

We at Acharya Narendra Dev College have a vision for our college to be recognized as a Centre of excellence in educational and professional development. We strive to create a shared learning environment and offer our students high quality education. The college provides innovative learning and teaching relevant in the present contexts. The college is proud of its learned faculty that excels in both academics and research activities.

The academic year 2008-2009 may easily be called a milestone, when the college in its journey to achieve the pinnacle of high quality education went beyond the classroom in the form of several workshops to nurture various skills and develop pedagogy not only for its own students and faculty but also for the academia in general. It's our firm belief that these efforts will bring a bountiful harvest in years to come in the teaching-learning process and in the advancement of fundamental research. Let us enumerate the efforts of Acharya Narendra Dev College towards this objective.

1. WORKSHOPS

1.1 College Teachers in Life Sciences

With University making some radical changes in the Biology syllabus of the B. Sc Programme there was an urgent need to conduct workshops for teachers across the University to enable them to conduct the new-technology experiments. Our college offered to conduct this advanced workshop for the Part III B. Sc Programme Life Sciences course. The four day Workshop was held in collaboration with the Institute of Lifelong Learning, University of Delhi from October 21-24 2008 where teachers from twenty colleges participated. The participating faculty experienced hands-on training on the newly acquired state-of-art scientific instruments under the guidance of the faculty members of Life Science departments of our college, who in this case were the resource persons of the workshop. A well-written and excellently produced laboratory manual was also made available to enable the conduct of experiments independently.

Hands-on sessions were held on the following:

Bio-informatics	<i>Agrobacterium</i> -mediated Transformation
Transformation in <i>E. coli</i>	Western Blotting
RE and PCR	Ligation
Southern Blotting	Glucose and Cholesterol Estimation

1.2 Electrawork 2008

A workshop that encompassed 'Data Acquisition using LabVIEW' and 'Printed Circuit Board (PCB) Designing and Fabrication' was organized by the Department of Electronics during June10-20, 2008. The workshop was attended by the students and faculty of the Department of Electronics and explored the immense possibility of designing and fabrication of PCBs. A significant outcome from this workshop was the paper titled "Study of Hall Effect using LabVIEW", authored by Anshul Vinay Parmar, Migmar Dolma and Rohit Gambhir along with faculty members Dr. Amit Garg, Ms. Reena Sharma, and Mr. Vishal Dhingra. National Instruments, USA, selected this paper as the IIIrd best paper in student category at the VI Mantra 2008, the Virtual Instrumentation contest for Science and Engineering Education. As part of the award:

- The students were invited to attend the Prize distribution ceremony on NI Educators Day on 21st November 2008 at Bangalore by the organizers
- The students have qualified to present this paper to Industry Experts at the 7th National Conference on Virtual Instrumentation in Engineering Education to be held in March 2009 in New Delhi.
- As part of the prize, all the authors have received the Student Version of LabVIEW and certificates from National Instruments, USA.
- The College shall receive 1000 USD from National Instruments, USA for Lab up-gradation.

1.3 Linux'09 : The Linux, FOSS and Clustering Workshop

Acharya Narendra Dev College as part of its larger commitment to FOSS and Linux conducted its fourth training and familiarization Linux workshop for students and teachers from our college besides other colleges of the University under guidance of resource persons from industry and academia. The Workshop included lectures on Open Source, Free Software, Licenses, Open Source Free alternative for Commercial Proprietary software, and on Linux OS, along with interactive sessions and hands-on training sessions on Linux machines. We got partial financial support from the Director, South Campus for the workshop.

Amit Karpe (promoter and evangelist of GNU/Linux and FOSS) and Dnyanraj Mali were the main resource persons for the workshop. They had been, earlier, a part of the major effort in Pune among academia and industry to migrate to Linux. Professor Neelima Gupta, Head, Department of Computer Science, University of Delhi inaugurated the workshop and spoke on the usefulness of Linux. The talk by Mr. Niyam Bhushan (Graphic Designer and FOSS enthusiast) was attended with great enthusiasm by the participants due to his style of delivery and the punch the talk carried. Karpe and Mali trained some students on fail-proof

installation of various flavours of Linux operating systems both as single boot or as part of a multiple boot system. These students were then made responsible for installation of Kubuntu, CSLinux and Ubuntu 8.10 in the computers of a college laboratory. This exercise provided the students a much needed confidence for installation of Linux OS, and they are in a position to repeat this exercise at home or elsewhere. Thus a milestone has been achieved in the journey of migration to FOSS from the realm of propriety softwares.

This workshop also provided space for several of our students to share their knowledge and make presentations of different topics linked to open source software.

We also shared with the participants a project running in our college wherein our students, under the guidance of faculty, created a simple high profile cluster using Linux with discarded PII and PIII computers. On day 3 of the workshop this group of one teacher and three final year B.Sc Computer Science (H) students made a presentation about the project sharing information about on how it all started, what problems were encountered during the project, technologies tested for building the cluster, its software and hardware requirements and several other aspects of cluster building. The effort was well appreciated.

Installfest

Many users who are new to Linux find it difficult to install Linux on their systems. Several users who switched to GNU/Linux, after reading articles about it in the community, have faced roadblocks while configuring its installation and usage. The college conducted Installfest, as a part of this workshop to address these issues. Qualified volunteers helped participants install Linux on their machines. Linux CD/ DVDs were burnt for students and faculty so that they could switch to Linux at home. Expertise were exchanged for downloading and installing various useful FOSS packages using terminal, adept and synaptic package managers by the Linux buffs.

1.4 Advance Computing

The Department of Computer Science conducted a one day workshop on advance computing wherein expert from the computing world conducted sessions on various aspects pertinent to the discipline. Dr. R. K. Datta (Former advisor DST, Ex-President, Computer Society of India) acquainted the participants to the history of Computing. Dr. A.K. Mahapatra (Faculty, IP University) conducted a session on Cyber Crime. Dr. A. R. Rao (Sr. Scientist, IASRI) introduced the new trends in Bio-Informatics, while Dr. Anil Rai (Sr.Scientist, IASRI) spoke about Data Warehousing.

1.5 Software Engineering

A one-day workshop was held for PGDCA students in August 2008 to discuss Software Engineering principles so that they can follow a systematic, disciplined approach for carrying out projects in the industry. The resource persons for this workshop were students from B. Sc. (H) Computer Science Vth Semester class along with faculty members of the department.

1.6 Summer training Workshop in Modern Techniques in Biology

A workshop was conducted on 'Understanding complexities of life from molecules to System: Concepts and tools, conducted by Departments of Botany and Zoology for thirty Botany and Zoology Honours students, from 12 to 23 May 2008. The workshop aimed at providing practical training in basic understanding and concepts of biological tools and techniques. The workshop was inaugurated by a talk by Professor M.M. Chaturvedi who discussed the 'concept' of life from a historical perspective. The other invited talks were by Professor Murlidhar and Dr. Shanti Chandrashekharan. All other sessions were hands-on and were held in the newly renovated Botany laboratory. The diverse sessions included:

1. Microscopy, including Fluorescence Microscopy
2. Centrifugation techniques and Cell fractionation
3. Chromatography Paper and TLC
4. Gel Electrophoresis of Proteins, DNA
5. PCR
6. Cell and Tissue culture techniques
7. Drosophila Genetics: mono and dihybrid crosses
8. Absorption spectra of chloroplast pigments.
9. Sericulture techniques reeling of silk thread
10. Discussion and feedback

Each session included an introductory talk on the techniques by a faculty member followed by students conducting the experiments in small groups.

1.7 Summer Training Workshop on Basic Techniques in Molecular Biology

One unwritten rule in the college is that all Project Investigators will train students in their laboratories and let them do some projects. Dr Monisha Khanna organised a month-long summer workshop for five B.Sc (H) Zoology Part III students on the basic techniques in Molecular Biology, besides providing a hands-on experience on various instruments and methods used. The workshop was held as part of the ongoing research project "Isolation and characterization of

actinomycetes and analysis of their antibacterial potential" funded by the Ministry of Environment and Forests (MOEF). The participants were given hands-on training in methodologies involving isolation of Actinomycetes, a group of important antibiotic producing bacteria, from soil samples collected from sites in and around Delhi. The trainees obtained pure cultures of the isolates and screened them for the production of antibacterial and anti fungal compounds. The various experiments performed by the students were recorded on a video camera. Attempts are on at present to convert these video clippings into short movies, capturing all the methodologies taught during the Workshop. These will be subsequently loaded on the College Website.

1.8 Structured workshop at INMAS

Swati Gupta and Versha Pandey of B.Sc. (H) Zoology Part – III attended a 3-week structured workshop at the Institute of Nuclear Medicine and Allied Sciences (INMAS) from 16 June – 4 July 2008.. The workshop titled “New Frontiers in Radiation Sciences” focused on imparting hands-on skills to undergraduate students on state-of-the-art instruments of DRDO. The students were exposed to frontline areas of research in several areas of biomedical sciences including radioprotection, medical and nuclear imaging, endocrine and metabolic disorders. This workshop sensitized the students regarding the importance of radiation in today's world and also ways to tackle the menace arising out of its use.

1.9 The 'Wikieducator' initiative

The college is committed for creation and free dissemination of Open Educational Resources (OERs). OERs are educational content which are created on the web by educationalists in a collaborative manner, without any concern of nationality or commerce of any kind. They can be used by anybody without any charge or licenses. In nutshell, it is education sans frontiers. Dr Savithri Singh, Principal, ANDC is a very vocal supporter of 'Free Open Source Software (FOSS)' and a committed believer in 'Open Educational Resources'. She is also an elected member of the International Community Council of the Wikieducator. This provides the institution a unique opportunity to popularize the concept of OERs and make it an instrument of fundamental change in the pedagogy. In furtherance of this belief and philosophy, Acharya Narendra Dev College organized two sets of parallel Learning for content (L4C) workshops - 3,4 & 6 October, 2008 (WikiEd08) and 9,10,11 & 13 January 2009(WikiEd09). These workshops were organized with financial support from Commonwealth of Learning (COL), Vancouver, Canada. These workshops received keen participation from students and teachers of not only ANDC but also from educationists and students from many other academic institutions of India. The college will receive funding for conducting five more such workshops during summer this year.

The workshops were inaugurated with a talk by Dr Dinesh Abrol (Scientist, NISTADS), an expert on Intellectual Property Rights and the Treasurer of the college, on copy right/copy left and Creative Commons licenses in educational materials. These workshops also dealt with the basic 'Open' philosophy and the need for open access to educational materials. Speakers included the Principal, Dr Savithri Singh, Mr Niyam Bhusan (FOSS evangelist and Graphic Designer) and Dr. Andrew Lynn (Associate Professor, JNU). It is believed that the concept of OERs is in agreement with the Gandhian principal of free access of education to all, especially to those who are less fortunate. Recognizing this, the Gandhi Bhawan, University of Delhi also supported WikiEd08 which was conducted just after Gandhi Jayanti. Mr. Anil Prasad (Department of Finance, Government of Kerela), a wikieducator of eminence was kind enough to visit the college during WikiEd08 and act as a resource person along with the Principal. Other in-house resource persons included Dr Sarita Kumar (Zoology), Dr. Neeti Misra (Chemistry), Dr. Arijit Chowdhuri (Physics) and Mr. Subhash Kumar (Physics).

During WikiEd09, CEMCA was also a partner in providing training in Easynow – a set of multiple media software for creation of OERs under the expert guidance of Mr. V. Krishnamoorthy (Consultant, CEMCA).

Wikied requires all participants to sign Learning Contracts that they will create and upload some useful learning content on the wikieducator platform. At the end of these workshops the college has created a battery of Wikieducators who can further the cause of open access to quality education at no cost to the community in general.

Acharya Narendra Dev College also had the honour of being the co-partner of the official launch of Wikieducator India Chapter on 16th November, 2008 at the India International Centre. Dr. M.S. Swaminathan, Hon'ble member of Rajya Sabha and the father of green revolution in India graced this occasion as Chief Guest and was presided by Dr. S. Sreedher, Director, CEMCA.

2. ACADEMIC ACHIEVEMENTS

Our students aim at all round personality development and this is indicated by the number of fellowships awarded to them. We strive to engage students in meaningful education and as a take-off from that many of them get positions in the University examinations despite a much lower cut off percentage at the time of coming into the college. The merit of our students is formally recognised by the positions that they attain in the University Examinations. Keeping up the tradition, this year also, our students have bagged a number of University Positions.

