

17th Annual Day

Thursday, 17th April 2014

Principal's Report

“Purity, patience, and perseverance are the three essentials to success”

With this quote of Swami Vivekananda, I take the opportunity to welcome our esteemed guests on the dais, our dearest students, their proud parents, our dedicated faculty and hardworking staff to this significant occasion of our institution; our 17th Annual Day Celebration.

On behalf of Bhaskaracharya family, I welcome our Chief Guest Prof. Sushma Yadava, Pro-Vice Chancellor, Indira Gandhi National Open University. We are also honoured to have our Guest of Honour Padmashree Prof. (Dr.) Mahesh Verma, Director-Principal, Maulana Azad Institute of Dental Sciences. We also have Chairman of our Governing Body Prof. K. Sreenivas amongst us, presiding over this function. It gives me immense pleasure to welcome all the dignitaries.

The foundation of our college was laid in October, 1995 and was named after the great mathematician of 12th Century, Bhaskaracharya. It is a constituent college of the University of Delhi and 100% funded by Government of National Capital Territory of Delhi. The objective of our institution is to give an overall impetus to its students for their holistic development so that they not only excel in academics but also in life.

Compared to the history of University of Delhi, our college is still in its nascent stage. But we can still proudly claim to be the only college in the University of Delhi to offer five B. Tech courses. We have the unique distinction of imparting training leading to B. Tech in disciplines of Computer Science, Electronics, Instrumentation, Food Technology, Polymer Science and also Honours courses in Biomedical Science, Physics and Microbiology. At present, our college has enrolled strength of 1100 students. The Four Year Undergraduate Programme was introduced by the University of Delhi last year and enrolled around 395 students.

Our college aims to provide a platform to our students so that they can explore and identify their latent potential and help them bloom. With this perspective in mind, classroom teaching in our college is supported by seminars, industrial tours, project training. The college also organizes various Extra-Curricular, Co-curricular and Sports activities throughout the year, keeping in mind these activities that fall outside the realm of the usual curriculum also play a vital role in building and shaping the character of the students.

Today, I am happy to welcome **Dr. Sumeet Kaur**, our Alumnus of 2003-2006 batch from the Department of Food Technology who has been chosen for the Distinguished alumni award for the year 2013-14. At present she is working as Post-Doctoral Fellow in Himalaya Drug Company at Bangalore.

The college is very proud to honour **Major Vaibhav Gupta** from 2001-2004 batch of B.A.Sc.(H) Instrumentation for inspiring young minds. He is a qualified Weapon Technologist. He had encountered and killed 03 terrorists during his posting at Srinagar.

I congratulate the families of Dr. Sumeet Kaur and Major Gupta on achievement of their respective wards.

Each academic year lays the foundation for new ideas and scope for improvement in the year to come.

College has made immense strides during the academic year 2013-14 towards creating the constructive, fearless but disciplined environment for teaching, learning and academic creativity.

I take this opportunity to highlight the achievements of academic session 2013-14:

In the past few years, our hardworking students bagged many University positions. This year, top University position was achieved in Polymer Science by **Ms. Chhavi Verma** and in Biomedical Sciences by **Mr. Shubham Kesarwani**. I congratulate both of them.

In the year 2008, the College instituted the “Best Student Award” for holistic performance of a student in the College. From the year 2011, it was decided to confer two awards i.e. one for the Best Student (Male) and other for the Best Student (Female). The evolved criteria include good performance in academic excellence, active participation in co-curricular and extra-curricular activities. I take this opportunity to announce the names of Best Student(s) for the year 2013-14. This year, the **Best student (female) award** goes to **Ms. Vasundhra Sharma** from Computer Science Department and Best student (male) award goes to **Mr. Devanshu Gupta** from Department of Polymer Science. I congratulate both for being selected as Best Student(s) on behalf of the entire Bhaskaracharya family.

I also announce Deepika Wanganoo Memorial Award 2013 being conferred to **Ms. Deepika Pahuja**, who bagged first position in the 2010-2013 batch of B. Sc. (H) Electronics. I would like to mention here that Deepika Wanganoo was a former student of Department of Electronics. In her fond memory, her parents have initiated this award.

Here, I would like to make an announcement that from this year, a memorial prize has been initiated by the parents of Mr. Saurabh Grover, a former student of our college from Department of Physics. This award is being conferred to the student who bags the first position in B. Sc. (H) Physics. This year the award goes to **Ms. Chetna Beniwal**.

I would like to make an announcement here that **Mr. Abhinav Abhishek, IIIrd Year** student from Department of Instrumentation has been selected for **POSCO Asia Fellowship** by the University of Delhi for the consequent second year. I congratulate him.

From the academic year 2012-13, the University of Delhi initiated the Innovation Project Scheme for inter-disciplinary research in Colleges. The College successfully completed five projects under this scheme in the year 2012-13 and two patents from one of the projects has been filed by the University of Delhi. This year under this scheme, nine projects from our College have been selected. I congratulate all the Principal Investigators of these projects.

From this forum, I take this opportunity to announce that the Department of Food Technology of our college has been awarded **STAR Department Status** by the Department of Biotechnology, Government of India from September, 2013.

Our college aims to update students about the new developments in research and industry by inviting speakers from diverse fields. Each Department of the college has its own academic society. These societies not only organize several seminars delivered by experts from industry and academic institutions to apprise the students about the latest developments in the respective fields but also hold workshops, symposiums and conferences. The following speakers visited our college in this academic session:

1. Prof. K. Natrajan, Director, ACBR
2. Dr. Pushkar Sharma, National Institute of Immunology

3. Dr. Pawan Malhotra, ICGEB
4. Dr. Deepak Saini, IISc, Bangalore
5. Dr. S. Ramachandran, IGIB
6. Dr. Anshu Bhardwaj, IGIB
7. Dr. Vipin Singh, Amity University
8. Prof. Daman Saluja, ACBR
9. Mr. Stuart Easter, University of Edinburgh
10. Prof. M.R. Rajeswari, All India Institute of Medical Sciences
11. Prof. N.S. Raghava, Head, Department of Computer Center, Delhi Technological University
12. Prof. B.R. Mehta, Department of Physics, IIT Delhi
13. Prof. M.R. Shenoy, Department of Physics, IIT Delhi
14. Mr. John Ruff, President, Institute of Food Technologists
15. Prof. Rama Rao, Cornell University
16. Prof. Antal Veba, Faculty of Engineering, University of Szeged, Hungary
17. Prof. Emo Gyimes, Faculty of Engineering, University of Szeged, Hungary
18. Dr. Sandip Chatterjee, Additional Director. Department of Electronics and Information Technology, Govt of India
19. Dr. Ashish Chaturvedi, Senior Technical Advisor, Indo German Environment Partnership
20. Shri Pranshu Singhal, Head, Sustainability, Nokia India Pvt. Ltd
21. Prof. Sachin Maheshwari, Head, Department of Manufacturing Processes & Automation Engineering, Netaji Subhash Institute of Technology, Delhi
22. Dr. Ashutosh Mohan, Associate Professor, GGS Indraprastha University
23. Dr. Anjana Neira Dev, Senior Faculty, Gargi College
24. Ms. Arti Saxena, TIME
25. Dr. Suman Govil, Adviser, HRD Division, Department of Biotechnology
26. Dr. Mukesh Kumar Head, IHD, Indian Council of Medical Research
27. Prof. S.C. Bhatla Head, Department of Botany, University of Delhi
28. Prof. S D Shikhamany, Project Advisor, Administrative Staff College of India (ASCI), Hyderabad
29. Prof. R.C. Kuhad, Department of Microbiology, University of Delhi
30. Prof. Nagendra P. Shah, University of Hong Kong
31. Prof. Rameshwar Singh, Project Director, ICAR
32. Prof. Avinashi Kapoor, Professor, Department of Electronic Science, University of Delhi South Campus and Joint Dean, Student Welfare
33. Prof. Patrick Das Gupta, Department of Physics, University of Delhi.

