the Project	Funding Agency	Rs.
Dr. Urmi Bajpai (2013 - 2015)	Mtb Mur Pathway Enzymes: Potential Candidates for Multi-Target Therapy	CSIR – OSDD	(Lakhs)
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	30.38
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	9.42
Dr. Monisha Khanna (2012 - 2015)	Extraction and Activity Analyses of Extracellular Enzymes from Soil Actinomycetes	UGC	28.0
Dr. Subhash Kumar & Dr. Sukanta Deb (2014-2017)	Analysis of Light Curves of Variable Stars	SERC, DST	9.72
Dr. Vibha Gaur & Mr. Sanjay Vohra (2010-2015)	Innovation and Entrepreneurship Development Centre (IEDC) – it provides funds for 5 projects each year.	DST	6.60
Dr. Arijit Chowdhury (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)	5.00

#### 2.2.1.2. Projects Completed in 2014-15

Investigators	Title of the Project	Funding Agency	Rs. (Lakhs)
Dr. Vikrant Kumar (2010 – 2013; extended till March 2014)	Metal Complexes as Anticancer Agents: Synthesis, Characterization and their Tumorigenesis Evaluation	DBT	16.11

### 2.2.2. Innovation Projects Sanctioned by University of Delhi in 2013-14

Title of the Project	Faculty	Mentors	Funding Rs. (Lakhs)
Mobile Healthcare: The Future of Health Management in India – A Feasibility Study	Dr. Urmi Bajpai Dr. Sarita Kumar Mr. Vishal Dhingra	Mr. Ananda Sen Gupta, Managing Director, TrackMyBeat Healthcare India Pvt. Limited	5.0
Development of Low Cost Computer Controlled Science Laboratory Using Sensors and Open Source Hardware and Software Tools	Dr. Amit Garg Dr. Roopesh Tehri Dr. Chandra Kant Samal	Mr. Sunil Piplani, Industry Consultant and Proprietor, Excel Technologies, NOIDA	6.0
Astronomy Using Archival Data	Dr. Subhash Kumar Dr. Sharanjit Kaur Dr. Sukanta De	Professor H. P. Singh, Department of Physics & Astrophysics, University of Delhi	4.5
Artificial Olfaction Using E-Nose – Mimicking Human Nose for Gas Sensing Applications	Dr. Arijit Chowdhuri Dr. Charu K. Gupta Dr. Sunita Narang	Dr. S. P. Singh, Scientist, National Physical Laboratory, New Delhi	5.0

## 2.3. RESEARCH SUPERVISION

### 2.3.1. Ph.D. Students Enrolled Under the Supervision of ANDC Faculty

Supervisor	Ph. D./M.Tech. Student	Thesis Title and Date of Registration
Dr. Monisha Khanna	Payal Das	'Exploring Useful Bacteria from Soil for Production Of Secondary Metabolites' (Registered in March 2013)
Dr. Sarita Kumar	Monika Mishra	'Behavioural Implications of Host-Parasite Interactions in <i>Helicoverpa armigera</i> '. (Registered in October 2011)



Supervisor	Ph. D./M.Tech. Student	Thesis Title and Date of Registration
Dr. Urmi Bajpai	Eniyan Kanadasamy	'New Drugs Targets For <i>Mycobacterium tuberculosis</i> ' (Registered in December 2011)
Dr. Sunita Hooda	Shyam Lal	'Synthesis, Characterization, Kinetics and Biological Application of some Metal Complexes.' (Registered in October 2012)
Dr. Amit Garg	Vishal Dhingra	'Growth and Characterization of Graphene Oxide Loaded with Nano Crystalline ZnO Clusters for Gas Sensing Applications' (Registered in December 2014)
	Shani Kumar	'Growth and Characterization of a Composite System based on Reduced Graphene Oxide for Water Purification Application' (Registered in December 2014)
Dr. Udaibir Singh	Jyoti Kashyap	'Study and Analysis of Structures of <i>Plasmonic Solar Cells</i> . (Registered in December 2014)
Dr. Gagan Dhawan	Pallawi Kumari	M.Tech. Dissertation project entitled 'Functional Characterization of Hypothetical Proteins of <i>Plasmodium falciparum</i> ' (July 2014 - May 15)

### 2.3.2. Ph.D. Awarded under the Supervision of ANDC Faculty in 2014-15

Supervisor	Ph.D Awardee	Thesis Title and Award date
Dr. Sarita Kumar	Ms. Radhika Warikoo	'Studies on the Efficacy of Mexican Prickly Poppy, <i>Argemone mexicana</i> (Papaveraceae) as the Potential Control Agent of an Indian Strain of Dengue vector, <i>Aedes aegypti</i> L. (Diptera: Culicidae)'. (Ph.D. awarded in January 2015)

## 2.4. STATE-OF-THE-ART RESEARCH INFRASTRUCTURE AVAILABLE

To facilitate research in the college by faculty and students, the college has over years, procured state-of-the-art scientific equipment required for quality research.

These are:

- Buchy's Rotary Evaporator
- 4 - Channel Digital Storage Oscilloscopes (DSO)
- CO<sub>2</sub> Incubator
- Computer Interfaced Dedicated Gas Sensing Test Rig
- Conductivity Meters
- Digital Viscometer
- DOT-BLOT System
- Flame Photometers
- Hot SS Air Sterilizer
- Deep Freezers (- 20 °C and – 80 oC)
- Ice Flaking Machines
- Laminar Flow Hoods (Horizontal)
- Lyophilizer
- Microplate Reader (ELISA)
- Microscopes – Fluorescence & Phase Contrast
- Millipore Water Filter
- Mini-gel Documentation System
- Orbital Shaking Incubators
- PCR
- Gradient PCR
- pH Meters
- Polarimeters
- Potentiometers
- Refrigerated Centrifuges
- Spirometers
- Sonicators
- Tetra-cell Vertical gel electrophoresis system
- Ultrasonic Processors
- UV-VIS Spectrophotometers
- UV-Trans-Illuminators
- Vertical Autoclaves
- Water Bath Shakers
- Western Blot Apparatus with Power Packs
- Wide range of Sensors (Vernier, Figaro)

### 3. Affiliate Of National And International Organisations

#### 3.1. CREATIVE COMMONS (CC)

With Dr. Savithri Singh's continued efforts to strengthen and enhance teaching-learning process through promotion and development of Open Educational Resources (OERs), Acharya Narendra Dev College was selected to become an Affiliate of the Creative Commons (CC) in India.

#### 3.2. UNIVERSITY OF DELHI AT ANDC SPIE STUDENT CHAPTER

**Faculty Advisor: Dr. Amit Garg**

The SPIE Student Chapter at ANDC was amongst the few selected globally for the Optics Education Outreach Programme and was awarded a grant of USD 4000 by SPIE, USA. This year, the outreach programme had participation from eleven government and eleven public schools of Delhi. The programme was conducted in two stages spanning 4 months. During Stage I, workshops demonstrating various optics concepts and experiments were organized in the selected schools by the students of SPIE. At Stage II, Optics based model competition, **OPTICS FAIR**, was conducted at Junior (class VI-X) and Senior Levels (Class XI-XII) for the schools on January 31, 2015. Each participating school was given a grant of Rs. 2000/- to facilitate their efforts to make and exhibit Optics-based models. Three cash prizes were awarded in each category: First Rs. 3000/-, second Rs. 2000/- and third Rs. 1000/-. All the participating schools were presented with an **Optics Kit** worth Rs. 3300/- during the Fair. These kits were conceived and designed by the SPIE Chapter members under the mentorship of the Faculty Advisor keeping in perspective the practical requirements of class XII CBSE curriculum.

Birla Vidya Niketan - Indian Association of Physics Teachers (IAPT) Anveshika in coordination with the University of Delhi at ANDC SPIE Student Chapter organized Screening and Prelims for the College Level (B.Sc./M.Sc.) National Experimental Skill Test (NEST) 2014. Seven colleges of the University of Delhi with more than 50 students participated in this test.

#### 3.3. NNMCB-DELHI NODE @ ANDC

**Mentor: Dr. Gagan Dhawan**

National Network of Mathematical and Computational Biology (NNMCB) funded



by Science and Engineering Research Board, Government of India provides hands-on training in mathematical and computational biology to both undergraduate/post graduate students through organizing national and international visitors programs and workshops. To promote research, it hosts student-interns (Bachelors (3rd or 4th year) and Masters Students in Science and Engineering) with a generous fellowship (fellowship amount of Rs. 10,000 per month) besides accommodation and travel support to outstation students. In addition it promotes research activities all over India. This network has seven nodes spread across India: Bangalore (principal node), Chennai, Delhi, Kanpur, Kolkata, Mohali and Pune. Dr. Gagan Dhawan has been recognized as a Mentor for this programme at the Delhi Node. Modern training in the biological sciences requires education in the acquisition, analysis and interpretation of a huge amount of data generated due to various high throughput techniques. Very few workshops presently exist to provide this education. To address this deficit and train students in this new field of genomics, ANDC in association with NNMCB-Delhi Node organized a three day Instructional Workshop on Gene Expression Analysis: Hands-on using Microarray and Next Generation Sequencing Data from March 7-9, 2015 which was supported by Science and Engineering Research Board, Government of India. Out of 130 applications received, 71 were shortlisted for participation. The participants included 23 doctoral (Ph.D) students, 14 postgraduate (M.Sc./ M.Tech.) students and 34 undergraduate (B.Sc./ B.Tech.) students from various institutions. The resource persons of the workshop were Dr. Debasis Dash, Dr. S. Ramachandran, Mr. Pramod Gautam and Mr. Anupam Mondal from CSIR-IGIB, Dr. Uma Dhawan from BCAS, DU and Dr. Gagan Dhawan from ANDC, DU. The Organising Committee of the workshop included 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 AID

#### 4.1.1. Merit Positions in the University of Delhi (2013-2014)

Name of the Student	Course	Position
Priyanka Dasgupta	B.Sc. (H) Zoology I yr	I
Ankit Pant	B. Tech. Comp. Sc. I yr	II
Aridni Shah	B.Sc. (H) Biomed. Sc. III yr	III
Debanjana Chakravarty	B.Sc. (H) Biomed. Sc. III yr (For all three years)	III

#### 4.1.2 Merit Positions in the University of Delhi South Campus (UDSC) (2013-14)

Name of the Student	Course	Position
Bhawna	B.Sc. Phy. Sc. II yr	I
Rohit Verma	B.Sc. Phy. Sc. II yr	II
Pooja Rawat	B.Sc. (H) Chemistry II yr	II
Wincy K Kishore	B.Sc. (H) Botany III yr	III

#### 4.1.3 Scholarships and Awards

- i) **SIFY Technologies Ltd. Indian Oil Educational Scholarship** of Rs. 36,000/- Shivam Mishra of B.Tech. Electronics, for both I yr and II yr.
- ii) **Faculty of Science, University of Delhi (2015)** awarded Rs. 800/- Priyanka Das Gupta of B.Sc.(H) Zoo II yr.
- iii) **Sh. Sultan Chand Endowment Scholarship (2015)** of Rs 3500/- Priya Kumari of B.Com.(H) III yr.
- iii) **Dr. (Ms.) Usha Aggarwal Tejaswini Scholarship for B.Com. (H) (2014-2015)** Laxmi II yr (Rs. 3350/-), Kanika Bansal II yr (Rs. 3350/-) and Mansi Lamba III yr (Rs. 3600/-).
- iv) **D.C. Arora Scholarship (2015)** of Rs 6000/- each:

*Needy Category:*

1. Balbeer Singh B.Sc. (H) Mathematics I yr
2. Neha Kumari B.Sc. (H) Chemistry II yr

*Meritorious Category:*

1. Salil Batabyal B.Sc. (H) Physics II yr
2. Pooja Rawat B.Sc. (H) Chemistry III yr

v) **POSCO Asia Scholarship 2014-15:**

Priyanka Dasgupta of B.Sc. (H) Zoology II yr has been awarded a Certificate and Rs. 31, 009/- by Delhi University-POSCO TJ Park Foundation (Korea) in 'Recognition of outstanding scholastic achievement and dedication to knowledge'. It was awarded to her for getting first position in all the colleges of DU in the University examinations. The award has been instituted this year based on DU-Korea collaboration.

vi) **Pushpa Paul Memorial Scholarship (2014)** of Rs. 15000/-

1. Ms. Geetika Arora B.Sc. (H) Zoology III yr
2. Ms. Sucheta Bist B.Com (H) I yr

vii) **Student Aid for Knowledge, Success, Honour and Motivation (SAKSHAM)**

ANDC's complete focus is on its students, whether it is the quality of education provided in the classrooms or whether it is supporting a student financially to let him/her continue his/her studies. The college offers a helping hand, to needy and deserving students, in the form of financial aid through SAKSHAM. This scheme gets donations from teachers, non-teaching staff and some 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. Rs. 800/- per month stipend for ten months (revised from Rs. 600/- paid last year)
3. Book Bank Aid
4. Stationery + Photostat up to Rs. 3000/- for the whole academic year

All the students who have been recommended for SAKSHAM in any form are eligible to get book bank facility up to 05 books per semester. This year the following students were supported in one or more of the above categories:

