

BHASKARACHARYA COLLEGE OF APPLIED SCIENCES
16th ANNUAL DAY

ANNUAL REPORT 2012-13

It gives me immense pleasure to welcome you all on the 16th Annual Day Celebration of our college. On behalf of the Bhaskaracharya fraternity, I welcome Dr. Chandan Mitra, Honorable Member of Rajya Sabha, a leading journalist, Editor and Managing Director of *The Pioneer*. Our college is thankful to Dr. Mitra for sparing his valuable time for our students and faculty on this occasion. We are also honored to have the Chairman of the Governing Body of the College, Mr. Amit Goel amongst us on this important day for which students look forward to. I also feel delighted in welcoming Mr. Anand Singh, the Treasurer of the Governing Body of the College in this programme.

Now I take this opportunity to briefly present the highlights of the year-long activities of the college for the year 2012-13

Beginning with just sixty students in 1995, the college today has nearly 1000 students on its roll. The college has the unique distinction of imparting education in eight important science disciplines like Biomedical Sciences, Microbiology, Polymer Science, Electronics, Instrumentation, Food Technology, Computer Science, Physics leading to honours degree. To support these courses, the College has some Allied departments like Biology, Bio-chemistry, Chemistry, English, Human Communication and Mathematics.

With every single year, the college has been progressing and the achievements of each day have contributed in making this college a much sought-after science college in the University of Delhi. Academically the college students have made everyone proud by bringing laurels of success. Like the previous years, this year too our students got positions at the University level and made the College proud.

Since the academic year 2007-08, the college has been conferring 'Best Student Award' to recognize the holistic development of students. From the last year, it has been decided to confer two awards; one to the Best Boy Student and other to the Best Girl Student. The evolved criterion includes good academic performance as well as active participation in the extra-curricular and co-curricular activities. I take this opportunity to announce the names of best students for the year 2012-13. This year the Best student in the Girls' Category is being awarded to **Ms. Shefali Thakur** of Microbiology department whereas the award in the Boys' Category is being bagged by Mr. **Sachin Sharma** of Computer science Department. I congratulate them for being selected for the Best Students Award.

I am also very happy to welcome **Mr. Sumit Nair** from the Food Technology department, the Alumnus of 2000-03 batch, who has been selected for the distinguished Alumnus Award for the Year 2012-13.

I am pleased to announce that **Deepika Wanganoo Memorial Award 2012** is being conferred on **Ms. Divya Karwal** from the Department of Electronics. I would like to mention here that Deepika Wanganoo was a former student of this Department in whose memory this award was initiated by her parents.

Now I take this opportunity to present before all of you the various activities and achievements of the college in 2012-13.

The college has several Clubs and Societies to develop inherent talent and caliber of students. All students of the college are required to associate themselves with these clubs. Some of the Clubs are like: Astronomy Club, Eco Club, Debate and Quiz Club, Dramatics and Fine Arts Club, Music Club, Dance Club, Mountaineering and Trekking Club, Film Club, Photography Club. All the Clubs and Societies of all major Departments engaged themselves in various activities throughout the year about which I would like to speak in brief.

All the Societies of eight main departments of the College celebrated departmental festivals in which a number of activities were organized for the students along with invited talks and presentations. The ECA Committee of the College organized a two-day Inter-College Cultural festival, *Srijan*, in which teams of many colleges participated. The Music Club and ECA Committee organized *Songs of India* for the consecutive second year in association with Culture Council, University of Delhi. The Literary Club of the College organized a Poets' Meet in which eminent poets associated with Sahitya Academi had poetry sessions.

The College, this year in collaboration with the Department of Science & Technology, Govt. of India, organized one INSPIRE Science camp for school students to motivate them to pursue science research as career.

Department of Instrumentation and Department of Electronics jointly organized a Two day National Conference titled *E-Waste Sustainability: Needs and Solutions for its Management* in collaboration with GIZ-IGEP (Indo-German Environment Partnership).

The College organized a *Seminar on Human Rights in the Natural and Social Environment* in association with the National Human Rights Commission.

During the last year, several leading scientists as well as other eminent people from various fields from India and abroad visited the college and addressed the students and faculty of the college. They are:

1. Prof. Deepak Paintal, former Vice Chancellor, University of Delhi
2. Dr. Tripti Bhatnagar, Director, Codon Biotech

3. Prof. B. C. Das, Director, Dr. B. R. Ambedkar Center for Biomedical Research
4. Dr. Shantanu Sen Gupta, Scientist, Institute of Genomics and Integrative Biology
5. Prof. R. K. Saxena, Department of Microbiology, University of Delhi South Campus
6. Prof. J.S. Virdi, Department of Microbiology, University of Delhi South Campus
7. Dr. Neerja Hajela, Head Science, Yakult – Danone India Ltd.
8. Professor B.C. Das, Director, ACBR, University of Delhi
9. Dr. Shantanu Sen Gupta, Senior Scientist, CSIR-Institute of Genomics and Integrative Biology
10. Mr. Ajay Chagti, Additonal Secretary, Delhi Govt, IT Dept
11. Dr. Anupa Sidhu, Head, Department of Home Science and Director of Lady Irwin College, University of Delhi
12. Dr Rajeev Kumar, Division of Computer Engineering, NSIT
13. Prof. Avinashi Kapoor, Deputy Dean, Student's Welfare, University of Delhi
14. Dr. Kavita Arora, Assistant Professor, Advanced Instrumentation Research Facility, Jawaharlal Nehru University
15. Ms. Richa Saini, Technical Lead, RF Silicon Technology Pvt. Ltd., Noida
16. Mr. Vinay Thapliyal, Technical Lead, ST Microelectronics India Pvt Ltd
17. Prof. R. K. Saxena, Department of Microbiology, University of Delhi South Campus
18. Dr. G.C. Dubey, Retd. Sc. G from Solid State Physics Laboratory
19. Dr. Guari Bhushan, Ramakrishna Mission
20. Mr. Tenzin Lekshay, Coordinator and Bureau of His Holiness the Dalai Media Lama, Delhi (Former Director of India Tibet Coordination Office)
21. Mr. Surya Prakash Dixit, Director, Higher education, Govt. of NCT Delhi
22. Dr. Suchitra Gupta, Dy. Dean, Student Welfare, DU
23. Ms. Nalini and Ms. Kamilini, famous Kathak duo
24. Sh. Desraj Gupta, General Secretary, Bhartiya Yog Sansthan
25. Mr. Siddharth Mukherjee of Team Sarathi (Educomp Raffles).
26. Mr. A. K. Garg, Registrar, National Human Rights Commission
27. Mr. J. S. Kochher, Joint Secretary, National Human Rights Commission
28. Prof. A. S. Narang, IGNOU
29. Prof. A. R. Vijapur, Aligarh Muslim University
30. Mr. Ashok Arora, Former Secretary, Supreme Court Bar Association
31. Prof. Shobhana Radhakrishna, Eminent Citizen, Ministry of Rural Development, Govt. of India
32. Prof. (Ms) Ashum Gupta, Director, Gandhi Bhawan
33. Mr. Prayag Shukla, Poet
34. Mr. Luxmi Narain Bajpai, Poet

35. Mr. Ankur Betageri, Poet
36. Ms. Tarannum Riyaz, Poet
37. Ms. Rajshree Trivedi, Poet
38. Ms. Alka Tyagi, Poet

The college has also brought out the college magazine, *Resonance 2013* which gives students and staff an opportunity to express their literary talent.