Now, I present before you the brief report on various other activities and achievements of the College during the year 2013-14.

Departments of Microbiology and Biomedical Sciences jointly organised Two Days National Symposium on Infectious Diseases: Advancements in Diagnostics, therapeutics and vaccines during 20-21 March, 2014.

Departments of Instrumentation organised a Two Day workshop on Line Follower Robotics in collaboration with EFY Group, publishers of Electronics for You magazine during 11-12 March, 2014.

Departments of Electronics organized National Workshop on VLSI designing using VERILOG in collaboration with JB Tech India during 16-18 July, 2013.

Joining a College club is a great way to meet students from various departments of the college, have fun, pursue one's cultural interest and be a part of the college life. All the students of the college are required to join a club to engage themselves in various activities and enhance their skill(s) through their contribution in the clubs. The college has several clubs like Astronomy Club, Eco Club, Debate Club, Quiz Club, Dramatics and Fine Arts, Music club, Dance Club, Mountaineering and Trekking, Film Club and Photography Club. The literary Club of the College organized '**Literary Festival**' in which many eminent poets participated. The Astronomy Club "**VYOM**" organised a seminar on "**Gravitational Waves**". The film club also organized an Inter-college event on "**Short Film Making**". The Film Club of the College produced and directed a short film titled "Jamnagar Sector-13" which had been screened in 2nd Delhi International Film Festival, 2013. The ECA Committee of the College organized a two day Inter-college Cultural festival **Srijan-14**, in which teams from various colleges participated.

To bring out the creative skills of the College students, the College brings out the College magazine, **Resonance** every year, which gives students and staff an opportunity to express their literary talent. The magazine has articles both in English and Hindi.

Our college has a '**Gender Sensitizing Committee**' consisting of teachers, students and non-teaching staff. The College is very sensitive to the needs of the **differently abled members** of the college community. To make the stay of some of these members little more **conformable**, the college has already inaugurated a ramp connecting the ground floor to the first floor of the college. We also hope to install a lift by next year.

From this platform I congratulate **Dr. Geeta Mongia**, Associate Professor, Department of Electronics, for being conferred with the '**Best Teacher Award**' for the academic year 2012-13 by the Directorate of Higher Education, Government of NCT of Delhi. I am pleased to announce that **Dr. Geeta Bhatt**, Associate Professor, Department of Instrumentation has been honoured with this award for the year 2013-14.

I really appreciate the team work of teachers, non-teaching staff and students striding hard to take the College to new heights. I take this opportunity to thank the Governing Body of the College for their valuable guidance, suggestions and support. I thank the Bursar, Secretary, Staff Council, Teacher in charges of all the departments, conveners of different committees and co-ordinators of various clubs and societies and the non-teaching staff of our college for their zeal, participation and active support in the management of the College.

The academic achievements and activities of our teaching staff is commendable, details of which are listed in this report.

I hope that the students of this college will **stand out** to integrate the development process with the need of our society. I urge them to take the challenges in their path as inspirations and not stop till their goal in life is achieved. As Swami Vivekananda said, "*In a day, when you don't come across any problems - you can be sure that you are travelling in a wrong path.*"

As our country aspires to be a global economic giant and brings with it plenty of opportunities along, I appeal to all the students who are lucky to be part of this magnificent prospect to recognize the right place and the right time and seize the opportunities with their diligence. I wish them best of luck.

Dr. Manoj Khanna

Principal (Acting)

Meritorious Students (Academic Year 2012-13)

S.No	Course	First Year		Second Year		Third Year	
		Name	College Position	Name	College Position	Name	College Position
1	B.Sc. (H) Biomedical Science	Shweta Warriar	I	Preeti Jindal	I	Shubham Kesarwani	I
		Shirohi Govil	II	Rahul Ahuja	I	Charu Aggarwal	II
		Sukrit Mahajan	III	Shivangi Jain	II	Namrata Gautam	III
				N S P Sravanthi	III		
2	B.Sc.(H) Computer Science	Nikhil Raheja	I	Vasundra Sharma	I	Sachin Sharma	I
		Anchal Rajpal	II	Megha Datta	II	Lokita Yadav	II
		Krishna Prasad	III	Ayushee Rastogi	III	Abhishek Das	III
3	B.Sc.(H) Electronics	Aman Singh	I	Arvind Pratap Singh	I	Divya Pahuja	I
		Astha Dwivedi	II	Lakshay Dhawan	II	Himangi Srivastava	II
		Gaurav Raj Senger	III	Manisha	III	Yashu Vasshney	III
4	B.Sc.(H) Food Technology	Aditi	I	Sakshi Chopra	I	Manisha Rawat	I
		Shefali Jindal	II	Sachi Sethi	II	Silvi Garg	II
		Bhupender Singh	III	Monika Kakkar	III	Akshay Bhalla	III
5	B.Sc. (H) Instrumen- tation	Sajana	I	Ujjwal Kr. Mishra	I	Visvesh	I
		Parveen	II	Piyush Mishra	II	Sarthak Joshi	II
		Himanshu Joshi	III	Abhinav Abhishek	III	Neelam Panwar	III
6	B.Sc. (H) Microbiology	Damini	I	Shlok	I	Shamsheeda Saifi	I
		Deepanshu	II	Swati Singh	II	Shefali Thakur	II
		Deepali	III	Namya	III	Diksha Laila	III
				Babal	III		
7	B.Sc.(H) Physics	Sachin Kaushik	I	Deepak Kr. Sharma	I	Chetna Beniwal	I
		Monika	II	Abhinav Anand	II	Charu Garg	II
		Harshita Tirpathi	III	Pratik Chattopadhyay	III	Jyoti	III
8	B.Sc.(H) Polymer Science	Anurag Kumar	I	Rajvinder Kaur	I	Chhavi Verma	I
		Akansha Agarwal	II	Shiksha Bakshi	I	Nidhi	II
		Anirudh Singh	III	Devanshu Gupta	II	Pooja Sharma	III
				Deepa Sharma	III		

Breaking the Boundaries.....

Four Year Undergraduate Programme (FYUP)

The College has successfully implemented the FYUP initiative of the University of Delhi. Due to this, now the College offers B.Tech degrees in five disciplines: Computer Science, Electronics, Food Technology, Instrumentation and Polymer Science; along with providing B.Sc. in three more disciplines.

Under FYUP, the First year students have been provided with laptops, which have enabled them to abreast their knowledge at all times accessing internet through the Wi-Fi facility available in the College.

Most of the classrooms have been made interactive and technology enabled. Projectors have been installed in most of the classrooms.

Project work and presentations assigned from time to time help students to sharpen their knowledge and various skills such as communication, technology access, and team building capacity. Thus, results in overall personality development of a student.

Students are encouraged to share knowledge among their peers, not only within the department but also at inter-departmental level in the foundation courses.

Antardhwani and 'Good Practices' for Colleges

Antardhwani literally means 'the inner voice' which is related with individual awakening. To live the spirit of this three day multifaceted inter-college festival (organized by University of Delhi), our students well participated in various events. The College also set up its stall at Antardhwani beautifully showcasing students' intellect and activities through projects, models and informative materials. Under the broad theme of FYUP, our College focused on Health and Environment. Students displayed their creativity through 'best out of waste' concept which was well appreciated in the festival. An exhibition was also organized in the college for the visiting University team to evaluate the college for undertaking 'good practices' in the premises.

Gyanodaya- An Educational Train

Gyanodaya, is another initiative of the University of Delhi, in which students from all affiliated colleges are sent on an educational trip. It is a kind of education on wheels. This year the theme of the Gyanodaya Educational Tour-4 was 'Value Chain Analysis'. Sixteen students from all the departments of the college along with their mentor- Dr. Jitendra Kumar were a part of this unique experience. The students got a life time opportunity to visit various industries and gain practical knowledge about their functioning.