**April 2014**

Name	Course	Name	Course
Tejmani Kumar	B.Sc. (H) Phy Sem – II	Neha Rani	B.Sc. (H) Comp. Sc. Sem - IV
Munendra Singh	B.Sc. (H) Phy Sem – II	Monika Bansal	B.Sc. (H) Comp. Sc. Sem - VI
Anshu Sharma	B.Sc.(H) Maths Sem – II	Hemant Nath Goswami	B.Sc. (H) Biomed. Sc. Sem - IV

Name	Course	Name	Course
Sagar Rana	B.Com (H) Sem – II	Abhishek Srivastava	B.Sc. Life Sc. Sem - VI
Manoj Kumar	B.Sc. (H) Bot Sem – II	Nandini Sahani	B.Sc. (H) Zoo Sem - II
Geetika Arora	B.Sc. (H) Zoo Sem – IV	Pramod Dubay	B.Sc. (H) Elec Sem - IV
Jyoti Thakur	B.Sc. (H) Zoo Sem – IV	Hemant Chauhan	B.Sc. (H) Elec Sem - IV
Rohit Kumar	B.Sc. (H) Elec Sem – IV		

### August 2014

Name	Course	Name	Course
Hemant Nath	B. Sc. (H) BMS Sem-V	Shiv Pal Singh Jadaun	B. Sc. (H) Maths Sem - III
Manoj Kumar	B. Sc. (H) Bot Sem – V	Sachin Kumar	B. Sc. (H) Maths Sem - III
ShyamLal Mandal	B. Sc. (H) Bot Sem – V	Amar Kujur	B. Sc. (H) Phy Sem – III
Kirti Sharma	B. Sc. (H) Chem Sem – V	Gaurav	B. Sc. (H) Phy Sem-III
Love Kush	B. Com. (H) Sem-V	Munendra Singh	B. Sc. (H) Phy Sem-III
EktaSoni	B. Sc. (H) Comp.Sc. Sem - V	Mohd Azam	B. Sc. (H) Phy Sem-III
Laxmi	B. Sc. (H) Comp.Sc. Sem - V	Ranjeet Singh	B. Sc. (H) Phy Sem - III
Neha Rani	B. Sc. (H) Comp.Sc. Sem - V	Salil Batabyal	B. Sc. (H) Phy Sem - III
Poonam Gupta	B. Sc. (H) Comp.Sc. Sem - V	Sandeep Kumar	B. Sc. (H) Phy Sem-III
Suraj	B. Sc. (H) Comp.Sc. Sem - V	Tejmani Kumar	B. Sc. (H) Phy Sem-III
KishanHaldar	B. Tech. Comp.Sc. Sem - III	Gitika Arora	B. Sc. (H) Zoo Sem - V
Hemant Chauhan	B. Sc. (H) Elect. Sem-V	Jyoti Thakur	B. Sc. (H) Zoo Sem - V

Name	Course	Name	Course
Rohit Kumar	B. Sc. (H) Elec Sem-V	Kapil Dev	B. Sc. (H) Zoo Sem - V
Pramod Dubay	B. Tech. Elect Sem - III	Shipra Upadhyay	B. Sc. (H) Zoo Sem - V
Vishal Kumar Rana	B.Sc. (H) Elect Sem – I		

### September 2014

Name	Course	Name	Course
Abhishek Kumar	B. Sc. (H) BMS Sem-I	Saurabh Pandey	B. Sc. (H) Maths Sem-I
Shahzeb Ahmed	B. Sc. (H) BMS Sem-I	Gulfan Khan	B. Sc. (H) Maths Sem-I
Manish Kumar	B. Sc. (H) Chem Sem-I	Alok Kumar	B. Sc. (H) Maths Sem-I
Umesh	B. Com. (H) Sem-I	Mahrajuddin	B. Sc. (H) Zoo Sem-I
David	B. Com. (H) Sem-I	Shiv Kumar	B. Sc. (H) Zoo Sem-I
Mohd Modashshis	B. Sc. (H) Comp. Sc. Sem-I	Komal Mewari	B. Sc. (H) Zoo Sem-I
Vishal Kumar Rana	B. Sc. (H) Elect. Sem-I	Deepak Kumar	B. Sc. (H) Phy Sem-I
Chandra Pratap	B. Sc. (H) Elect Sem-I	Sunita Gupta	B. Sc. PME Sem-I
Prashant	B. Sc. (H) Elect Sem-I	Tejveer Singh	B. Sc. PMCs Sem-I
Shyam Sunder Maurya	B. Sc. (H) Elect. Sem-I	Bhuvnesh Kumar	B. Sc. PMCs Sem-I
Ravi Kumar	B. Sc. (H) Elect. Sem-I	ShyamLal Yogi	B. Sc. PMCs Sem-I
Shiv Kumar Maurya	B. Sc. (H) Elect. Sem-I	Sunil Kumar	B. Sc. PMCs Sem-I
Kailash Singh Kushwaha	B. Sc. (H) Maths Sem- I	Devender	B. Sc. PMCs Sem-I

### viii) Ms. Teena Gupta Memorial Scholarship

This Scholarship in the memory of a young teacher of Computer Science in college, but who graduated in Electronics from our college is worth Rs. 6,000/- each, 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. Rohit Kumar - B.Sc. (H) Electronics III yr
2. Rashmi - B. Tech. Electronics II yr

**(ix) Kishore Vaigyanik Protsahan Yojana 2014 (KVPY-2014) Fellowship**

Department of Science and Technology, Ministry of Science and Technology, Govt. of India has awarded (KVPY-2014) Fellowship to Rahul Shaha of B.Sc. (H) Biomedical Science I yr. The fellowship includes a stipend of Rs.5000/- per month and an annual contingency of Rs. 20,000/- till pre-Ph.D.level. The objective of the program is to identify students with talent and aptitude for research; help them realize their academic potential and encourage them to take up research careers in Science.

**4.1.4. Co-Curricular Activities**

Students at ANDC are encouraged to step into the real world by participating in various conferences, workshops, competitions etc., to let the world know and realize their potential. Our students indeed have brought laurels to the college at national and international platforms.

**4.1.4.1 Awards Won by Students in Various Conferences /Competitions**

Students	Achievements
Priyanka Kachru, Ananya Paul and Shatakshi Singh [B.Sc. (H) Phy-III]	<b>First Prize for oral presentation</b> on “Measuring the Size of Quantum Dots Using a Low Cost CCD” at SPIE Asia Student Photonics Conference (ASPC), 2014 organized by IISER Kolkata under Postgraduate Category (M. Tech./ M. Sc./B. Tech./ B. Sc.), India. The prize includes USD 300 as cash award and one year free membership of SPIE.
Sadashiv Raj Bharadwaj, Raj Kumar, Saksham Tyagi [B.Tech. (Elec)-II], Avinash Kr., Shudanshu, Deepak Verma [B.Sc. Phy. Sc. (Elec) -III]	Awarded <b>Best Display Award</b> under Scientific Arena Theme on “Development of Low Cost Computer Controlled Science Laboratory Using Sensors and Open Source Hardware and Software Tools”, in Innovation Plaza at Antardhvani 2015, organized by the University of Delhi from February 20-22, 2015.

Students	Achievements
Nikhil Verma, Saptarshi Chakroborti, Shobha Badola [B.Sc. Phy. Sc. (Elec)-III] Prayas Tiwari, Ashish Pokhriyal, Pankaj Rawat [B.Sc. (H) Comp.Sc. - III], Rishi Bhukesh, Akshat Shrawat [B.Sc. (H) Bot - III], Sandal Azhar, Lakshika Raheja [B.Sc. Phy. Sc. (Elec)-III (Batch 2014)]	Awarded <b>Best Innovative Idea Award</b> under Scientific Arena Theme on 'Artificial Olfaction Using E-Nose – Mimicking Human Nose for Gas Sensing Applications' in Innovation Plaza at Antardhvani 2015, organized by the University of Delhi from February 20-22, 2015.
Sadashiv Raj Bhardwaj, Raj Kumar Saksham Tyagi [B.Tech. (Elect)-II], Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elec)-III]	Selected at the National Level Robotics Competition, (e-Yantra Robotics Competition), 2014 ( <b>Theme - Caretaker Robot</b> ), organized by IIT Mumbai, sponsored by MHRD through the National Mission on Education through ICT (NMEICT).
Rakesh Roshan, Smriti lekha Acharya, Rashmi Singh and Abhijeet [B.Tech. Elec-II]	Selected at the National Level Robotics competition, (e-Yantra Robotics Competition), 2014 ( <b>Theme -Waste Segregation Robot</b> ), organized by IIT Mumbai, sponsored by MHRD through the National Mission on Education through ICT (NMEICT).
Sarthak Chauhan, Pankaj Dhaundiyal, Nitin Rawat and Rohit Jha [B.Tech. Elec-II]	Selected at the National Level Robotics competition, (e-Yantra Robotics Competition), 2014 ( <b>Theme -Warehouse Management Robot</b> ), organized by IIT Mumbai, sponsored by MHRD through the National Mission on Education through ICT (NMEICT).
Eshant Bhatia, Divyansh Mittal [B.Sc. (H) BMS-III] , Nitish Malhotra [B.Sc. (H) BMS-I]	<b>First prize with a Trophy</b> for poster presentation at the National Conference on "Understanding the Mechanisms and Challenges of Complex Diseases" UMCCD-2014 organized by SRCASW, University of Delhi from December 29-30, 2014.
Eshant Bhatia [B.Sc. (H) BMS-III]	<b>Second prize in paper presentation</b> at inter college science fest held at Kalindi College January, 19-20, 2014.

Students	Achievements
Eshant Bhatia, Shruti Sharma [B.Sc. (H) BMS-III]	<b>Third prize</b> in “Tanabana” (Event comprising Quiz, Dumb charades and creative story telling) at National Symposium held at Bhaskaracharya College of Applied Science, University of Delhi on March 21, 2014.
Gaurav Prakash [B. Sc. (H) Chem-II]	<b>First position</b> in Quiz Competition organised by Dr. B.R. Ambedkar Centre for Biomedical Research at their stall in Antardhvani on February 20-22, 2015.
Rachita Thaladi [B.Sc.(H) Phy – II]	<b>First Prize</b> in painting competition ‘Art Gallery: DU Artist’ at Antardhvani 2015.
Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elect) – III] Raj Kumar, Sadashiv Raj Bharadwaj [B.Tech. Elec-II] Gaurav Singh [B.Sc. (H) Comp. Sc., III]	<b>First prize</b> in project presentation competition in the form of Paper entitled “Technology Based Laboratory to Improve Science Learning” at ‘7th National Level Science Symposium-2014’ on “Recent Trends in Science and Technology” Christ College, Rajkot, February 22- 23, 2014.
Ashish Choudhary, Mannu Shankar and Vikas Ahlawat [B.Sc. (H) Zoo-III]	<b>Second Prize</b> in Oral presentation of paper entitled "Can Ciliates Sense Insecticides?" at one day symposium on Recent Trends in Biology held at Maitreyi College, DU on February 17, 2015.

#### 4.1.4.2 Participation by Students in Various Conferences/Workshops

Students	Details of conferences/workshops
Pooja Rawat and Shubham Biswas [B.Sc. (H) Chem-III]	<b>Presented a paper</b> on “Environment Management by Chemical Waste Treatment and Recycling at the Source” at the International Conference on Harnessing Engineering Technology and Innovation for Sustainable Development held at Dr. S. S. B. University of Chemical Engineering and Technology, Punjab University, Chandigarh, India on September 19-20, 2014.

Students	Details of conferences/workshops
Atul Kumar and Sonu Kumar [B.Sc. (H) Chem-II]	<b>Presented a paper</b> on ‘Synthesis, Characterization and Application of Polysaccharide based Resin for Yamuna Water Treatment’, at the National Conference on “Recent Trends in Instrumentation and Electronics” (RTIE-2015) organized by Department of Electronics & Department of Instrumentation, Shaheed Rajguru College of Applied Sciences for Women, University of Delhi on January 5-6, 2015.
Bidyut Bikash Bora, Vivek and Shatakshi [B.Sc. (H) Phy-III] Salil Batabayal, Shreyak Chakraborty [B.Sc. (H) Phy-II]	<b>Attended</b> a day long workshop at Inter University Accelerator Centre (IUAC), Delhi on the theme “Science for Nation Building” on the occasion of National Science Day on February 28, 2015.
Priyanka Kachru [B. Sc. (H) Phy-III]	<b>Presented</b> a paper “Easing of Wave Optics Understanding Through Technology” at Optics + Photonics, 2014 Conference held in San Diego from August 17-21, 2014, USA. ANDC SPIE Chapter participated in Optics Olympiad held during this conference and demonstrated working of Quantum Eraser.
Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elect) – III]	<b>Presented a paper</b> on “Development of Open Source Low Cost Wireless Data Acquisition Systems for Science Experiments” at 4th International Conference on “Software Solutions, E-Learning, Computer Sciences, Information & Communication On Technology” (SECICT– 2014) Organized by Krishi Sanskriti JNU, New Delhi on June 14-15, 2014.
Saksham Tyagi [B.Tech. Elec-II]	<b>Presented a paper</b> on “Development of Low Cost and User-Friendly Medical Diagnostic Tools” at 3rd International Conference on ‘Innovative Approach in Applied Physical, Mathematical/Statistical, Chemical Science and Emerging Energy Technology for Sustainable Development’ organized by Krishi Sanskriti, JNU, New Delhi on September 27-28, 2014.