2.1 University Positions

S. No.	Name of Student	Course	Position
1	Ms. Swati Tyagi	B. Sc. (H) BMS-III	I in DU
2	Ms. Roopse Anand	B. Sc. (H) BMS-II	III in DU
3	Ms. Seema Sheoran	B. Sc. (H) BMS-I	II in DU
4	Vandana Raghvan	B. Sc. (H) BMS-I	III in DU
5	Jeeva Susan Abraham	B. Sc (H) Zoology -I	III in UDSC
6	Manoj Thakur	B. Sc (H) Botany-I	I in UDSC
7	Ms. Jyoti Mittal	B. Sc. (H) Botany –II yr.	III in UDSC
8	Ms. Reshma Goyal	PGDCA	III in DU
9	Ms. Namrata Sachdeva	B. Sc. (H) Comp. Sc.-II	III in DU & I in UDSC
10	Ms. Megha Saxena	B. Sc. (H) Chemistry I yr.	II in UDSC
11	Ms. Deepika Bisht	B. Sc. (H) Comp. Sc.-II	II in UDSC
12	Mr. Eman Zaman	B. Sc. (H) Comp. Sc.-III	III in UDSC
13	Mr. Neeraj Singh	B. Sc. Programme Life Sc. I	II in UDSC
14	Ms. Diksha	B. Sc. Prog Life Sc. III	II in UDSC
15	Ms. Rekha Sharma	B. Sc. Prog App.PhyS- I	II in UDSC
16	Ms. Pooja Bhatt	B. Sc. APS- I	III in UDSC
17	Ms. Mamta Sharma	B. Sc. APS- II	I in UDSC
18	Ms. Pooja Bhatt	B. Sc. APS- III	II in UDSC
19	Mr. Gaurav Yadav	B. Sc. APS- III	III in UDSC
20	Ankush Ahuja	Certificate course in German	I in UDSC
21	Sunita Arora	Certificate course French	I in UDSC
22	Anil Chauhan	German Diploma	I in UDSC
23	Paras Dhawan	French Diploma	II in UDSC

2.2 Scholarships and Fellowships

The merit of students is also reflected by the number of scholarships/ fellowships that the students receive.

List of students who have got scholarships from outside the college:

Various fellowships were awarded to the students by the college and from the outside agencies.

S. No.	Name	Course	Scholarship and Agency	Amount (Rs.)/year
1.	Vandana	B.Sc. (H) Maths III	Meritorious Scholarship, Govt. of NCT of Delhi	5000/- (2007-2008)
2.	Ishan Prasad	B.Sc. (H) Biomedical Science I	All India Entrance Scholarship, University of Delhi	250/- p.m. (2008-11)
3.	Parul Chachra	B.Sc. (H) Biomedical Science I	National Initiative for Undergraduate Science, Homi Bhabha Centre for Science Education, TIFR, Mumbai	2007 – 2009
4.	Hema Nayal	B.Sc. Applied Physical Science I	Udayan Shalini Scholarship for the Girl Child	9000/- (2006-2009)
5.	Kavita Rani	B.Sc. (H) Biomedical Science I	Udayan Shalini Scholarship for the Girl Child	9000/- (2006-2009)

S. No.	Name	Course	Scholarship and Agency	Amount (Rs.)/year
6.	Tanushree Ghosh	B.Sc. (H) Biomedical Science I	Udayan Shalini Scholarship for the Girl Child	9000/- (2006-2009)
7.	Preeti Verma	B.Sc. (H) Zoology I	Udayan Shalini Scholarship for the Girl Child	9000/- (2006-2009)
8	Ruchika Chugh	B.Sc. Applied Physical Science I	Udayan Shalini Scholarship for the Girl Child	9000/- (2006-2009)
9.	Heena	B.Sc. (H) Mathematics I	Udayan Shalini Scholarship for the Girl Child	9000/- (2007-2010)
10.	Jeeva Susan Abraham	B.Sc. (H) Zoology I	Udayan Shalini Scholarship for the Girl Child	9000/- (2007-2010)
11.	Rama Nayal	B.Sc. (H) Electronics I	Udayan Shalini Scholarship for the Girl Child	9000/- (2007-2010)
12.	G. Abhishek Kumar	B.Sc. (H) Computer Science Part III	National Talent Search Scheme. NCERT.	9000/- (2007-2010)



S. No.	Name	Course	Scholarship and Agency	Amount (Rs.)/year
13.	Megha Saxena	B. Sc (H) Chemistry II	Meritorious Award 2008-09 University of Delhi	Rs. 800
14.	Jeeva Susan Abraham	B. Sc (H) Zoology II	Meritorious Award 2008-09 University of Delhi	Rs. 800
15.	Payal Das	B. Sc (H) Zoology II	Meritorious Award 2008-09 University of Delhi	Rs. 800
16.	Payal Khullar	B. Sc (H) Botany II	Meritorious Award 2008-09 University of Delhi	Rs. 800
17.	Jyoti Mittal	B. Sc (H) Botany III	Meritorious Award 2008-09 University of Delhi	Rs. 800
18.	Komal Jha	B. Sc (H) Botany III	Meritorious Award 2008-09 University of Delhi	Rs. 800

List of students who have got scholarships from the college:

A. D. C. Arora Scholarship

The following received the D. C. Arora fellowship of Rs 5000/.

Category: Merit

- | | |
|----------------------|-----------------------------------|
| 1 Neeraj Kumar Singh | B.Sc Programme in Life Science II |
| 2 Ropsee Anand | B. Sc (H) Biomedical Science III |
| 3 Seema | B. Sc (H) Biomedical Science II |

Category: Needy

- | | |
|-------------------|---|
| 1 Mohd. Shahreyaj | B.Sc Programme in Physical Science I |
| 2 Praphulla Kumar | B.Sc Programme in Applied Physical Science II |
| 3 Mohd. Asif | B.Sc Programme in Applied Physical Science I |

B. Teena Gupta Memorial Scholarship

- | | |
|--------------------|---|
| 1. Nitin Bhatia | B.Sc(H) Electronics I |
| 2. Rama Nayal | B.Sc(H) Electronics II |
| 3. Nizam Ali | B.Sc(H) Electronics III |
| 4. Prakash Singh | B. Sc Programme- Applied Physical Science I |
| 5. Praphulla kumar | B. Sc Programme- Applied Physical Science II |
| 6. Mamta Sharma | B. Sc Programme- Applied Physical Science III |

C. Student Aid Fund:

A. Following candidate have been have been awarded full fee concession

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|-----------|---------------------|
| 1. Deepti | 2. B.Com (H) Part I |
|-----------|---------------------|

B. Following students have been given partial support by way of waiver of 75% fee

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|-----------------|---|
| 1. Kavita Rani | B.Sc (H) Biomedical Science III |
| 2. Prince | B.Sc (H) Electronics II |
| 3. Mamta Sharma | B. Sc Programme- Applied Physical Science III |

C The following students were recommended for awarding 50% fee waiver

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|---------------------|-------------------------------|
| 1. Vishwesh Pandey | B. Sc (H) Computer Science I |
| 2. Ankush Bhasker | B. Sc (H) Chemistry I |
| 3. Jitin Kr. Pandey | B. Sc (H) Chemistry I |
| 4. Rajesh Kumar | B. Sc (H) Mathematics III |
| 5. Aeyaz Ahmed | B. Sc (H) Computer Science II |
| 6. Reyaz Ahmed | B. Sc (H) Computer Science II |
| 7. Rama Nayal | B. Sc (H) Electronics II |
| 8. Debadityo Sinha | B. Sc (H) Zoology III |

D. The following students were recommended for the stipend of Rs. 500/- to be awarded for a period of ten months for the academic session 2008-09:

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|-----------------------|---|
| 1. Prince | B. Sc (H Electronics) II |
| 2. Prakash Singh | B. Sc programme Applied Physical Sciences I |
| 3. Roshan Lal Nigam | B. Sc programme Applied Physical Sciences I |
| 4. Md. Asif | B. Sc programme Applied Physical Sciences I |
| 5. Nitin Bhatia | B. Sc (H Electronics) I |
| 6. Manoj Kumar | B. Sc programme Physical Science I |
| 7. Neeraj Kumar Singh | B. Sc programme Life Science I |
| 8. Md. Shah Riyaz | B. Sc programme Physical Science I |

2.3 Students' achievements

Ramakrishna Sharma and Dinesh Verma of B.Sc. (H) Physics Part – III have qualified written component of the Entrance test for Integrated Ph. D programme in Physics for ECOLE Polytechnique, Grenoble, France.

Rajat of B.Sc (H) Biomedical Science I qualified for the interview for Kishore Yigyanik Prothsahan Yojna (KVPY) Fellowship 2008.

Animesh Kumar of B.Sc(H) Computer Science III year presented a paper entitled 'Learning through Open Source: Our experience with GNU/Linux-based clustering' at the Annual Conference of the ILUG, the Indian FOSS community – Freed.in held at JNU on 20 – 21 February, 2009. This conference also had about fifteen students who participated as volunteers and really enjoyed and learnt from it.

3. ACHIEVEMENTS OF THE FACULTY

3.1 Academic Activities

Dr. Savithri Singh, Principal of the college besides providing an inspiring leadership to the college, which is reflected in the development of the institution continues to receive several recognition at various respectable and learned bodies. She has been elected a member of the International WikiEducator Community Council. This is recognition of her belief in open access of education for all and her untiring efforts in this direction.

One of them being her participation in the 5th PAN Commonwealth Forum on Open Learning (PCF5) at London (July 11-22, 2008) where she presented a paper entitled 'Promoting entrepreneurship among rural youth through Open and Distance Learning (ODL) courses: an experience of using the WikiEducator .' On this

trip she was also invited to visit the Open University, United Kingdom at Milton Keynes.

Dr Singh is a member of the COL (Commonwealth of Learning) India Core Team for developing guidelines for 'Quality Assurance in Multimedia' and she visited Ahmedabad and IIT, Chennai for team meetings besides attendings two meetings held in Delhi. The '4th International Roundtable on Quality Assurance in Multimedia Learning Materials' was held at Kuala Lumpur, Malaysia where she participated as a Member of the Indian Core Group and presented the first draft of the guidelines. As a member of this team she was also invited as a speaker in the session on 'Quality Development, Quality Assurance and Quality Education' at India's largest ICT event – eINDIA 2008 on 30th July 2008 at Pragati Maidan, New Delhi.

Dr Singh was also invited to attend IDEAS India 2008 (Dec. 17-20, 2008) – a conference which emphasized to bring change in India through innovative ideas. At this conference she got an opportunity to put her progressive point of view at a platform where eminent personalities viz. former President Dr. APJ Abdul Kalam, Nobel Laureate Dr. Amartya Sen, Industrialists Mr. Nandan Nilekani and Ms. Anu Aga spoke.

Her belief in the adoption of ICT in education to add value to education and massive expansion of opportunities was also recognised. She was invited to attend one-day workshop on Collaborative Innovation for Development: Enlarging the Global Commons at New Delhi. The conference deliberated on: Potential economic impact of FOSS, collaborative innovation model on the Indian economy, Patents and Copyright Laws in view of emerging open and collaborative models from an Indian perspective and research in University and Public institutions. Dr Savithri Singh was also invited as Panelist to speak on “Reorientation of College Library Services in the Electronic Era” in Vivekanand College, University of Delhi.

Dr Singh's strong belief in improving education at the grass-root level find echo in her involvement in various committees which deliberate on policy matters concerning school education. She is a member of the Departmental Advisory Board of the Department of Teacher Education & Extension (2008-2011) and was member of the Departmental Advisory Board of the Department of Education in Science and Mathematics (2006 – 2009), both in NCERT. Her experience in formulating policy matters and her progressive views on education has earned her the membership of the 'Working Group on More Talented Students in Maths and Science' of the prestigious National Knowledge Commission, which is an advisory body under the PMO. Dr. Singh is also member of committees working on developing 'Exemplar problems in Biology' and ' Practical manual in Biology' for Biology at the XI and XII levels. She was also a member of the syllabus development team for M. Ed Course of NCERT.

As a member of the UGC review team, Dr Singh went to Zula Bhilajirao Patil College at Dhule, Maharashtra from Sept. 23-24, 2008 for assessing the college for continuation as a college of excellence.

Dr. Ram Kumar, Assistant Professor in Zoology, has been invited Professor to the University of Science of Technology, Lille, France (Université des Sciences et Technologies de Lille) during summer 2009. He continues to be a visiting scientist at the Institute of Marine Biology, National Taiwan Ocean University, Taiwan. He also chaired a session on Copepod Feeding in the 10th International Conference on Copepoda held in Pattaya, Thailand July 12-19, 2008. He also acted as team leader during the International Oceanographic Research Cruise in the Kuroshio Current of the northwestern Pacific Ocean from 18-27 October 2008, under the aegis of Global Oceanic Ecosystem Study (GLOBEC) programme. This programme aims at study of long term impact of climate change on oceanic ecosystem.