To Enhance the Interdisciplinary Studies, Nine Innovation Project currently running with Ten Students from Different Departments in each Project

S.No.	Project Code	Title of the Project	Principal investigators (Department)
1.	BCAS-201	Low-cost electricity generation using Bio-Photovoltaic Technology-a Green Energy Initiative	Dr. Geeta Mongia, Electronics Dr. Inderbir Kaur, Electronics Dr. Ruchi Gulati Marwah, Microbiology
2.	BCAS-202	Agro-Waste Material Management: from Waste to Wealth	Dr. S. K. Shukla, Polymer Science Dr. Anand Bharadvaja, Physics Dr. Rizwana, Food Technology
3.	BCAS 203	Public Awareness and Evaluation of Probiotics sold in Delhi	Dr. Shalini Sehgal, Food Technology Dr. Tejpal Dhewa, Microbiology Ms. Vandana, Food Technology
4.	BCAS 204	Screening and Enrichment of Polymer degrading micro-organisms and their application in Environmental Engineering	Dr. Vijaya Kumar Nalla, Microbiology Dr. Siddharth Sirohi, Polymer Science Dr. Divya Bajaj, Microbiology
5.	BCAS-205	To Prepare Edible Packaged, Low Cost Healthy Snack from Fruit and Vegetable Waste And Study Its Effect In Healthy Respondents	Dr. Meenakshi Garg, Food Technology Dr. Susmita Dey Sadhu Polymers Sciences Dr. Shivani G. Varmani, Biomedical Science
6.	BCAS 206	Assessment of Brominated Flame Retardants in Mobile phones, their consumption Pattern in North and Carbon Foot Prints from Electronic Waste	Dr. Geeta Bhatt, Instrumentation Dr. Manoj Khanna, Electronics Dr. Balram Pani, Chemistry Dr. Renu Baweja, Biomedical Sciences
7.	BCAS-207	Understanding the Burden of Vitamin B12 and Folate Deficiency in Young Indians	Dr. Purnima Anand, Microbiology Dr. Arti Batra, Computer science Dr. Parvinder Kaur, Biomedical Science
8.	BCAS 208	Lifestyle Interventions in Stress Management: A Study among Delhi Youth	Dr. Madhulika Bajpai Human Communication Dr. Eram S. Rao, Food Technology Dr. Ragini Jindal, Mathematics
9.	BCAS-209	Genetic curation of ataxia phenomes for establishment of predictive and rapid diagnostic paradigm	Dr. Uma Dhawan, Biomedical Science Mr. Bhavyadeep, Computer science Dr. Pawas Goswami, Microbiology

Academic Achievements – Classroom and Beyond....

Interdepartmental Activities

Besides, Nine DU Innovation Projects

STAR COLLEGE SCHEME: Department of Biochemistry, Department of Biomedical Sciences, Department of Food Technology, Department of Microbiology working collectively under this scheme.

Dr. Shalini Sehgal

Coordinator till November 2013

Dr. Purnima Anand

Coordinator from December, 2013

STAR Department Status has been awarded to the Department of Food Technology from the DBT from September, 2013.

Star Student Award was given to Mr. Swetaketu Majumder of B.Sc. (H) Computer Science Second year for the year 2012-2013 for his contribution in designing the website of the Star College Scheme http://bcas.du.ac.in/star_index.html.

The Department of Biochemistry organized a special lecture on “**Spectrophotometry**: A powerful tool for quantitation” in August 2013.

A seminar on **Functional foods** was held on 6th September 2013 and the esteemed speakers were Prof. Nagendra P. Shah, University of Hong Kong and Prof. Rameshwar Singh, Project Director, ICAR. A poster competition was also organized on functional foods.

Two days intensive **Hands-on training** was jointly organized by the Department of Biomedical Science along with Department of Biochemistry of Shivaji College, University of Delhi and Open Source Drug Discovery (OSDD) Group at Institute of Genomics and Integrative Biology on '**Protein modeling & docking studies for rational drug design**' on December 23-24, 2013.

All the four departments under the scheme have started various In-house short duration projects for the students.

NATIONAL SYMPOSIUM: The 2nd *National Symposium on Infectious diseases: Advancement in diagnosis, therapeutics and vaccines* was jointly organized by the Department of Microbiology and Biomedical Science on March 20-21, 2014 in the college. The symposium was sponsored by Department of Science and Technology and Council of Scientific and Industrial Research, Government of India.

Inaugural lecture was delivered by Professor K. Natrajan (Director, ACBR) and keynote lectures were delivered by eminent speakers i.e. Dr. Pushkar Sharma (NII), Dr. Pawan Malhotra (ICGEB), Dr. Deepak Saini (IISc), Dr. S. Ramachandarn (IGIB), Dr. Anshu Bhardwaj (IGIB) and Dr. Vipin Singh (Amity University). The valedictory lecture was delivered by Professor Daman Saluja (ACBR). Nearly 200 students and 50 faculties from BCAS and other colleges attended the symposium. The idea behind the symposium was to create awareness about the recent trends in research on infectious diseases especially among the undergraduate science students. Eminent scientists working in this field shared their views and interacted with young students on the current scenario of infectious diseases and their management through proper diagnosis, prevention and treatment. Students were encouraged to share their ideas and views on the theme through oral and poster presentations.

Departmental Activities....

Department of Biochemistry

Biochemistry department has introduced a series of concept-based experiments to make learning of Science an enjoyable experience.

The Department is under the process of preparing a Biochemistry manual and has given handouts to students for various experiments.

Bridging the gaps between theory and practice: Students have been assigned projects to understand the diagnostic applications of the subject and to understand the role of diet in management of diseases.

Department of Biomedical Science

'Training the trainers' programme was organized by the Department in conjunction with Department of Microbiology on January 11, 2014 to train various school teachers in advancements in biology and biotechnology.

A 'power lab tutor' demonstration was conducted by AD Instruments Pvt Ltd to promote high grade teaching and learning objectives in the key areas like human physiology and pharmacology.

A 'National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines' was organized jointly by the Department of Biomedical Science and Microbiology on March 20- 21, 2014.

During the academic year 2013-14, the students took active participation in Biomedical Science Departmental fest of Acharya Narendra Dev College (ANDC) where they interacted with Mr. Stuart Easter from Edinburgh to get awareness about the opportunities for post graduate studies at the University of Edinburgh.

Students also attended one day seminar on “Integration of Teaching and Research in Biophysics at Undergraduate and Post Graduate Level” which was organized by Prof. M R Rajeswari at All India Institute of Medical Sciences (AIIMS) on February 11, 2014.

In order to create research environment among students, we have started various in-house projects of short duration for the students.

Academic Achievements of the Faculty

Dr. Uma Chaudhry

- Mishra PK, Chandra SC, Raj SR, Chaudhry U, Saluja D. Functional analysis of hypothetical proteins of *Chlamydia trachomatis*: an *in silico* approach for prioritizing the targets. *J Comput Sci Syst Biol*(2013), 7:1.
- Participated and presented two posters in STI and AIDS World Congress 2013 at Vienna from July 14 -17, 2013. Posters presented:
 - a. Molecular analysis of antimicrobial resistant *Neisseria gonorrhoea* isolates from Delhi, India: a functional genomics approach.
 - b. Identification and functional annotation of secreted proteins of *Chlamydia trachomatis* using bioinformatics tools.

- Participated in the Scientific Writing and Publishing workshop being organized by Macmillan Science Communication, an exclusive partner of Nature Publishing Group in association with Jawaharlal Nehru University on November 29, 2013 at JNU.
- Coordinator for 'National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines' jointly by the Department of Biomedical Science and Microbiology on March 20- 21, 2014.