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

A detailed presentation of the achievements and the activities of the college are also available in the subsequent pages of the annual report.

I also take this opportunity to congratulate all the prize winners of this year- of academic and as well as co-academic fields.

From this platform, I highly appreciate the team work of the faculty, students and staff of the college as well as their active participation in the growth and development of college.

I take this opportunity to thank the Governing Body of the college for their valuable suggestions and support throughout.

The College is thankful to Govt. of NCT of Delhi for generous financial support to the college. I thank the Vice Principal; Bursar; PIO; Secretary, Staff Council and all Conveners of the Staff Council Committees and Co-ordinators of various Clubs and Societies for their hard work in the development and progress of the college.

I once again thank Dr. Chandan Mitra, Rajya Sabha Member and Managing Director, *The Pioneer*; Mr....., The Chairperson, Governing Body and Mr., the Treasurer, Governing Body for sparing their valuable time out of their busy schedule for the College Annual Day.

Thank you all for being here. I wish all the best to all my students for the forthcoming examinations as well success in all their endeavours. I conclude with this message for my dear students:

“Do not wait for extra-ordinary opportunities. Seize common occasions and make them great.”

Thank you!

Principal

List of University Toppers			
Course & Year	NAME	RANK	% OF MARKS
Food Technology II year	Manisha Rawat	University - I	79.92%
Instrumentation I year	Abhinav Abhishek	University I	85.50%
Instrumentation II year	Visvesh	University - I	86.71%
Polymers Science I year	Rajvinder Kaur	University - I	79.92%
Polymers Science II year	Nidhi	University - I	81.88%
Polymers Science III year	S.Anandi	University - I	79.96%

List of College Toppers

S. NO.	COURSE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
		Name	Position	Name	Position	Name	Position
1	Biomedical Sc.	NSP Sravanthi	I	Shubham Kesarwani	I	Sneha Batra	I
		Rahul Ahuja	II	Charu Aggarwal	II	Monika Saini	II
		Shruti	III	Namrata Gautam	III	Kunjan Khanna	III
2	Computer Sc.	Vasundhra	I	Sachin Sharma	I	Sheena Arora	I
		Meghana Kumar	II	Abhishek Dass	II	Saumya	II
		Megha Datta	III	Lokita Yadav	III	Momita Datta	III
3	Electronics	Nikhil Kumar	I	Yashu Varshney	I	Divya Karwal	I
		Arvind Pratap Singh	II	Divya Pahuja	II	Anshu Jindal	II
		Surbhi Nayak	III	Rahul Tyagi	III	Tanu Mittal	III
4	Food Technology	Sachi Sethi	I	Manisha Rawat	I	Megha Negi	I
		Monika Kakkar	II	Silvi Garg	II	Chandni Parvanda	II
		Tuba Ushmani	III	Priyanka Sharma	III	Om Prakash	III

S. No	Course	First Year		Second Year		Third Year	
		Name	Position	Name	Position	Name	Position
5	Instru- mentation	Abhinav Abishek	I	Visvesh		Anuradha Bhardwaj	I
		-	-	-	-	Pallavi Singh	I
		Ujjwal kr. Mishra	II	Sarthak joshi	II	Snigdha Metha	II
		Piyush Mishra	III	Neelam Panwar	III	Ekta Verma	III
6	Micro- biology	Debanjana Dutta	I	Shamsheeda Saifi	I	Neha Singhal	I
		Swati Singh	II	Shefali Thakur	II	Sanjana Mukherjee	II
		Babbal	III	Komal	III	Prateek Bhardwaj	III
7	Physics	Deepak Kr. Sharma	I	Jyoti	I	Gautam Padmanabhan	I
		Abhinav Anand	II	Chetna Beniwal	II	Rachna Chaurasia	II
		Pratik Chattopadhyay	III	K kirthna	III	Sunil Sharma Yadav	III
8	Polymer Science	Rajvinder Kaur	I	Nidhi	I	S. Anandi	I
		Shiksha Bakshi	II	Chavi Verma	II	Ujjwal Kumar	II
		Lavisha Ahuja	III	Pooja Sharma	III	Naveen Rawat	III

**BHASKARACHARYA COLLEGE OF APPLIED SCIENCES
16TH ANNUAL DAY**

ANNUAL REPORT 2012-13

ACADEMIC ACHIEVEMENTS OF THE FACULTY MEMBERS

Department of Biology

Dr. Anil Kumar Bali

- Member of C.B.S.E (International) team for the curriculum development of class XI and XII (Biology), Central Board of Secondary Education, New Delhi.
- Published online chapters as C.B.S.E nominated Ideator of the Committee in C.B.S.E International for class XI & XII.

Department of Biomedical Sciences

Dr. Shivani G. Virmani

- Co-principal Investigator for the UGC sanctioned major research project entitled 'Effects of Religious Fasting on Weight Loss in Indian Overweight and Obese Adult'
- Principal Investigator for DU innovative project entitled "Development of Cost Effective Nutritious Multi Cereal Bar and its Sustainable Packaging Using Nano-Biopolymer" *and two national patents are filed by the Delhi University under this project.*

•
Publications:

- Soni A, Sadhu SD, Garg M, Garg A, Handa R, Varmani SG, and Kaur B. Preparation of Starch-PVA Blend Using Potato and its Mechanical Characterisation. *Jr. of Nanomedicine and Nanotechnology*, Dec.2012 vol.3: issue 9; pg 97.
- Chauhan H, Garg M, Varmani SG and Sadhu SD. To Study the Preparation and Nutritional Quality of Multi-Cereal Bar in the *Proceedings of the ICBPN 2012 International Conference* held in Kottayam, Kerala on 20-22, September 2012.
- Umair S, Garg M, Varmani SG and Sadhu SD. Development of Multi-Cereal Protein Bar with Jaggery in the *Proceedings of the ICBPN 2012 International Conference* held in Kottayam, Kerala on 20-22, September 2012.
- Soni A, Sadhu SD, Garg A, Handa R, Garg M and Varmani SG. *Preparation of a Packaging Material from a Biopolymer and Study of the Mechanical Properties of the Film* has been accepted for the International Conference by APA at Chandigarh on 21-22 Feb. 2013.

- Dutta, A Jain, S, Varmani, S G, Garg M and Sadhu,S D. Preparation of Low Cost Multi Cereal Nutritive Bar in *J Food Process Technol Open Access*, Nov. 2012, vol. 3, p10.
- Negi,T, Garg M, Varmani,SG and Sadhu,S. Making of Papaya Papada in the Proceedings of 1st International Conference on *Innovations in Food Processing, Value Chain Management and Food Safety* at NIFTEM, Kundali, Sonapat, Haryana on 10-11 Jan.2013.
- Jain S, Dutta A, Varmani S G; Garg M, Sadhu SD. Low Cost Multi Cereal Nutritive Bar in the *Proceedings of the 1st International Conference on Innovations in Food Processing, Value Chain Management and Food Safety* at NIFTEM Kundali, Sonapat, Haryana on 10-11 Jan.2013.