Dr. Savithri Singh, Dr. Sunita Hooda, Dr. Manisha Verma, Dr. Saumya Saxena and Dr. Anita Narang have received the Women's Achievement Awards, on International Women's Day celebration, at New Delhi, 8th March, 2008, organized by Court of Governors of Women International Network and its Departments.

Many teachers are actively involved with preparation of e-resources for undergraduate courses at Institute of Life Long Learning (ILLL), University of Delhi. While Dr. Sarita Kumar (Zoology), Dr. Neeti Mishra are involved in preparation of study materials, Dr. Sunita Hooda, Dr. Vandana Uberoi and Dr. Geetu Gambhir of the Department of Chemistry are resource persons at ILLL for the development of question bank for first and second year of the B.Sc. Programme.

Dr. Arijit Chowdhuri, Department of Physics, is part of the team for Integrated piezoelectric ZnO film with MEMs structure of CEERI, Pilani for development of acoustic sensors that have been technically qualified by VSSC (ISRO), INDIA for use in PSLV-C9 flight in piggyback mode (April 2008). He is also the recipient of Best Poster award at the Third International Conference on Sensing Technology (ICST 2008) held at Tainan from 30 Nov. – 3 Dec. 2008. He was also Co-Coordinator of the Structured Workshop on “New Frontiers in Radiation Sciences” for undergraduate students of University of Delhi, held from 16 June – 4 July 2008, organized by INMAS and University of Delhi

Dr. Sarita Kumar, Department of Zoology is a moderator of the 'Biological Science group' of the e-forum VIMARSH- A forum for DU Science Community. She has been involved in the preparation of manuscripts for 'Microbiology Elective' and Practical Microbiology for IGNOU. She is also a member of the committee constituted by SCERT to train the PGT teachers of KVS/NVS/CBSE affiliated schools to the new Science Text Books of Class XII developed by NCERT through teleconferencing (21st and 23rd July 2008). She is also a part of team of NCERT for preparation of the 'Manual of Practical for Class VI-VIII'. Besides supervising one student each from Vinayaka Mission University and Annamalai University for their M. Phil

degree she is also a reviewer of the research papers in the Prestigious Journal 'Pesticide Biochemistry and Physiology'(IF-2006-1.189.). She was selected to be on the inspection team constituted by the Vice-Chancellor of Dr. Bhimrao Ambedkar University, Agra for granting affiliation to colleges.

Dr. Amit Garg, Department of Electronics was a reviewer of 'Computer Application in Engineering Education' published by John Wiley & Sons and has been offered Associate Editorship of Journal of Physics Students. (<http://www.jphysstu.org/>).

Dr. Neeti Misra is a member of the course revision sub-committee of Department of Chemistry, University of Delhi. Dr. Savithri Singh, Dr Charu Gupta and Dr Ravi Toteja contributed to the development of the new syllabus of Biology in the B.Sc Programme Course.

Dr Savithri Singh as well as Dr. Neeti Misra, Department of Chemistry and Mr. Subhash Kumar, Department of Physics are members of an expert committee at the School of Sciences, IGNOU, New Delhi for curriculum design for the Certificate Programme in Teaching of Elementary Science (CTES).

Dr. Pankaj Tyagi (Physics) and Dr. Neeti Misra (Chemistry), Dr. Sarita Kumar (Zoology) are active contributors in authoring books for school curriculum and for general awareness. In this year, while Dr. Neeti has authored four books Dr. Tyagi and Dr. Sarita has authored two books each.

Dr. Harsupreet Kaur, Department of Physics, won the Young Scientist award at an International conference URSI-GA 2008 (International Union of Radio Science) held in Chicago, USA in August, 2008.

Dr. Neeti Misra, Department of Chemistry, Mr. Subhash Kumar, Department of Physics and Ms. Shalu Mahajan, Department of Commerce were the resource persons in an 8-day workshop for school teachers' trainers, organized by Vidya Bhawan Education and Research Centre (VBERC), Vidya Bhawan Society, Udaipur from 2nd -9th June 2008. Dr. Neeti Misra was also a resource person in a Workshop for Chemistry Class XII teachers of various Army Public Schools of India organized by Army Public School, Shankar Vihar, Delhi on 22 June 2008.

Dr. Urmi Bajpai, Department of Biomedical Science is giving her contribution to program entitled "Development of exemplar problems in Biology for class XII", organized by NCERT. The objective of this program is to prepare innovative questions of different conceptual levels.

Teachers are creators of knowledge. They provide a direction to society and give shape to the future citizens of the country. It is indeed an honour to acknowledge the achievements of the members of our faculty. The hard work of several colleagues has borne fruit – Harsupreet Kaur (Physics), Vibha Gaur (Computer Science), Udaibir Singh (Electronics), Rishu Chaujar (Electronics), Shashibhal

Pandey (Zoology) have been awarded their Doctoral degrees.

Several colleagues published research articles in renowned national and international journals. The present count for the current academic year (2008-2009) stands at 30 research articles in Refereed peer-reviewed International Journals, 17 in International Conference Proceedings, 11 in National Conference proceedings and 4 presentation in Symposium/Conferences/Seminars/ Workshops at International and National levels. The details are appended in **Annexure – I**.

3.2 Research Projects:

The College strongly encourages the faculty to carry out extensive research and the same are borne out of the facts that there are no less than six on-going projects in the college. Support for research by the Faculty has its genesis in a primitive Instrumentation laboratory – that has now been upgraded and matches the best possible now. Presently four laboratories are available for research exclusively and they have been further augmented with state-of-the-art equipments as also 24-hour power back up. The details of the ongoing projects are mentioned as hereunder:

S.No	Name of the teacher and Department	Title of the Project	Funding Agency	Rs. in Lakhs
1.	Dr. Vandana Uberoi (Principal Investigator) Dr. Sunita Hooda & Dr. Geetu Gambhir (Co-investigators)	Fabrication of new polymer sensors for Environmental protection. Period: 3 years w.e.f April 2008	University Grants Commission	7.57
2.	Dr. Urmi Bajpai Lecturer in Senior Scale in Biomedical Sciences (Principal Investigator)	A Virtual Centre of Excellence (COE) for Coordinated Research on 'Tuberculosis: Development of Alternate Strategies', (Multi-institutional project) Period: 2 years w.e.f. 01.11.2006	Department of Biotechnology (DBT)	24.85

S.No	Name of the teacher	Title of the Project	Funding Agency	Rs. in Lakhs
3.	Dr. Monisha Khanna Reader in Zoology (Principal Investigator)	Isolation and Charcterization of actinomycetes and analysis of their antibacterial potential. Period: 3 years w.e.f. 14.08.2006	Ministry of Environment and Forests (MOEF)	9.92
4.	Dr. Ram Kumar Lecturer in Zoology (Principal Investigators)	Evaluation of the potential of cyclopoid effective Bio-control agent for the control of disease vectors. Period: 3 years w.e.f 1.2.2008	Indian Council of Medical Research as copepod as an (ICMR)	16.00
5.	Dr. Amit Garg (Principal Investigator) Mr. Vishal Dhingra & Dr. Savithri Singh (Co-Investigators)	Investigating science hands-on to promote innovation & research at undergraduate level Period: 3 years w.e.f.1.2.2009	University Grants Commission, New Delhi	10.54

The sixth is a students project on 'Clustering using Linux' where students are learning how to cluster computers to improve computing ability of a group of computers. These computers are the ones that have been discarded by the college. The students have opportunities to study hardware as well as apply software solutions – and have a great learning experience. This project resulted in a paper being presented in a conference by the students.

Teachers have submitted two projects for funding –one each to UGC and DST – and we expect that they will find funding support. Besides the college has also submitted proposals for setting up a 'Centre for Undergraduate research and Training' in order to promote students experimental projects and are waiting for the outcome.

4. COLLEGE INFRASTRUCTURE

4.1 Special Grants/Assistance

Listed below are grants received for infrastructure and development of facilities in the college.

UGC XI Plan Grant: A total of Rs. 15 Lakhs

S.No	Items	Grants received for 2007-08 (Rupees)	Grants received for 2008-09 (Rupees)	Total (Rupees)
1	Books & Journals	250000	150000	400000
2.	Equipments	450000	270000	720000
3.	Extension Activities	50000	30000	80000
4.	Development Assistance	300000		300000

Grant from Directorate of Higher Education : Rs 40,00,000 (non-recurring)

Besides, in the financial year 2008-09 we have received a sum of Rs 9,92,250/- as special grant from the Department of Higher Education, Government of the NCT for repair to EI and Fans in SPS and providing mono-submersible pump in the college. This year an additional sum of Rs. 10,61,913 has also been sanctioned by DHE; Govt. of NCT of Delhi for construction of SPS type two toilet blocks in the college. For the financial year 2007-08 the college had received a grant of Rs. 45,97,548 as developmental grants from the Delhi Government which were used for various works during the summer.

We have submitted several proposals for infrastructure and space creation in order to meet the requirements which arise due to implementation of OBC reservation and we hope that soon some more funds will be allocated by Delhi Government.

4.2 College Infrastructure

Notwithstanding the constraints of space and resources, it has been a constant endeavour of the college to augment the infrastructure in order to provide the necessary wherewithal for smooth conduct of its academic programmes and add value to education. This year too the college undertook some major infrastructure developments in furtherance of this objective.

4.2.1 Video conference facility

The college created a new room with conference facilities. ANDC was selected to be one of five colleges in the South Campus where nodes for video-conferencing facility were set up with equipments provided by the University. The students, sitting in the conference room of the college had an opportunity to interact with Professor Dinesh Singh, Director, UDSC from his office at the south campus on December 11, 2008. The facilities will subsequently be used to transmit study

materials and lectures across various colleges of the university.

4.2.2 Rewiring

The college undertook a major revamp of many electrical installations and lighting in the college main building as well as the semi-permanent structures in the interest of better lighting and safety. All blackboards have been provided with dedicated lights and all classrooms are now adequately lit to improve classroom teaching.

4.2.3 Conference Room

To fulfill the need for having a state-of-the-art conference room having all multi-media facilities two rooms on the first floor in the main block were merged. It is in a form of theater with seating facilities on an inclined plane. It has been equipped with a giant screen of dimension 8 x 10 feet, a permanent fixed LCD monitor, computers and a good public address system. It has also been provided with an Internet node to facilitate on-line activities and utilization of cyber resources. The well lighted centre has an aesthetically designed false ceiling and is air-conditioned. Since its inauguration, the centre is throbbing with activities of various departments and societies of the college, and there is always a mad rush to book the room for the conduct of various functions. It's a convenient venue for the various workshops the college is organizing from time to time.

4.2.4 Sports Room

The college fulfilled a long-standing demand of its students by providing a dedicated sports room. This has been set up in the old library block. It has been furnished with tiled floors and provided with newly procured equipments for sports and fitness. It has facilities for indoor sports like table tennis, chess etc. Its proximity to the main play ground of the college is an added advantage. It is the hub of all sports enthusiasts of the college.

4.2.5 Chemistry laboratory Renovation

Two laboratories of the Department of Chemistry were completely re-done by undertaking major renovation work. They now boast of state-of-art facilities for conduct of experiments and safety considerations.

4.2.6 New Sericulture laboratory

This year, the department of Sericulture was provided with a new laboratory in the form a new rearing room for silkworms. New silkworm rearing facility consists of silkworm rearing glass enclosure surrounded by working area. Silkworm rearing facility is provided with all the facilities required for maintaining proper conditions for successful rearing of silkworms. Eri silkworm was cultured for

the first time along with mulberry worms this year in the new facility.

4.2.7 Extra Space in Departments

The Departments of Zoology, Bio-medical Sciences, Computer Sciences and Electronics were provided a greater working area for laboratory related work by undertaking covering of the corridors in front of the their laboratories. This innovative utilization of space in these departments has circumvented space crunch to some extent in these departments. While the Biomedical Sciences department has been provided with a departmental faculty room, department of Electronics has added an investigative project lab to its infrastructure. This project laboratory has facilities for conduct of independent projects by the students and faculties of the department. It is provided with facilities for conduct of experiments related to computer simulation, interfacing, fiber optics and electronics. It has a facility of uninterrupted power supply for the smooth conduct of independent and innovative projects.

4.2.8. Tutorial Rooms

As an out-of-the-box idea the college also converted an SPS room into four tutorial rooms for the conduct of tutorials for the Department of Commerce and Mathematics in the old library block. These rooms also functions as consultation rooms for students who need individual attention from teachers.

5. COLLEGE ACTIVITIES

The activities of the various Societies and Committees of the college are organically linked the main curriculum and provide a window of opportunity to all students to hone their skills. While it is a useful value addition to the teaching-learning process it is also a platform for personality development.