Dr. Shivani G. Varmani

- Co investigator for the UGC sponsored major research project entitled 'Effects of religious fasting on weight loss in Indian overweight and obese adult'.
- Principal investigator for DU innovation project (2013-14).
- Coauthored a paper presented in National workshop on Dehydration of Food and Agricultural Products: Principles, Practices and Prospects' at NIFTEM, Haryana, India from March 25-26, 2013. Garg M, Sadhu S, Varmani S, Aditi, Shefali, Faneesh and Bhupender. Drying Characteristics of Pea Pods .
- Coauthored a paper presented in the APA International Conference in India Habitat Centre, New Delhi from February 19-21, 2014. Sadhu S, Soni A, Garg M and Varmani SG. Study of Mechanical Properties of Starch-Poly Vinyl Alcohol Blend Based Nanocomposites for Food Packaging.
- Coauthored a paper presented in APM International Conference in Bhubaneswar, Orissa from February 14 -16, 2014. Sadhu SD, Chakraborty S, Garg M and Varmani SG. A closer look towards the development of energy harvesting sources through polymers.

Dr. Uma Dhawan

- Principal Investigator for the DU Innovation Project (2013-14)
- Participated in the Mentorship workshop for women scientists organized by Department of Biotechnology, Govt. of India and coordinated by Biotech Consortium India Limited held at INSA, New Delhi on July 11, 2013.

Dr. Renu Baweja

- Principal Investigator of DU Innovation Project (2013-14).
- Co-coordinator for 'National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines' jointly by the Department of Biomedical Science and Microbiology on March 20- 21, 2014.

Dr. Parvinder Kaur

- Principal Investigator of DU Innovation Project (2013-14).
- Co-coordinator for 'National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines' jointly by the Department of Biomedical Science and Microbiology on March 20- 21, 2014.

Department of Computer Science

A lecture on 'Ethical Hacking and Information Security' by Lucideus Technologies, 'MBA as career' by Career Launcher, 'Cloud Campus' by NIIT, Dwarka was organized.

A Technical talk on 'Cloud Computing' by Professor N.S. Raghava, Head of Computer Center, Delhi Technological University were organized by CS.Net.

CS.Net, the departmental society, organized the Annual Techno-Cultural Festival 'Interface 2014' on February 26-27, 2014 with plethora of events such as photo-editing, lan gaming, talent hunt, techno art, tech quiz, fastest fingers, code wars, treasure hunt and just a minute. A live performance by an upcoming band 'Revolution 21' was the major attraction of the fest.

Two students of the Department were placed through the Central Placement Cell, University of Delhi – one with TCS and one with JITM skills.

Department of Electronics

A National Workshop on 'VLSI Designing Using Verilog Coding' in collaboration with JB Techindia was organized during July 16-18, 2013. The workshop included the lectures from eminent resource persons, hands-on training in VLSI embedded system and panel discussions. The workshop aimed at introducing the concept of VLSI chip design to students, research scholars and faculty members of various institutes.

A workshop on 'Embedded Systems and Robotics' in collaboration with DUCAT was also organized in the college on September 3, 2013.

'SPARKS', the departmental society organized the Annual Intercollegiate Technical Departmental fest 'Techmania' on February 18-19, 2014. The event consisted of lectures on 'Eyes and Hands of Nanotechnology' by Prof. B. R. Mehta, Department of Physics, IIT Delhi and 'Semiconductor Lasers' by Prof. M.R. Shenoy, Department of Physics, IIT Delhi. Various technical events like project presentation, circuit debugging, quiz competition, robosoccer, electrotrade, etc. were also organized during the fest.

Academic Achievements of the Faculty

Dr. Manoj Khanna

- A pointed as Principal (Acting) w.e.f. December 1, 2013.
- Principal Investigator of DU Innovation Project (2013-14)

Dr. Geeta Mongia

- Conferred with '**Best Teacher Award**' in May 2013, by Mrs. Sheila Dikshit, Honorable Chief Minister for 'Award for College Lecturer' for the year 2012-13, by Govt. Of NCT Delhi.
- Principal Investigator of DU Innovation Project (2013-14).
- Coordinated the National workshop held in collaboration with JB Tech on 'VLSI designing using VERILOG coding' held at Bhaskaracharya College from July 16-18, 2013.
- Attended a Workshop on 'Neural Networks and its Implementation with MATLAB' at Institute of Management and Research, Bharathi Vidyapeeth University, Delhi from January 17 -18, 2014.
- Co-Cordinated workshop on 'Line follower Robotics', organised by Department of Instrumentation at Bhaskaracharya College from March 11-12, 2014.

Dr. Inderbir Kaur

- Principal Investigator of DU Innovation Project (2013-14).
- Coordinated the National workshop held in collaboration with JB Tech on 'VLSI designing using VERILOG coding' held at Bhaskaracharya College from July 16-18,2013.
- Attended a Workshop on 'Neural Networks and its Implementation with MATLAB' at Institute of Management and Research, Bharathi Vidyapeeth University, Delhi from January 17 -18, 2014.

Mr. Avneesh Mittal

- Submitted Ph.D. dissertation to the University of Delhi on the topic entitled 'Genetic Algorithm based Adaptive Control System' under the supervision of Prof. Avinashi Kapoor (UDSC) and Dr. T. K. Saxena (CSIR-NPL, ND).
- Mittal, A, Kapoor, A, Saxena, TK. Adaptive Tuning of PID Controller for a Nonlinear Constant Temperature Water Bath under Set Point Disturbances using GANFC. J Automation & Systems Engineering(2013), 7 :143-163.
- Mittal, A, Jain, P, Kapoor, A, Saxena, TK. Genetic Algorithm based Neuro Fuzzy Tuning of PID Controller for a Nonlinear Temperature Water Bath with Feed forward Control. IEEE Xplore (2013): 978-1-4799-1441-8/13/\$31.00 ©2013 IEEE, pp: 34-38.
- Trivedi, U, Mittal, A, Aggarwal, A, Saxena, TK. Implementation and Comparison of different Inverse Solver and Image Priors used in EIT using 89C51 based Setup.IEEEExplore(2013): 978-1-4799-1441-8/13/\$31.00 ©2013 IEEE, pp: 50-53.
- Coauthored two papers in an International Conference on Acoustics 2013 New Delhi, Technologies for a Quieter India organized by Acoustical Society of India (ASI), French Acoustical Society (SFA) and CSIR- National Physical Laboratory held at CSIR-National Physical Laboratory, New Delhi from November 10-15,2013.

Presented 4 papers and coauthored 9 other papers in national conferences ICAES-2013 and AdMET-2014.

Dr. Manoj Tiwari

- Co-coordinated and attended a National Workshop entitled 'VLSI Designing using VERILOG coding', held at Bhaskaracharya College of Applied Sciences from July16-18, 2013 in collaboration with JB Tech INDIA.
- Attended Workshop entitled 'MATLAB and Simulink Academic Tour 2013 of Math Works', held at Cluster Innovation Centre, Delhi University on September 23, 2013.
- Attended a seminar-cum-workshop on 'Nano-simulation using Atomistix Toolkit & Virtual Nanolab', by Quantum Wiseheld at University Science Instrumentation Centre, Jawaharlal Nehru University, New Delhi on Jan 15, 2014.
- Attended a course on 'Nanotechnology Journey from Quantum Physics to Nanoengineering', held at South Campus, University of Delhi organised by Department of Electronic Science, University of Delhi and IEEE-EDS Delhi Chapter on Jan 28, 2014.
- Attended a National Workshop entitled 'Basic Optics, Fibre Optics and Optical Communication', held at Department of Electronics, Maharaja Agrasen College from March 08-10, 2014.

- Attended a Workshop entitled 'Line Follower Robotics', held at Bhaskaracharya College of Applied Sciences in collaboration with EFY Group, Publisher of Electronics For You Magazine from March 11-12, 2014.