Students	Details of conferences/workshops
Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elect) – III],	<b>Presented a paper</b> on “Innovative Approaches to Advance Undergraduate Research” at National Conference on “Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning” organised by Maharaja Agrasen College, University of Delhi on October 16-17, 2014
Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elect) – III],	<b>Presented a paper</b> on “Low Cost and User-Friendly Environmental Monitoring System” at the National Conference on Recent Trends in Instrumentation and Electronics organized jointly by the Department of Electronics and the Department of instrumentation of Shaheed Rajguru College of Applied Sciences for Women (SRCASW), University of Delhi on January 05-06, 2015. (The work has been done under DU Innovation Project ANDC 202)
Avinash Kumar, Shudhanshu [B.Sc. Phys. Sc. (Elect) – III], Raj Kumar, Sadashiv Raj Bharadwaj, Saksham Tyagi [B.Tech Elec-II], Prabhav Pushkar [B.Sc. (Elect)-III, Batch 2014], Vishal Kumar [B.Sc. (H) Comp. Sc. –III], and Faizal Ali [B.Sc. (H) Maths – III]	<b>Participated</b> in ‘Robotics Boot camp 2014’ organized by Center for Science Education and Communication and Cluster Innovation Center, University of Delhi in March 2014.
Avinash Kumar, Shudhanshu [B.Sc. Phys. Sc. (Elect) – III], Raj Kumar, Sadashiv Raj Bharadwaj [B.Tech Elec-II] Gaurav Singh [B.Sc. (H) Comp Sc, III]	<b>Participated</b> in a workshop on ‘Line Follower Robotics’ organized by the Department of Instrumentation, Bhaskaracharya College of Applied Sciences in collaboration with Electronics For You Group from March 11-12, 2014.

Students	Details of conferences/workshops
Raj Kumar, Sadashiv Raj Bharadwaj and Saksham Tyagi [B.Tech Elec-II]	<b>Participated</b> in 'Regional Selection (North) for World Skills Competition 2015' in the skill of Mobile Robotics organized by National Skill Development Corporation, MIT Academy of Engineering, FESTO and NEX Robotics at Maharaja Agrasen College, University of Delhi, April 04, 2014.
Raj Kumar, Sadashiv Raj Bharadwaj and Saksham Tyagi [B.Tech Elec-II]	<b>Participated</b> in the 'Zonal Round of Robotryst 2014' organized by Robosapiens Technology Pvt. Ltd. in association with Tryst 2014 at IIT Delhi.
Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elect) – III], Raj Kumar and Sadashiv Raj Bharadwaj [B.Tech. Elec-II]	<b>Participated</b> in the Hands on workshop on 'New Raspberry Pi B+', organized by RS Components in association with Easy Embedded, NOIDA, August 16-17, 2014.
Avinash Kumar, Shudhanshu [B.Sc. Phy. Sc. (Elect) – III], Raj Kumar, Sadashiv Raj Bharadwaj, Shaksham Tyagi [B.Tech. Elec-II]	<b>Participated</b> in 'Working Model Exhibition' in TECH INNOVATION IDEAL -2014 organized at Ideal Group of Institution, Ghaziabad on September 26-27, 2014.
Arun Kumar, Manoj kumar Sharma, Pooja Sharma, Gayatri Batra [B.Sc. (H) Chem-II]	Four out of twelve students <b>representing</b> the University of Delhi in the 5-day long 19th National Youth Festival - 2015 organised by NSS and held at Guwahati from January 08-12, 2015, were from ANDC.
Mansi Jatwani, Srishti, Yogesh Kumar, Asgar Ansari and Arun Nandwani [ B.Sc. (H) BMS-III]	Presented a <b>poster</b> on 'A Comparative Study on the Kinetic Parameters of Enzyme Acid Phosphatase sourced from different sprouts' in National Symposium on Understanding the Mechanism and Challenges of Complex Diseases (UMCDD) organized by Shaheed Rajguru College of Applied Science, University of Delhi on December 29-30, 2014.

#### 4.1.4.3 Youth Parliament Competition

**Coordinator: Dr. Abhishek K. Mehta**

To develop leadership qualities among students and for them to understand the parliamentary system Ministry of Parliamentary Affairs, Govt. of India organizes Youth Parliament competition. This year the college participated in the 12th national Youth Parliament Competition for colleges and Universities. The competition has 36 teams divided into six groups, with six teams in each group. The completion has two stages – group level and national level. At group level each team has to perform at their respective campuses with jury visiting there. The group level competition was organized by the college on March 26, 2015 in the college premises. The college team has 50 students from across the courses. The team performed in front of an elite jury comprising of Hon'ble M.P (South Delhi) Mr. Ramesh Bidhuri, Dr. Harsha Bhosale (Group coordinator) from University of Mumbai and Dr. Anupam Pauchari from National university of Educational Planning and Administration, New Delhi. The judges were highly impressed by the performance of students and six students were selected for their exemplary roles. The prize winners were:

I prize: Apeksha Pandey; B. Sc. (H) Physics III

II prize: Sachin Bisht; B. Sc. (H) Electronics I

III prize: Arun Dixit; B.Sc. (H) Chemistry II

And three special prizes were awarded to :

Manish Kumar: B. Sc. (H) Chemistry I

Sukrit: B.Sc. (H) Mathematics I

Sakshi Bhardwaj: B.Sc. (H) Biomedical Science II

The results of the Group level competition will be declared in May 2015.

## 4.2. THE STUDENTS' COUNCIL

The students' council elections were held on September 12, 2014. The following students were elected to the office:

Alok Tripathi	Mayor	B.Sc. (H) Physics II
Rishi Bhukesh	Deputy Mayor	B.Sc. (H) Botany III
Rahul Giri	Council Treasurer	B. Sc. (H) Chemistry II
Amarnath Yadav	Council Secretary	B. Sc. (H) Chemistry II
Kartik Sharma	Cultural Secretary	B.Com (H) II
Sudhanshu	Career Counselling and Placement	B.Sc. Life Sc. III
Vishal Parashar	Sports	B.Sc. Phy. Sc. (Chem) I
Sidhant Zutsi	Responsibilities and Grievances	B.Sc. (H) Zoology I



## 5. Achievements Of Faculty

### Dr. Savithri Singh, Principal

Dr. Savithri Singh has been actively working not only for the development and progress of the college but also for the greater cause of promoting Open Educational Resources and use of ICT in education. In recognition to her efforts she has been nominated as member of National Resource Group (NRG) on ICT in School Education and also a member of National Resource Group (NRG) for Rashtriya Madhyamik Shiksha Abhiyan (RMSA), both constituted by the Ministry of Human Resource Development, Government of India. Dr Singh attended the first meeting of the NRG on ICT at the School of Education, NCERT, New-Delhi on May 15, 2014.

Dr. Savithri Singh continues to be associated with NCERT – she was invited to the expert group to discuss content of the NCERT Biology textbooks on April 5, 2014. She was also invited to the meeting of the Committee constituted for revamping of functions, policies and programmes of NCTE Library on April 7, 2014. As a member of National Focus Group on ‘Teaching of Science’ of NCERT (2004) she was part of the next round of interactions – the first group meeting of the experts in Science and Environment Education was held July 2014.

Dr Savithri Singh has been instrumental in introducing technology in teaching-learning in College and the University. She was invited as an expert to the meeting of the project entitled ‘New Learning Opportunities in a Networked World: Developing a Research Agenda on Innovative Uses of ICTs for Learning and Teaching’ organized by Open University of the Netherlands, at Amsterdam, Netherlands from November 20-25, 2014.

As Principal of a college recognised for its Good Practices, she contributed her expertise at the meeting on ‘Project on Governance and Management of Higher Education in India’ conducted by Centre for Policy Research in Higher Education (CPRHE), National University of Educational Planning and Administration (NUEPA) on March 12, 2015.

Dr. Singh has been working in the area of ‘Open Educational Resources’ for the last eight years and is an acknowledged expert in the field in India. She is the advisor to a mega-project ROER4D (Research on Open Educational Resources for Development– An IDRC, Canada Project) involving 11 OER Adoption studies and 8 OER impact studies, all located in the Global South – South America, South of Africa and South Asia. She is guiding three of these projects; these are located in



Malaysia, Columbia and India. Dr. Singh will be attending the Open Education Global Conference and the meeting of the ROER4D group at Banff, Alberta, Canada in April 2015. The meeting is hosted by the Centre for Innovation in Learning and Teaching, University of Capetown, South Africa.

## 5.1. CONTRIBUTION OF FACULTY TO SCHOOL/COLLEGE EDUCATION

### 5.1.1. Chapters (in Books) Published

Title & Publisher	Author/s
Chapter entitled "Love in the Air: Wind Pollination Ecological and Evolutionary Considerations" in Book entitled 'Plant Reproductive Biology and Conservation' - Editors: Rupam Kapoor et al., I. K. International Publishing House Private Limited. 2015, pp 234 – 245, ISBN No.: 9789382332909	Dr. Charu K. Gupta and Dr. Yash Mangla
Chapter entitled "A study of Factors influencing Profitability of Banks in India in Post Reform Era: Panel Evidence" in Book entitled 'India 2020: Vision for the Financial Sector' – Editors: Harvinder kaur and Jatinder Bir Singh, Regal Publications, 2015, page 48-66 ISBN No.: 9788184844474.	Ms. Shalu Mahajan and Prof. Madhu Vij

### 5.1.2. e- chapters Uploaded on the University of Delhi Website:

- **Kumar S** (2014), Respiration in Arthropoda. Uploaded on the site of Virtual Learning Environment, South Campus, University of Delhi.  
(<http://vle.du.ac.in/mod/tab/view.php?id=9778>)
- **Kumar S** (2014) Social Life in Insects. Uploaded on the site of Virtual Learning Environment, South Campus, University of Delhi.  
(<http://vle.du.ac.in/mod/tab/view.php?id=9778>)
- **Kumar S** (2014), Vision in Arthropoda. Uploaded on the site of Virtual Learning Environment, South Campus, University of Delhi.  
(<http://vle.du.ac.in/mod/tab/view.php?id=9778>)
- **Toteja R** (2014), Apoptosis. Uploaded on the site of Virtual Learning Environment, South Campus, University of Delhi.  
<http://vle.du.ac.in/mod/resource/view.php?id=11946>)
- **Toteja R** (2014), Signal Transduction. Uploaded on the site of Virtual Learning Environment, South Campus, University of Delhi.  
<http://vle.du.ac.in/mod/resource/view.php?id=11946>).

### 5.1.3. Enriching School Education:

Role/Topic	Faculty involved	Duration
<b>Resource person</b> for developing Biology Kit and Kit Manual at NCERT, Delhi for the Higher Secondary stage	Dr. Sarita Kumar (Department of Zoology)	March 9-13, 2015, June 27-23 2014 and February 4-7, 2014
<b>Reviewer</b> of training package in Chemistry at Higher Secondary Stage developed under NCERT, Delhi.	Dr. Seema Gupta (Department of Chemistry)	February 2015
<b>Resource person</b> in Field trial of training package developed in Biology at Higher Secondary stage for reviewing and editing the training material developed for teachers teaching Biology, organised by the Department of Education in Science & Mathematics, NCERT Delhi.	Dr. Gagan Dhawan (Department of Biomedical Science)	February 2-10, 2015
<b>Online Content developer</b> for CTES (Certificate Programme for Teaching of Elementary School Science), initiated by NCERT, Delhi.	Dr. Sarita Kumar (Department of Zoology)	2014-15
<b>Member</b> of Committee constituted by NCERT for Reviewing and Development of reference material for teachers (Class XI and XII).	Dr. Gagan Dhawan (Department of Biomedical Science)	2014-15
<b>Reviewer</b> of videos for Chemistry under the project UDAAN developed under CBSE.	Dr. Seema Gupta (Department of Chemistry)	December 2014

Role/Topic	Faculty involved	Duration
<b>Content developer</b> in Chemistry for UDAAN CBSE – 2014 – A project to provide free online resources to disadvantaged girl students of Class XI and XII for preparation of admission test for the premier engineering colleges in the country.	Dr. Neeti Misra, Dr. Manisha Jain (Department of Chemistry)	November – December 2014
<b>Team member</b> for developing Educational Games and Toys for teaching Biology at upper primary and secondary level in NCERT, Delhi.	Dr. Sarita Kumar (Department of Zoology)	Aug 5-8, 2014
<b>Expert</b> for Field Trial and Finalization of the Training Package in Biology at Higher Secondary Stage, NCERT, Delhi.	Dr. Sarita Kumar (Department of Zoology)	August 10-13, 2014 and March 10-13, 2014
<b>Resource person</b> in a workshop entitled Review and Development of Microscale Chemistry Kit for Higher Secondary Stage', organized by Division of Educational Kits, NCERT, Delhi.	Dr. Seema Gupta, Dr. Manisha Jain (Department of Chemistry)	July 23-25, 2014 and June 09-13, 2014
<b>Resource person</b> in a workshop on "Development of Training Package in Chemistry at Higher Secondary Stage" organized by the Department of Education in Science & Mathematics, NCERT, Delhi.	Dr. Pooja Bhagat (Department of Chemistry)	February 24-27, 2014