5.1 Acharya Narendra Dev Memorial Lecture

The College organized the Acharya Narendra Dev Memorial Lecture 2008 on 14th November 2008. Advocate Anil Nauriya of Supreme Court of India, a renowned scholar on the life and works of Acharya Narendra Deva delivered the inaugural memorial lecture titled "Intellectual Legacy of Acharya Narendra Deva". His lecture was an exposition of the vast academic work of Acharya Narendra Deva in the fields of literature, history, culture and philosophy besides giving a glimpse of his life and beliefs. The college wishes to organize the Acharya Narendra Dev Memorial lecture as an annual feature in its calendar wherein eminent persons will deliver talks on the work, life, belief and times of Acharya Narendra Deva.

5.2 200th Birthday celebration of Charles Darwin

As the Global Scientific community celebrates the year of 200th birthday of Charles Robert Darwin, an English naturalist, who realised and demonstrated

that all species of life have evolved over time from common ancestors through the process he called natural selection, Acharya Narendra Dev College celebrated the bicentenary of this enthusiastic scientist in its own amusing way.

At a programme convened jointly by the Zoology, Botany and Biomedical Science Departments on 12th February 2009, the college hosted the birthday celebrations of Darwin. The Principal of the college Dr. Savithri Singh cut the cake on behalf of Darwin with “Happy birthday” song playing in the background. Not only did the day bring knowledge on the subject of evolution but it also showcased experiments at making an audio-visual presentations by our first-time proud young movie-makers.

A scientist refers to any person that engages in a systematic activity to acquire knowledge; The same idea stood right for the students of the college when they experimented and evolved into movie makers and presented their brainchild – a movie each, relating to the theme of the day “Evolution”. A movie presenting Darwin's life by Ankit Gupta of B.Sc (H) Biomedical Sciences II, followed a short movie on Galapagos Islands created by Debadityo Sinha B.Sc (H) Zoology III and a compilation in a movie format on “Future of Human Evolution” by Jyoti Nair, Vandana Raghavan and Ankit Gupta B.Sc (H) Biomedical Sciences II followed. The presentations created by the three students of biomedical sciences were supervised by Ms. Sunita Jetly.

This exciting educational ride was then concluded with a Darwin Quiz where five teams competed among themselves to prove who stand best when it comes to information about Darwin and evolution. The B.Sc Programme Life Sciences team consisting of Sandeep Nair, Aakansha Gulati and Shobhit Saxena won the first prize; a copy each of Origin of Species; the famous book by Charles Darwin. The celebrations ended with a round of refreshments where the students appreciated their being *Homo sapiens* for relishing the pastries.

5.3 Departmental Society Activities

Physentropy 2008

The Department of Physics organized its society function 'Physentropy-2008' on 16 September 2008. Professor Vijaya S. Varma, a renowned educationalists and thinker of the Department of Physics & Astrophysics, University of Delhi delivered a very informative and thought provoking talk titled “What is this thing called science?” This talk besides throwing light on the history of development of science with special emphasis on Physics also underlined the philosophy of science. The talk elicited several questions and active discussions by the young scientific brains of the college assembled in the conference hall for this event.

Other attractions of the event day included a skit titled 'Understanding is the key to knowledge and Success' through which the students conveyed the message that Physics is the essence of life and a necessary ingredient of its vitality.

Students came up with current, academic and research oriented topics for symposium competition, which included global warming, zinc oxide thin films, Big Bang, placebo effect, apoptosis, Biochemical oxygen demand etc. The festival provided an opportunity for students to interact among themselves and exhibit their talent.

Abhikriya-Synergia-08

The Department of Chemistry organized Abhikriya-Synergia-08 under the aegis of its chemical society Abhikriya on 10th September 2008. This function included a talk titled “Fun with Science” delivered by Professor Gurmeet Singh. The talk was highly informative. The students enjoyed the talk very much as they were made to perform small science tricks along with the speaker. On this occasion, the society held various science related competitions, co-curricular events and a prize distribution function. To beat the monotony, the department also organised a one-day picnic to the Adventure Island on December 13, 2008 for its students and staff.

Oikos 08 of Niche

Acharya Narendra Dev College's zoological society NICHE saw hectic activity this year. This year, the inaugural function, 'OIKOS-08' was held on 11 September 2008. The function was marked with a talk on the killer disease “Thalassemia” by Ms. Shobha Tuli, Secretary, Thalassemic India-a NGO and Vice President Thalassemic Federation Centre, Cyprus. It was followed by another talk on the same disease by Ms. Poonam Anand, Member, Thalassemic India. The parents of children who are suffering from this disease run this NGO. The talk was highly informative and moving for all. The students were able to get a complete picture and understand the importance of the disease. The members of the NGO also displayed posters and distributed pamphlets containing information about the disease.

The society also released a newsletter on the occasion, which was followed by screening of short documentaries on animal diversity. Another component of this function was organization of several science related competitions, extra-curricular and co-curricular events and a prize distribution where the students participated with great enthusiasm.

Botanical Society

The departmental society of Botany held its inaugural function in the first week of September 2008. Dr. Subodh Sharma, Director, Ministry of Environment and Forest delivered a talk on “Global Climate Change”. The talk threw light on the real picture of climate change and supported the same by suitable data, which convinced the audience that climate change can result in disasters in future.

Sericulture Society

The Sericulture Department conducts silkworm-rearing programme every year for B. Sc. (Programme) Applied Life Science students as a part of extensive practical exercise as per the syllabus prescribed by the University of Delhi. Recently, silkworm-rearing facility was shifted and set up next to the instrumentation laboratory. The new facility has all the requirements for maintaining control conditions for successful rearing of silkworms. The department also maintains a mulberry plantation essential for providing the quality feed to silkworms during their culture with the help of the garden staff of the college.

In addition to mulberry silkworm rearing, the department also introduced non-mulberry silkworm rearing (eri silkworm rearing – ericulture) this year in order to provide insight about semi-domesticated eri silkworm rearing (non-mulberry culture) to the students. For establishing ericulture, the members of the department are in the process of raising a separate castor plantation just adjacent to mulberry plantation.

To showcase our silkworm culture, invitations were extended to the Faculty and Staff of the Zoology department, University of Delhi and Zoology departments of various colleges and to 22 schools located in and around south Delhi for visiting the Sericulture rearing lab during the culture period. An exhibition was also set up showing other varieties of silk, cocoons, moths etc.. Reeling of silk filament from cocoon was demonstrated to the visitors – many of them tried reeling with their own hands and were surprised at the fineness and the length of the thread in one cocoon..

Students and faculty members from Dyal Singh College, Sri Venkateswara College, Ramjas College, Hindu College and Miranda House visited the exhibition and appreciated the experience of viewing live culture of silk worms. Besides, all the thirty teachers from twenty colleges who were in college for the 'Biology Workshop' being organised at the same time, were able to see the silkworm at various stages. Students and teachers of Kendriya Vidyalaya, JNU, Summer Fields, Green Fields Schools were also among the visitors and were fascinated by the live silk worms, the beautiful golden yellow coloured cocoons and the eggs and the moths. They enjoyed the touch and feel of the larvae on their hands and watching them nibble on the mulberry leaves. We intend allowing more and more students to come and see for themselves the beauty that sericulture is.

Cathexis

The Departmental society of Biomedical Sciences Cathexis its the inaugural function on 18 September 2008. Dr. Andrew Lynn, Associate Professor, Centre for Bioinformatics, JNU was the speaker on this occasion. He introduced students to the basic features of Computational drug Designing through open source and the vast opportunity this project provides to the students . The tenth foundation

day of the BMS department was celebrated with great fervor and enthusiasm on 21 November, 2008. Various inter-college competitions were held and an active participation from the students from other college was witnessed. In all, there was a congregation of 125 students. One of the guest speakers of the occasion was Prof. Rakesh Bhatnagar, Chairman, Centre for Biotechnology, JNU. He spoke on “Genetic engineered vaccine against anthrax—from clone to clinic”. Dr. Vineeta Bal, Scientist, National Institute of Immunology was another speaker of the occasion. She spoke on the “Development of infections and immunity”.

The society released its annual magazine BIOMER. The theme for this year was - Darwinism and the rapid evolution. World over, bicentennial of Charles Darwin and 150 years of “Origin of species” are being celebrated. Modern biologists are documenting examples of observable evolutionary changes in the short term, for which Darwin did not have evidence in his life time. This “evolution in action” is taking place in response to rapid changes in the environment, brought by various damaging anthropogenic activities. Various reports and articles on this subject were covered in this year's edition of BIOMER. In the Guest article column, Prof. Renee Borges, who is working at the Centre for Ecological Sciences, IISc, Bangalore, shared her thoughts on the subject.

Vanijya

The departmental society of Commerce “Vanijya” held its inaugural function in the first week of September 2008. A talk by Professor Sanjay Jain, Head of the Department of Commerce was organized on this occasion. He spoke on the topic “Stepping into Corporate World: Strategic perspective”. This talk illuminated the audience about the continuous changing corporate environment of the world and the requirement of special skills and preparation to excel in this.

5.4 Society/Committee Reports

Environment society

Acharya Narendra Dev college in association with Earth matters Foundation organised screening of a series of wildlife documentaries on the topic “Crime against wildlife” by the renowned environmentalist Mike H. Pandey. The documentaries were screened in the conference centre on 14th November 2008 and consisted of short documentaries which made the audience aware of the diversity in wild life and the various kinds of threats faced by them by the due to the greed of mankind. After the screening there was an interaction with Mr. Mike Pandey – the first Asian to win the green Oscars and a founder member of Earth matters Foundation. Mr Pandey discussed in length the various issues of wild life conservation with the students whose sensitivities on issues of wild life and environment were hugely increased after watching the documentaries. That Mike Pandey impressed the students became evident from the number of emails received by Mike from the students of the college within two days – more than fifty.

The volunteers of the society performed a short skit titled "Sahil Ki Cigarette" on 18th February 2009. The script of the play was written by the members of the society. The play sensitized the college audience to the health and societal hazards resulting due to use of tobacco. After the staging of this play, which mixed humour, satire and social message the volunteers of the society, undertook a cleanliness and anti-littering drive in the college. This was followed by a march by the volunteers of the college environment society to the adjoining localities of the college to spread the message of anti-littering, anti-tobacco and usage of eco-friendly products. The college Principal Dr. Savithri Singh flagged off the march with a motivational speech underlining the importance of these efforts.

SCINEMA

It is widely recognized that the visual media is a powerful component of pedagogy especially for science education. SCINEMA-an international science film festival was held in the college (21-23 August 2008). This 3-day Science film festival was organised in collaboration with Sampark and CSIRO, Australia with support from Department of Science and Technology (DST), Govt. of India. This event provided a unique opportunity to learn science from a new dimension – an approach which the college remains in pursuing. A focal theme was chosen for each of the three days of the festival. The focus of day one was "The Human Brain" and three films titled "Expedition to the brain", "Unravelling" and "The brain fitness programme" were screened. These films dealt with various issues regarding the human brain like its structure, diseases and the power of the brain to change, adapt and rewire itself.

On the second day the focus shifted to "Making Sense of the World around us" through the screening of films 'Seeing-feeling, The Colour of Sound and Thunderheads'. These films gave wonderful insight into the mysteries of the world around us. The last day of the film festival tried to unravel the "Origin of man" by screening three films on this theme. The films "Mungo Man, Who are your next kin" and "So where Do you come from?" explored various aspects of evolution of humans. SCINEMA provided a forum for the science students and faculty to discuss debate and discover the complexities of science, which came alive in the cinematic elegance of the films screened in the film festival.

Debating Society

The Debating society of the college provides a forum to the young minds to speak their brains on issues of societal and current interests. This year too, the debating society provided this space to the students by organizing two debates. On 15th September 2008, the society organised an intra college debate on the topic "Media is more of a sensation seeker than a truth seeker". Large number of speakers debated this issue, both in favour and against the motion and gave vent to their

understanding and belief over the issue. On the occasion of annual fest “Accenture-2008”, the society expanded its domain and organized an inter-college debate competition on 22 December 2008. The motion for debate was “Indian Sports ends at cricket”, which was hotly debated by a large number of participants. On this occasion, it was interesting to learn about diverse range of views.

NSS

The NSS unit of the college has been striving hard to inculcate the spirit of voluntarism amongst the students and staff and to convince them to contribute their service for the improvement of society. The Unit has 200 active NSS volunteers.

The NSS unit of our college has taken a lead in the University of Delhi and started a campaign for making students and staff aware about Thalassemia and provided screening facilities. A lecture by Dr. J.S. Arora, General Secretary, National Thalassemia Welfare Society on Thalassemia, was organised on September 15, 2008 wherein the the occurrence, symptoms and basis prevention of Thalessemia was explained with the help of slides and films.

