



Dronacharya College of Engineering

ISSUE

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Electronics & Communication Engineering

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From Editor's Desk :

Technical Education is the greatest driving force behind all human endeavors and a nation's prosperity. We at **Dronacharya College of Engineering, Gurgaon** with the help of a number of audio - visual, teaching - learning aids put more stress on practical aspects of Technology. We are firmly focused on earning the college a national reputation for excellence and developing it into the choicest destination for Technical Education. Through periodic seminars, workshops, industry visits etc our students are equipped with technical knowledge, communication skills and creativity to excel in their profession. Alongside, technology fairs, cultural events, college fests, sports and other such co-curricular events, also constitute an important part of life at DCE, Gurgaon.



We strive to develop graduates who are prepared for the future, ready for the changing needs of workplace and trained them for a life of ongoing learning and professional success.

We are thankful to the full - time participation of our sagacious management and guidance provided by learned **Principal Hon'ble Prof. (Dr.) B. M. K. Prasad** in making this college a dream destination for others.

Editor, (Dr. Sunil K. Mishra)

From HOD's Desk :

During the last quarter, lot of emphasis has been laid upon innovation and creativity in the field of research and development. A new R&D lab equipped with latest equipments and testers has been set up in the college. This will give a boost to the research work wherein faculty as well as students will be able to carry out their research work in their area of specialization.

Robotics Club of our College organized a three - day workshop on "**Satellites and Mobile Robotics**" in **Feb'11** in collaboration with **Robosapiens India** which was enthusiastically attended by final year students.

To give a continued exposure to our faculty as well as students, we encouraged a number of students to participate in Educational Seminar organized by Ramakrishna Mission, New Delhi as part of 150th Birthday celebration of **Swami Vivekanand**. Our students along with faculty members also attended the **Technology Day function at Vigyan Bhawan**,

I am grateful to the management, Principal, Dean Academics and Faculty of Department for their invaluable suggestions, help and guidance towards the growth of the department.



Head of Department, (Prof. (Dr.) H. S. Dua)

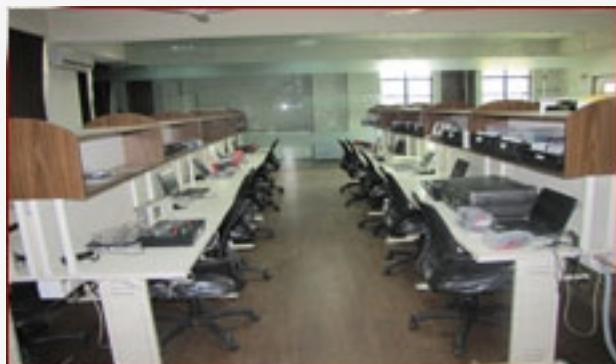
Major Events :

Inauguration of R&D Lab

To promote research and development in the field of Science and Technology a new R&D Lab has been set up. It will be quite helpful to the faculty and students. The major areas of its use constitute **Fiber Optics, Nanotechnology, Radar Engineering, RFID, Wireless & Mobile Communication, PCB Design and associated softwares**. The lab was inaugurated by **Prof. Ranjit Singh, Secretary General, Indian Society of Technical Education (ISTE), New Delhi on 7th May 2011.**



Inauguration of R&D lab by Hon'ble Chief Guest Prof. Ranjit Singh



A view of R&D lab



R&D equipments being shown to the Chief Guest

A Workshop by Robosapiens

A three - day workshop on '**Satellite and Mobile Robotics**' was conducted by **Robosapiens** in association with BHU from **3 - 5 Feb 11** for our final year students. Feedback from the students indicated that the workshop was quite useful for the students. They were able to fabricate a Robotics project under the guidance of the instructors.

Placement :

We train our students for getting placed in Government and Private Organizations. Our Students are placed in various companies like **HCL Comnet, Think Future Technology, CSS Corp, Verizon Data Services, Maple Infotech, Delhi Metro and Essel Shyam** among others conducted campus placement interviews during the last quarter in which many students of our college excelled.

A few important placements are mentioned below :

- One of our students has been placed in "**TALLY SOLUTIONS**", a Bangaluru based company at a package of 6.43 lakhs p.a., the highest till date.
- One of ECE students has been selected for **Permanent Commission in Aeronautical Engineers** (Electronics) branch in Indian Air Force (IAF) with a package of 5.42 lakhs p.a.