## 5.2. CONFERENCES, WORKSHOPS, TRAINING PROGRAMMES ORGANIZED

Details	Organizing Faculty
One-day workshop on “Think Lab – CUBE Interactive Meet” held at ANDC; September 18, 2014.	Dr. Sarita Kumar and Dr. Ravi Toteja
One-day workshop on “Collaborative Undergraduate Biology Education, CUBE-2014” held at ANDC; February 7, 2014.	Dr. Sarita Kumar and Dr. Ravi Toteja

## 5.3. AWARDS /HONOURS

Awardee Name	Name of the Award/Honour	Awarded/Honoured by	Awarded on
Dr. Urmi Bajpai	Meritorious Teacher Award for the year 2014 with Rs. 1, 00, 000/- as cash prize.	Directorate of Higher Education, Govt. of NCT of Delhi	December 16, 2014
Dr. Seema Makhija	Best oral presentation for the research paper entitled “Inferring Phylogenetic Position of an Indian Isolate <i>Tetmemena</i> sp. (Ciliophora, Oxytrichidae) using Morphological, Morphogenetic and Molecular Markers”	2nd Asian Congress of Protistology and Ninth Asian Conference on Ciliate Biology organized by Kalyani University, Kalyani, India	November 27-29, 2014



Awardee Name	Name of the Award/ Honour	Awarded/Honoured by	Awarded on
Dr. Mamta Bhatia	J. William Fulbright Award for attending "Fulbright-Nehru Inter-national Education Administrators Seminar 2014", held in USA during October 26 to November 6, 2014.	US State and Govt. of India	October 2014
Dr. Vikrant Kumar	Raman Fellowship for Post-Doctoral Research in USA for one year	University Grants Commission	August 2014
Dr. Savithri Singh and Dr. Sarita Kumar	K. S. Krishnan Teacher Fellow Award	HBCSE, TIFR, Mumbai	July 6, 2014
Mr. Dinesh	Teacher's Excellence Award in English	University of Delhi	May 1, 2014
Dr. Sunita Jetly	First prize in poster presentation on Quick and Efficient Detection of Chronic Myeloid Leukemia	9th Symposium on Frontiers in Biomedical Research, University of Delhi	April 14-16, 2014

## 5.4. FACULTY AS EDITORS/ REVIEWERS/ ADVISORY

Faculty	Achievement
Dr. Amit Garg	<ul style="list-style-type: none"> <li>• <b>Editorial Reviewer Board member of</b> <ul style="list-style-type: none"> <li>• <i>Optics and Lasers in Engineering</i> by Elsevier Inc., USA.</li> <li>• <i>American Journal of Optics and Photonics</i> published by Science Publishing Group, USA.</li> <li>• <i>The Science Education Review (SER)</i>, Australia.</li> <li>• <i>Computer Application in Engineering Education</i> published by John Wiley &amp; Sons.</li> <li>• <i>International Journal of Engineering Sciences</i>, India.</li> <li>• <i>International Research Journal of Engineering Science, Technology and Innovation (IRJESTI)</i>.</li> <li>• <i>European Journal of Physics Education</i>.</li> </ul> </li> <li>• <b>Advisory committee member</b>, ANDC Business Incubator funded by Ministry of Micro, Small, Medium Enterprise (MSME), Govt. of India.</li> </ul>
Dr. Sarita Kumar	<ul style="list-style-type: none"> <li>• <b>Editorial Board</b> of <i>The Open Access Journal of Science and Technology (UK)</i>, <i>Journal of Applied and Natural Sciences (Haridwar)</i>, <i>Asian Pacific Journal of Tropical Biomedicine (China)</i>.</li> <li>• <b>Reviewer</b> in the <i>International Journals</i> - <i>African Journal of Biotechnology (Nigeria)</i>, <i>Journal of Medicinal Plant Research (Nigeria)</i>, <i>Science Postprint (Japan)</i>, <i>MethodsX (UK)</i>, <i>Journal of Mosquito Research (Canada)</i>, <i>Asian Pacific Journal of Tropical Biomedicine (China)</i>, <i>Asian Pacific Journal of Tropical Diseases (China)</i>, <i>TANG Humanitas medicine (Korea)</i>, <i>Tropical Biomedicine (Malaysia)</i>;</li> <li>• <b>Reviewer</b> in the <i>National Journals</i> - <i>International Journal of Pharmacy and Pharmaceutical Sciences (Madhya Pradesh)</i>, <i>Indian Journal of Medical Research (New Delhi)</i></li> </ul>
Dr. Gagan Dhawan	<ul style="list-style-type: none"> <li>• <b>Member, Board of Research Studies (Sciences)</b>, University of Delhi (February, 2014-16).</li> <li>• <b>Member, Research Advisory Committee</b> of a Ph.D Student at Netaji Subhash Institute of Technology, Govt. of NCT of Delhi.</li> </ul>

## 5.5. OTHER ACHIEVEMENTS

Faculty	Achievement
Dr. Amit Garg	<ul style="list-style-type: none"><li>• Co-convener, National Experimental Skill Test (NEST)-2014, (Screening 04 August 2014 and prelim 09 August 2014) conducted in coordination with Indian Association of Physics Teachers(IAPT)</li><li>• Member, Program Committee, International Conference on Applications of Optics and Photonics, May 26-30, 2014, Aveiro, Portugal</li><li>• Member, Technical Program Committee, Laser and Optoelectronics Conference 2014(LOC-2014), November 28 -30, 2014, Beijing China.</li><li>• Convener, Optics Education Outreach Activity 2014 organized by University of Delhi at ANDC SPIE Student Chapter.</li></ul>
Dr. Gagan Dhawan	<ul style="list-style-type: none"><li>• Convener and Resource person in an Instructional Workshop on Gene Expression Analysis: Hands-on using Microarray and Next Generation Sequencing Data Analysis jointly organized by NNMCB-Delhi Node and ANDC supported by Science and Engineering research Board, Government of India. (March 7-9, 2015)</li><li>• Resource person in the workshop on “Proteomics and Proteogenomics” sponsored by DBT Star College Scheme(January 10-11, 2015) organized by Department of Biomedical Science, BCAS, University of Delhi.</li><li>• Resource person in the workshop on “Statistical Analysis of Biological Data” sponsored by DBT Star College Scheme (October 9-11, 2014) organized by Department of Biomedical Science, BCAS, University of Delhi.</li><li>• Appointed as Mentor by National Network of Mathematical and Computational Biology (NNMCB) funded by Science and Engineering Research Board, Government of India, to provide training in Mathematical and Computational Biology to both undergraduate and post graduate students, since February, 2014.</li></ul>

Faculty	Achievement
Dr. Urmi Bajpai	<ul style="list-style-type: none"> <li>Invited to participate in a brainstorming session on "Open Source Pharma", organized by Bellagio Centre of Rockefeller Foundation, Italy which was attended by 23 invitees from across the world. The topic of presentation was: "Crowdsourcing in Wet Labs, Involving Undergraduates", on July 16-18, 2014.</li> <li>Research Guide for Ms. Ankita Ray, one Tata CSIRO SDD woman Fellow (TCOWF) for a six month project on "Investigating the Diversity of Mycobacteriophages in India and Exploring Their Potential as Source for Anti-Mycobacterial Active Biomolecules. A Pilot Study ". Period: May-October 2014.</li> <li>Research Guide (Joint) for Dr Surendra Sharma, a Tata CSIRO SDD Fellow (TCOF) for a six month project on "Virtual Screening and in-Vitro Assays for Inhibitors of Mur Enzymes" with Dr. Andrew Lynn, School of Computational and Integrative Sciences, Jawaharlal Nehru University. Period: April-September 2014</li> </ul>
Dr. Amit Garg Dr. Pankaj Khanna Dr. Ravi Toteja Mr. Ravinder Sagar Dr. M. S. Rajeswari, Dr. Arijit Chowdhuri Dr. Subhash Kumar Dr. Manisha Verma, Dr. Anju Agarwala Dr. Geetu Gambhir, Dr. Vandana Uberoi	<b>Jury Members</b> for National Level Exhibition and Project Competition (NLEPC) under Innovation in Science Pursuit for Inspired Research (INSPIRE) programme, Department of Science and Technology held at Pragati Maidan, New Delhi, on October 6-8, 2014



Faculty	Achievement
Dr. Sarita Kumar	<b>Developed</b> 'Shabdawali' on Environment terms for 'Vishwakosh' – a project of MHRD, Govt. of India.
Dr. Sandeep Goel	<b>Executive Committee Member</b> , Indian Accounting Association.
Dr. Pankaj Khanna	<b>Resource person</b> in various sessions of a weeklong workshop on "Trans Disciplinary Training" organized by CPDHE, University of Delhi, from May 7-13, 2014.
Dr. Subhash Kumar	<b>Co-Convenor</b> of QUEST-2015 (An annual inter college science quiz) organized by Center for Science Education and Communication, University of Delhi.

### 5.6. FACULTY AWARDED PH.D. DEGREE (2014-15)

Name	Title of Thesis	Date of Award of Ph.D	University
Ms. Harita Ahuja	Information Theoretic Approach for Hybrid Recommender System	16.12.2014	University of Delhi
Mr. Chaman Singh	Development and Analysis of some Supply Chain Systems in Crisp and Fuzzy Environment	29.03.2014	Ch. Charan Singh University, Meerut
Ms. Preeti Marwaha	Temporal Enhancement of Web Services	04.09.2014	University of Delhi

### 5.7. FACULTY ON STUDY LEAVE FOR DOCTORAL/ POST DOCTORAL RESEARCH

Name	Course of Study	University
Mr. Yasheshwar	Ph.D.	Jamia Hamdard University, New Delhi
Dr. Vikrant Kumar	Post-Doctoral Research	Raman Fellowship for Indian Scholars AT San Diego State University, United States

## 5.8. FACULTY/NON TEACHING STAFF ON LIEN (EOL)

Name	Purpose of Leave
Dr. Pankaj Tyagi (Faculty, Physics Department)	Appointed as Professor in CIC and on EOL (lien) w.e.f. March 11, 2015.
Mr. Jatin Lamba (Sr. P.A. to Principal)	Appointed as A.O. in Shri Ram College of Commerce (University of Delhi) and on EOL (lien) w.e.f. November 7, 2014.

## 5.9. ORIENTATION PROGRAMMES/REFRESHER COURSES

**Dr. Rajesh Chaudhary** attended an orientation programme from June 23 to July 19, 2014 at CPDHE, University of Delhi.

**Dr. Subhash Kumar** and **Dr. Pankaj Khanna** successfully completed a 3 week Refresher Course in Environmental Studies (Inter-disciplinary) from November 24 to December 13, 2014, organized by Centre for Professional Development in Higher Education, University of Delhi.

## 5.10. RESEARCH PUBLICATIONS BY FACULTY IN PEER REVIEWED JOURNALS, NATIONAL AND INTERNATIONAL CONFERENCES AND SEMINARS

*See Annexure*

## 5.11 CONFERENCES, WORKSHOPS, TRAINING PROGRAMMES ATTENDED (WITHOUT PRESENTATION/PUBLICATION)

- **Sandeep Goel, Accountancy and Commerce Education Summit**, The Institute of Chartered Accountants of India, India Habitat Centre, New Delhi, January 19, 2015.
- **Subhash Kumar, 5-day Indo-US meeting of Indo-US Joint Networked Center on the Analysis of Variable Star Data** sponsored by Indo-US Science Technology Forum (DST) and IUCAA (Inter-University Center for Astronomy and Astrophysics, Pune) at Department of Physics & Astrophysics, University of Delhi from January 12-16, 2015.
- **Sandeep Goel, National Conference on Advances in Management for Business Excellence**, Department of Business Administration, National Institute of Technology, Kurukshetra, February 27-28, 2015.

- **Sandeep Goel**, 67th All India Commerce Conference of Indian Commerce Association, KIIT University, Bhubaneswar in association with P.G. Department of Commerce, Utkal University, Bhubaneswar, December 27-29, 2014.
- **Sandeep Goel**, 37th All India Accounting Conference and International Seminar on Accounting Education and Research, Department of Commerce, University of Lucknow & Indian Accounting Association, Lucknow, November 8-9, 2014.
- **Sandeep Goel**, Workshop on **Companies Act 2013**, Indian Accounting Association Delhi Chapter, Shri Ram College of Commerce, Delhi, August 30, 2014.
- **Seema Gupta, Sunita Hooda, Pooja Bhagat, Manisha Jain, Seema Makhija, Monisha Khanna and Ravi Toteja**, First International Conference on **Emerging Trends of Nanotechnology in Drug Discovery (INDD – 2014)** jointly organized by Sri Venkateswara College, University of Delhi and Department of Biochemistry, University of Delhi, South Campus on May 26-27, 2014.