NSS organized a voluntary Blood Donation Camp in association with AIIMS Blood Bank and Thalassemia Screening Camp in association with National Thalassemia Welfare Society on September 26, 2008 in the college premises. The Thalassemia Screening was free for the blood donors and at a concessional rate of Rs. 50/- per person for non-donors. The students enthusiastically participated in the camp and 126 units of blood were collected.

Sensitivity to human misfortunes is part of the NSS spirit. The northern planes of Bihar were ravaged by floods, which led to massive inundation and displacement of thousands of people, making them homeless and without any kind of support. The college NSS unit in association with School of Social Work University of Delhi pitched in for the relief operations. The college NSS unit organized a campaign for raising funds for relief operations. Our volunteers mobilized and collected biscuits, medicines, clothes for boys and girls, bed sheets etc for the benefit of flood victims besides a cash donation of Rs.7950/- .

The annual Diwali Mela (SAHYOG) was organized on Oct.23, 2008. Six organizations working with differently-abled children put up their stalls of handmade products like candles, diyas, cards, paintings, decorative material, sticks, clothes etc. in the college premises. The organizations were overwhelmed by the response of the college community since the students and staff members purchased items in large quantities from these stalls making the fair a success.

The NSS Volunteers also mobilized funds for 'Third Cultural Festival of India for Deaf Women' by sale of donation coupons in denominations of Rs. 10, Rs. 20 and Rs.50 and raised funds to the tune of Rs. 4000.

On 18 February 2009, the college, in association with 'Aastha Foundation' conducted a half-day workshop to sensitize students to the difficulties faced by the differently abled. The workshop was well attended and evoked a lot of discussion.

Sashakt

The flagship society for the welfare of the girl students and the female faculty of our college took a giant leap towards gender-sensitiveness and empowerment by constituting the college complaints committee (CCC) as required under the University Ordinance. The committee consists of two members each from teaching and non-teaching staff besides having three student-members.

Sashakt unleashed a rigorous awareness campaign by putting up posters and banners in the college to create awareness about prevention of sexual harassment. To educate the college community about the legal provisions available against sexual harassment at work-place, the society organized two lectures on the Ordinance XV (D) which deals with Prohibition and Punishment for Sexual Harassment by Professor Vibha Maurya, a member of the university's apex committee set up to examine and decide on Sexual Harassment cases.

The first talk was held for students and discussions were held on whether sexual harassment is a reality in the colleges of the University, how to prevent harassment and what procedures to follow in case one was sexually harassed and wanted to lodge a complaint.

Professor Maurya's second interaction was with the Staff – both teaching and non-teaching – of the college. Prior to the interaction the society screened a film titled "Can't take it any more". This film shocked the audience since it brought the stark reality of sexual harassment prevalent in Indian society into the open. The screenings were followed by a discussion on the issues raised in the film as well as the diverse perspectives that any abuse is looked at.

Earlier Chinh - an NGO, which makes films on social issues, in another activity, had shown several films to the students in order to discuss the art and craft of filmmaking. One of the films shown then was on 'Child Sex Abuse' – it provided a platform for discussing this very sensitive issue with the students.

Under the aegis of Sashakt, a debate competition on the topic "Media is responsible for crime against women" led to a lively discussion on gender issues linked with media and society.

Sports Activities

Sports are essential not only to promote health, fitness and to identify young talent, but also a means to relax and recharge us after slogging hard inside laboratories and racking our brains in classroom. To further the interest of sports in the college, this year the college continued in its efforts to provide a

better sporting infrastructure by purchase of various sports goods and fitness equipments and augmenting the facilities in the college. The sporting scene in the college received a major boost by the appointment of a full time faculty for physical education.

The sports committee held rigorous selection trials to select the teams for different inter-college tournaments. The students participated in various inter-college tournaments as under: -

1. Inter-College Football Tournament
2. Inter-College Cricket Tournament
3. Inter-College Basketball (Women) Tournament
4. Inter-College Basketball (Men) Tournament

A Sports Extravaganza was organized in November 2008 and about 230 students from 11 departments participated in this highly competitive sports festival. The sports extravaganza 2008 started with an "Oath Ceremony" instituted by Dr. Savithri Singh, Principal, which underlined the sportsman spirit among the participants. This sports festival witnessed some thrilling matches and nail biting finishes. A joint effort of Dr. Charu Khosla Gupta, Convener (Sports), along with all sports committee members, non-teaching staff of college and students made this event truly spectacular.

RESULT OF SPORTS EXTRAVAGANZA 2008

Sport	Winner	First-runner-up
1 Cricket	Physics	Applied Life Science
2 Football	Zoology	Commerce
3 Volleyball	Zoology	Physical science
4 Basketball (Boys)	Physics	Zoology
5 Basketball (Girls)	Zoology	Life Sciences
6 Table tennis (Boys- Singles)	Biomedical Science	Electronics
7 Table Tennis (Boys – Doubles)	Zoology	Biomedical Science
8 Table Tennis (Girls- Singles)	Mathematics	Physical Science
9 Table Tennis (Girls – Doubles)	Physics	Biomedical Science
10 Badminton (Boys – Singles)	Botany	Physics
11 Badminton (Boys –Doubles)	Botany	Physics
12 Badminton (Girls- Singles)	Biomedical Science	Life Sciences
13 Badminton (Girls- Doubles)	Biomedical Science	Physics

Based on the above results, students of the Department of Zoology were declared the overall champion of the tournament.

Editorial Committee

In Acharya Narendra Dev College students are encouraged to pursue their creative skills and develop critical thinking on social issues. The Editorial board of the college was instrumental in the designing and preparation of the college annual magazine “Insight” and the college prospectus. The Honorable Chief Guest Dr. Kiran Bedi released the third Edition of “Insight” on the Annual day of 2008. It was a culmination of the very enthusiastic literary response of the students and the staff alike.

The college also decided to print the Annual Report, which was also presented to the Chief Guest on the Annual Day. The magazine and the Annual Report formed a handy-set. This committee is also responsible for printing the College Prospectus – we have three – one for the college, one for the Foreign Languages and an information brochure on the Biomedical Sciences course.

Library Committee

Even in the age of multimedia, cyber-resources and IT, books have a special place. This was evident from the overwhelming response of faculty and students to the annual book exhibition organized by the Library Committee of the college in the month of December. This exhibition provides a unique opportunity to the college community to buy books and recommend the same to the college library from a variety of publishing houses under one roof. This year many reputed publishers like Prentice-Hall India, Oxford University Press, Narosa Books, S. Chand, Unilib, Asian Book Centre, Aditya Books, Persons etc were among the various publishers which participated in the exhibition. The library added a total of 413 books in the current year to its large inventory of books, journal and periodicals. We have more funds for purchase of books, which will be utilised soon.

Admission committee

Admissions proved a challenge this year due to implementation of reservations for OBC students. Confusion prevailed for a few days due to the various OBC lists before things settled down. We admitted 19 per cent extra students this year – filling OBC seats was a problem this due to lack of information leading to insufficient candidates.

SPICMACAY - ANDC Chapter

The ANDC chapter of SPICMACAY organized a classical music concert of the renowned Hindustani music vocalist Smt. Ashwini Bhide Deshpande under the aegis of SPICMACAY in the college on 25th September 2008. This concert was part of the ongoing *Virasat* series of SPICMACAY, which this year, has been dedicated to Guru Ammanur M. Chakyar and Pt. Kishan Maharaj. Smt Ashwini Bhide

Deshpande was accompanied by Sh. Vinay Mishra on Harmonium and Sh. Vinode Lele on Tabla. The concert provided a rare opportunity to the college community to learn as well as enjoy the fine intricacies of the Indian Classical music. Smt. Ashwini Bhide was kind enough to elucidate the composition and structure of various ragas and the underlying principles of Indian classic music to the audience. This led to a prolonged interaction between the artist and the student whose appetite for classical music kindled by Smt. Ashwini Bhide remained insatiated. As a part of the same *Virasat* series, earlier the college organized the screening of the movie “Seven Samurai” directed by the legendary Japanese filmmaker Akira Kurosawa. The screening of this classic gave a rare glimpse of the world cinema in its grandeur and provided a forum for film appreciation.

5.5 Excursions

Study tours and excursions are as much a part of college life as other activities. Some of the excursions arranged this year are detailed below.

Biomedical Sciences

The Department of Biomedical Sciences organised an educational trip to Indian Veterinary Research Institute (IVRI), Mukteshwar and Jim Corbett National park (December 8-12, 2008). Mukteshwar is a famous tourist place located at an altitude of 7,500 ft. facing the Greater Himalayas and providing a 180-degree snow covered mountains view of Kumaon and Garhwal. IVRI campus is located in the lap of lush green *Cedrus* forest with buildings with beautiful architecture. IVRI has several research labs as well as a museum. The museum, provided a rare opportunity to the college team to get introduced to some of the classical scientific instruments (like autoclaves, microscopes, surgical instruments, ovens, slide projectors etc.) used during the early 20th century. The college team comprising of 24 students, two faculty members and two support staff mixed studies with adventure and fun by enjoying boating at Sattal lake, morning jeep safari and evening jungle walk at the National Park. The team members were lucky enough to spot deers (spotted deers, sambar, barking deer), birds (kites, kingfishers, prinias, redstarts etc.) and even see pugmarks of tiger.

Botany

The Department of Botany organised a Botanical excursion to Pachmarhi in Madhya Pradesh. The excursion was helpful for students as this provided an opportunity to the students to directly observe the biodiversity in all groups of plants. The faculty members of the department with the help of knowledgeable local guides aided the students in their observation.

Zoology

The Department of Zoology organised an ecological excursion to Nainital,

Ranikhet and Corbett National Park (11-15 December 2008). The students got an opportunity to observe rare species like snow leopards, Siberian tigers, leopards, black mountain bear, spot bellied eagle owl in the Nainital zoo. They trekked in Nainital- till China peak; then from China peak to Kilberry from where they saw the Himalayan range including the Trishul and Nandadevi peak. They reached Jim Corbett national park and traveled through the national park in safaris.

Sericulture

The Department of Sericulture organized a summer training programme on Silk Dyeing and Printing for B.Sc. (Programme) Applied Life Science (II & III year) students at Central Silk Technological Research Institute (CSTRI), Central Silk Board (CSB), Bangalore (16-27 June, 2008). Eighteen students and two faculty members participated in the training programme that aimed at providing an insight into different techniques of dyeing and printing of silk fiber/fabric and post cocoon technology aspects. Senior scientists and the technical staff of the concerned departments of silk industry were associated throughout the 11-day training programme. The first 3 days of the training programme were devoted to the theoretical sessions encompassing role of water in silk fiber/fabric processing, wet processing of silk (degumming, bleaching, dyeing, printing, scientific colour perception, silk finishing, computer aided colour matching, different colour fastness tests, role of textile testing lab and lab accreditation. The other days of the training programme were entirely practical hands-on and experiential, and had field visits to the sericulture industry. Students also visited an export-oriented unit (EOU) dealing with silk fabric production, 7-8 km away from CSTRI, Bangalore. In the last leg of the training programme, participants were evaluated for their performance through a comprehensive feedback test and the Director, CSTRI, awarded the successful participants with certificates at the valedictory function.

Besides the outstation trips several local trips are organised. These include visits to the Biodiversity park and the Kisan Mela at IARI by Botany and Sericulture students and the trip organised for the students of B. Sc (H) Zoology I to National Institute of Health and Family Welfare (NIHFW), New Delhi. During this visit the developmental Biology (zoology) students got a hands-on experience on human semenology and various aspects of developmental Biology.

5.6 Annual Events

Annual Day '08

The college organized the College Annual Day on 20 February 2008. The first women IPS officer of India, Dr. Kiran Bedi graced the occasion as the Chief Guest. She is not only a role model for the women of the country but a living example to the young generation of this country of a person whose career is based on hard

work, integrity and dedication to service. On this occasion she shared her experiences in the public domain and inspired the college audience to strive hard in the pursuit of excellence in our chosen fields. She distributed prizes to the achievers of the college in the academic and co-curricular categories. The Guest of Honour Professor Vivek Suneja gave an inspiring talk and spoke on the vast opportunities available today's world to excel in any field of our choice. He emphasized the importance of hard work and perseverance. Our Principal Dr. Savithri Singh presented the achievements of the college of the previous year in the Annual Report.