Dr. Uma Dhawan

- Invited as an external expert for the comprehensive examination of a PhD student (Ms Sangeeta Sharma) at The Energy Resource Institute (TERI), India Habitat Center Complex, Lodhi Road, New Delhi on July 20, 2012.
- Resource person in workshop for college teachers on theory and practical course “Biochemistry and Environmental Chemistry” for B.Sc (Hons) Chemistry (CHHT-514 and CHHP-514) organised by the Department of Chemistry, University of Delhi, July 2-7, 2012.

Department of Chemistry

Dr. Ramesh Kataria

- Co-presented a paper with Harish Kumar Sharma (Kurukshetra University) on *A Rapid Extractive Spectrophotometric Method for the Determination of Tin with 6-chloro-3-hydroxy-2-(2'-thienyl)-4-oxo-4H-1-benzopyran* in Chemical Science Section of the 100th Indian Science Congress held at Kolkata University during Jan 3-7, 2013.
- Joined the Korea Atomic Energy Research Institute (KAERI), Daejeon- South Korea as visiting scholar for a period of one year.
- Project Faculty of Innovation Project of the University of Delhi, titled “Determine the Speciation of Some Selected Heavy Metals from E-waste and their Impact on Ground Water,” with Dr Manoj Tiwari and Dr. Parthasarthy Pal.

Dr Manjeet Singh

- Manjeet Singh Barwa, Shubhra and Kiran Singh on *Synthesis, Spectroscopic, Thermal and Biological Studies of Novel Cobalt(II), Nickel(II), Copper(II) and Zinc(II) Complexes of Fluorobenzalidene Schiff Base* at Chemical Constellation Cheminar – 2012 (CCC-2012) (An International Conference) on Sept. 10-12, 2012 at Dr. B R Ambedkar National Institute of Technology, Jalandhar.
- Balaram Pani & Manjeet Singh Barwa on *Effect of Seasonal Variation on Metal Speciation in Leachate from a Thermal Power Plant Ash Pond: Impact on Receiving Waters* at Chemical Constellation Cheminar – 2012 (CCC-2012) (An International Conference) Sept. 10-12, 2012 at Dr. B R Ambedkar National Institute of Technology, Jalandhar.

Department of Electronics

Dr. Manoj Khanna

- One of the Principal Investigators in the University of Delhi Innovation Projects from Colleges Scheme titled *Study of Rise in Consumption of the Mobile phones/Electronic Gadgets in Delhi Region and Material Analysis Projecting Potential Electronic Waste and their Impact on Environment* (BCAS_101).
- Co Co-ordinator of the National Conference entitled **E-Waste Sustainability: Needs and Solutions for its Management** organized jointly with **GIZ-IGEP** (Indo-German Environment Partnership) on 7-8 March 2013 at Bhaskaracharya College of Applied Sciences.
- Appointed as Vice Principal of the College w.e.f. 18th March, 2013 for a period of one year.

Dr. Avneesh Mittal

1. Papers in International Journals

- Avneesh Mittal, Avinashi Kapoor and T. K. Saxena. (June 2012) Genetic Algorithm Based Incremental PID Temperature Controller For Long Dead Time Nonlinear Bath. *Int. J. of Engineering & Science Research*, Volume-2, Issue-6, pp. 449-467.
- Avneesh Mittal, Avinashi Kapoor and T. K. Saxena. (2012). Genetic Algorithm Based Tuning of Fixed Bias PID Controller for a Nonlinear Constant Temperature Water Bath under Load Disturbances. *J. Automation & Systems Engineering*, 6-2, pp. 96-109.
- Dheeraj Kesharwani, Avneesh Mittal, Vijay Sharma, Priyanka Jain and T. K. Saxena. High Speed Measurement and Control of Temperature through Multitasking/

Multithreading using VB-5.0. *International Journal of Computer Science and Security (IJCSS)*. (accepted for publication)

- Shashank Bansal, Avneesh Mittal, Vijay Sharma, O. P. Sharma and T. K. Saxena. (Nov. 2012) Design and Development of Advanced Cross Assembler for 8085 Microprocessor. *Int. J. of Computer Applications* (0975-8887), ICNICT 2012, pp. 11-13.
- 2. Attended Two International conferences where 4 papers were presented including one Best paper award.
- 3. Attended three National Conferences, where 19 papers were presented during 2012-2013.

Dr. Manoj Tiwari

- Project Faculty of Innovation Project of the University of Delhi, titled “Determine the Speciation of Some Selected Heavy Metals from E-waste and their Impact on Ground Water,” with Dr Ramesh Kataria and Dr Parthasarthy Pal.

Dr. Jitender Kumar

Published Papers

- Jitender Kumar, S. Madan, D. Madhwal, I. Singh, P. K. Bhatnagar, P.C.Mathur and S S Islam (2012). Characterization of Quantum Dots of CdSe_xS_{1-x} Embedded in Borosilicate Glass using XRD,UV-Vis Absorption and Raman Spectroscopy Measurements. *International Journal of Nanoscience*, Vol. 11, 1250015 (2012) 8 Pages.
- S K Dixit, S Madan, D Madhwal, Jitender Kumar, I Singh, C S Bhatia, P K Bhatnagar and P C Mathur (2012). Bulk Hetrojunction Formation with Induced Concentration Gradient from a Bilayer Structure of P3HT:CdSe/ZnS Quantum Dots using Inter-Diffusion Process for Developing High Efficiency Stable Solar Cell. *Organic Electronics*, Vol. 13, issue 4 page 533-574 (2012).

Papers in Conferences

- A Kaur, Jitender Kumar, I Singh, D Madhwal, A Kumari, N Prasad, P K Bhatnagar and P C Mathur. Nanostructure Graphene and Chemically Functionalized Multiwalled Carbon Anotube based Gas Sensors in *Indo-Canadian Symposium on Nano Science and Technology*, Feb 20-22, 2013.
- S Madan, S K Dixit, Jitender Kumar, I Singh, D Madhwal, P K Bhatnagar and P C Mathur. To Study the Optical and Electrical Properties of ii-vi Compound

Semiconductor Quantum Dots for Device Applications in *Indo-Canadian Symposium on Nano Science and Technology*, Feb. 20-22, 2013.

Department of English

Dr. Prerna Malhotra

- Haldar, Deb Dulal, Dev, Anjana Neira and Malhotra, Prerna (2012). *Technical Writing and Communication: Theory and Practice*. New Delhi: Book Age Publications.
- Was a part of the Editorial Team of the Asia TEFL International Conference held at Hotel Leela Kempensiky, Gurgaon on 4-6 Oct. 2012 which has been the biggest International Conference of English Language teachers ever held in India.
- Presented a paper on '*Technical Writing: A Specific Genre of ELT*' at the Asia TEFL International Conference held at Hotel Leela Kempensiky, Gurgaon on 4-6 Oct. 2012.
- Co-presented a paper with Alka Dutt on *Why Grammar for Our Students?* at the Asia TEFL International Conference held at Hotel Leela Kempensiky, Gurgaon on 4-6 Oct. 2012.
- Coordinator, *Seminar on Human Rights in Natural and Social Environment* organized at Bhaskaracharya College of Applied Sciences on 28th March 2013 in association with National Human Rights Commission.