## 5.12. ACHIEVEMENTS OF NON-TEACHING STAFF

### 5.12.1. Promotion of Non-teaching Staff

Name & Designation	Programme	Date/s
Ms. Kanika Chadha Museum Curator, Botany/Zoology Laboratory	Training on sensitization for prevention of Sexual Harassment at workplace by Directorate of Training UTCS, Govt. of NCT of Delhi	October 31, 2014
Ms. Meenu Malhotra Section Officer (Adm.)	Training Programme in Gender Sensitisation by Directorate of Training UTCS, Govt. of NCT of Delhi	October 10, 2014
Mr. Chetanya Sharma Section Officer (Accounts)	Refresher Course on Accounts Matters for Non-gazetted Staff by Directorate of Training UTCS, Govt. of NCT of Delhi.	September 1-5, 2014
Mr. V.S. Rao Administrative Officer	Training Programme on Retirement Benefits by Directorate of Training UTCS, Govt. of NCT of Delhi.	August 22, 2014
Mr. Jatin Lamba Sr. P.A. To Principal	Training Programme on E-Government by Directorate of Training UTCS, Govt. of NCT of Delhi.	August 19-20, 2014
	Refresher Course for Personal Assistant/ Pvt. Secretary by Directorate of Training UTCS, Govt. of NCT of Delhi.	July 30, 2014

Name & Designation	Programme	Date/s
Ms. Namrata Arora SPA, Library	Training Programme in Computer Applications	July 08-22, 2014 & April 17, 2014 – May 01, 2014
	Seminar jointly organized by Tecnia Institute of Advanced Studies, Rohini & Satija Research Foundation for Library and Information Science on “Paradigms Shift in Knowledge Innovation, Information Representation, Information Management Systems and Librarianship	April 11-12, 2014

### 5.13. APPOINTMENT OF NON-TEACHING STAFF ON SUBSTANTIVE BASIS (COMPASSIONATE GROUNDS)

S. No.	Name	Post	Date of Joining
1.	Ms. Kavita Yadav w/o Late Sh. Satish Kumar Yadav, Laboratory Assistant, Department of Chemistry	MTS-Laboratory on compassionate grounds	June 03, 2014



## 6. College Activities

The activities in the college are organized through Staff Council Committees and Departmental Societies. The Departmental Societies deal with activities specific to the subject offered by that department while the Staff Council Committees work across all subjects and courses.

### 6.1. STAFF COUNCIL COMMITTEES

#### 6.1.1. Academic Affairs Committee

**Convenor: Dr. Seema Gupta**

The **Annual Day** of the college was organised on March 28, 2014 (the event in-charge for this was previous convenor **Dr. Geetika Kalra**). Ms. Sharmishtha Mukherjee, an eminent dancer and choreographer was the chief guest and Prof. C.K. Jaggi, was guest of honour. The college organized **Open Day** on June 3, 2014 to give an insight into the centralized admission process to the students seeking admission in DU. **Orientation** for first year students was conducted on July 21 and 22, 2014. Students were familiarized with the academic culture on the campus, co-curricular and extracurricular activities and rules and regulations of the college through a short documentary followed by interaction with the Principal. **Acharya Narendra Dev Memorial Lecture** was held on November 5, 2014. A talk on *Acharya Narendra Dev ji Ki Samajik Avdharna Aur Vartman Bhartiya Sandarbh* was delivered by Sh. Ram Chandra Rahi, the founder member and secretary of Gandhi Smarak Nidhi, Gandhi Peace Foundation Delhi.

#### 6.1.2. National Social Service (NSS)

**Convenor: Dr. Anita Narang**

This year was quite happening for the NSS unit of the college. The work of the college NSS team was highly applauded at Antardhvani 2015 also. Major activities undertaken by NSS were:

**NSS Day** on September 24, 2014 was marked by organizing a camp for lipid profile and blood sugar analysis for all the students and staff of the college in collaboration with Bhaskaracharya College of Applied Sciences and Institute of Genomics and Integrative Biology (IGIB) - CSIR. Patronizing the philosophy of *Swachh Bharat Abhiyan*, a workshop was organized on September 25, 2014, to generate awareness about maintaining hygiene and cleanliness. An awareness campaign for the same was also done by NSS volunteers in Govindpuri and Giri Nagar, the localities around the college. A **hemoglobin checkup camp** for girl students and female teaching and non-teaching staff was held on the Orientation Day of the NSS unit

i. e., September 28, 2014. Dr. N. K. Bhatia, a renowned blood specialist, was the chief guest for the occasion. As an initiative from the Government of India, the students, teachers and the non-teaching staff took a pledge on October 2 to keep the campus clean. The cleanliness drive started from October 2, has become a regular practice.

In its social outreach endeavours, the college NSS unit tries to provide financial assistance to various NGOs working for differently-abled persons. A step in this direction is the **Diwali Mela 'SAHYOG'** organized every year, this time on October 17, 2014. During this mela, a number of NGO's sold self-made products like folders, candles, diyas and various stationary items with a cumulative sale of all stalls being Rs. 50,000/-. NSS volunteers in coordination with NGOs - **SAKSHAM** and **GOONJ** prepared study material for the visually impaired students. **Rashtriya Ekta Divas** was celebrated by NSS to commemorate the birth anniversary of Late Sardar Vallabh Bhai Patel on October 31, 2014. The event was marked by an oath taking ceremony followed by a 'Run for Unity' in the college playground. A college representation of students and faculty members also participated in the Run for Unity at India Gate. In a significant step in social sensitivity, ANDC adopted **10 female Thalassemic patients** from poor background, for their routine blood requirement. This has happened for the **first time in the University of Delhi**. NSS volunteers have resolved to provide at least 4 required blood units per patient per year. These students routinely donate blood at Indian Red Cross Society. The NSS Unit of the college is keeping a record of these routine blood donations.

NSS also observed **National Youth Day** on January 12, 2015 marking the 152nd birth anniversary of Swami Vivekanand. This day was also marked by an oath taking ceremony in which the youth pledged to be responsible for their acts and their effect on surroundings.

NSS unit at ANDC has adopted five villages in Delhi- Okhla, Kotla Mubarkpur, Khanpur, Kilokari and Zamrudpur with an aim to turn them into Adarsh Villages. The NSS members visit these villages on regular basis, identify the problems regarding sanitation and waste disposal, sensitize the local people about importance of cleanliness and carry out cleanliness drive in these villages every six months.

### **6.1.3. Cultural Events Committee**

**Convenor: Dr. Sadanand Prasad**

The cultural events committee takes care of the fresher's welcome party, departmental farewell functions and annual cultural festival Accenture and students' farewell.

The farewell party for passing out batch was organized in April 2014 (the event in-charge for this was previous convenor **Dr. Geetika Kalra**).

The **Fresher's welcome party** was organized on August 14, 2014, individually by each department. **Accenture**, the annual cultural festival, was held on February 25-26, 2015. Mr. Avtaar Singh Kalka, M.L.A. Kalkaji, was the chief guest. Accenture had a wide inter college participation in various events like Dance (solo, group), Debate, Quiz, Singing, Treasure Hunt, Fashion Show, Rangoli and Photography. The festival was sponsored by Punjab National Bank, Kalkaji.

#### **6.1.4. Sports Committee**

**Convenor: Dr. Udaibir Singh**

The college organised a sports league from September 16 - October 10, 2014. Over 600 students participated in different sports like Cricket (10 teams), Football (11 teams), Basketball (6 teams), Volleyball (8 teams), Badminton, Athletics, Chess and Carom. The college cricket team participated in inter college cricket matches organized by Delhi Primer League (DPL). The college basketball team also participated in inter college tournament organized by the University of Delhi in October 2014.

A sports week was organized from February 2 -10, 2015. Sports Day was organised on February 12, 2015. Dr. Asha Aggarwal, the Arjuna awardee and the Deputy Director of Sports Govt. of NCT Delhi, presided over as the chief guest. Other invited sports personalities were Arjun Awardee paralympic athletes - Ms. Pragya Ghildial, Mr. Sandeep Singh Mann, Mr. Ankur Dhama, Mr. Ramanjee, Mr. Ram Karan Singh and Mr. Amar Singh. The sports activities for the day included a relay race (4 x 200 m) for students (both men and women), 100 m race (both men and women), shot-put and volleyball competition for teaching and non-teaching staff. A performance by the visually impaired music band was enjoyed by everyone. Abhishek Malik of B.Tech.Comp. Sc. II yr was awarded as the best sportsmen and Preeti of B.Sc. Physical Sciences III yr as best sportswomen of the year. The course B.Sc. Physical Sciences won the overall winner trophy and B.Sc. (H) Mathematics won the runner-up trophy.

#### **6.1.5. IT committee**

**Convenor: Dr. Pankaj Khanna**

In continuation with the propagation of **FOSS (Free and Open Source Software)** and its philosophy, the IT committee of the college organized a series of workshops for the first year students on August 25 and 27, 2014 and February 9 – 11, 2015. The core objective of these workshops was to familiarize students with Linux environment and its potentials. The workshop sessions were conducted by the



students of B. Tech. Computer Science and were a formative step in instilling the principles of FOSS effectively. A discussion on Open Office and a hands-on session with Linux helped the participants to explore a free Office Suite and the ease of Linux environment. A similar workshop was organized for faculty members on August 30, 2014 to promote FOSS paradigms.

Besides these, the committee also organized a one day workshop on using the ERP solution software for students, on January 22, 2015. Other activities included arrangements for broadcasting the Hon'ble President's address on "Parliament and Policy Making" through National Knowledge Network on January 19, 2015 and of the online lecture by the Vice Chancellor of the University of Delhi on "India in the 21st century" on January 30, 2015.

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

**Convener: Dr. Sandeep Goel**

*Dhwani*, the theatre society of the college, has always been known for its social awareness programmes and promotion of culture. With the aim of inspiring every woman to fight for her rights and freedom, *Dhwani* artists performed a musical act based on the poem *Jhansi Ki Rani* written by *Subhadra Kumari Chauhan*, at Sri Ram Centre of Arts and Culture on August 9, 2014. This cultural evening of dance, music and drama was organised by the *Three Arts Club*. The choreography, music and designing were done by members of *Dhwani*.

*Dhwani*, organised a **theatre week** from August 11-14, 2014 in the college to enthuse students towards this form of art. During the theatre week, a small act titled "Incredible India" with a message that one should always stand up against the evils of society was performed.

*Dhwani* also organized a **one week workshop** consisting of many theatre exercises during August 26-September 2, 2014. The workshop aimed to introduce students not involved in theatre about working in teams and trusting team members, coordination, techniques to perform on stage, confidence building and voice modulation etc.

The **Annual Theatre Production 2015** was staged on March 11-12, 2015 at Shri Ram Centre, New Delhi. The play titled "Kasauti, the Quest for Truth" addressed the very contemporary societal concerns integrating the trilogy of 'Mantra', 'Panchatantra' and 'Budi Kaki' as a yardstick – stories that are individual works-of-art by well-known writer of Hindustani literature, Munshi Premchand. The play showcased the belief that basic human nature to help others in need never ceases to exist, even if it gets eclipsed momentarily with the trappings of life. The play spins a web amongst the trilogy and very succinctly espouses the triumph of



age-old values including respect for elders, dedication to one's duties and selfless service to all over the demonic vice including self-centred approach. The theatrical production was designed, devised and directed by renowned theatre personality Mr. Ajay Manchanda and scripted by Mr. Anis Azmi, Secretary, Urdu Academy and Mr. Ajay Manchanda. Professor Najma Siddiqi, Former Head and Dean, Department of Education, University of Delhi, was the Chief Guest for the event.

#### 6.1.7. Career Counseling and Placement Cell

**Coordinator: Dr. Harita Ahuja**

An important component of education is to teach how to make a living. The research exposure and type of courses at our college inspires majority of the students to take up higher studies after graduation. There are only a few who want to start their career at an early stage. The Placement Cell registers final year students every year to avail the placement services of the college and the University of Delhi. Three hundred and fifty eight students have got registered with the placement cell this year and are availing the benefits offered by the Cell by way of career counseling seminars and campus recruitment drives. The college helps such students to find suitable jobs by organizing placement drives. Reputed companies such as Genpact, HDFC Life Insurance Company Ltd., WIPRO WISTA and WASE, IBM, Libsys, TCS and many others recruit students every year from our campus.

#### Net Placement Data from May 2014 to Jan 2015

S. No.	Company	No. of Selected Students
1	Concentrix (IBM)	39
2	AON Hewitt	04
3	WIPRO WASE & WISTA	31
4	Motion Punch Studios Pvt. Ltd.	01
5	Edu Tools Ltd.	03
6	Libsys Ltd.	13
7	A & A Heath Pvt Ltd.	Result Awaited
8	Genpact	58
	<b>Total Students Selected</b>	<b>149</b>

#### Course Wise Placement Data from May 2014 to Jan 2015

S. No.	Course	Students
1	B.Com. (H)	42
2	B.Sc.(H) Biomedical Science	05
3	B.Sc.(H) Chemistry	02
4	B.Sc. Physical Science (Comp. Sc.)	06

S. No.	Course	Students
5	B.Sc. Physical Science (Chemistry)	02
6	B.Sc. Physical Science (Electronics)	10
7	B.Sc. Life Science	12
8	B.Sc. (H) Zoology	02
9	B.Sc. (H) Botany	05
10	B.Sc. (H) Computer Science	42
11	B.Sc. (H) Electronics	11
12	B.Sc. (H) Physics	10
13	B.Sc. (H) Mathematics	NIL
	<b>Total</b>	<b>149</b>

## 6.2. DEPARTMENTAL ACTIVITIES

Each department has a students' society through which all co-curricular activities are planned and executed. These societies provide a platform to students to overcome their inhibitions, identify their own hidden talents, groom their organizational capabilities and leadership skills and emerge as a better individual. Besides co-curricular activities, some extra-curricular activities are also woven into the scheduled societies.