Dr. Jitender Kumar

- Kaur A, Singh I, Kumar J, Madhwal D, Bhatnagra PK, Mathur PC, Bernardo AC and Paiva MC. An Environment Friendly Highly Sensitive Ethanol Vapor Sensor Based on Polymethylethacrylate: Functionalized-Multiwalled Carbon Nanotubes Composite. *Advance science and engineering medicine*(2013) 5: 1062-1066.
- Singh I, Madan S, Kaur A, Kumar J, Bhatnagar PK, Mathur PC and Islam SS. Study of relaxation dynamics of photo generated excitons in CuInS₂ quantum dots. *MRS Communication* (2014), DOI: <http://dx.doi.org/10.1557/mrc.2014.5>
- Paper Presentations in 17th International workshop on the physics of semiconductor devices, at Amity University, Noida U.P. from Dec 10-13, 2013 .
 - a. Kumar J, Madan S, Singh I, Kaur A, Bhatnagar PK and Mathur PC. Effect of confinement on the electronic Structure and electron phonon interaction in CdS_{Se} Quantum Dot.
 - b. Madan S, Kumar J, Dixit S, Bhatnagar PK and Mathur PC. Enhancing Luminance of Polymer Light Emitting Diode using CdSe/ZnS Core Shell Quantum Dots.
- Attended a workshop on Neural networks and its implementation with METLAB organized by BVIMR, New Delhi from Jan 17-18, 2014.

Department of Food Technology

A workshop cum seminar was held for the students and faculty of the Department with the professionals like John Ruff, President of Institute of Food Technologists and Prof. Rama Rao, from Cornell University and formerly the scientific lead at National Institute of Food and Agriculture, USFDA on December 10, 2013.

Prof. Antal Vaha and Prof. Emo Gyimes from Faculty of Engineering, University of Szeged, Szeged, Hungary visited the department and interacted with the faculty and students on March 4, 2014.

The B.Tech (FYUP) Food Technology Students and staff of Institute of Home Economics, DU visited our food technology Department for a session on various food processing, testing and packaging technologies on March 13, 2014.

Ambrosia, the Food Technology Society, hosted seminar cum fest on the theme “Food Security, Safety and Sustainability” from March 25-26, 2014. The Alumni Directory of the department was released. Some of the events organized for the students include- food quiz, debate, calendar making competition, photography, nutritious recipes etc.

Academic Achievements of the Faculty

Dr. Rizwana

- Principal Investigator of DU Innovation Project (2013-14).

- Co-authored a paper 'Preparation and Characterization of Cellulose Derived from Rice Husk for Drug Delivery', *Advanced Materials Letters*(2013), 4:2.
- Presented a poster on Development and Efficacy of Rice Husk derived Packaging on the Shelf Life of Eggs at International Conference on Multifunctional Materials, Energy and Environment Sharda University from August 21-23, 2013.
- Presented a poster 'Efficient Metal removal from bioactive film developed from Rice Husk' at Advanced Material World Congress , Izmir Turkey from September 16-19, 2013.
- Co-authored a paper 'Efficient Metal removal from bioactive film developed from Rice Husk', *Advanced Material Letters* (Accepted for publication).
- Delivered a lecture on 'Food Processing: Principles and Applications to produce good quality food' in Short term Training program on 'Upgradation of Food testing Skills of Food Processing Professional' under India Africa Forum Summit (IAFS), for scientists of African countries organized by Shriram Institute for Industrial Research (SRI) in association with Ministry of External Affairs and Ministry of Food Processing Industries (GOI) on February 24, 2014.
- Presented a lecture as expert resource person on “Quality and safety issues of meat from farm to fork “ on March 24, 2014 to African nationals under Indo Africa forum summit II at NIFTEM, Kundli.

Dr. Shalini Sehgal

- Star Status to the Department of Food Technology by DBT in September, 2014 under her coordinatorship of the Star College Scheme at college and departmental level.
- Principal Investigator of DU Innovation Project (2013-14).
- Sharma, P Sehgal S and Raizada, P. Personal Hygiene and Sanitation Practices of Food Handlers at various *Pre-Schools of Delhi*. International Conference on **Emerging Food Safety Risks: Challenges for Developing Countries at NIFTEM**, Haryana, India on Jan10, 2014.
- Paper presentation in International Conference on Food Technology: Impact on Nutrition and Health organized by International Institute of Food and Nutritional Sciences at JNU Convention Centre, Delhi from Dec 23-24, 2013.
 - a. Sharma P and Sehgal S. Assessment of Hygiene and Sanitation at various Pre-schools of Delhi- a Food Safety study.
 - b. Sehgal, S and Mehta, S. Identification of Microbial Hazards Associated with the Fresh Produce sold in South Delhi Markets and their Minimization. (Paper was awarded Second Prize in Oral Presentation Category).
- Sharma P and Sehgal, S. Microbiological assessment of food and water at various Pre-schools of Delhi. ICACCT-2013 at Asia Pacific Institute of Information Technology, Panipat held on Nov16, 2013 and published in the proceedings (ISBN 978-93-83083-38-1).
- Attended Communication and Presentation Skills training by the Department of Science and Technology, Government of India in December 2013.
- Delivered talks/lectures on '*Relevance of Microbiological Standards, Microbiological Food Safety, Food*

Allergens and Food Chemistry – Current Scenario', at BIS and Shriram Institute for Industrial Research.

Dr. Eram Rao

- Book Publication – Rao. E. S, (2013). 'Principles of Food Science- A practical manual'; Variety Publishers (ISBN: 978-93-81156-22-3).
- Presented a paper on '*Food Processing Sector in India-Current scenario and Prospects*' in National Seminar on '*Technology Up-Gradation and Modernization of Food Processing Industries in India*', by All India Food Processors Association on March 15, 2013.
- Speaker in a technical panel discussion organized by FSSAI, TERI and Michigan State University in an International Conference on Food Safety Implementation in Delhi, March 19-20, 2013 on the following topic, 'Food Safety in Street Food and retail'.
- Keynote speaker in National Seminar cum Workshop on Application of Sensory Science to Food Product Development and Quality Evaluation' on April 5, 2013 on 'Human Senses in Food Evaluation' and conducted a training workshop on Application of Sensory Science to Product Development organized by the Department of Food Process Engineering, Sam Higginbottom Institute of Agriculture, Technology and Sciences, (SHIATS), Allahabad, UP.
- Resource person in Content development and Training modules on Food Safety and Standards for Food Business Operators and Street vendors for the Department of Food Safety Govt. of Delhi, on September 11, 2013.
- Expert/ speaker – 'Nutrition and Life Style Disorders: Emerging issues in youth and adolescent': A National consultative meet, Department of Community Medicine, MAMC, New Delhi on Feb 1, 2014
- Presented a paper on Integrating Food Safety Culture: Keeping pace with a rapidly developing Food processing Industry in India' in a Seminar on Quality of Dairy Products: Technological Intervention organized by Indian Dairy Association at New Delhi on Feb 22, 2014.
- Paper '*Food Processing Sector in India-Current scenario and Prospects*', published in Indian Food Packer, March- April 2013, Vol. 67, No.2 pg 23.
- Book Review of Rao E.S (2013) Food Quality Evaluation. Indian Food Packer, March- April, 2013, Vol. 67, No.2 pg 129.
- Book Review of Rao E.S (2013) Food Quality Evaluation. Indian Food Industry, May-June 2013, Vol.32, No.3 pg 10 (ISBN: 978-93-81156-18-6).

Dr. Meenakshi Garg

- Principal investigator for the UGC sponsored major research project entitled '*Effects of religious fasting on weight loss in Indian overweight and obese adult*'.
- Principal Investigator of DU Innovation Project (2013-14).
- Presented a paper '*Nutritional Quality of Value Added Sev from Amylase Rich Flour of Chickpea and Fieldpea*' at the international workshop on Green Initiatives in Energy, Environment and Health, Delhi, India from December 2-3, 2013.
- Presented a paper in National workshop on Dehydration of Food and Agricultural Products: Principles, Practices and Prospects' at NIFTEM, Haryana, India from March 25-26, 2013. Garg

M, Sadhu S, Varmani S, Aditi, Shefali, Faneesh and Bhupender. Drying Characteristics of Pea Pods.