Department of Food Technology

Dr. Rizwana

- Delivered a lecture on *Preservation of Meat to Ensure Safety and Maintain Quality* in the 7th Short Term Training Program (STTP) on Quality Issues in Meat and Poultry Processing Sector on 2-4 April 2012 organised by NIFTEM and National Meat and Poultry Processing Board, New Delhi.
- Project Faculty of Innovation Project BCAS-104 on 'Development and Study of Alternate Packaging Materials from Agro-wastes and its Application in Food Packaging', University of Delhi.

Dr. Shalini Sehgal

- Received the Best Teacher Award (citation and cash award) for the year 2011-2012 conferred by Directorate of Higher Education presented by Mrs. Sheila Dikshit, Chief Minister, Delhi on 10th May, 2012.

- Paper presented at the International Conference and Exhibition on Food Technology and Processing titled *Evaluation of Food Safety Practices in the Retail Outlets of West Delhi (India)* at Hyderabad, 20-22 November, 2012.
- Principal Investigator of the DU Innovative Project BCAS-102 titled “Studies to Assess the Quality of Fruits and Vegetables with Respect to Microbial Load and the Remedial Measures for their Control”.
- Coordinator of the ongoing project “Star College Scheme for strengthening of life science and biotechnology education and training at undergraduate level” sanctioned by the Department of Biotechnology (DBT), Ministry of Science and Technology.

Dr. Eram Rao

- Rao, Eram. (2013) *Food Quality Evaluation*. New Delhi: Variety Book Publishers and Distributors New Delhi.
- Presented a paper on *Human Resource and Skill Development of Food Processing Industry* in International Conference on Development of Backward Regions Through Agriculture & Food Processing: Preparing a Roadmap held at Institute of Professional Studies, University of Allahabad from December 27 - 28, 2012
- Presented a talk on *Nutritional Requirements for the Mother and Child* in Teleconferencing for Doctors at IGNOU, New Delhi on Feb. 14, 2013.

Dr. Meenakshi Garg

Projects

- Principal investigator for the UGC sanctioned major research project entitled *Effects of Religious Fasting on Weight Loss in Indian Overweight and Obese Adult*.
- Principal investigator for DU innovative project entitled *Development of Cost Effective Nutritious Multi Cereal Bar and its Sustainable Packaging Using Nano-Biopolymer and two national patents are filed by the Delhi University under this project*.

Publications

- Soni A, Sadhu SD, Garg M, Garg A, Handa R, Varmani SG, and Kaur B. (Dec.2012). Preparation of Starch-PVA Blend Using Potato and its Mechanical Characterisation. *Jr. of Nanomedicine and Nanotechnology*, vol.3: issue 9; pg 97.

- Chauhan H, Garg M, Varmani SG and Sadhu SD. To Study the Preparation and Nutritional Quality of Multi-Cereal Bar in the *Proceedings of the ICBPN 2012 International Conference* held in Kottayam, Kerala on 20-22, September 2012.
- Umair S, Garg M, Varmani SG and Sadhu SD. Development of Multi-Cereal Protein Bar with Jaggery in the Proceedings of the *ICBPN 2012 International Conference* held in Kottayam, Kerala on 20-22, September 2012.
- Soni A, Sadhu SD, Garg A, Handa R, Garg M and Varmani SG. *Preparation of a Packaging Material from a Biopolymer and Study of the Mechanical Properties of the Film* has been accepted at the International Conference at Chandigarh by APA on 21-22 Feb. 2013.
- Dutta, A Jain, S, Varmani, S G, Garg M and Sadhu, S D. (Nov. 2012). Preparation of Low Cost Multi Cereal Nutritive Bar in *J Food Process Technol Open Access*, vol. 3, p10.
- Negi, T, Garg M, Varmani, SG and Sadhu, S. Making of Papaya Papada in the Proceedings of 1st International Conference on *Innovations in Food Processing, Value Chain Management and Food Safety* at NIFTEM, Kundli, Sonapat, Haryana on 10-11 Jan. 2013.
- Jain S, Dutta A, Varmani S G; Garg M, Sadhu SD. Low Cost Multi Cereal Nutritive Bar in the Proceedings of the 1st International Conference on *Innovations in Food Processing, Value Chain Management and Food Safety* at NIFTEM Kundli, Sonapat, Haryana on 10-11 Jan. 2013.

Department of Human Communication

Dr. Madhulika Bajpai

- Bajpai, M. (2012). 'Communication' and 'Close Relationships' in *Social Psychology*. New Delhi: McMillan Publishers, 235-268 and 366-408.
- Bajpai, M. and Chadha, N. K. (2012). Psycho-social Determinants of Marital Discord and Satisfaction in Changing Times: Hope Floats". *Journal of Positive Psychology*, Vol. 1 (1), 47-65.
- Presented a paper on "Positive Health: Prevention is Better than the Cure" in a National Conference on *Career Development: Preparing for the Road Ahead*, organized by India Career Development Association, 26-27 May, 2012, Delhi.

- Delivered a lecture as a Resource Person on *Managing Marital Relationships* in the Refresher Course in Psychology, Counseling and Social Work, September, 2012.
- Keynote Speaker (Gender and Youth) in an International Seminar organized by World Organization of Student and Youth (WOSY) on the theme of *Youth and Nation Building* on 2-3, February, 2013 at Hyderabad.

Department of Instrumentation

Dr. Geeta Bhatt

- One of the Principal Investigators in the University of Delhi Innovation Projects from Colleges Scheme titled *Study of Rise in Consumption of the Mobile phones/Electronic Gadgets in Delhi Region and Material Analysis Projecting Potential Electronic Waste and their Impact on Environment* (BCAS_101)
- Delivered an invited talk titled ‘E-waste: Price of Wiring the World’ at National Conference on Bio Electronics and Bio Medical Technology at Jamia Hamdard University, New Delhi on 29-30 Jan. 2013.
- Co-ordinator of the National Conference entitled **E-Waste Sustainability: Needs and Solutions for its Management** organized jointly with **GIZ-IGEP** (Indo-German Environment Partnership) on 7-8 March 2013 at Bhaskaracharya College of Applied Sciences.

Department of Microbiology

Dr. Purnima Anand

- Sanctioned Innovation Project BCAS 102 titled, *Studies to Assess the Quality of Fruits and Vegetables with respect to Microbial Load and the Remedial Measures for their Control* jointly with Dr. Shalini Sehgal and Dr. Uma Chaudhry.
- Jury member for second national level exhibition and project competition under INSPIRE scheme of DST, organised in October 2012.

Dr Tejpal Dhewa

- Invited to deliver a lecture on “Fermentation Biotechnology” on April 07, 2012 at School of Biotechnology, Sharda University, Greater Noida (UP).
- Invited to deliver a lecture on “Silage Production: Using Microbial Cell” on July 12, 2012 at the Department of Microbiology, Indian Agriculture and Research Institute (IARI) Pusa, New Delhi.

