



# Dronacharya College of Engineering

## ISSUE

Vol vii issue LXX

## Electronics & Communication Engineering

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### From Editor's Desk :

We, at **Dronacharya College of Engineering, Gurgaon** are committed to continuously strive, adopt and implement innovative teaching-learning process and result-oriented strategies to provide high quality academic, intellectual and conducive environment wherein all constituents of the college like students, faculty and other staff, can contribute their best to the services of Nation.



Education today is no longer confined to the four walls of a classroom. All round efforts are being made to provide qualitative, value based, activity oriented education in our college.

For over-all development of students, we provide ample opportunities to show their talent in sports, technical-fests, debates, symposiums and other co-curricular activities. At **DCE, Gurgaon** students are inspired and motivated to participate in the seminars, conferences and project exhibitions etc.

The faculty members prepare students for broad educational background that helps them to be creative, entrepreneurial leaders and move among a variety of careers and disciplines. We have been successful in providing a conducive and congenial atmosphere in the college so that the imparting of qualitative technical teaching-learning is done successfully.

We also make our students aware of their responsibilities and commitments in making this world a better place to live.

**Editor, (Dr. Sunil K. Mishra)**

## From HOD's Desk :

**"I never teach my pupils. I only attempt to provide the conditions in which they can learn"**  
**-Albert Einstein**



The department of Electronics & Communication Engineering is engaged in providing effective teaching and promoting research related activities with an aim to produce highly skilled technocrats full of creativity and dynamism to take on responsibilities in the corporate world.

The ECE department has been striving to excel in academics as well as contribute effectively towards the overall personality development of the students. The University results declared last month have shown a rising overall trend due to dedicated efforts of faculty, staff and the students.

I am very glad to put it on record that projects fabricated by our students have won first and second positions in a National level Project Competition held recently at Pune, earning laurels for themselves as well as for the department and the institution.

The department organized guest lectures by experts from industry to effectively motivate the present students.

Recently, I attended Technology Day Function celebrated in Vigyan Bhawan on **11th May 2012** wherein **Dr. A. P. J. Abdul Kalam**, former **President of India**, graced the occasion as chief guest. He stressed the need for more thrust on R&D and Innovative work through **Public Private Partnership (PPP)**. The ECE department always encourages its students and staff to come out with good innovative ideas related to projects and research work.

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

## Projects :

Two faculty members, **Prof. (Mrs.) A. N. Mahajan** and **Mrs. Swati Jha** along with five students from ECE department attended **Campus Innovation Award Ceremony 2012** for best projects organized by EMPLOYABILITY TIMES in association with BST at College of Engineering, Pune. '**Smart Lighting Management System Using Zigbee**' guided by **Mr. Ajit Kumar** and '**LCD Display Smart baby Incubator**' guided by **Prof. (Mrs.) A. N. Mahajan** of our college were conferred first and second positions respectively.

Sr. No	Deptt.	Project	Position	Guide	Students	
					Roll No.	Name
1.	ECE	Smart Lighting Management System Using Zigbee	1 <sup>st</sup>	Mr. Ajit Kumar	11158	Ms. Avyashree
					11152	Ms. Ankita
					11146	Ms. Amita
					11163	Ms. Deepika
2.	ECE	LCD Display Smart Baby Incubator	2 <sup>nd</sup>	Prof. (Mrs.) A. N. Mahajan	13230	Ms. Saniya Puri

## Smart Lighting Management System Using Zigbee :

In this project, the lights may be turned off and on and the intensity may be adjusted depending on the ambient light conditions and occupancy of the area. The fan speed can be regulated based on the temperature. An AC may also be controlled. A PIR (Passive Infra Red) sensor is used for motion/occupancy detection, a LDR (Light Dependent Register) is used for detecting ambient light conditions and LM35 temperature sensor is used for acquiring temperature. This information is fed to a microcontroller, which controls the light and fan through a digital dimmer circuit. The microcontroller communicates with the light and the fan through **Zigbee** RF links, eliminating direct wiring between the control and the devices.