- Co-authored a paper presented in the APA International Conference in India Habitat Centre, New Delhi from February 19-21, 2014. Sadhu S, Soni A, Garg M and Varmani SG. Study of Mechanical Properties of Starch-Poly Vinyl Alcohol Blend Based Nanocomposites for Food Packaging.
- Co-authored a paper presented in APM International Conference in Bhubaneswar, Orissa from February 14 -16, 2014. Sadhu SD, Chakraborty S, Garg M and Varmani SG. A closer look towards the development of energy harvesting sources through polymers.
- Attended a one week training course on SPSS from May 27, 2013 to May 31, 2013 at DUCC, University of Delhi, Delhi.

Department of Human Communication

Academic Achievements of the Faculty

Dr. Madhulika Bajpai

- Principal Investigator of DU Innovation Project (2013-14).
- One of the authors of Psychology for the e-content development program for UGC e-pathshala project.
- Delivered a talk as a Resource Person during a National Seminar on 'Media Mediated Realities and its Impact on Psycho-social Well-being' held on April 13, 2013.
- Presented a paper on 'Psycho-Social Determinants of Marital Discord: An Indian Study' in a National Seminar on Social Change in Contemporary India: Psychological Dimensions and Social Response held on March 21-22, 2014.
- Nominated as a Consultant Psychologist, Interview Board for Delhi Subordinate Services Selection Board in February- March 2014.

Department of Instrumentation

The Department in collaboration with EFY Group (publishers of Electronics For You magazine) organized a workshop on Line Follower Robotics during March 11-12, 2014.

Abhinav Abhishek, student of B.Sc. (H) Instrumentation IIIrd year was selected as the recipient of **Posco Asia Fellowship** provided by Posco TJ Park Foundation.

The Department also organized an industrial visit to HEICO Hydraulic & Engineering Instruments, Naraina Industrial Area, New Delhi, a leading manufacturer of quality control instruments for material testing during October 22-23, 2013.

Two of our students from B.Tech Instrumentation first year Anand Prakash and Rakesh Kumar attended **6th Science Conclave 2013: A Congregation of Nobel Laureates at Indian Institute of Information Technology (IIIT) Allahabad** from 8 December to 14 December 2013.

Two of our faculty members also attended industrial training at Shimadzu Analytical (India) Pvt Ltd. Delhi on '**Fundamentals of GC with GC solution workstation**' during Dec 5-6, 2013.

Academic Achievements of the Faculty

Dr. Geeta Bhatt

- Principal Investigator of DU Innovation Project (2013-14).
- Member of the Faculty of Inter Disciplinary and Applied Sciences, University of Delhi since April 2013.
- Convened a workshop on 'Line Follower Robotics' in joint collaboration with Electronics For You Group held on March 11-12, 2014.

Department of Mathematics

Academic Achievements of the Faculty

Dr. Ragini Jindal

- Principal Investigator of DU Innovation Project (2013-14).

Department of Microbiology

“Sukshmjeev” the society of the Departmental society organized a National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines (20th and 21st March, 2014) in collaboration with Department of Biomedical Science sponsored by DST. An array of student activities like science quiz, poster competitions, streak art, treasure hunt, ideate, candid canvas, declamation and tana bana were arranged.

Third year Students along with faculty members visited the Mother Dairy Plant at Patparganj, saw the milk processing and quality control facilities.

Dr. Purnima Anand

- College Coordinator for the Star College Scheme December 2013 onwards
- Principal Investigator of DU Innovation Project (2013-14).
- Co-coordinator for 'National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines' jointly by the Department of Biomedical Science and Microbiology on March 20- 21, 2014.

Dr. Ruchi Gulati Marwah

- Principal Investigator of DU Innovation Project (2013-14).
- Coordinator for 'National Symposium on Infectious Diseases: Advancements in Diagnosis, Therapeutics and Vaccines' jointly by the Department of Biomedical Science and Microbiology on March 20- 21, 2014.

Dr. Vijay Nalla

- Attended an International conference on “*Agriculture, Food Engineering and Environmental Sciences- Sustainable Approaches (AFEESSA-2014)*” on March 29-30, 2014 at Jawaharlal Nehru University,

New Delhi and presented a research paper on “*Preparation of a Microbial consortium for efficient treatment of Polymer Wastes and Improving their fertilizer value*”.

- Attended an international Symposium on “Infection and Cancer” held at Dr B. R. Ambedkar Centre for Biomedical Research (ACBR), University of Delhi on February 13-14, 2013.
- Published an abstract titled, “Screening and Enrichment of Microbes involved in Polymer degradation and their application in Environmental Engineering” at the international conference on “*Agriculture, Food Engineering and Environmental Sciences-Sustainable Approaches (AFEESSA-2014)*” on March 29-30, 2014 at Jawaharlal Nehru University, New Delhi.
- Principal Investigator of DU Innovation Project (2013-14).
- Received a “Blood Donation Organizer Award-Memento” from the N.G.O, “Blood Connect” in a function held at India Habitat Centre in April 2013.

Dr. Pawas Goswami

- Co-Principal Investigator in ICMR project titled '*Status of antibiotic resistance among commercially available probiotic bacteria*'.
- Principal Investigator of DU Innovation Project (2013-14).
- Sharma, P, Tomar, SK, Goswami, P, Sangwan, V and Singh, R. Antibiotic resistance among commercially available probiotics. *Food Research International*(2014), 57: 176-195.

Dr. Tejpal Dhewa

- Kumar S, Choudhury PK, Carro M D, Griffith GW, Dagar SS, Puniya M, Calabro S, Ravella SR, Dhewa T, Upadhyay RC, Sirohi SS, Kundu S, Wanapat M, and Puniya AK, New Aspects and Strategies for Methane Mitigation from Ruminants. *Applied Microbiology and Biotechnology* (2014), 98 (1) : 31-44. DOI 10.1007/s00253-013-5365-0; Online ISSN: 1432-0614.
- Puniya M, Sangu KPS., Bhardwaj A, Kumar S, and Dhewa T. Isolation and Characterization of *Lactobacillus* spp. of Human Origin for Studying their Prevalence. *Research and Reviews: A Journal of Dairy Science and Technology* (2013), 2 (3) : 7-15. ISSN: 2319 – 3409.
- Puniya M, Sangu KPS., Bhardwaj A, Kumar S, and Dhewa T. Effect of Prebiotics on Growth of the Selected *Lactobacilli* Culture Isolated from Dairy Products. *Research and Reviews: Journal of Dairy Science and Technology*(2013), 2 (2) : 1-8. ISSN: 2319 – 3409.
- Attended a workshop on Biology and Technology of Cultivable Mushrooms on February 18 - 19, 2014 held at Institute of Lifelong Learning, University of Delhi, South Campus.

Department of Physics

The Department organized its annual departmental academic and cultural festival '**Z-Gravity**' on October 17-18, 2013 including two lectures by eminent professors (from the Indian Institute of Technology, Delhi & Kanpur), quiz, vigyan-o-mania and powerpoint presentation competitions. The event also comprised of battle of bands, X-factor (all sorts of talents were showcased by the students), crack it thrice (puzzle game) and crazy runs (included wacky kinds of races).

Deepak Kumar Sharma and Pratik Chattopadhyay of B.Sc.(Hons.) Physics III year are members of the team from the college which has qualified for the final round of quest-2014 organized by Centre of Science Education and Communication (University of Delhi).

A team of five students from the Department participated in the programme on National Science Day held at Inter University Accelerator Centre, New Delhi on February 28, 2014.

Ten students attended lecture by Prof. Matthias Bartelmann (Astrophysics, Heidelberg) on Cosmology in Max Mueller Bhavan, New Delhi on January 28, 2014.