- Invited to deliver a lecture on “Techniques to Study Soil Microorganisms/Soil Microbial Groups” on Oct. 03, 2012 at Department of Microbiology, Indian Agriculture and Research Institute (IARI) Pusa, New Delhi.
- N Mehra, R S Majumdar, S Kumar & T Dhewa. (2012). Probiotics: Preventive and Clinical Applications. *Biotechnology Research Bulletin* 1: 015-020.
- M Puniya, KPS Sangu, A Bhardwaj, S Kumar, T Dhewa and S Pant. (2012). Isolation and Biochemical Characterization of Potential Probiotic Culture from Dahi. *Research & Reviews: A Journal of Dairy Science and Technology*, 1 (2): 18-31.
- M Puniya, KPS Sangu, A Bhardwaj, D Gupta, S Kumar, T Dhewa and S Pant. (2012). Probiotic and Functional Attributes of *Lactobacillus Spp* Isolated from Human Faces. *Journal of Research in Antimicrobials*. 1: 001-011.
- T. Dhewa. (2012). Screening, Production Purification and Potential Use of Bacteriocins from Lactic Acid Bacteria of Meat and Dairy Food Origin. *International Conference on Nutrition and Food Sciences, Proceeding IPCBEE Vol. 39* (IACSIT Press, Singapore).
- Tejpal Dhewa. (2012). Protocols for Evaluation of Probiotic Attributes of Lactic Acid Bacteria. Lambert Academic Publishing GmbH & Co. KG, Saarbrucken, Germany. ISBN-978-3-8465-1441-2 (Monograph).

Department of Polymer Science

Dr. Susmita Dey Sadhu

Project

- Principal investigator for DU sanctioned innovative project on “Development of Cost Effective Nutritious Multi Cereal Bar and its Sustainable Packaging Using Nano-Biopolymer” and two national patents are filed by the Delhi University under this project.

Publications

- Soni A, Sadhu SD, Garg M, Garg A, Handa R, Varmani SG, and Kaur B. (Dec.2012). Preparation of Starch-PVA Blend Using Potato and its Mechanical Characterisation. *Jr. of Nanomedicine and Nanotechnology*, vol.3: issue 9; pg 97.
- Chauhan H, Garg M, Varmani SG and Sadhu SD. To Study the Preparation and Nutritional Quality of Multi-Cereal Bar in the *Proceedings of the ICBPN 2012 International Conference* held in Kottayam, Kerala on 20-22, September 2012.

- Umair S, Garg M, Varmani SG and Sadhu SD. Development of Multi-Cereal Protein Bar with Jaggery in the Proceedings of the *ICBPN 2012 International Conference* held in Kottayam, Kerala on 20-22, September 2012.
- Soni A, Sadhu SD, Garg A, Handa R, Garg M and Varmani SG. *Preparation of a Packaging Material from a Biopolymer and Study of the Mechanical Properties of the Film* has been accepted at the International Conference at Chandigarh by APA on 21-22 Feb. 2013.
- Dutta, A Jain, S, Varmani, S G, Garg M and Sadhu, S D. (Nov. 2012). Preparation of Low Cost Multi Cereal Nutritive Bar in *J Food Process Technol Open Access*, vol. 3, p10.
- Negi, T, Garg M, Varmani, SG and Sadhu, S. Making of Papaya Papada in the Proceedings of 1st International Conference on *Innovations in Food Processing, Value Chain Management and Food Safety* at NIFTEM, Kundli, Sonapat, Haryana on 10-11 Jan. 2013.
- Jain S, Dutta A, Varmani S G; Garg M, Sadhu SD. Low Cost Multi Cereal Nutritive Bar in the Proceedings of the 1st International Conference on *Innovations in Food Processing, Value Chain Management and Food Safety* at NIFTEM Kundli, Sonapat, Haryana on 10-11 Jan. 2013.
- Filed two patents for National Patent through DU Innovation Scheme entitled "NUTRITIONAL COMPOSITIONS AND METHODS FOR MANUFACTURING THE SAME" and "COATING COMPOSITIONS AND METHODS FOR PREPARATION THEREOF".

Library

Dr Ranjeet Thakur

- Delivered four Lectures to government School Librarians on 11 August 2012 at DIET Ghumanhera, New Delhi..
- Library Training was imparted to 5 students of Certificate in Library Science and Diploma in Library and Information Technology of Delhi Library Association.
- Supervised two students of MLISc (IGNOU) in their research projects.

ACTIVITIES OF DEPARTMENTS, CLUBS AND SOCIETIES

Star College Scheme

Coordinator – Dr. Shalini Sehgal

Members – Dr. Uma Chaudhary and Dr. Purnima Anand

The following activities were conducted by the partner departments under this scheme:

A workshop entitled *Gene Expression and Analysis* was organized for Biomedical Science students. Dr. Tripti Bhatnagar, Director, Codon Biotech conducted the workshop. B. Sc. (Hons) (BMS) III year Students attended a Conference at PHD Chamber entitled “Pharma Tech India 2012: Towards Cutting Edge Technology” held on 14th September, 2012 at New Delhi. Faculty of the department conducted an in-house training for their Students of Semester-IV during summer vacations. Lectures by Prof. B. C. Das, Director, Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi and Dr. Shantanu Sen Gupta, Scientist, Institute of Genomics and Integrative Biology, New Delhi were also organised.

Sukshmjeev, the Microbiology Society organized a lecture by Prof. R. K. Saxena (Department of Microbiology, University of Delhi South Campus) on the topic *Bio-catalysis: A Promising Tool for Environmentally Benign Industrial Growth*. A poster making competition on the *Importance of Microorganisms* was also organized. B.Sc. (H) Microbiology V semester students visited Technology Based Incubator Centre, University of Delhi, South Campus. A lecture entitled *Microbiology- an Exciting Career Ahead* was also delivered by Prof. J.S. Viridi (Department of Microbiology, University of Delhi South Campus).

B.Sc. (H) Food Technology Semester II and IV students visited Parle Biscuit Factory located at Bahadurgarh, Haryana to gain industrial insight into baking technology. Dr. Neerja Hajela, Head Science, Yakult – Danone India Ltd. presented a health talk on the *Role of Probiotics in Human Health*. A poster making competition on the theme *Science – Then and Now* was also organized.

A trip to the Yakult Plant located at Sonapat was also organized for better understanding of fermentation technology for the students of all the three participating departments.

Students of Food Technology Department attended the following seminars/workshops:

4th International Summit cum Exhibition on "Food Processing, Agribusiness and Cold Chain" on November 5, 2012 at New Delhi; National Conference on Ushering Second Green Revolution in Indian Agriculture through Public Private Partnership organized by CII held at Vigyan Bhavan on 11th December 2012; International Conference on Innovations in Food Processing, Value Chain Management and Food Safety held at NIFTEM, Kundli, Sonapat on 10- 11 January 2013; A few girl students attended US-India Workshop on Best practices for Women in Science on 10th December 2012. Ms. Manisha Rawat of the department was awarded "Food Safety" scholarship by Italian Technical Services.