### 6.2.1. Department of Biomedical Science

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

CATHEXIS – The society of the Department of Biomedical Science organized its **inaugural lecture** on October 21, 2014 by Dr. Souvik Maiti, a senior Scientist from IGIB (CSIR) who delivered a talk entitled "*A Hitchhikers Guide to the Galaxy of Indian Science*". Dr. Maiti presented instances from his own life as well as experiences he had with a number of research students over the years and painted a very clear picture for students about the options and opportunities after B.Sc. and the advantages and drawbacks of research and Industry.

CATHEXIS organized its **annual festival** on February 3, 2015. The theme of the festival was 'Biomedical Applications of Nanotechnology'. Two talks were organized for the students, one by Professor K.C. Gupta (Ex-director IITR, CSIR) on *Modified Natural Polysaccharides as Efficient Carrier for Biomolecules* and the second by a young researcher and Ramanujam fellow Dr. Avinash Bajaj (Regional Center for Biotechnology, Faridabad) on *Nanotechnology for Human Health: A Revolution in Biomedical Sciences*. The departmental magazine '**BioMeR' 15'** was also released by

Prof. K. C. Gupta. The students organized various activities including extempore, photography competition, scientific rangoli and quiz attracting huge participation of students from other colleges too.

#### **6.2.2. Department of Botany**

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

The departmental society 'TARUMITRA' organised its **inaugural function** on September 23, 2014. Dr. V. C. Kalia from IGIB, CSIR, Delhi, delivered the inaugural lecture.

The department organised an **educational excursion** to Calicut and Wyanad in Kerala from 8-16 October, 2014 for the students of Environmental Management of B.Sc. (Hons) Botany Semester V. The students got an opportunity to know more about the diversity of habitats and the natural resources present in the Western Ghats. The Botanical Society's valedictory function was held on March 24, 2015 in which Dr. Saiyaz Khudsar, Principal Scientist from Yamuna Biodiversity Park, New Delhi delivered a talk for the students. The other activities included botanical rangoli, photography, Chai pe Charcha, crossword and Admad.

#### **6.2.3. Department of Chemistry**

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

The Chemistry society 'Abhikriya' organized its inter-college festival 'Synergia' on March 27, 2015. A lecture on *Inorganic Chemistry: Memory Lanes to Future Canvas* was delivered by Prof A. K. Singh, Department of Chemistry, IIT Delhi. The other activities of the day included paper presentation, extempore, Adzap, quiz, best out of waste and photography competitions.

#### **6.2.4. Department of Computer Science**

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

'Turing' – The Computer Science society organized its inaugural function on September 3, 2014. A talk on *Career Opportunities in Enterprise Cyber Securities and Digital Forensics* was delivered by Mr. Vidit Baxi, Director, Lucideus Training, Lucideus Tech Private Limited. He focused on the vulnerabilities of smart phones and career opportunities in the field of information security. The technical quiz was an event which saw a large participation from students. The Department Society Festival 'Overload++' was organized on March 26, 2015, in which a number of events like Clash Of Codes, Bug Hunt, Techno-Quiz, Query Load, Lan Wars and Game Droid were planned for the students.



### **6.2.5. Department of Mathematics**

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

'MATRIX', the Mathematical Society organised its society function "CRYPTOCINE" on September 26, 2014. The chief guest, Professor R.K. Sharma, an eminent Professor at IIT, Delhi delivered a lively and interactive lecture based on the theme. The other activities included poster making competition, student presentations and quiz. The event was attended by students and faculty from various colleges.

### **6.2.6. Department of Physics**

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

The Physics Society 'PHYSENTROPY' celebrated the "International Year of Light 2015" on Tuesday, February 24, 2015 as "SPECTRA 2015". Two eminent Physicists, Professor Ramesh K. Agrawal from the School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi and Professor Patrick Das Gupta from the Department of Physics and Astrophysics, University of Delhi, graced the occasion. Professor Ramesh K. Agrawal delivered his talk on "Artificial Neural Networks - Application to Physics" based on examples from real life and inclusive of high tech formulae and theory of data mining. Professor Patrick Das Gupta enlightened students and faculty about the elementary properties of light and a brief review of the developments (space-time) in the special theory of relativity by the great scientist, Albert Einstein, during the early decades of the 20th century.

### **6.2.7. Department of Zoology**

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

'Niche', the Zoological Society, organized its inaugural talk for the academic year 2014-2015 on October 13, 2014. Dr. Pawan Malhotra, Research Scientist, International Centre for Genetic Engineering & Biotechnology (ICGEB), New Delhi delivered a talk on '*Plasmodium falciparum* Cysteine Proteases-Target of New Drug Development. A brief interactive session and screening of a short documentary, "The Great Global Warming Swindle" by a British television producer Martin Durkin followed. The film aroused the concern about human acts leading to environment degradation and made the students aware about the importance and negative impact of global warming on mankind.



### 6.3. EXPLORE

Under the EXPLORE (Excursions for Peer Learning in an Open and Rejuvenating Environment) scheme offered by the college for its second year students, the Biomedical Science Department, organized a trip to **Jim Corbett National Park** and the neighbouring area between March 14 to 16, 2015. A group of 29 students, who went on the trip, got familiar with the ecology of the forest on the Himalayan foot hills. A short jungle walk along the Kosi river was also organized.

### 6.4. LIBRARY

The ANDC Library increased the number of books on its shelves by 672 and subscribed to one additional magazine.

The library organized a two day Annual Book Exhibition on August 28-29, 2014 to make the faculty and students aware of new publications or new editions of regularly used books. Publishers and book sellers like Prentice Hall of India, Unilib Book Dist. Pvt. Ltd., Asian Book Centre, Academic Books & Periodicals, Narosa Publishing House, N.R. Book Distributor, Pearson Education, S. Chand & Co., Cambridge University Press, Orange Books International, Viva Books Pvt. Ltd. and Orient Blackswan Pvt. Ltd. participated in the exhibition.

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

IEDC at ANDC has entered its fifth year, since inception. This centre, sponsored by the National Science and Technology Entrepreneurship Development Board (NSTEDB) of the Department of Science & Technology, Govt. of India aims at encouraging entrepreneurship skills in students thus turning them into job creators instead of job seekers.

The **Entrepreneurship Laboratory (EL)** set up by IEDC in 2013, encourages young minds to bring their innovative ideas to life. The lab fills the gap between a dream, an idea and a successful venture. Here, students and faculty work together on special research and consulting projects; formulate certain in-demand cost-effective products and develop business plans. IEDC endeavours to support young entrepreneurs by providing them with the education and networks critical to start successful businesses. The Lab promotes commercialization of technology and enables student entrepreneurs to turn their concepts into working business models.

The hard work done in the Entrepreneurship Lab blossomed in the form of **"ANDY"- Acharya Narendra Dev Youth – The first in-campus students' run company**, on October 1, 2013. Under ANDY, cost-effective and eco-friendly herbal soaps, herbal shampoos, sanitizers and various other personal care products are manufactured by the students. It is the first such venture in the University of Delhi, whose aim is not to earn profit but just to give confidence to the students. Everything - from designing to formulating the market strategies - is done by the students. ANDY celebrated its **first anniversary** last year (this academic session) and continues to embark on its journey to harness its potential. EL prepared gift packs for Diwali as customized "Mini Bomb", "Firework" and "Big Dhamaka" offered to the customers at the Diwali Mela 'Sahyog' with 2 free scented candles. These gift packs had different combinations of ANDY products such as hand wash, sanitizers, soaps and shampoos. The Entrepreneurship Lab's other endeavour was supplying laptop bags, T shirts (both for boys and girls) and DU logo badges to DU souvenir shop run by DUWA during Antardhvani 2015.

The continuous progress of IEDC at ANDC resulted in award of the Business Incubator (BI), the only College in the University of Delhi, in 2014, by the Ministry of Micro, Small and Medium Enterprises (MSME), Government of India. The BI will support commercialization of 10 innovative ideas. The proposals for the same were invited through advertisements in newspapers this year and the 35 applications received are being screened for final selection.

## 8. Internal Complaints Committee

The college has constituted an 'Internal Complaints Committee' in accordance with the provisions of the Sexual Harassment of Women at Workplace - Prevention, Prohibition and Redressal Act 2013, notified in the Gazette of India.

The Committee consists of the following members.

1.	Dr. Sanjeeta Rani, Associate Professor	Presiding Officer
2.	Dr. Subhash Kumar, Assistant Professor	Member /Teaching Staff
3.	Ms. Kanika Chadha, Museum Curator	Member /Non-Teaching Staff
4.	Prof. Vibha Maurya	Co-opted External Member
5.	Mr. Nakul Sawhney	Co-opted External Member

The objective of the committee is to safeguard the fundamental right of a woman to equality as enshrined in the constitution of India. It endeavors to protect a woman's right to live with dignity and practice her profession in a safe environment, free from sexual harassment.



## 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. We, at ANDC, try to bring each student to a level where he/she overcomes his/her weaknesses by a little encouragement and the opportunities provided by the college. To achieve this, various add on courses are run by the college every year.

### 9.1. EFFECTIVE COMMUNICATION AND PERSONALITY DEVELOPMENT THROUGH THEATRE (ECPDT)

**Course Coordinator: Dr. Sandeep Goel**

Running successfully since the last 5 years, the ECPDT course, designed and run by Mr. Ajay Manchanda, an eminent theatre personality, has become the most popular add-on course among students. The college started its **Sixth ECPDT** batch of 34 students on August 9, 2014; with a three hour class each on Saturdays and Sundays. The students were trained by Mr. Abdul Latif Khatana, Dr. Suwarn Rawat, Ms. Neelam Gupta, Mr. Yuvraj Sharma, Mr. Anis Azmi, Mr. Hafeez Khan, Mr. Bhoomikeshwar Singh and Mr. Avtar Sahni, all being well-acclaimed theatre personalities.

The course **culminated** on October 17, 2014 with a formal ceremony in which Dr. Nita Kumar, Associate Professor, SPM College was the Chief Guest and Ms. Manpreet Kaur, Assistant Professor, SPM College was the Guest of Honour. A group report was also presented by the students in which they gave descriptions of the transformation they have experienced in themselves after joining the course. 26 students were certified to have completed the course.

### 9.2. ENGLISH LANGUAGE PROFICIENCY COURSE (ELPC)

**Course coordinator: Mr. Manoj Garg**

The College administration has observed that a large number of students, especially those coming from the rural background, find it extremely difficult to cope with teaching because of their weak foundations of English language. These students gradually lose their interest in. To reinforce their language skills, College offers an English Language Proficiency Course. 25 students enrolled themselves for the course and 17 out of them qualified it finally.



### 9.3. FOREIGN LANGUAGE COURSES

**Course Coordinator: Dr. Geetu Gambhir**

Started eleven years back, the foreign language centre of ANDC, is one of the most popular centers in the University. This year also ANDC continued with the self-financed, University of Delhi recognized, one year part-time certificate and diploma courses in French, German and Spanish. A total of 125 students were enrolled this year. The discipline and the regularity maintained in the foreign language centre results in the best guest faculty being appointed by the University for this centre.