## LCD Display Smart baby Incubator :

Idea of making a Smart Baby Incubator came in mind when premature deaths of a few infants were breaking news in Electronic and Print media. Usually incubators are simple warmers but in this project we have added features due to which all the parameters will be maintained within proper limits by keeping the baby in incubator itself. Proposed advancement is to add an LCD display and few sensors that will show parameters like pulse rate, weight, name, date and time of birth. Temperature and humidity levels will be maintained and an alarm system with messaging facility to the decided person will be incorporated. To make it more accessible, we will be also making it an open door incubator. The project is envisaged to bring down infant's mortality rate through these additional provisions in baby incubators. It has great future scope like addition of blue ray therapy, visual effects with alarming system etc. Implementation of this device will really help community to bring down infant mortality rate.



**Ms. Saniya Puri, a student of DCE, Gurgoan receiving prize and certificate at Campus Innovation Awards at Pune 2012**



**Prof. (Mrs.) A. N. Mahajan, Mrs. Swati Jha and Mr. V. Wakhlu along with Dronacharyans at Campus Innovation Awards at Pune 2012**

## Placement :

A number of reputed companies visited the college for campus placement during last month. Some of the students placed recently are mentioned here:

Sr. No	Branch	Roll No.	Name	Company Placed
1.	ECE	11239	Sajal Kumar	My Source Innoventures
2.	ECE	11193	Manu Vivek Kadian	My Source Innoventures/NIIT
3.	IT	11387	Shefali Singh	HCL Comnet
4.	CSE	11066	Monica Narwal	Juventus software

Sr. No	Branch	Roll No.	Name	Company Placed
5.	CSE	11054	Kirti Katpalia	Juventus software/KMG Infotech
6.	ME	11313	Rahul Kumar	Mitsuba Sical
7.	ME	11298	Mohit Yadav	Mitsuba Sical
8.	ME	11281	Hemant	Mitsuba Sical
9.	ME	11288	Kavita Gambhir	Mitsuba Sical
10.	ME	11287	Karan Kataria	IAF

### Practical Training :

The following courses are being conducted in the college premises for the first time to give more practical exposure to the students.

- ✦ Short term training on **C++ will be** conducted by **NIIT** for 15 days commencing from **15th Jun 12** in which 30 students from IV and VI semester of ECE department will be participating.
- ✦ Practical Training on **Cellular Mobile Telecomm** will be conducted by **Rawel Educare Pvt. Ltd.** for 30 days commencing from **2nd July 12** in which 40 students from VI semester of ECE department will be participating. The training comprises 90hrs. of theory classes and 30 hrs. on-site practical exposure being imparted. The course work for 3 weeks will be conducted in the college itself and the last week's practical work will be done at **Rawelcom Institute of Telecom Training (RITT)** located at **D-499, Palam Extension, Sector 7, Dwarka, New Delhi-110075.**

### Higher Studies :

Two students namely, **Sitank Bhatia** and **Varun Kamboj** from ECE department are going to **Hamburg University (U.K)** and University of Manchester respectively for M.S. in E&CE.

### Conferences/Seminars/Publication :

**Dronacharya College of Engineering, Gurgaon** always encourages its faculty to attend conferences and seminars at outside institutions and present papers on latest technical topics so as to keep updated on advancements in the technology.

- ✦ **Prof. (Dr.) H. S. Dua (HOD, Deptt. Of ECE) & Prof. (Dr.) S. V. Nair (HOD, Deptt. of CSE)** attended **Technology Day function at Vigyan Bhawan** on **11th May 2012**. **Dr. A . P. J. Abdul Kalam, Former President of India**, was the Chief-Guest of the function. He stressed the need for innovative work and higher spending on Research and Development by Public Sector as well as Private enterprises.