Better Process Control School at Bhaskaracharya College of Applied Sciences also launched their website <http://bpcs-bcas.in/> for effective academia industry interface in December 2012.

Department of Biomedical Science

The department of Biomedical Science of the college, in collaboration with Acharya Narendra Dev College, started a new add-on course in Bioinformatics and *in-silico* Drug Discovery in 2012 for the undergraduate students. The primary aim of this course is to suit the fast track needs of bioinformatics and *in-silico* drug discovery divisions of pharmaceutical companies and research organizations. The course includes both lectures and hands-on sessions (120 hours) on sequence and microarray analysis, phylogenetic analysis, importance of Bayesian statistics, molecular modeling and protein-drug docking.

The BMS society *DNAmics* organized its annual festival *Genesis'13* on 19th February 2013. The event comprised of two invited lectures by Professor B.C. Das, Director, ACBR, University of Delhi and Dr. Shantanu Sen Gupta, Senior Scientist, CSIR-Institute of Genomics and Integrative Biology followed by various students' activities like Graffiti, Quiz, Poster competition and Talent hunt.

Department of Computer Science

Interface, the annual technical departmental festival of *CS.Net*- the Computer Science Society, has always been synonymous with celebration of emerging technology. *Interface 2013* was held on 20th and 21st February. The inauguration ceremony was graced by the presence of Mr. Ajay Chagti, Additonal Secretary, Delhi Government, IT Department, as the chief guest for the event. He broadened the perspective of students by a lecture on E-Governance.

Department of Food Technology

The Food Technology Departmental Society ‘Ambrosia’ organised its annual inter college festival, Ambrosia 2012 on 27th September. Dr. Anupa Sidhu, Director of Lady Irwin College, University of Delhi was the chief guest for the occasion. During the technical session a lecture on ‘Food Packaging’ was given by Mr. Suman Kumar, an alumni of BCAS and now an executive at Honda Motors. A number of events were conducted to give an opportunity to the students from different colleges to display their talent in the field of Food Science. The most interesting of all was ‘Taste of India’, an event in which participants presented their home made dishes representing different states of India. Besides, there were brain storming sessions like Food Quiz, Crossword puzzle, Essay writing, Painting and Photography events on ‘Safe Food’ and ‘Street Food’.

Department of Electronics

The *SPARKS* departmental society of Electronics organized its technical festival, “Techmania” on 05th Mar 2013. Dr Rajeev Kumar from Division of Computer Engineering, NSIT was invited to deliver a lecture on Artificial Intelligence on this occasion. Various technical events were also held during the festival.

Department of Instrumentation

Departments of Instrumentation and Electronics jointly with **GIZ-IGEP** (Indo-German Environment Partnership) organized Two day National Conference entitled **E-Waste Sustainability: Needs and Solutions for its Management** on 7-8 March 2013. The Conference aimed at identifying and discussing the major challenges and needs associated with management and sensitization of e-waste among the various stakeholders from different strata of society and work culture for accountability, traceability and transparency of e-waste related information systems. Based on the 4R principles of recycle, refurbish, re-use

and reduce the Conference attempted to discuss and cover various themes by paper presentations from research scholars and panel discussions having experts from the domain of e-waste management and recycling. The Conference also dedicated a special session and panel discussion on the need of integrating E-Waste and Green Design in University curriculum across the nation as part of Environmental Science, Electronics, Instrumentation, Physics and Chemistry. The panellists in this session included Prof. J.M Khurana, Dean Examinations, University of Delhi, Prof. P.K Bhatnagar, Head, Department of Electronic Science, University of Delhi, Prof. Srinivas, Dean, International Relation (Science and Technology).

A “Student-Alumni Interaction” was organized in collaboration with Career Counseling and Placement Cell on 18 October, 2012. Prof. Avinashi Kapoor, Joint Dean, Students’ Welfare, University of Delhi was the Chief Guest. Our distinguished alumni Dr. Kavita Arora, Assistant Professor, Advanced Instrumentation Research Facility, Jawaharlal Nehru University and Ms. Richa Saini, Technical Lead, RF Silicon Technology Pvt. Ltd. (Noida) delivered lectures.

The departmental technical fest, Aagaaz 2013 was organized on 23-24 January. Mr. Vinay Thapliya, Technical Lead, ST Microelectronics India Pvt Ltd. delivered the keynote address on “Embedded Systems and MEMS”. The events included: Workshop on Ethical hacking, Social Media Marketing, Project Exhibition, Technical Paper Presentation, Technical Chitrakari, Robot Race and Line follower, Debugging contest, Spellathon and Reverse Gear (Debate and extempore competition), Technical Crossword and Technical Quiz and Circuit making and Digilution.

Subhashree, B.Sc. (H) Instrumentation III year was selected for fellowship under “Create to Inspire” program by Nokia; Abhinav Abhishek and Jeevat Deep Singh from B.Sc (H) Instrumentation II year participated in the academic and interaction session during the “5th Science Conclave/ INSPIRE Internship Program”. An MHRD –DST initiative held at Allahabad. Abhinav Abhishek was also selected as the recipient of POSCO Asia Fellowship at University of Delhi.

Department of Microbiology

Sukshmjeev, the Society of Department of Microbiology organized lectures by Prof. R. K. Saxena (Department of Microbiology, University of Delhi South Campus) on the topic “ Biocatalysis: A promising tool for environmentally benign industrial growth and Prof. J.S. Viridi (Department of Microbiology, University of Delhi South Campus) entitled “Microbiology- an exciting career ahead” and a poster making competition on the importance of microorganisms. An educational trip was organized to Technology Based Incubator, University of Delhi South Campus for students of V semester. The alumni of the department interacted with the students and shared their experiences. Dr. Neerja (Yakult Pvt. LTD) gave a lecture on importance of probiotics and our third year students also visited the company plant to see the latest technology and research and development facilities. Prof. Deepak Pental, former Vice-Chancellor, University of Delhi, delivered a lecture in the annual microbiology festival, MICROQUEST 2013 followed by various students' activities such as Art streak, Collage competition, Micro burst, Micro masti and Treasure hunt. For the first time, the society released a magazine ‘Life under Lens' in which students contributed a variety of articles related to microbiology and science.

Department of Physics

QUBIT - The Society of the Department of Physics, organized its annual festival “Z-Gravity” on 25th and 26th September 2013. Various lectures were delivered by eminent professors from IIT Delhi and Department of Physics, University of Delhi, followed by various students activities like quiz competitions, debate, power-point presentations, etc. Students visited the astronomical laboratory ARIES (Aryabhata Research Institute of Observational Sciences) in Nainital. ARIES’ visit was a great learning experience for students. A small lecture was also delivered for the students to give them an idea about the institute.

Department of Polymer Science

Society of the Department, PEARLS organized one day academic event on 28 September 2012, which comprised of a lecture of Dr. G.C. Dubey, Retd. Sc. G, from Solid State Physics Laboratory, Delhi-110054 and students’ activities like poster competition and a panel discussion. Society also organized a visit to Delhi Technological University to attend a seminar by Indian Plastic Institute on *Petrochemicals*.