ACCENTURE - The Annual Cultural Fest

Accenture, the inter-college cultural and literary extravaganza, is organized every year to promote the spirit of competition amongst the students of the College and the University community. It imbibes in itself the spirit of the youth which itself is the reason why it's conducted. The festival serves as a very effective forum to forge friendship and make bridges between different sections of the college community. This year too Accenture'08 (22-23 December, 2008) saw a grand response from students of the college as well as from various colleges of the university. Notwithstanding the economic downturn in the country, the college had 'Dainik Jagran', a national daily of repute, as its media partner, 'Radio Mirchi' as its radio partner and 'Socioffaire' as its internet partner. Big brands like Punjab National Bank and ICFAI were co-sponsors of this event. P.T Education & Times Education sponsored two important academic events – Debate and Quiz, respectively.

Soon after the inauguration the festival by Professor MataDin, the Chairperson of the Governing Body, the colourful extravaganza started off with lot of enthusiasm. Debate, Quiz, *Rangoli*, *Kathachitra* (creative writing with sketching), Design a website, and Treasure Hunt were the off-stage competitions which had tremendous participation. The audience cheered the teams onstage for *Jam*, *Sargam*, and *Nukkad Natak*. In the events *Hum bhi hain kalakar* (situational acting), and Loose Control (dance competition) every participant rocked the stage with their extremely amazing performance. The two-day festival culminated in the star evening which was the special attraction of the festival. In this evening event celebrity DJs with famous anchors captured the imaginations of all and made students dance to their beats.

5.7 Alumni Affairs

The college considers its alumni as an integral component of its community and believes in its constructive engagement in the development of the institution. In furtherance of this objective the Alumni Committee organised its annual get together on February 1, 2009. Around 120 alumni responded to the invitation put up in a national daily and participated in the event, which also included a

contributory lunch. The gathering expressed the desire to do something for the further growth for their Alma-mater, which has been a part and parcel of their growth in various careers. It was decided that the college should hold this meet on the First Sunday of February every year. A committee has been constituted for this purpose, which consists of our enthusiastic alumnus. This committee has already constituted a Google group called “Go for ANDC”. It is envisaged that this group will provide a forum to synergise the efforts of alumnus and the college for the development of the institutions.

6. THE WAY FORWARD

6.1 *Earn-while-you-Learn Programme*

The college provides an opportunity to its students to earn when they can take time out from their classes and devote time to activities beyond studies. As earlier, some students were encouraged to work in the account section and library. Besides earning a valuable income, this helps the students to refresh their computer skills and learn basic etiquettes of work place besides developing a respect for labour. This year we also have some student volunteers helping with installation and maintenance of Linux on computers in the college – we hope to compensate them for this from the student aid fund.

6.2 **Placement Cell**

The Placement Cell at Acharya Narendra Dev College has emerged as a facilitator for students, aspiring not only to get jobs but also to improve their skills to meet the current requirements in the corporate world. This year also, placement cell has offered various job opportunities to students in companies like Wipro Technologies, Satyam Computers, Ernest & Young, Module One, Genpact, HDFC, V-Serve & Ranbaxy etc. Companies like iGATE, Wipro Infotech Ltd., Royal Bank of Scotland, Dell BPO, APLAB Ltd., Apex Laboratories, Nestor, Comcon India, RNIS Pvt. Ltd are in pipeline for campus recruitment.

Over 150 students have registered with the placement cell this year, some of them being students who passed out last year. Focusing on the grooming of students to enable them achieve their objective, several career counseling seminars and skill development sessions were offered to students. A series of such sessions were organized which included personal skills development by Hero Mindmine, GD, Interview & CV preparation by Roots Education and PT Education, Opportunities in Aviation industry by TransAsia Aviation, World of Animation by Animaster. Placement Cell is organizing centralized Campus Recruitment for Wipro Infotech Master of Science (WIMS)-2009 programme of WIPRO Infotech Ltd. & another for Dell BPO in which students from DU, GGSIPU and other institutes in Delhi NCR will participate.

The Placement Cell has also coordinated with the newly established Central Placement cell of university for which 77 students of the college have registered. The Placement cell has been successful in recruiting quite a few students with very prestigious employers. Garima Arora of B. Sc (H) Electronics-III was placed with WIPRO Technologies under WASE 2009. Five students of B. Sc (H) Electronics III and two students from B. Sc (H) Computers-III have been placed with Satyam Computers. One student from B. Sc (H) programme in Applied Life Science-III was placed in Genpact, while two students found employment with V-Serve. In spite of the global financial slowdown many other prestigious corporates visited the college and found many of our students suitable for placements. 44 students of different streams were selected in HDFC Standard Life. The final results of the placement interviews conducted by the famous consultancy giant Ernest & Young and Module One are awaited.

6.3 Entrepreneurship Development Cell

To promote self-employment and develop high quality entrepreneurship amongst students, Acharya Narendra College is in process of establishing an Entrepreneurship Development cell (EDC). The main focus to establish an EDC is to set up an institutional mechanism to help promote knowledge based and technology driven enterprises and aim is to convert “job-seekers” into “job-generators”.

To achieve these objectives, EDC will be arranging regular Entrepreneurship Awareness Camp (EAC) and Entrepreneurship Development Programme (EDP). EAC would create awareness among faculty and students about various facets of entrepreneurship as an alternative career option to highlight the merits of pursuing this opportunity in the colleges of University of Delhi.

EDP would foster better linkages between the college, industries and R&D institutions and other related organizations engaged in promoting Small and Medium Enterprises (SMEs) including NGOs and other voluntary organizations. Keeping this in view, two staff members of Acharya Narendra Dev College have been trained to act as resource persons in guiding and motivating young students to take up entrepreneurship as a career.

The EDC of the college arranged one Entrepreneurship Awareness Camp on February 13, 2009 where the main resource person was Mr. Neeraj Sharma, who is currently entrusted with the task of planning and coordination at the National Science and Technology Entrepreneurship Development Board (NSTEDB). He talked about Innovation in Entrepreneurship and explained how important being open to new ideas is. He emphasized that more important than resources is a clear understanding of the economic, social, and scientific realities and the capacity to understand evolutionary processes in the future.

Mr. Manish Nanda, from Nandini Industries, a successful self-made entrepreneur,

explained the crucial steps in the journey of an entrepreneur starting from scratch, by giving examples from his own career life. Mr. Anant Sandhu, Modulus systems, another entrepreneur and an alumnus of the college, was also present at the camp. He gave the students valuable tips on building one's own business.

As the camp shifted focus to available vistas for exploitation for entrepreneurs currently, a presentation by representatives of Maya Academy of Advanced Cinematics (MAAC) was exhibited. Showcasing the power of animation wonderfully by including various samples from world famous animation studios, and emphasizing the current demand in the animation industry, it attracted interest of many students.

The workshop was able to bring the students in direct touch with practicing entrepreneurs and experts in the industry. It was a great opportunity for the students and we hope that the college continues to offer such great workshops and exposure to the real world! It will surely help the students widen their horizons.

6.4 ICICI Study Centre

ICICI Bank in collaboration with Delhi University has started a short-term job oriented course in Foundation of Banking and Finance at Acharya Narendra Dev College. For the smooth conduct of this course ICICI Bank has trained four teachers from our college to act as resource persons for the course. They are Ms. Surinder Kaur, Ms. Anuradha Sarin, Mr. Sandeep Kumar Goel and Ms. Shalu Mahajan. A study center was set up in college by ICICI Bank to run the course. The centre is equipped with proper IT infrastructure with five P-IV computers. Twenty four students who joined the college's study centre have successfully completed the course and are awaiting placement by ICICI. The three-month course included 164 hours of E-learning, 70 hours of classroom facilitation and 70 hours of Projects/assignments.

6.5 Exploring MetLife

The Acharya Narendra Dev College is likely to start a short term course in 'Insurance' on the lines of the courses planned as part of the Industry-Academia partnership of the University of Delhi. The MetLife training team had visited the college to apprise the students of the proposed course and to understand the specific needs of the students on February 17, 2009. It was attended by Mr. Preetinder Chadha, Deputy Director (Corporate Sales & Sales training), Ms. Meenaksh Sarkar, General Manager, HR and Ms. Raka Khashu, General Manager, Marketing from MetLife Insurance Ltd. This course envisages to train students in the field of insurance and place them at appropriate position in MetLife after successful completion of the course.

6.6 Foreign Language Courses

The foreign language courses centre continue to be a success. This year the numbers of seats were increased due to the implementation of the OBC quota. In the current year the centre is running Certificate Courses in French, German, Russian and Spanish, Diploma Courses in French, German and Russian. The college has hired the services of six guest faculties appointed by the University of Delhi to teach these courses. In the results of the academic session 2007-08, there were 15 first divisions, 30-second divisions and 8 third divisions. There were also four position holders in the merit list of the South Campus.

6.7 Faculty Enrichment

In order to update themselves several teachers participated in Orientation programs and Refresher Courses conducted by Academic Staff Colleges at Jawaharlal Nehru University, Delhi University and Jamia Milia Islamia. The details are presented in Annexure-I.

Dr. Pankaj Tyagi, Associate Professor in the Department of Physics was a Co-coordinator in a 3-Week Refresher Course in Physics & Electronics conducted by CPDHE, University of Delhi (December 01 to December 22, 2008).

6.8 Achievements of the Non-teaching staff:

The support staff of the college is second to none in its eagerness to upgrade their skills and is an essential component of the teaching-learning process. Many staff members from the laboratory, administration, library and accounts have upgraded their basic qualifications by passing the examinations in the distance-education mode and acquiring additional skills by attending various workshops and training programs.

Ms. Shruti Dhingra (Professional Assistant) and Ms. Namrata Arora (Semi-professional assistants) have successfully completed M. Phil in Library and Information Science from Aligappa University, Karaikudi, Tamil Nadu.

6.9 Addition of Teaching and Non-teaching Staff in 2008-09

Mr. Manoj Kumar Garg joined as an Assistant Professor in the Department of English in July 2008. The college also appointed Mr Jatin Lamba as Senior Personal Assistant to the Principal. Mr Ashutosh and Ms. Reetu Mangla have joined as JACT in the month of November 2008. Mr Anil Kishore Godiyal was appointed as Assistant (Accounts) in September 2008.

ANNEXURE- I

1. Papers Published in Journals

1. Aggarwal R., **Agrawal A.**, Gupta M., Gupta R.S. 2008 Gate Dielectric Engineering of Quarter Sub Micron AlGa_N/Ga_N MISHFET: A New Device Architecture for Improved Transconductance and High Cut-off Frequency, *Solid State Electronics*, 52, 1610-1614.
2. Kumar S.P., **Agrawal A.**, Chaujar R., Gupta M. and Gupta R.S. 2008. Performance Assessment and Sub-Threshold Analysis of Gate Material Engineered AlGa_N/Ga_N HEMT For Enhanced Carrier Transport Efficiency, *Microelectronics Journal* (Accepted June 2008).
3. **Chaujar R.**, Kaur R., Saxena M., Gupta M. and Gupta R.S. 2008. TCAD Assessment of Gate Electrode Workfunction Engineered Recessed Channel (GEWE-RC) MOSFET and its Multi-Layered Gate Architecture: Part-I: Hot Carrier Reliability Evaluation. *IEEE Transactions on Electron Devices*, 55, 2602-2613.
4. **Chaujar R.**, Kaur R., Saxena M., Gupta M. and Gupta R.S. 2008. Two-Dimensional Analytical Sub-Threshold Model of Multi-Layered Gate Dielectric Recessed Channel (MLaG-RC) Nanoscale MOSFET, *Semiconductor Science and Technology*, 23, 045006.
5. **Chaujar R.**, Kaur R., Saxena M., Gupta M. and Gupta R.S. 2008. Intermodulation Distortion and Linearity Performance Assessment of 50-nm gate length L-DUMGAC MOSFET for RFIC Design, *Superlattices and Microstructures*, 44, 143-152.
6. **Chaujar R.**, Kaur R., Saxena M., Gupta M. and Gupta R.S. 2008. Investigation of Multi-Layered-Gate Electrode Workfunction Engineered Recessed Channel (MLGEWE-RC) Sub-50nm MOSFET: A Novel Design, *International Journal of Numerical Modeling: Electronic Networks, Devices and Fields* (Accepted July 2008).
7. **Chaujar R.**, Kaur R., Saxena M., Gupta M. and Gupta R.S. 2008. On-State and RF Performance Investigation of Sub-50nm L-DUMGAC MOSFET Design for High-Speed Logic and Switching Applications, *Semiconductor Science and Technology*, 23, 095009.
8. Gangwani P., **Kaur R.**, Pandey S., Subhasis H., Gupta M. and Gupta R.S. 2008 Modeling and Analysis of fully strained and partially relaxed lattice mismatched AlGa_N/Ga_N HEMT for High Temperature Applications, *Superlattices and Microstructures*, 44(6), 781-793.