Department of Polymer Science

An industrial visit of Indian Oil Corporation Ltd. Panipat polymer manufacturing plant was organized by Department of Polymer Science on March 18, 2014.

Students attended PU Tech 2014th Polyurethane Exhibition and Conference India organized by Indian Polyurethane Association on March 12-14, 2014 held at India Expo Center, Greater Noida.

Ten students from all the three years along with faculty members attended the Indian Rubber Conference held in India Habitat Centre on March 5, 2014.

Polymer science students attended IPI Technical Seminar organized in association with Ferromatik Milacron India & Total Lubricants. on September 14, 2013 held at Gurgaon.

Students also attended Technical Seminar on Innovations in moulding simulation technology held on August 22, 2013 at Hotel Country Inn & Suites, Gurgaon.

Three students of the final year were selected from the campus by Premier Polyfilms on June 05, 2013.

Academic Achievements of the Faculty

Dr. Saroj K. Shukla

- Shukla S K, Sharma Pooja, Nidhi , Sharma Deepa, Surya , Rizwana , Bharadvaja a and Dube GC. Characterization of Nano Size Silica Obtained from Agricultural Waste. J. Sci. Tech. Res (2013), 3:1-3.
- Shukla SK. Synthesis and characterization of polypyrrole grafted cellulose for humidity sensing. International Journal Biological Macromolecules(2013), 62531-536.
- Tiwari A and Shukla SK (Eds). Advanced Carbon Materials and Technology. John Wiley, Scrivener Publishing LLC, 2013, ISBN: 978-1-118-68623-2.
- Member of advisory committee, Advance Material Congress, Izmir, Turkey. 2013.
- Editor, International Journal of Nanotechnology in Diagnosis and Treatment, USA.
- Visiting fellowship under Indian National Science Academy Bilateral Exchange program - 2013.

Dr. Susmita Dey Sadhu

- Principal Investigator of DU Innovation Project (2013-14).

- Sharma R, Jain P, Sadhu SD and Kaur B. Mechanical and thermal properties of impact modified PBT blends and impact modified PBT Nanocomposites. *J. Polym. Eng.* (2013) 33, 6,489.
- Coauthored a paper presented in National workshop on *Dehydration of Food and Agricultural Products: Principles, Practices and Prospects' at NIFTEM, Haryana, India* from March 25-26,2013. Garg M, Sadhu S, Varmani S, Aditi, Shefali, Faneesh and Bhupender. Drying Characteristics of Pea Pods.
- Presented a paper in the APA International Conference in India Habitat Centre, New Delhi from February 19-21, 2014. Sadhu S, Soni A, Garg M and Varmani SG. Study of Mechanical Properties of Starch-Poly Vinyl Alcohol Blend Based Nanocomposites for Food Packaging.
- Presented a paper in APM International Conference in Bhubaneswar, Orissa from February 14-16, 2014. Sadhu SD, Chakraborty S, Garg M and Varmani SG. A closer look towards the *development of energy harvesting sources through polymers.*

Dr. Krishna Dutt

- Dutt K. Kinetic Studies on *Cure Kinetics of DGEBA (Diglycidyl Ether of Bisphenol-A) with Terephthalamide Hardening System generated from PET waste.* *Journal of Research Updates in Polymer Science* (2013), 2 (1):57-67.
- Dutt K. *Synthesis and characterization of polymeric plasticizer from PET waste and its applications in nitrile rubber and nitrile–PVC blend.* *Iranian Polymer Journal*(2013), 22(7): 481-491.
- Dutt K. Improve the biodegradation of hazardous PET waste by blending with lactic acid based terpolymer. *International Journal of Advanced Engineering Applications*(2013), 1(7):1-7.
- Dutt K. A review on *synthesis of value added products from polyethylene terephthalate (PET) waste.* *Polymer Science*(2013), 55(7–8):430–452.
- Dutt K. *Degradation (SEM) study of hazardous PET waste flakes during aminolysis with hydrazine monohydrate.* *International Journal of Advanced Engineering Applications*(2013),1(7):5-9.

Library

Library has grown in terms of its collection of books. Number of books, during the financial year 2013-14, has increased from 22044 to 23072 (1028 Books). The library this year spent Rs 5,50,000 on purchase of books.

Apart from the regular subscription to some journals, the library this year has started subscribing to N-LIST (National Library and Information Services Infrastructure for Scholarly Contents) programme of INFLIBNET. This has provided the facility to access a large number of e-resources to the students and staff throughout the year 2013-14.

Library circulation (number of issue and return of books) has reached the figure of 40480 during the period of July 2013 to February 2014.

Library organized an Orientation programme for all the students of first year. It also guided the students, batches, for using of N-List e-resources.

Library also helped in organizing FYUP displays in the library reading room.

The Library blog is being updated time to time and since the start of the blog, 17642 page views (as on 24 March 2014) have been recorded from various parts of the globe including India (14116), US (755), Germany (200), Russia (137) and UK (49) etc.

Academic Achievements of the Faculty

Dr. Ranjeet Thakur

- Contributed e-Contents for two modules/ papers for ePG Pathshala as follows:
 - a. Application of Information Technology in Public Libraries
 - b. Resource Sharing and Networking
- Imparted Library Training to 5 students of Certificate in Library Science, Diploma in Library and Information Technology of Delhi Library Association and MLib & Inf. Science
- Supervised three students of MLISc (IGNOU) in their research projects.
- Participated in Taylor & Francis Interactive Library Event: Unravelling the New Age Library Looking to the Future on November 22, 2013 at Habitat Centre, New Delhi.

Beyond Curricular Activities.....

ECA Committee

(Convener: Mr. Ramesh Kumar)

The Extra Curricular Activities (ECA) Committee along with various clubs of the college organized three events: **the Independence Day Celebration, the Republic Day Celebration** and '**Srijan**', the Annual Cultural Inter College Festival of the college. The Independence Day and the Republic Day celebration were observed with a spirit of immense national pride. The events included patriotic performances by the students. A play, group song, group dance and portrait making competitions were organized.

The Annual Inter-College Cultural Festival, '**Srijan 2014**' was celebrated on March 13-14, 2014 with great zeal and enthusiasm. The two day festival had a plethora of exciting cultural events such as rangoli competition, duet karaoke, choir singing, street play, treasure hunt, group dance, poster making, photography competition, yoga competition, spell bee, quiz competition, duet dance, mock roadies, street football and battle of bands which received extensive participation from several colleges. For the first time in the history of 'Srijan', a performance stage with an LED display was set up in the front lawn of the college for the stage events. The two day festival had a plethora of exciting cultural events. The main attractions of 'Srijan 2014' were a marvelous guest performance by the band 'Devotees Insanos'; Sukanya Gupta, a finalist of Zee Sa Re Ga Ma Pa; and the band 'Swarantar'.

Astronomy Club

(Convener : Dr. Amit Kumar)

The Club organised a day long astronomical event '**Vyom**' on the January 22, 2014. The event started with an interesting lecture on "Gravitational Waves" by Prof. Patrik Das Gupta. The day extended by various events including quiz, presentations, debate etc.

Dance Club

(Convener: Dr. Renu Baweja)

Our college dance group is a self-choreographed dance group. Students participated in a group dance competition organized in Delhi College of Arts and Commerce for which they got certificate of scholarship from the Danceworkx Performing Arts Academy. As per this scholarship, they have been awarded a 3 month academic scholarship at "The Danceloft Project" to train and perform on stage.

Debate and Quiz Club

(Convener: Dr. Tejpal Dhewa)

The Club organised some debate competitions in the College on the topics- 'Populist measures like food security do not contribute to nation's development'(Oct 15, 2013); 'Can we dream of an addiction free India'(March 5, 2014); and 'Are we truly sovereign, socialist and democratic republic?' (March 5, 2014).