Extra Curricular Activities Committee**(Convener- Mr. Ramesh Kumar)**

This year the Committee and the Music Club organized *Songs of India* in association with Culture Council of the University of Delhi. The committee also organized *Srijan*, the two day inter-college cultural festival on 28th Feb. and 1st March 2013 which saw unprecedented participation from various colleges of the city.

Astronomy Club**(Convener- Mr. Amit Kumar)**

The purpose of astronomy club is to inspire the students with general interest in Astronomy. With this motive in mind club show-cased various documentaries related to astronomical aspect. It also organised a quiz competition to make students aware of their knowledge.

Dance Club**(Convener-Dr.Renu Baweja)**

Dance is the hidden language of the soul.

During the academic session 2012-2013, the Dance Club organized a Dance Quiz competition in the college on 12th September 2012. UVA Brothers, an organization, as part of dance talent hunt across various colleges of Delhi University, conducted a talent hunt programme in the college. The Dance performance of the students of the college Dance Group on the occasion of Independence Day also got lot of appreciation from students and staff. The dance club this year made effort to arrange a choreographer to train the students of the dance club.

Debate and Quiz Club**(Convener- Dr. Tejpal Dhewa)**

During the academic session (2012-13), Debate and Quiz Club organized/participated in the following activities: On Aug. 14, 2012 A Debate competition on the topic *Is Anna Hazare Another Gandhi For India* was organised. On Aug. 14, 2012 Lecture on *150th birth Anniversary of Swami Vivekananda* by Dr. Guari Bhushan from Ramakrishna Mission, New Delhi was organized. On Aug. 15, 2012 Online Gen Next Leader Discovery Contest (Ramakrishna Mission, New Delhi) was organized, 35 students participated. On Sept. 28, 2012 A Debate Competition was organized on the topic *The world was better when blackberry and apple were fruits*. On Oct. 17, 2012 a lecture on *Tibet History* by Mr. Tenzin Lekshay, Coordinator and Bureau of His Holiness the Dalai Media Lama, Delhi (Former Director of India Tibet Coordination Office) was organized . On Nov.03, 2012 a Quiz Competition for *Sweden India Nobel Memorial Quiz 2012* was organized. Team of three members were selected for the grand finale held at IIT Delhi. On Jan. 21, 2013 a Quiz

Competition on the topic *Capital Punishment for Award of Crime is Against Humanity* was organized. On Jan. 23, 2013 Mr. Anuj Sharma, Subham Surana, Deepak Rai and Deepak K Sharma qualified for Final-Quest (Quest 2012-2013) organized by Centre for Science Education and Communication (DU). On Feb. 13, 2013 a Quiz Competition (General Science, History, Literature and culture and sports) was organized in which sixty students appeared in Preliminary round and sixteen students (four teams) qualified for final round.

Darpan-the Dramatics Club

(Convener- Dr. Prerna Malhotra)

The Club staged on the occasion of Independence Day a play showcasing the present scenario of the country and the hindrances which are coming in the path of development. *Darpan* along with the Women Development Cell of the college performed many plays for various NGOs: 'Pukar' the street play on the theme of 'female foeticide' was staged for 'Centre for Social Research' in Sector-6/10 Market, Dwarka on 13th October 2012 and on 9th January 2013, at the 'India Habitat Centre'. The club also staged another play portraying violence against women at National Law University, Dwarka on 14th February'13 for *One Billion Rising* campaign. The students of the club won second prize at MERI College, I.P. University on Oct. 2012 and third prize in the inter-college cultural festival of Dyal Singh Evening College.

Fine Arts Club

(Convener- Dr. Prerna Malhotra)

On the occasion of Independence Day, Fine Arts Club organized Kite Making competition on the theme "What does Freedom mean in your Life" and Graffiti competition on the topic "Mera Desh". Jointly with Gandhi Study Circle organized a painting competition on "Significant Events in Gandhiji's Life". The club organized a sensitization programme on Organ Donation on 20th Feb. 2013 in association with MOHAN Foundation. Jointly with NSS a Mela was organised on 28 Feb.-1 March during Srijan'2013. In the mela the members of the club took initiative to design hand made cards, bags, bookmarks, painted *diyas* and different showpieces. The money collected by selling these items will be used for a good cause.

Eco Club

(Convener-Dr. Parminder Kaur)

The Eco club organized an Awareness Campaign on "Disposal of Waste" in August in association with RAMY Foundation and MCD. Eco Club along with the NSS started

off the Cleanathon drive where students were inspired to keep their surroundings clean. On the occasion of International Ozone Day, various students of the club attended the workshop on “Ozone and its impact” at the Delhi Secretariat. A Declamation competition on “Ozone: Good and Bad” was conducted. A rainwater harvesting (RWH) seminar was held where the President of Forum for Organized Resource Conservation and Enhancement, (FORCE, an NGO), Ms. Jyoti Sharma, emphasized on the necessity of RWH and the various techniques to do so. Also an environment related quiz competition was organized. A few students participated in the YUVA (Youth Unite for Voluntary Action) Meet 2013.

Film Club

(Convener - Dr. Partha S. Pal)

The Film Club made a short film titled "Dark Turn" which was directed, edited and shot by the students of the college. The film was showcased in the college on 30 January 2013. The film club also showcased the award winning movie "Hugo" in September 2012.

Literary Club-LYRIX

(Convener –Dr. Prerna Malhotra)

LYRIX conducted a “Creative Writing and Presentation Competition” in the college on 19th September 2012 as its debut event where the students wrote an original creative piece on “*It is easier to build walls than bridges*” which was announced on the spot. The prize winning entries have been published in this year’s issue of the College Magazine, *Resonance*. The Club organized an intra-college competition on ‘Create an Ad for a Cause’ on 20th Feb. 2013 on a very sensitive issue of organ donation. Literary Festival *Abhivyakti-13* was celebrated on 22nd March in which inter-college activities like language and literary quiz, self composed humorous poetry recitation competition and character play were organized but the attraction of the event was the Poets’ Meet in which eminent Hindi and English poets associated with Sahitya Academi read out their poetry.

Music Club

(Convener –Harsupreet Kaur)

The Music club and the ECA committee, in collaboration with the Culture Council, Delhi University, organized “Songs of India”, an Inter-College Group Song competition for the second consecutive year on 17th January, 2013. Mr. Surya Prakash Dixit, Director, Higher Education, Govt. of NCT Delhi; Dr. Suchitra Gupta, Deputy Dean, Student Welfare, University of Delhi and Ms. Nalini and Ms. Kamilini, the

much renowned and internationally acclaimed Kathak duo, graced the occasion. The students also performed on the occasion of Independence Day. The college choir participated in “Vande Mataram”, an inter college group song competition organized by Deen Dayal Upadhyaya College in collaboration with Culture Council, D.U. and won 3rd position. Our students bagged the 2nd prize in the “Songs of India” and our college rock band won the 3rd prize in band competition held in Dyal Singh College and also at the prestigious *Antradhvani*, the cultural festival of the University of Delhi.