- ✦ **Prof. Vinay Kumar Nassa, Prof. (Mrs.) A. N. Mahajan, Mrs. Rakhi Khedikar and Mrs. Sakshi Pahuja** from Deptt. of ECE attended a National Level Faculty Development workshop on "**Challenges for Research in Wireless Communication Technologies**" from **21st-23rd May 2012**, organized by **Deptt. of ECE, Chitkara University, Chandigarh**.
- ✦ **Mrs. Seema Das** along with 14 students from ECE Deptt. attended a seminar on '**Electronic OrCad**' from **CDAC Dwarka on 5<sup>th</sup> Apr 2012** to get the exposure regarding the various courses which are useful for their future .
- ✦ 12 papers have been contributed for publication in latest issue of Dronacharya Research Journal by the faculty and students of ECE department.

### Campus Updates :

- ✦ A high profile delegation consisting of Vice Chancellor, Dean and Professor of Computer Science Engg. from **East China Jiaotong University, China** visited the college on **22nd May 2012** with an agenda involving exchange of students between DCE and their University for training especially in the Computer Science Engineering field. The team was shown the infrastructure and available facilities in the college which were highly appreciated by them.



**Hon'ble Chairman Dr. Satish Yadav presenting a memento to the delegation**

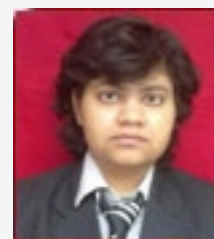


**Members of the delegation being shown the Projects fabricated by E&CE students**

- ✦ Since the intake of seats has been increased due to introduction of new branches i.e. Civil and Electronics & Computer Science Engineering, the construction of new building is in full swing.
- ✦ Final University Practical Examination of even semesters has been conducted successfully from **1st May to 10th May 2012**.
- ✦ The departments have conducted special classes for the weaker students for clearing their doubts from **1st May to 18th May 2012**.

### Student's Viewpoints :

Since the beginning of semester, I have been feeling a difference in my personality. The major thing I have experienced is seriousness in studies and focus on the career. **Dronacharya College of Engineering** provides a combo of discipline, culture and academics. Another important thing I have observed in this college is motivation to budding talent. One of many feathers in college's cap is the financial help to needy students. Proactive staff members inspire students not only for studies, but also for participation in different activities like Tech fests, seminars and sports. The workshops and courses held help in improving the creativity of the students. Counseling to the students is great asset. I can confidently state that I have made best decision to choose DCE for the four year B.Tech. Course in Electronics & Communication Engg.



**Reshu Sharma, VI Sem (Roll No. 12225)**

**Dronacharya College of Engineering** is a place where I have got an edge and an extra dimension in my personality. Every student has an inner potential but every college does not have that insight to find it out. DCE is an institution which takes care of the all-round personality development of its students. It provides variety of curricular activities for the students and simultaneously keeps an eye on academics as well by conducting tests and exams at regular intervals. It is famous for discipline and social activities. Faculties always make efforts to increase skills in every student by organizing different workshops and seminars. Management makes sure that the best companies visit the college for recruitment. The graph of placement is increasing since years. DCE is just the right and responsible place to study and progress in your career.



*Saniya Puri, IV Sem (Roll No. 13230)*

**Dronacharya College of Engineering, Gurgoan** 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. Personality Development 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.



*Ekta Narula, VIII Sem (Roll No. 11167)*

I take pride in being associated with **Dronacharya College of Engineering** which is blend of traditional ethics and modern education. Our college not only aims at our academic growth but also at improving personality that is why our college is rightly called "**GURUKUL**".



I am really thankful to our faculty and staff members for not only providing technical know-how but also grooming us overall to face the competitive world so as to become world class technocrats. Various seminars, workshops and other events are organized in the department from time to time to encourage students for bringing out new innovative ideas. The overall curriculum results in all-round personality development of the students. In a nutshell, I am proud to be a **DRONACHARAYAN**.

*Pintu Bhatia, VIII Sem (Roll No. 11770)*