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9. **Singh, U.**, and Kapoor, A. 2008, Single layer Homogeneous model for surface roughness by polarized light scattering, *Optics and Laser Technology*, 40, 315-324.
 10. **Ram Kumar**, P. Prasad, Hans-Uwe Dahms, Li Chun Tseng, Jiang-Shiou Hwang (2008). Potential of three aquatic predators to control mosquitoes in the presence of alternative prey: a comparative experimental assessment. *Marine & Freshwater Research* 59, 817-835 (I. F. 1.8) <http://www.publish.csiro.au/nid/126/paper/MF07143.htm>
 11. L. C. Tseng, **Ram Kumar**, H. U. Dahms, Q. C. Chen and J. S. Hwang (2008) Copepod gut contents, ingestion rates and feeding impact in relation to their size structure in the Southeastern Taiwan Strait. *Zoological Studies*. 47, 402-416 (I. F. 0.9) <http://zoolstud.sinica.edu.tw/Journals/47.4/402.pdf>
 12. Tseng, L. C., **Ram Kumar**, H. U. Dahms, C. T. Chen, S. Souissi, Q. C. Chen and J.-S. Hwang (2008). Copepod community structure over a marine outfall area in the northeastern South China Sea, *Journal of the Marine Biological Association UK*, 88(5), 955-966, (SCI) IF,0.912, Ranking, 54/86. <http://journals.cambridge.org/action/displayAbstract?fromPage=online&aid=1956352&fulltextType=RA&fileId=S0025315408001574>
 13. Li-Chun Tseng, **Ram Kumar**, Qing-Chao Chen, Jiang-Shiou Hwang (2008). Monsoon driven seasonal succession of copepod assemblages in the coastal waters of the northeastern Taiwan Strait *Zoological Studies*. 47(1),46-60 (I. F. 0.9) <http://zoolstud.sinica.edu.tw/Journals/47.1/46.pdf>
 14. Li-Chun Tseng, **Ram Kumar**, Chun-Te Chen, Jiang-Shiou Hwang, Qing-Chao Chen (2008) Epipelagic mesozooplankton succession and assemblage structure over a marine outfall field at the northeastern margin of the South China Sea., *Journal of Environmental Biology* 29(3),275-280 (I.F. 0.16). http://www.geocities.com/j_environ_biol
 15. **Ram Kumar**, and J-S. Hwang (2008) Ontogenetic shifts in the ability of the cladoceran, *Moina macrocopa* Straus and *Ceriodaphnia cornuta* Sars to utilize ciliated protists as food source, *International Review of Hydrobiology* 93,284-296 (I.F. 0.76). http://www.champa.kku.ac.th/10icoc/doc/Scientific_Program_4_July_2008.pdf
 16. **Sunita Hooda**, A.S. Brar and Ashok Goyal (2008) NMR studies of Poly (2-hydroxyl ethyl methacrylate -2- vinyl pyridine). *J. Appl. Polym. Sci*, 109, 1114
 17. A.S. Brar, A.K. Goyal and **Sunita Hooda** (2008) *Structural investigation of Poly methyl acrylate* from 2 D - HMBC spectra., *J. Mol. Str.*, 885, 15

18. A.S. Brar, A. K. Goyal and **Sunita Hooda** (2008) *Stereochemical evolution of vinyl acetate - methyl acrylate copolymer* by 2D NMR, *J. Mol. Str.*, 888, 257
19. **Sunita Hooda** and A.K. Goyal (2008) NMR studies of 2-Hydroxy Ethyl Methacrylate – methyl methacrylate Copolymers, *J. Ind. Chem. Soc.*, 85, 1
20. **Sunita Hooda**, A.S. Brar and Ashok Goyal (2008) *Configurational assignment of overlapped α -methyl and methylene region of 2 - HEMA - methacrylonitrile copolymers* by 2 D NMR., *J. Appl. Polym. Sci.*, In Press.
21. A.S. Brar, Ashok Kumar Goyal and **Sunita Hooda**, (2008) Two Dimensional Nuclear Magnetic Resonance Studies of Acrylate copolymers. *J. Appl. & Pure Chem*, In Press.
22. A.S. Brar, A.K. Goyal and **Sunita Hooda** (2009) *Stereosequencing of Poly (Acrylonitrile – co - methyl acrylate – co - methyl methacrylate)* synthesized by ATRP, *J. polym. Sci., polym. Chem.*, 47, 25.
23. Solanki, R., **Khanna, M.** and Lal, R. (2008) Bioactive compounds from marine actinomycetes, *Indian Journal of Microbiology*, 48, 410-431.
24. Singh, P., Katyal, A., **Kalra, R.** and Chandra R., (2008) Copper Nanoparticles in an ionic liquid: an efficient catalyst for the synthesis of bis-(4-hydroxy-2-oxothiazolyl) methanes, *Tetrahedron Letters*, 49, 727
25. Singh, P., Katyal, A., **Kalra, R.** and Chandra R., (2008) Copper Nanoparticles in an ionic liquid: An easy and efficient catalyst for the coupling of thiazolidine –2, 4-dione, aromatic aldehyde and ammonium acetate, *Catalysis Communications*, 9, 1618.
26. Singh, P., Kumar, S., Katyal, A., **Kalra, R.** and Chandra R., (2008) A novel route for the synthesis of Indium nanoparticles in an ionic liquid, *Material Letters*, 62, 4164.
27. Kidwai, M., Priya and **Rastogi, S.**, (2008) Reactivity of Coumarui derivatives with Nucleophiles in Aqueous Medium, *Z. Naturforsch*, 63B, 71.
28. **Urmi Bajpai**, Rinu Sharma, Siddharth Dutta Gupta, Ranju Ralhan. (2008) Potential diagnostic marker for esophageal cancer. 'International Journal of Biological Markers', 14-3-3 zeta: Manuscript accepted.
29. Vineet Sharma, **Rajesh Chaudhary**, Jitender M. Khurana and K. Muralidhar. In-gel detection of urease by nitroprusside-thiol reaction. (2008); *Phytochemical Analysis*. 19, p 99.
30. K. Muralidhar and **Rajesh Chaudhary**, Assessment of current protocols for the production of therapeutic gonadotropins (2008); Vol LXXVII, part III, p. 189- 210.

2. Papers Presented in Conferences:

2.1 International Conferences

1. **Savithri Singh:** Promoting entrepreneurship among rural youth through Open and Distance Learning (ODL) courses: an experience of using the Wikieducator. At PCF5, University of London, London, UK, July 13 – 17 2008. <http://www.pcf5.london.ac.uk/aboutpcf5/index.asp>
2. **Ram Kumar :** Postembryonic developmental rates and demographic parameters of *Pseudodiaptomus annandalei* as a function of salinity and temperature presented orally in the 10th international conference on copepoda, Pattaya, Thailand, July13-18, 2008. <http://www.champa.kku.ac.th/10icoc>
3. **Ram Kumar:** Predation efficiencies of grouper larvae *Epinephelus coioides* on the copepod *Pseudodiaptomus annandalei* at hydrodynamic disturbances in the 10th international conference on copepoda, Pattaya, Thailand July13-18, 2008.
4. **Ram Kumar:** Postembryonic developmental rates and demographic parameters of *Pseudodiaptomus annandalei* as a function of salinity and temperature in the 10th international conference on copepoda, Pattaya, Thailand, July13-18, 2008.
5. **Chowdhuri, A.,** Haridas, D., Sreenivas, K. and Gupta, V. 2008., Enhanced oxygen adsorption activity by CuO catalyst clusters on SnO₂ thin film based sensors, *Proc. of the Third International Conference on Sensing Technology (ICST 2008)*, National Cheng-Kung University, Tainan, Taiwan, November 30 – December 3, 2008, pp – 553.
6. Haridas, D., **Chowdhuri, A.,** Sreenivas, K. and Gupta, V. 2008., Enhanced LPG response characteristics of SnO₂ thin film based sensors loaded with Pt clusters, *Proc. of the Third International Conference on Sensing Technology (ICST 2008)*, National Cheng-Kung University, Tainan, Taiwan, November 30 – December 3, 2008, pp – 418
7. A. K. Goyal, A. S. Brar and **Sunita Hooda** (2008). Stereoregularity determination of 2 - hydroxyl ethyl methacrylate based copolymers by 2D NMR spectroscopy., *Proceeding of international conference Poly Char 16 - World forum on advanced materials*, held at Lucknow, India, pp- 150
8. Aggarwal R., **Agrawal A.,** Gupta M., Gupta R.S. 2008 AlGa_N/Ga_N MISHFET: A Novel Alternative to Power HFETs for High Temperature Microwave Digital and Switching Applications, *Asia Pacific Microwave Conference 2008*, December 16-20, Hong Kong, China.

9. Aggarwal R., **Agrawal A.**, Gupta M., Gupta R.S. 2008 Investigation of Temperature Dependent Microwave Performance of AlGa_N/Ga_N MISHFETs for High Power Wireless Applications in Ruchika Aggarwal, Anju Agrawal, Mridula Gupta and R.S. Gupta (Eds.), *Proceedings of International Conference on Microwave – 08*, November 21-24, University of Rajasthan, Jaipur, India, pp.66-68.
10. Kumar S.P., **Agrawal A.**, Chaujar R., Gupta M. and Gupta R.S Investigating the Linearity Performance of DMG AlGa_N/Ga_N HEMT for Improved RF Applications, *XXIX General Assembly of the International Union of Radio Science (Union Radio Scientifique Internationale-URSI)*, Illinois, USA, August 07-16, 2008.
11. Kumar S.P., **Agrawal A.**, Chaujar R., Gupta M. and Gupta R.S RF Performance Investigation of DMG AlGa_N/Ga_N High Electron Mobility Transistor, *International Conference On Recent Advancements in Microwave Theory and Applications (Microwave-2008)*, November 21-24, 2008, Jaipur, India
12. Kumar S.P., **Agrawal A.**, Chaujar R., Gupta M. and Gupta R.S DMG AlGa_N/Ga_N HEMT: A Solution to RF and Wireless Applications for Reduced Distortion Performance, *Asia Pacific Microwave Conference (APMC-2008)*, December 16-19, 2008, Hongkong, China
13. Malik P., **Kumar S.P.**, Chaujar R., Gupta M, Gupta R.S., *Gate Material Engineered-Trapezoidal Recessed Channel MOSFET (GME-TRC)* for Ultra Large Scale Integration (ULSI), *Asia Pacific Microwave Conference (APMC-2008)*, December 16-19, 2008, Hongkong, China (Accepted September 2008).
14. Bansal J., Sharma N., **Kumar S.P.**, Chaujar R., Gupta M., Gupta R.S. Two-Dimensional Analytical Sub-Threshold Model Of Double Gate MOSFET With Gate Stack, *International Conference On Recent Advancements in Microwave Theory and Applications (Microwave-2008)*, November 21-24, 2008, Jaipur, India (Accepted August 2008).
15. **Kumar S.P.**, Agrawal A., Chaujar R., Gupta M. and Gupta R.S *Investigating the Linearity Performance of DMG AlGa_N/Ga_N HEMT for Improved RF Applications*, *XXIX General Assembly of the International Union of Radio Science (Union Radio Scientifique Internationale-URSI)*, Illinois, USA, August 07-16, 2008. (Accepted May 2008).
16. **Kumar S.P.**, Agrawal A., Chaujar R., Gupta M. and Gupta R.S *RF Performance Investigation of DMG AlGa_N/Ga_N High Electron Mobility Transistor*, *International Conference On Recent Advancements in Microwave Theory and Applications (Microwave-2008)*, November 21-24, 2008, Jaipur, India (Accepted August 2008).

17. **Kumar S.P.**, Agrawal A., Chaujar R., Gupta M. and Gupta R.S DMG AlGa_N/Ga_N HEMT: A Solution to RF and Wireless Applications for Reduced Distortion Performance, *Asia Pacific Microwave Conference (APMC-2008)*, December 16-19, 2008, Hongkong, China (Accepted September 2008)
18. **Ravneet Kaur**: TCAD Performance Investigation of a Novel MOSFET Architecture of Dual Material Gate Insulated Shallow Extension Silicon On Nothing (DMG ISE SON) MOSFET for ULSI era, APMC Conference Asia Pacific Microwave Conference, December 16-29, 2008 at Hongkong Convention and Exhibition Center, Hongkong, China.