Seminars / Conferences / Publication :

- A group of students accompanied by three faculty members (**Prof. Y. P. Chopra, Mr. Ravi Dutt, and Mr. Lalit Dalal**) attended the "**Technology Day Function**" at Vigyan Bhawan, New Delhi on 11 May'11. **Former President of India Dr. A. P. J Kalam** was the Chief Guest of the function.
- Six papers on Technical topics are authored by E&CE faculty and students have been submitted for publication in the next issue of **Dronacharya Research Journal (ISSN : 0975-3389)**.
- **Mr. Vinay Nassa & Mr. P. Patnaik** presented a paper on "**Information Theory Bottleneck for Mobile Adhoc Networks**" in the proceedings of "**National Conference on Emerging Trends in wireless Communication**" at Regional College for Educational Research & Technology, Jaipur in association with IEEE in March'11.
- Three faculty members (**Prof A. N. Mahajan, Mrs. Dimple & Mrs. Swati Jha**) attended a two day seminar on "**Embedded Telecommunication and Signal Processing**" organized by Guru Tegh Bahadur Institute of Technology, New Delhi in March'11.
- **Mrs. Swati Jha** attended the "**National Symposium on Materials for Advanced Technology**" organized by Banasthali University, Rajasthan in March'11.
- **Mrs. Pooja Yadav** attended a two day workshop on "**PSpice**" at **Savera Institute of Technology**, Farrukhnagar, Gurgaon in Jan'11.

Industrial Visit :

A group of final year ECE students accompanied by **Mr. P. Patnaik** visited Air Force Station, Tuglaquabad, New Delhi on **3 Mar 11** for an industrial visit. The students were given practical exposure on various repair and maintenance facilities in respect of the following equipments.

- P-18 and P -19 Radar
- Parabolic Antenna Reflector, Horn Antenna Yagi Antenna, ra
- Radomes
- Pichora Missiles
- Master Test equipment in calibration laboratory

Achievements :

Participation of Department at FIA Project Competition, Faridabad

The following project put up by the Department have been awarded prize as indicated in the project competition held by **Faridabad Industries Association (FIA)**, Faridabad in **May 11, 2011**.

Sr. No.	Dept	Project	Position	Guide	Students
	ECE	Vehicle Management System	Third	Mrs. Amninder Kaur	Gaurav Kathuria Gaurav Kumar Gaurav Jain Gaurav Sharma Divyashruti Kalia

Live Projects Undertaken by Students :

Digital Display Board :

The aim of the project is to build a LED display board displaying moving text. The heart of the project is microcontroller which will receive messages from the system and regularly update information being displayed on LED display board. The sensors will monitor the weather conditions and feed it to the microcontroller through ADC. The basic need and purpose of this project is the automation of human work and resort to efficient communication replacing the need of conventional notice boards.

Project Guide

Prof. Mrs. A. N. Mahajan

Team

- Samyak Sabat (Roll No. 10231)
- Sanjay Rawat (Roll No. 10234)
- Sanjeev Awasti (Roll No. 10235)
- Sarthak Sawhney (Roll No. 10236)
- Saurabh Aggarwal (Roll No. 10237)
- Saurabh Mullick (Roll No. 10238)



Electronic Eye with Dial-Up :

This project is nothing but a reliable security system wherein voice message is an additional feature. When we are away from the house, and any intruder comes, then the voice message will be heard immediately. One password for authorized person is set. In case somebody tries to enter through gate or presses wrong password, the audio message will be heard '**CHOR CHOR, PAKADO**'. At the same time sms will be sent to the owner.

Project Guide

✚ Mrs. Sakshi Pahuja

Team

- ✚ Charanpreet Bagga (Roll No.10161)
- ✚ Charu Dang (Roll No.10162)
- ✚ Deepak Garg (Roll No.10163)
- ✚ Deepak Neniwal (Roll No.10164)
- ✚ Deepak Yadav (Roll No.10165)

**Student's Viewpoint :**

Dronacharya College holds the reputation of producing quality technocrats every year. The strong bond between students and faculty gives better results so that students can perform better in the industry. The college provides various opportunities to groom them. PDP program has given an additional edge to launch the students in the industry. The college has set up a new R&D lab which is an added feature. I feel proud to be a part of this college.



Gaurav Kathuria (Roll No. 10171)

Our college provides an advanced approach for inculcating the professional ideas in young engineers. Discipline is the major concern here, which helps in the overall development activities and groom the students to become civilized technocrats by the time they passout. Teaching through LCD projectors in every classroom has helped in explaining the details of the subjects. Participation of students in writing papers for journals is add - on feather in the cap of department.



Divyashruti Kalia (Roll No. 10169)