The members of the Club participated in various colleges' debate and related events and won positions: Akshay A. Jha got first prize and Akanksha got second prize in debate and slogan writing respectively at NSIT, Dwarka. Akshay A. Jha also got third prize at Bharti College in inter-college debate. Mr. Akshay A. Jha, Mr. Vijay, Mr. Manish Parmar & Mr. Anuj Sharma, participated in National Level College Debate Competition (Human action and neglect convert natural phenomena into a massive disaster); at SBS(PG), Dehradun on February 24-25, 2014.

Dramatics and Fine Arts Clubs

(Convener : Dr. Perna Malhotra)

Dramatics team '**Darpan**' won university and college level competitions including the 3rd prize at Gandhi Bhavan, University of Delhi for "Sarvodaya – Rise of All", and 2nd prize at Apeejay College, Dwarka. The Club prepared a special play on FYUP and also gave a tremendous performance in Antardhwani.

The club also ventured into stage play, firstly on the occasion of World Food Day at Shaheed Rajguru College of Applied Sciences on "Sustainability, food safety and security", and the other at the

prestigious Shakespeare Society of India's Inter Collegiate Drama Competition held at Institute of Life Long Learning, University of Delhi where the team enacted a part of 'Julius Ceaser'.

The Club also performs for various social causes in association with various NGOs. The club presented a tribute to Nirbhaya on December 16, 2013 by performing at various public places.

The Fine Arts Club '**Aakriti**' won several prizes - Kaushal Bodwal won 1st prize in poster making competition held at Gandhi Bhawan and Rangoli competition held at Delhi College of Arts and Commerce. Nidhi Yadav and Kaushal Bodwal won 1st prize at Maharaja Agrasen College; 2nd prize at Zakir Hussain, Shaheed Bhagat Singh and Sri Aurobindo colleges; and 3rd prize at Gargi college. Annu Anmol and Vikas won 1st prize and Ritu Grag and Kaushal Bodwal won 2nd prize at Srijan.

Eco club

(Convener: Dr. Parvinder Kaur)

Students of Eco club participated in International Ozone Day organized by the Department of Environment, Government of NCT of Delhi and Yuva meet held at TERI University. The club organized an orientation programme for students on environment related issues in which Dr. B. C. Sabata, Sr. Scientific Officer was invited speaker. It also organized a quiz to sensitize and aware students towards various aspects of environment. A trip was also organized by the club to Biodiversity Park for students. The club also planned "Eco Fest" in the college and different competitive events based on topics like "Shades of Environment Protection" for graffiti competition, nature photography, power point presentation on "Ideas of Sustainable Development" and "Eco friendly practices in campus" for short film competition.

Eco club also runs its paper recycling unit and recycles both side used papers. The recycled paper is used within the college for various competitive and decorative purposes. The club also works toward the segregation of waste in college campus and initial steps like placing dustbins of different colors in college campus for dry and wet waste was initiated.

Film Club

(Convener: Dr. Parthasarathi Pal)

The club produced and directed a short file named "Jamnagar sector 13" which was selected for screening in the 2nd Delhi International Film Festival, 2013.

The Club successfully organized a film festival "Pixel 2014" on 3rd March 2014 in which the shortlisted films were screened and two films were adjudged as best movies.

Literary Club (Lyrix)

(Convener: Dr. Prerna Malhotra)

The Club organized a creative writing event- "As you see it" which got huge participation. The Club also organized Abhivyakti'14, the Annual Literary Festival of the Club on the March 24, 2014 including lectures by Prof. Ashutosh Mohan, Indraprastha University and Dr. Anjana Neira Dev, Gargi College and interactive session on 'Word Power and Vocabulary Building'. The fest also included activities like 'Kaun banega vocabulary master' 'Dart & win', language & literary quiz and mini extempore.

Music Club

(Convener: Dr. Prerna Malhotra)

College choir group '**Moksha**' participated in "Antardhwani 2014", with a remarkable performance. The choir group 'Moksha' stood first in the inter-college event of choir singing competition in Srijan.

Our college band "**Dhriti**" was honoured with the Best Entertainer Team Award in Antardhwani.

The college rock band participated and secured 2nd position at Shyam Lal College and 3rd position at Dyal Singh College Festival.

Photography Club- Clickerati

(Convener: Dr. Jitender Kumar)

Clickerati organised a workshop on the topic "Orientation to photography" by Future Forward, Lajpat Nagar. All technical features covered in the photography were discussed. The workshop was followed by

a photography exhibition by the Club in which the photography talent of the students was showcased. From 30 entries about 15 best photos were selected and put on display.

Sports Committee

(Convener- Dr. Pawas Goswami)

Bhaskaracharya Inter-College Cricket Tournament was conducted from Jan 20, 2014 to Feb 7, 2014. Twelve colleges from DU participated in the tournament in which the college team played semi-finals.

Various Inter-departmental games are conducted in the college. Students, teaching and non-teaching staff of the college participate in various games and athletic events culminating in the college sports day. Students participate in various events and get prizes also. Vikram got 3rd prize in DU inter college wrestling competition. Diksha Thakur represented Delhi in Nationals held at Kolhapur and Chandigarh in ball badminton in 2012-13 and 2013-14 respectively. She also represented Delhi in nationals in Haryana and Andhra Pradesh in rokit ball badminton and won 3rd and 2nd prizes respectively. Neetu Gupta also represented Delhi in Nationals held at Haryana and Andhra Pradesh for rokit ball badminton and won 3rd and 2nd prize respectively. Students played at YMCA basketball tournament and reached 2nd level. Vikas reached the finals of DU inter-college chess competition. Students reached the 2nd round of inter-college volley- ball for men held at Ramjas College.

NSS Unit

(Convener: Dr. Vijay N. Nalla)

NSS Unit conducted a variety of programmes to sensitize youth and empower society including cloth and stationery collection drives in which we managed to collect and distribute large number of clothes, toys and stationery items to four slums across Delhi namely, Palam slums, Dwarka Sector-2 *Rain Basera* and Narayana slums. A “Plantation Drive” was conducted and more than one hundred saplings were planted in college premises. Manish Parmar represented Delhi State in National Camp held at Assam. Two students of NSS unit represented National Youth Festival held in Ludhiana. Fifty volunteers of NSS unit participated in “Vishwa Ekta Diwas” held at Yamuna Sports Complex on December 20, 2013. Our volunteers also participated at a programme organized by Selection Commission at India Gate and Yuva Meet 2014.

Career Counseling and Placement Cell

(Conveners: Dr. Rizwana, Mr. Vikas Tyagi)

As a part of career counseling activities, final year students of Food Technology attended a conference on lab quality management at par global standard on July 26, 2013, organized by All India Food Processors Association (AIFPA) New Delhi.

Students also attended career counseling lectures by members of Association of Food Scientists and Technologists (AFST-I), Delhi Chapter. Mr. Sagar Khurade, President (AFST, Delhi Chapter) and managing director Suman Food Consultants, Mr. D.V. Malhan, Joint Secretary (AFST, Delhi Chapter), Mr. Radhakrishnan, Editor, Indian Food Packer. Dr. S.C. Jain, Food Technology Department, Amity University; Dr. Azad, Food Technology Department, Jamia Hamdard; Dr. Khurdiya Scientist (RETD) IARI, Mr. Nath, Former Director F&V (FPO) Ministry of Food Processing Industries addressed the students. A session on CV making and 'How to face interviews' was conducted for all final year students of the college by Career Launcher.

14 students of the college have been selected by Wipro for placement.

A database of relevant information of all final year students (2013-2014, soft copy) has been prepared by the placement cell.

Women Development Cell

(Convener- Dr. Ragini Jindal)

Using a diverse range of activities including talks by academicians and activists, signature campaigns, silent march, street theatre and various competitive events, WDC helps sensitize students on social, political and economic issues in the society. On October 9, 2013, the Cell (in collaboration with Centre for Social Research) organized a poster making competition and a debate competition on 'Sex Selection'.