### 9.4. CERTIFICATE COURSE IN BIOINFORMATICS AND IN SILICO DRUG DISCOVERY

**Course Coordinator: Dr. Gagan Dhawan**

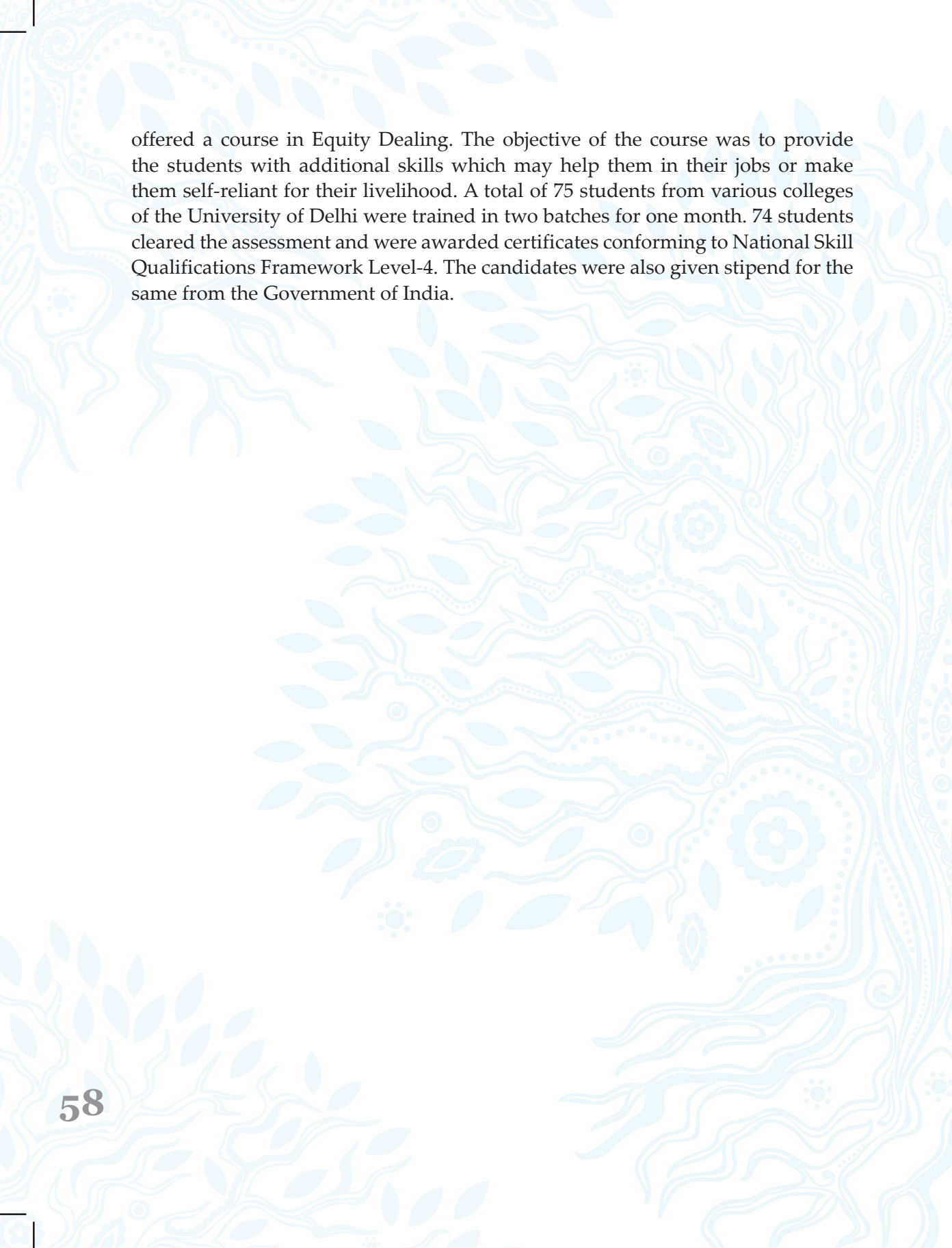
The course, **Bioinformatics and *In Silico* Drug Discovery**, offered by the Department of Biomedical Science, ANDC in collaboration with Bhaskaracharya College of Applied Sciences, has successfully trained two batches. This year 42 students from three college viz. Acharya Narendra Dev College, Bhaskaracharya College of Applied Sciences and Shaheed Rajguru College of Applied Sciences for Women were trained.

The primary aim of this 128-hour long course is to suit the fast-track needs of bioinformatics and *in-silico* drug discovery divisions of pharmaceutical companies and research organizations. Keeping this in view, 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. This course includes both lectures and hands-on sessions on biological databases, sequence and microarray analyses, phylogenetic analysis, importance of Bayesian statistics, molecular modeling and protein-drug docking.

### 9.5. STAR SCHEME FOR SKILL DEVELOPMENT (DU-NSDC)

**Course Coordinator: Dr. Abhishek K. Mehta**

Under the initiative of National Skill Development Corporation (NSDC), Govt. of India and the University of Delhi, the college conducted skill development courses in June 2014. Acharya Narendra Dev College was one of the ten colleges selected by the University to launch this pilot project. In association with IL&FS Institute of Skills, Delhi, who was the academic private partner of NSDC, the college



offered a course in Equity Dealing. The objective of the course was to provide the students with additional skills which may help them in their jobs or make them self-reliant for their livelihood. A total of 75 students from various colleges of the University of Delhi were trained in two batches for one month. 74 students cleared the assessment and were awarded certificates conforming to National Skill Qualifications Framework Level-4. The candidates were also given stipend for the same from the Government of India.

## 10. College Development

### 10.1. INFRASTRUCTURE

The College expanded its built-up area by adding

1. **An entire new block with three floors.** The new block became functional from January 2015 onwards. The ground floor consists of one Seminar Hall, one classroom, one BMS Laboratory and one store. The first floor is exclusively used by the Zoology Department and consists of one staffroom and three laboratories. The second floor consists of three classrooms and one Computer Science laboratory (with a capacity of 60 computers).
2. **A new Chemistry laboratory.** The new lab was constructed on the first floor of the existing Chemistry lab. This additional lab, with a capacity of 60 students also became functional from January 2015 onwards.
3. **Rain protection shade.** To ease the movement of faculty and students from one block to another during the rainy season, a rain protection shade has been added from the front parking to the main building and from the semi-permanent structures to the canteen. This shade has been in use since September 2014.
4. **Semi-Permanent Structures.** Three semi-permanent (SPS) rooms have been constructed and are used for providing photocopying facility and stationary items etc. on payment to students and faculty.
5. **Faculty Room.** The existing faculty room was expanded with separate rooms for Mathematics and Commerce Departments, a kitchen and washrooms. The renovated Faculty room is in use from January 2015 onwards.

The college also improved the existing infrastructure by replacing existing false ceilings in SPS class rooms and porta structures with Armstrong false ceilings in November 2014.

The college also purchased College Automation Software, lectern (Digital podium), ceiling fans, musical instruments (Casio, Congo with stand, D, Jambae, Rockstar Octapod, Acoustic Guitar), microwave ovens (03) and sports equipment (Shot-put (4, 6 and 7.26 Kg), Discus (1, 1.5 and 2 Kg), Toe board, Barbell set, Weight Training Rod, Weight Training Plates, Bench Magnum Weight and Line Marking machine) from the Vice Chancellor's special grant received during 2013-14.

## 10.2. FINANCIAL GRANTS RECEIVED

### 10.2.1. Grant Received from the University of Delhi

#### 10.2.1.1. Grants received in the form of Award Money

Best Practices Award - Antardhvani 2015	March 2015	Rs. 10,00,000
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#### 10.2.1.2. Grants received for Innovation Projects

S. No .	Details of the Projects	Amount (Rs.)
1	DU Innovation Projects (ANDC-201, ANDC-202, ANDC-203, ANDC-204)	20,50,000

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

Type of Grant received	Funding Agency	Amount Sanctioned (Rs.)	Received during 2014-2015 (Rs.)
Establishment of an Innovation and Entrepreneurship Development Centre (IEDC) (2010-2015)	DST	27,55,000	5,07,501
OSDD Project entitled 'Mtb Mur Pathway Enzymes: Potential Candidates for Multi Targeted Therapy' (2013-2015)	CSIR	30,38,000	7,44,000
Project entitled 'Investigating Science Hands-on to Promote Innovation & Research at Undergraduate Level'. (2009-2012)	UGC	10,96,000	2,49,648 (Balance Grant)
Project entitled 'Larvicidal Properties of Certain Botanicals Against Mosquito Larvae – an Alternative for Mosquito Control'. (2009-2012)	UGC	10,54,000	2,36,168 (Balance Grant)



### 10.2.3. Infrastructural Grants Received from the Directorate of Higher Education

S. No.	Name of Work	Sanctioned Amount (Rs.)
1.	Extension of the Department of Computer Science staff room and Physics laboratory.	5,34,600
2.	Construction of SPS type storage	7,71,300
3.	Replacement of damaged AC sheet to GI profile sheet Instrumental laboratory	5,31,800
4.	Construction of SPS type 2 security rooms and shade for two wheeler parking	5,20,100
5.	Jungle clearance and disposal of building rubbish and security arrangement at the newly allotted college site at Sector-5, Rohini.	8,81,000

## Research Publications By Faculty And Students

### Peer Reviewed Journals

1. **Agarwal S**, (2014) **Ramanujan Inner Product Space-I**, *International Journal of Trends in Mathematics and Statistics*, Vol.3 (4), pp: 152-157.
2. **Arya DK**, Verma A, Singh D and Kachhawa JBS (2013) **A Review on Pharmacological/biological Activities of Different Derivates of Phenothiazines**. *International Journal of Environment and Animal Conservation*, 2: 24-31.
3. **Arya DK**, Verma A, Singh D and Kachhawa JBS (2013) **Synthesis of 4H-1,4-Benzothiazine-1,1-dioxides (Sulfones)**. *Medicinal Drug Research*, 1: 5-9.
4. **Bhatnagar V**, **Kaur S** and Chakravarthy S (2014) **Clustering Data Streams Using Grid-based Synopsis**. *Knowledge and Information Systems*, 41: 127-152.
5. **Das P**, Solanki R and **Khanna M** (2014) **Isolation and Screening of Cellulolytic Actinomycetes from Diverse Habitats**. *International Journal of Advanced Biotechnology and Research*, 3: 438-451.
6. **Dhawan G**, Chandra R, Gupta K C & Kumar P (2015) **Facile and Rapid Deprotection Conditions for the Cleavage of Synthetic Oligonucleotides from 1,4-Anhydroerythritol-based Universal Polymer Support** in *Nucleosides, Nucleotides and Nucleic Acids* (Taylor & Francis Group, UK).34:3, 149-162.
7. **Deb S** (2014) **Variational Monte Carlo technique: Ground State Energies of Quantum Mechanical Systems**. *Resonance*, 19: 713-739.
8. **Deb S** and. Singh HP (2014) **Chemical and Structural Analysis of the Large Magellanic Cloud Using the Fundamental Mode RR Lyrae Stars** *MNRAS Advance Access* (Doi:10.1093 /mnras/stt2361)
9. **Deb S**, Singh H P, **Kumar S** and Kanbur S M (2015), "Morphology and metallicity of the Small Magellanic Cloud using RRab stars" *Monthly Notices of the Royal Astronomical Society*, (Accepted MN-14-3373-MJ.R2),
10. **Dey A**, **Deb S**, **Kumar S**, Bhardwaj H, Bhattacharya B, Richa , Sharma A, Chauhan A, Tiwari N, Kaur S, Kumar S and Abhishek, (2015) **Light Curve Modeling of Eclipsing Binaries Towards the Constellation of Carina**, *Journal of Undergraduate Research and Innovation*, Vol.1 (1).
11. **Garg A**, Bhardwaj SR, Kumar R, Tyagi S and Shudhanshu AK (2014) **Development of Low Cost and User Friendly Medical Diagnostic Tools**, *Journal of Basic and Applied Engineering Research (JBAER)*, 1: 80-83.

12. **Garg A, Kumar A, Kumar S R, Bharadwaj R, Tehri R and Samal CK (2014) Development of Open Source Low Cost Wireless Data Acquisition Systems for Science Experiments.** *International Journal of Information and Computation Technology*, 4: 1123-1128.
13. **Garg M K (2014) Quest for Identity in Shashi Deshpande's Novel: The Dark Holds No Terrors.** *Online International Interdisciplinary Research Journal*, 4: 447-452.
14. **Khandelwal D, Hooda S, Brar AS (2014) Microstructure Determination of Isobornyl Methacrylate-styrene Copolymer by NMR Spectroscopy.** *Journal of Polymer Research*, 21: 377.
15. **Khanna M, Das P and Solanki R (2014) Isolation and Screening of Cellulolytic Actinomycetes from Diverse Habitats.** *International Journal of Advanced Biotechnology and Research* Vol. 5 (3) 438-451.
16. **Kidwai M, Jain A, Singh S, Nemaysh V and Luthra PM (2013) An Investigatory Study of the Antibacterial Activity of the Functionalized Spiro Oxindoles.** *Indian Journal of Chemistry*, 53: 399-411.
17. **Kumar N, Chakrabarty S, Badola S, Narang S, Gupta C K and Chowdhuri A (2014) Low Cost 'Smart' Switch for Designing Electronic Nose (e-nose) for Gas Sensing Applications.** *Advanced Research in Electrical and Electronic Engineering*, 1: 35-37.
18. **Kumar N, Tirupathi P, Kumar B, Pastor M, Pandey A C and Choudhary R N P (2015) Observation of Dielectric Relaxor Behavior in  $\text{Pb}_{0.95}\text{Sr}_{0.05}(\text{Zr}_{0.5}\text{Ti}_{0.5})\text{O}_3$  Ceramics,** *Advanced Materials Letters* (Accepted) (AML1405618)
19. **Kumar S, Mishra M, Wahab N and Warikoo R (2014) Larvicidal, Repellent and Irritant Potential of the Seed-derived Essential Oil of Apium Graveolens Against Dengue Vector, Aedes aegypti L. (Diptera: Culicidae).** *Frontiers in Public Health*, 2: 1-7.
20. **Malhotra R and Khanna M (2014) The Ability of Search-based Algorithms to Predict Change Prone Classes.** *Software Quality Professional*, 17: 17-31.
21. **Malhotra R, Gupta V and Khanna M (2014) Applicability of Inter-project Validation for Determination of Change Prone Classes.** *International Journal of Computer Applications*, 97 (8): 1-8.
22. **Mishra M and Kumar S (2014) Impact of Stem Extracts of Yellow Oleander, Thevetia neriifolia (Apocynaceae) on the Feeding Potential of IV Instars of Gram Pod borer, Helicoverpa armigera Hübner (Lepidoptera: Noctuidae).** *International Journal of Advanced Life Sciences*, 7: 408-416.