Photography Club

(Convener: Dr. Jitender Kumar)

This year, Clickerati, the Photography Club organized a lecture on the topic *Photography Tips: Elements to Capture the Winning Shot* which was delivered by Dr. Pramod Sagar, Vice- Principal of Shivaji College. All technical features covered in photography were discussed by Dr. Sagar. The session was followed by a *photography exhibition* by the students.

Yoga Club

(Convener- Ms. Shweta Gupta)

To enhance awareness about the efficacy of Yoga in healthy lifestyle, Yoga Club of the college invited eminent yoga experts from Bhartiya Yog Sansthan and organized following activities : a demonstration on ‘Sukshmkriya and Laughter Yoga’ was organized on January 30, 2013; a lecture on ‘Yoga for Youth’ delivered by renowned yoga expert Sh. Desraj Gupta, General Secretary, Bhartiya Yog Sansthan on February 8, 2013 during INSPIRE Science Camp and a quiz competition on February 13, 2013.

Career Counselling and Placement Cell

(Co-cordinators-Dr.Rizwana and Mr.Vikas Tyagi)

Lectures were organized on “From College to the Workplace” by Mr. Siddharth Mukherjee of Team Sarathi (Educomp Raffles) and about Professional skills training to prepare students for corporate scenario as well as placement and also the scope of higher education in overseas institutions for the various science courses of our college by “The Chopras”. This year 160 final year students have enrolled in Central Placement Cell of University of Delhi and 263 students of 1st and 2nd year were enrolled for internship.

Equal Opportunity Cell/ Enabling Unit

(Coordinator- Dr. Ramesh Kataria)

The following construction activities were supervised for the benefit of Persons with Disabilities : One Ramp with steel railing pipe (Adjacent to stage), Two Ramps (Near Room No. 19 & Stage), Eight small ramps (at different locations of the College) and Modification of the existing toilets (one Gents + one Ladies) so as to make them accessible for the persons with disabilities..

NSS Unit

(Coordinator-Dr. Nalla Vijay Kumar)

The NSS unit of the college organized three events during the year 2012-13: Blood Donation Camp was organized in association with AIIMS. Eye Donation Awareness Drive was started where an on the spot poster making competition was organized on the topic of Eye Donation; at the end of this camp many were inspired to pledge to donate their eyes; Clean-a-thon was organized in collaboration with Leaders for Tomorrow and Eco-Club; more than 130 students turned up for the event and the whole campus was cleaned up.

Women Development Cell

(Coordinator-Dr. Ragini Jindal)

The Cell jointly with Centre for Social Research conducted a signature campaign against female feticide on 8th August 2012. Financial Literacy session was held on 10th October 2012 in the college wherein the need and benefits of starting saving early were emphasized. The students actively participated in the Silent March organized by CSR in Dwarka on 13th October 2012. A street play, *Pukaar* was also staged in association with the Dramatics Club of the College on the issue of female foeticide and at the Conference on Gender-based sex selection at the India Habitat Centre on 9th January 2013. Poem writing competition was conducted for students. An interaction with ACP and SHO of Dwarka police was organized on 17th January, 2013 for confidence building about their safety concerns. A Self Defence Workshop (21, 22 and 24th January 2013) was organized wherein around 80 girl students participated. On February 14, 2013 the Cell joined the cause of 'One Billion Rising' (an event held all over the world in various countries to stop violence against women) along with NGO Anhad, National Law University , GGSIP University and others.

Gandhi Study Circle

(Coordinator-Mr. Ramesh Kumar)

Gandhi Study Circle organized a seminar on *Gandhism* which included lectures by Prof. Y.P. Anand (Former Director, National Gandhi Museum) and by Prof. Shobhana Radhakrishna (Eminent citizen, Ministry of Rural Development, Government of India), an inter-college debate, group discussion and an interesting event “Gandhigiri”.

Sports Committee

(Convener- Dr. Pawas Goswami)

This year students participated in various sports events organized by Delhi University and other organizations: Vikram of Physics (Hons.) 2nd year won bronze medal in Wrestling Inter- College Tournament held at Chhatarsal Stadium. A cricket tournament in the name of Bhaskaracharya College was conceived this year. Eight colleges from Delhi University participated in the tournament. The tournament was won by PGDAV (E) College. The gym equipped with treadmill and other facilities has been made available for the staff and students.

College Library

(Librarian- Dr. Ranjeet Singh Thakur)

Library has grown in terms of its collection of books. At present the library has more than 22000 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 through out the year. Library circulation (number of issue and return of books) has reached the figure of 79436 during the period of July 2011 to June 2012. Library organized an orientation programme for all the students of first year. It also guided the students for using of N-List e-resources. The library blog is being updated time to time and since the start of the blog, nearly 8669 page views have been recorded from various parts of the globe including India (7196), US (290), Germany (63), Russia (63) and UK (17) etc.

Seminar on Human Rights

(Convener-Dr. Prerna Malhotra)

The College organized a Seminar on Human Rights in Natural and social Environment on 28th March, 2013 in the College in association with the National Human Rights Commission. The Registrar, NHRC, Mr. A.K. Garg and the Joint Secretary, NHRC, Mr. J.S. Koccher were present on the occasion. Besides them, the staff and students also got the opportunity to listen the eminent speakers – Prof. A.S. Narang, IGNOU; Prof. A.R. Vijapur, Aligarh Muslim

University and Mr. Ashok Arora, former Secretary, Supreme Court Bar Association. This seminar was successful in sensitizing students on the much affecting issues of human rights.

Delhi University Innovative Projects

The University of Delhi introduced a scheme of Innovation Projects in Colleges in which the students of the college will work/research with their teachers under this scheme. Our College teachers submitted seven projects under this scheme. Out of which the following five projects were selected and approved for funding by the University of Delhi.

- I. **Study of Rise in Consumption of the Mobile phones/Electronic Gadgets in Delhi region and Material Analysis projecting potential Electronic Waste and their impact on Environment.** Co-ordinators : Dr. Geeta Bhatt, (Instrumentation); Dr. Manoj Khanna, (Electronics); and Dr. Balaram Pani, (Chemistry).
- II. **Determine the Speciation of some selected Heavy Metals from e-waste and their impact on Ground Water.** Co-ordinators : Dr Ramesh Kataria, (Chemistry); Dr. Manoj K. Tiwari, (Electronics); and Dr. Parthasarthy Pal, (Physics).
- III. **Development and Study of alternate packaging materials from agro wastes and its application in Food Packaging.** Co-ordinators : Dr. S.K. Shukla, (Polymer Science); Dr. Anand Bharadvaja, (Physics); and Dr. Rizwana, (Food Technology).
- IV. **Development of Cost-Effective Nutritious Multi Cereal Bar and its Sustainable Packaging Using Nano-Biopolymer.** Co-ordinators : Dr. Meenakshi Garg, (Food Technology); Dr. Susmita Dey Sadhu, (Polymer Science); and Dr. Shivani G. Varmani, (Biomedical Sciences).
- V. **Studies to assess the quality of fruits and vegetables with respect to microbial load and the remedial measures for their control.** Co-ordinators : Dr. Shalini Sehgal, (Food Technology); Dr. Purnima Anand, (Microbiology); and Dr. Uma Chaudhary, (Biomedical Sciences).