2.2 National Conferences

1. Haridas, D., Verma, M., **Chowdhuri, A.**, Sreenivas, K. and Gupta, V. (2008) Integration of nano-scale catalysts with SnO₂ films for enhanced H₂S and LPG sensing, *Proc. of NANO SENSORS 2008, National Workshop on Nano Sensors and Devices*, IIT Delhi, 22 – 23 December 2008, Delhi p.81.
2. A.K. Goyal, A. S. Brar and **Sunita Hooda** (2008) Stereo sequence distribution analysis of poly (Acrylonitrile – co – methylmethacrylate-co-methyl acrylate) by 2D NMR., *Proceeding of centenary symposium on future directions in NMR*, NMR Research Centre, Indian Institute of Science, Bangalore, India, p. 9.
3. Aggarwal R., **Agrawal A.**, Gupta M., Gupta R.S. 2008. Theory of Charge Control Characteristics of AlGa_N/Ga_N MISHFET: A High Temperature Study, *2nd National Conference Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATEIT)*, pp.297-301, September 26-28.
4. Kumar S.P., **Agrawal A.**, Chaujar R., Gupta M. and Gupta R.S Impact of Dual Material Gate Design on AlGa_N/Ga_N High Electron Mobility Transistor's RF Performance *National Conference Mathematical Techniques Emerging Paradigm for Electronics and IT Industries (MATEIT 2008)*, 26-28 September, New Delhi, India.
5. Ali, N., Bisht, D., **Dhingra, V.**, Dwivedi, A., **Garg, A.**, **Sharma, R.**, Saxena, N., Understanding L-I Characteristics of Light Emitting Diodes and Laser Diodes, 26th – 28th September 2008, *Second National Conference on Mathematical Techniques: Emerging Paradigms for Electronics and IT Industries (MATEIT-2008)*, Deen Dayal Upadhyaya College, (University of Delhi), New Delhi 110015
6. **Pankaj Tyagi**, Chhavi Ranjan, Karnik Pandya, N. C. Mehra & A. G. Vedeshwar (2009) Single crystal growth of BiI₃ by thermal evaporation: TEM investigations *Proceedings of XXX Annual Conference of EMSI on Electron Microscopy & Allied Fields*, January 17-20, 2009, Bundelkhand University, Jhansi, U. P.

7. **Kumar S.P.**, Agrawal A., Chaujar R., Gupta M. and Gupta R.S Impact Dual Material Gate Design on AlGa_N/Ga_N High Electron Mobility Transistor's RF Performance National Conference Mathematical Techniques Emerging Paradigm for Electronics and IT Industries (MATEIT 2008), 26-28 September, New Delhi, India.(Accepted August 2008).
8. Sharma N., Bansal J., **Kumar S.P.**, Chaujar R., Gupta M., Gupta R.S *Analytical Modeling of Multi-Layered Dielectric G4-MOSFET for Improved Short Channel Effects*, National Conference on Mathematical Techniques Emerging Paradigm for Electronics and IT Industries (MATEIT 2008), 26-28 September 2008, New Delhi, India (Accepted August 2008).
9. Malik P., **Kumar S.P.**, Chaujar R., Gupta M, Gupta R.S. *Effect of control gate length on Device Performance of GME-TRC MOSFET*, National Conference on Mathematical Techniques Emerging Paradigm for Electronics and IT Industries (MATEIT 2008), 26-28 September 2008, New Delhi, India (Accepted August 2008).
10. **Ravneet Kaur**:*Simulation of a Novel ISE MOSFET with Gate Stack Configuration*. National Conference on Mathematical Techniques Emerging Paradigm for Electronics and IT Industries (MATEIT 2008), 26-28 September 2008, New Delhi, India
11. **Khanna, M.**, Solanki, R. and Lal, R. (2008) *Streptomyces chromogensis* and *Streptomyces antibiotenis*, two novel species from a sanitary landfill soil, 49th annual Microbiological conference, 19-21 November 2008, Department of Zoology, University of Delhi.

3. Presentation in Seminar/workshops /conferences.

1. **Dr. Savithri Singh** spoke as invited as a speaker in the session on 'Quality Development, Quality Assurance and Quality Education'– eINDIA 2008, 29-31 July 2008 at Pragati Maidan, New Delhi.
2. **Dr. Savithri Singh** delivered a talk on "Wikieducator: towards freely accessible educational content" at **Freed.in** –2009-the Annual Conference of the ILUG (Indian Linux User Group)–held at Jawaharlal Nehru University on 20 – 21 February, 2009.
3. **Dr. Ram Kumar** presented invited seminar on *trophic-dynamics in marine and fresh water ecosystems* in National Taiwan Ocean University, Taiwan/ ROC on November10, 2008.
4. **Dr. Ram Kumar** presented invited seminars on *Copepod as mosquito control agents: opportunities and constrains* in National Taiwan University, Taipei, Taiwan/ROC November 14, 2008 and at Khon Kaen University, Thailand on November 18, 2008.

4. Books Published

1. **Pankaj Tyagi.** (2008), *Visualised Physics –CBSE X*, Sultan Chand and Son(s) Pvt Ltd. Delhi.
2. **Pankaj Tyagi.** (2009), *Email –Aadhunik Chithi*, Shanti Prakashan, Delhi.
3. **Sarita Kumar,** *Exploring Biology Class IX Based on ICSE Syllabus*, Sultan Chand and Son(s) Pvt Ltd. Delhi.
4. **Sarita Kumar,** *Visualised Biology-CBSE X*, Sultan Chand and Son(s) Pvt Ltd. Delhi.
5. R.R. Misra, **Neeti Misra** (2008), *Numericals in Chemistry- Class XII*, Avichal Publishing Company.
6. R.R. Misra, **Neeti Misra**, Anju Srivastava, Reena Jain (2008), *ISC Practical Chemistry, Class XII*, Arya Publications.
7. R.R. Misra, **Neeti Misra**, Anju Srivastava, Reena Jain (2008), *Understanding ISC Chemistry, Class XII*, Arya Publications.
8. R.R. Misra, **Neeti Misra**, Anju Srivastava, Reena Jain (2008), *Understanding ISC Chemistry, Class XI*, Arya Publications.

5. Participation in Workshops/Conference/Seminar/Symposium

1. **Dr. Savithri Singh** was Resource Person at the Advanced workshop on developing Self Learning Instructional Multimedia Materials, organized by Haryana Open School and CEMCA at CIET-NCERT from 20-24th December, 2008.
2. **Dr Savithri Singh** participated in the COL-UKIERI workshop on eLearning conducted by Campus of Open Learning on 6th February 2009
3. **Dr. Pankaj Tyagi** (Physics) in National Conference on Photonic & Material Science (NCPMS-2008), October 24-25, 2008, Department of Applied Physics, Guru Jambheshwar University of Science & Technology, Hisar, Haryana.
4. **Dr. Neeti Misra** and **Dr. Arijit Chowdhuri** participated in the five-day Advanced Workshop on developing Self Learning Instructional Multimedia Materials, organized by Haryana Open School and CEMCA at CIET-NCERT from 20-24th December 2008.
5. **Dr Neeti Misra** participated in workshops on revision of B.Sc. Chemistry (Hons.) and B.Sc. Programme for the year 2009-2010 onwards conducted by the Department of Chemistry, University of Delhi.
6. **Dr. Sunita Hooda, Dr. Neeti Misra** attended a Workshop on Development of Internet Based Virtual Lab for Science Practicals for Secondary Stage (Class

10th) Chemistry organized by Department of Education in Science and Mathematics, NCERT, from 5th. Nov. 2008 to 7th Nov. 2008.

7. **Dr. Sunita Hooda, Dr. Neeti Misra** attended a Workshop on Development of Internet Based Virtual Lab for Science Practicals for Secondary Stage (Class 10th) Chemistry organized by Department of Education in Science and Mathematics, NCERT, from 5th. Nov. 2008 to 7th Nov. 2008.
8. **Dr. Amit Garg** and **Ms. Reena Sharma** attended Workshop on Partial Reconfiguration organized by XILINX Inc. USA at IIT, Delhi under University Professors Training Programme, 10-11th January 2008
9. **Dr. Amit Garg** (Convenor), **Mr. Vishal Dhingra, Ms. Reena Sharma, Dr. Udaibir Singh** and **Dr. Ravneet Kaur** in Workshop ELECTRAWORK 2008 on Data Acquisition using LabVIEW and Printed Circuit Board (PCB) – Designing and Fabrication organized by Department of Electronics, Acharya Narendra Dev College, University of Delhi during 10-20th June 2008 as resource persons.
10. **Dr. Monisha Khanna** (Zoology) attended the Delhi State Level Symposium on Forensic Science at SGTB Khalsa College, University of Delhi on 14 February 2008.
11. **Dr. Urmi Bajpai** (Bio Medical science) participated in the 4th Winter School of Immunology at Cochin from 30th July to 5th August 2008 organized and funded by International Society of immunology
12. **Dr. Sona Pranav Kumar** (Electronics) made a presentation on “ ” at the Asia Pacific Microwave Conference at Hongkong, China, 16-19 December 2008.
13. **Dr. Sweta Rastogi** (Chemistry) attended the Indo-Italian Seminar on Green Chemistry and Natural Products organized at Department of Chemistry, University of Delhi, 5-6 December 2008.
14. The following teachers attended the Workshop on Open Educational Resources, Wikied 2008, held at Acharya Narendra Dev College, in collaboration with Gandhi Bhawan, University of Delhi, with support from the Commonwealth of Learning, Vancouver on 3, 4 and 6 Oct. 2008 where Dr. Savithri Singh was the Chief Resource person:

Dr. Sunita Hooda, Dr. Sarita Kumar, Dr. Sarita Aggarwal, Dr. Neeti Mishra, Dr. Harshupreet Kaur, Dr. Manisha Jain, Dr. Vibha Gaur, Dr. Menu Mohil, Dr. Arijit Chowdhuri, Mr, Subhash Kumar, Ms. Rashmi Menon, Ms. Veena Saini
15. The following teachers participated in a Workshop on Open Education Respources WikiEd 2009 organised at Acharya Narendra Dev college with

support from Commonwealth of Learning Vancouver, Canada, 9-13 January 2009:

Dr. Sunita Hooda, Dr. Monisha Khanna, Ms. Sunita Jetley, Dr. Seema Gupta (Chemistry), Dr. Geetu Gambhir, Dr. Neelu Dheer, Ms. Shalu Mahajan, Dr. Seema Makhija, Dr. Sanjeeta Rani, Mr. Vikas Premzada, Dr. Sweta Rastogi, Dr. Shallu Sachdeva, Dr. Udaibir Singh, Ms. Shruti Dhingra (Professional Assistant-Library), Ms. Kanika Chadha (Curator-Botany), Mr. Jatin Lamba (Sr-PA to the Principal, ANDC)

Dr. Savithri Singh, Dr Sarita Kumar, Dr. Neeti Misra, Dr. Arijit Chowdhuri and Mr. Subhash Kumar were the resource persons of the workshop.

16. Linux '09 Workshop: The following teachers besides 120 students participated in the three day Linux workshop conducted in the college from January 3-5, 2009:

Dr. Savithri Singh, Dr. Sanjeeta Rani, Ms. Chetna Dang, Dr. Sanjay Chauhan, Mr. Vikas Premzada, Mr. Gagan Dhawan, Ms. Sunita Narang, Ms. Harita Mehta, Ms. Priyanka Sharma, Mr. Avneesh Anand Singh, Ms. Anu Perveen, Ms. Preeti Marwah, Mr. Chandra Kant Samal, Ms. Reena Sharma, Mr. Jatin Lamba (SrPA), Ms. Kanika Chadha (Curator)

17. The following teachers participated in Refresher Courses conducted by various Academic Staff Colleges in the respective disciplines

Dr. Shalu Dhanda (Physics & Electronics, 9-30 January 2008, CPDHE, University of Delhi), Mr. Subhash Kumar & Dr. Rachna Joshi (Physics & Electronics, 1-22 December 2008, CPDHE, University of Delhi)

Dr. Vibha Gaur (Computer Applications, 1-21 July 2008, University of Calicut)

Dr. Geetu Gambhir, Mr. Gagan Dhawan, Dr. Vandana Uberoi and Dr. Vibha Gaur (Computer Application, 10-30 September 2008, CPDHE, University of Delhi).

Ms. Anuradha Sarin & Ms. Shalu Mahajan (Commerce, 29 September-21 October 2008, CPDHE, University of Delhi)

Mr. Sandeep Goel (Commerce & Business Management, 15 October-6 November 2008, Jamia Milia Islamia, New Delhi)

18. The following teachers participated in Orientation Courses conducted by CPDHE, University of Delhi.

Dr. Ravinder Sagar (Zoology) and Dr. Ranjeet Singh (Physics) from 6 May to 3 June 2008. Dr. Laxmi Narain attended the course from 3 July to 30 July 2008.



Annual Report

ACHARYA NARENDRA DEV COLLEGE

beyond the classroom...

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