23. Pastor M, Kumar N, **Kumar B**, Panwar A, Biswas K, Pandey A C, (2014) **Study of Diffuse Phase Transition in  $\text{Pb}(\text{Cd}_{1/3}\text{Nb}_{2/3})\text{O}_3$  Compound**. *Journal of Alloys and Compounds* 615: 40–46.
24. Shudhanshu A K, **Garg A**, Kumar R, Bharadwaj S R and Singh G (2014) **Innovation in Basic Science Laboratory Through Sensors and Open Source Technology**. *International Journal on Recent Trends in Engineering and Technology*, 11: 313-319.
25. Singh H, **V. B Raj**, Kumar J, Mittal U , Mishra M, Nimal AT,. Sharma MU, Gupta V (2014) **Metal Oxide SAW E-nose Employing PCA and ANN for the Identification of Binary Mixture of DMMP and Methanol** *Sensors and Actuators B* 200: 147–156
26. **Singh S**, Kulkarni M G and Staden J V (2014) **Biochemical Changes Associated with Gibberellic Acid-like Activity of Smoke-water, Karrikinolide and Vermin Compost Leachate during Seedling Development of Phaseolus Vulgaris L.** *Seed Science Research*, 24: 63-70.
27. Sinha A, Eniyan K, Sinha S, Lynn A M, **Bajpai U** (2015) **Functional Analysis of TPM Domain Containing Rv2345 of Mycobacterium Tuberculosis Identifies its Phosphatase Activity** *Protein Extraction and Purification*. (Accepted. ISSN. 1046-5928)
28. Tiwari S, Pokhriyal A, Rawat P, **Gupta C K**, Narang S and Chowdhuri A (2014) **Using Mobile Phones with Android OS for Measuring Hazardous Gas Concentrations Detected Using Electronic Nose (e-nose)**. *Advanced Research in Electrical and Electronic Engineering*, 1: 25-27.
29. Warikoo R and Kumar S (2014) **Impact of the Argemone mexicana Stem Extracts on the Reproductive Fitness and Behaviour of Adult Dengue Vector, Aedes aegypti L. (Diptera: Culicidae)**. *International Journal of Insect Science*, 6: 71-78.
30. Warikoo R and **Kumar S** (2014) **Oviposition Altering and Ovicidal Efficacy of Root Extracts of Argemone mexicana Against Dengue Vector, Aedes aegypti L. (Diptera: Culicidae)**. *Journal of Entomology and Zoology Studies*, 2: 11-17.
31. Utpal A, Tyagi A, Kumar A, Gaurav A, Singh A, Tiwari A K , Singh A, Kalha B, Bhatt B , Yadav B, Kumari D, Rohira H, Bhatt H, Kumari K, Vashistha K, Singh K, Khairunnisaa, Kumar M, Sharma N, Yadav P, Sharma R, Arora R, Pokhriyal R, Siddiqui S, Mishra S, Kapur S, Nanda S, Kingar S, Raj S, Channa V, Bhardwaj V, Kandasamy E and **Bajpai U** (2015) **Building a Repository of Potential Drug Targets in Mycobacterium Tuberculosis by Crowd Sourcing**. *Journal of Undergraduate Research and Innovation*, Vol.1 (1), page 1-13.



## International Conferences/Symposia

1. Abraham JS, Gupta R, S. Sripoorna, Toteja R and Makhija S (2014) **Morphology, Morphogenesis and Molecular Phylogeny of *Notohymena* sp. (Ciliophora; Oxytrichidae) isolated from Sanjay Lake, Delhi, India**, 2<sup>nd</sup> Asian Congress of Protistology and Ninth Asian Conference on Ciliate Biology organized by Kalyani University, Kalyani, India on November 27-29.
2. Azhar S, Singh P, Narang S, Kumar S, Gupta C K and Chowdhuri A (2014) **An Investigation of CO<sub>2</sub> Generation Characteristics of Commercially Available Antacid (ENO) of Different Flavours (Cola, Orange and Lemon)** - Proc. of 1st Indo – UK seminar on Recent Advances in Chemical Sensors (UGC-UKIERI IUCRACS-2014) organized by Gargi College (University of Delhi), New Delhi, INDIA on February 10-11, pp 28.
3. Chowdhuri A and Gupta C K (2014) **An Investigation of the Physico-chemical Parameters of Water Samples in Delhi: Estimating Potable Quality and Assuaging Human Health Concerns** - Proc. of 7th International Congress of Environmental Research (ICER – 2014) held at RVC College of Engineering, Bengaluru, INDIA pp 266 [ISBN : 978-81-909379-7-9] on December 26 – 28.
4. Chowdhuri A, Rehman P, V B Raj and Garg A (2014) **Effect of Spinner Rotation Speed and Post-annealing on the Optical Constants of ZnO Thin Film** - Proc. of International Conf. on Innovative Trends in Applied Physical, Chemical, Mathematical Sciences and Emerging Energy Technology for Sustainable Development (APCMET-2014) held at Jawahar Lal Nehru University, New Delhi, INDIA on April 19 – 20.
5. Gupta C K and Chowdhuri A (2014) **Indoor and Outdoor Pollutant Gas Sensing Using Ultra Low-cost Electronic Nose** - Proc. of 7th International Congress of Environmental Research (ICER – 2014) organised by RVC College of Engineering, Bengaluru, INDIA held on December 26 – 28, pp 625 [ISBN : 978-81-909379-7-9]
6. Gupta R, Makhija S, Toteja R, Abraham J S and S. Sripoorna (2014) **Oxytrichid Ciliate Biodiversity from the River Yamuna, Delhi, India**. 2nd Asian congress of Protistology and Ninth Asian Conference on Ciliate Biology organized by Kalyani University, Kalyani, India from November 27-29.
7. Gupta R, Makhija S and Toteja R (2014) **Soil ciliate (Protozoa, Ciliophora) Diversity in and Around Delhi, India**. 3rd IRCN-BC Workshop held at

Royal Holloway, University of London, U.K. on September 1-3.

8. **Hooda S (2014) Comparative Study of Nano Paclitaxel and Nano *Zingiber officinale* Extract Encapsulated in NIPAAm/VP Polymeric Micelles against Cancer**, in 1st International Conference On “Emerging Trends of Nanotechnology in Drug Discovery” held on May 26-27, Jointly organized by Department of Chemistry, Sri Venkateswara College, University of Delhi and University of Madeira, Portugal.
9. **Hooda S and Kumar A (2014) Synthesis and Characterization of Nanosilica Particles with Poly (Acrylamide-co-Acrylic Acid)**. Published in proceeding of first International Conference On “Emerging Trends of Nanotechnology in Drug Discovery” jointly organized by Department of Chemistry, Sri Venkateswara College, University of Delhi and University of Madeira, Portugal on May 26-27. Poster: PP-91, page -105.
10. **Jafar A, Srivastava A, Dubey A, Chowdhuri A and Gupta C K (2014) Evaluation of Physico-chemical Parameters of Potable Water in Delhi: Human Health Concerns** - Proc. of 1st Indo – UK seminar on Recent Advances in Chemical Sensors (UGC-UKIERI IUCRACS-2014) organized by Gargi College (University of Delhi), New Delhi, INDIA on February 10 -11, pp: 28.
11. **Jetly S. (2014) Efficient Detection of Chronic Myeloid Leukaemia** at the 19th congress of European Haematology Association at Milan, Italy June 12-15.
12. **Kumar N, Chakrabarty S, Badola S, Narang S, Chowdhuri A and Gupta C K (2014) Low Cost ‘Smart’ Switch for Designing Electronic Nose (E-Nose) for Gas Sensing Application** - Proc. of 2nd International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical, Statistical Sciences and Emerging Energy Technology for Sustainable Development” (APCMSET-2014), organised by Jawaharlal Nehru University, INDIA on July 19–20.
13. **Kumar S, Dhingra V, Garg A and Chowdhuri A (2014) Gas Sensing Characteristics of Graphene Oxide Loaded with Nanocrystalline ZnO Clusters** –Proc. of International Conference on Recent Advances in Nanoscience and Nanotechnology (ICRANN 2014) organised by Special Centre for Nanoscience Jawaharlal Nehru University, New Delhi, INDIA on December 15 –16, pp 91.
14. **Kumar S, Toteja R and Charu K. Gupta (2014) Creation of E-museum as Open Educational Resource Repository of Organisms for Students of**

- Biological Sciences.** Presented at International conference 'OCWC Global 2014' held at Ljubljana, Slovenia from April 23-25.
15. **Makhija S, Gupta R and Toteja R (2014) Diverse Freshwater Ciliate Fauna from Okhla Bird Sanctuary, Delhi, India.** 3rd IRCN-BC Workshop held at Royal Holloway, University of London, U.K., September 1-3.
  16. **Malhotra R and Khanna M (2014) A New Metric for Predicting Software Change using Gene Expression Programming.** WETSoM 2014 (5th International Workshop on Emerging Trends in Software Metrics), In Proceedings of 36th International Conference of Software Engineering, May 31-June 7, page 8-14.
  17. **Malhotra R and Khanna M (2014) Analyzing Software Change in Open Source Projects using Artificial Immune System Algorithms,** ICACCI 2014 (3rd International Conference on Advances in Computing, Communications and Informatics September 24-27), 2674-2680.
  18. **Malhotra R and Khanna M (2014) Examining the Effectiveness of Machine Learning Algorithms for the Prediction of Change Prone Classes.** HPCS 2014 (International Conference on High Performance Computing and Simulation July 21-25), 635-642.
  19. **Narang S (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.
  20. **Rawat P, Kumari N, Sharma S, Biswas S, Gupta S and Jain M (2014) Environment Management by Chemical Waste Treatment and Recycling at the Source in International Conference** on Harnessing Engineering Technology and Innovation for Sustainable Development organized by Dr. S. S. B. University of Chemical Engineering and Technology, Punjab University, Chandigarh on September 19-20.
  21. **S Sripoorna, Makhija S, Abraham J S, Gupta R and Toteja R (2014) Inferring Phylogenetic Position of an Indian Isolate *Tetmemena* sp. (Ciliophora, Oxytrichidae) Using Morphological, Morphogenetic and Molecular Markers.** 2<sup>nd</sup> Asian congress of Protistology and Ninth Asian Conference on Ciliate Biology organized by Kalyani University, Kalyani, India from November 27-29.
  22. **Tiwari P, Pokhriyal A, Rawat P, Chowdhuri A, Narang S and Gupta C K (2014) Using Mobile Phones with Android OS for Measuring Hazardous Gas Concentrations Detected Using Electronic Nose (E-Nose) -** Proc. of 2nd



International Conference on Innovative Trends in Applied Physical, Chemical, Mathematical, Statistical Sciences and Emerging Energy Technology for Sustainable Development" (APCMSET-2014), held at Jawaharlal Nehru University, New Delhi, INDIA on July 19 – 20.

23. **Toteja R, Makhija S, S. Sripoorna, Abraham J S and Gupta R (2014) Influence of Copper and Cadmium Toxicity on the Activity of an Antioxidant Enzyme, Superoxide Dismutase in Freshwater Ciliates.** 2<sup>nd</sup> Asian congress of Protistology and Ninth Asian Conference on Ciliate Biology organized by Kalyani University, Kalyani, India. (Dr. Toteja and Dr. Makhija were also the Member of Organising Committee for this Conference)
24. **Yadav D, Mohd A F, Kumar A, Mohd Tayab, Hooda S and Mohd Asif, Comparative Study of Nano Paclitaxel and Nano Zingiber officinale Extract Encapsulated in NIPAAm/VP Polymeric Micelles against Cancer.** Published in proceeding of First International Conference On "Emerging Trends of Nanotechnology in Drug Discovery" Jointly organized by Department of Chemistry, Sri Venkateswara College, University of Delhi and University of Madeira, Portugal, held on May 26-27, 2014. Poster: PP-104, page-118.

## National Conferences/Symposia

1. **Agarwal S (2014) Solvability of Groups** in International Conference on Algebra, Geometry, Analysis and their Applications (ICAGAA-14 ) organised by the Department of Mathematics, Jamia Millia Islamia, New Delhi(Under UGC program) from November 27-29.
2. **Bajpai U, Mehta AK (2014) Crowdsourcing Undergraduates in Investigating the Diversity of Mycobacteriophages in India and Exploring their Potential as Source for anti-Mycobacterial Active Biomolecules: A Pilot Study** in National Symposium on Understanding the Mechanism and Challenges of Complex Diseases (UMCDD) organized by Shaheed Rajguru College of Applied Science, University of Delhi on December 29-30.
3. **Chaudhary R, Jatwani M, Shristi, Kumar Y, Ansari A, Nandwani A and Monika (2014). A Comparative Study on the Kinetic Parameters of Enzyme Acid Phosphatase Sourced from Different Sprouts in National Symposium on Understanding the Mechanism and Challenges of Complex Diseases (UMCDD)** organized by Shaheed Rajguru College of Applied Science, University of Delhi on December 29-30.



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