



Dronacharya College of Engineering

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Electronics & Communication Engineering

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From Editor's Desk :

Technical education is the supreme component of a nation with infinite potential for supplementing greater value to services and for improving the quality of life of a common man. In orders to survive and perform successfully in today's competitive environment, we have to constantly adapt to innovation and be prepared to update knowledge and skills through continuous learning.



We, at **Dronacharya College of Engineering, Gurgaon** impart high standard quality technical education in various branches of Engineering. We have experienced, qualified and dedicated faculty members to counsel the students regarding their career and academics. We give greater emphasis on design oriented teaching, teaching of design methodologies, problem solving approach and greater exposure to industrial and manufacturing processes.

In addition to teaching- learning, they also endeavour to make the students competent in their respective fields. They make the students well aware with the importance of Discipline, Punctuality, Empathy, Positive attitude, Integrity and Morality. The college has a rich tradition of perusing academic excellence and overall personal growth. Our mission is not just to provide a solid educational foundation but also to build their career in reputed MNCs.

At **DCE, Gurgaon** we produce leading technocrats with optimum mix of attitude, skill, culture and knowledge who reach new heights day by day.

Editor, (Dr. Sunil K. Mishra)

From HOD's Desk :

"Self Confidence is the first requisite for achieving great things".



The department of **Electronics & Communication Engineering** is continuing its efforts with full vigor towards the improvement of university results and placement status of the students.

The Department is also making special efforts in guiding the final year students for industrial training in a reputed company and fabricating good projects under the guidance of competent faculty member, in view of revised syllabus issued by MDU for final year.

We motivate our students to lay more stress on strengthening their fundamentals as well as practical knowledge. The labs are being updated and equipped with latest equipments periodically. The team of highly dedicated faculty and staff with improved infrastructure facilities is providing the right environment and atmosphere to our students to excel in the academics as well as other co curricular activities. We don't leave any stone unturned to provide an edge to our students so as to complete successfully in the professional world and contribute to the well being of the society.

I am very thankful to the management, **Hon'ble Principal** and **Dean** Academics for their continued guidance and support.

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

Projects :

Since beginning the department of ECE has taken fabrication, designing and demonstration of technical projects seriously. The faculty members continuously encourage the students towards taking part in various project- exhibitions as well. Every student of the department is involved in making mini projects under the guidance of supervisors guides allotted to them. Some of the projects are listed below.

Sr. No	Project	Guide	Students
1.	Automatic Night Lamp with Morning Alarm	Mrs. Dimple Saproo	Amit Kumar (14144) Anil (14145) Anil Kumar (14146) Ankit Kumar (14147) Anuj Kumar (14149)
2.	Anti Theft Alarm for Bikes	Mrs. Seema Das	Avdesh (14157) Bhavinder Yadav (14158) Bhupender (14159) Bunty (14160) Chaksu Raj (14161)
3.	Vibration Detector	Mr. Chander Shekhar	Charul Thareja (14162) Chesta Verma (14163) Deepak Dudeja(14164) Deepak Kataria (14165)

Automatic Night Lamp with Morning Alarm :

Automatic Night Lamp with Morning Alarm System is a simple yet powerful concept, which uses transistor as a switch. It automatically switches ON lights when the sunlight goes below the visible region of our eyes. This is done by a sensor called Light Dependent Resistor (LDR) which senses the light actually like our eyes. The resistance of light dependent resistor (LDR) varies according to the light falling on it. This LDR is connected as biasing resistor of the transistor. According to the light falling on the LDR, the transistor is operated in saturation and cut off region. This transistor switches the relay to switch on / off the light. It automatically switches OFF lights whenever the sunlight comes, visible to our eyes and activates the morning alarm. By using this system energy consumption is also reduced. This principle can be employed in street lights as well. In this project, there is no need of manual operation like ON time and OFF time setting. This project uses regulated 12V, 750 mA power supply. IC 7812 three terminal voltage regulator is used for voltage regulation.

Anti Theft Alarm for Bikes :

An anti-theft system is any device or method used to prevent or deter the unauthorized appropriation of items considered valuable. Theft is one of the most common and oldest criminal behaviors. Where the ownership of a physical possession can be altered without the rightful owner's consent, theft prevention has been introduced to assert the ownership whenever the rightful owner is physically absent.. In the case of vehicle theft, the best deterrent to theft is in the installation of an approved vehicle anti theft immobilizer. Many vehicles have OEM (factory installed) units and afford protection through the ignition system. OEM immobilizers function through the ECM/PCM (computer) under the hood of the vehicle. In general terms, the RFID tag attached to the key must be read by the ECM in order to allow ignition to occur. Unfortunately, organized crime is able to bypass these systems and steal any vehicle at will. An approved immobilizer uses a 3 circuit isolation system which thwarts even the most experienced thief.

Vibration Detector :

A vibration detector is a device which detects the vibration and converts it into useful energy, which can be used for charging mobile phones, illumination of different coloured LEDs according to the magnitude of vibration detected.

In this project, whether it's truck throttling over the highway, or an airplane roaring about the sky, or whether it's a knock on the door or a purring of the cat or simply your heartbeats, the vibration level detector will sense them all and convert into beautiful sequencing LED light bar graph indications. The number of LEDs lit in the bar graph at any particular instant indicates the magnitude of the vibration force at that particular instant.

Practical Training/Industrial Visit :

ZTE Telecom Manesar :

Mrs. Rakhi Khedikar along with 20 students and Mr. Chandra Shekhar along with 15 students of VII semester of ECE Department had been to **ZTE Telecom India Limited, Manesar, Haryana** on **11th Oct** and **18th Oct 2012** respectively for industrial visit and seminar on Telecommunications Technologies. ZTE Corporation is a leading global provider of telecommunications equipment and network solutions. It connects global customer via voice, data, multimedia and WLAN. The industrial visit was preceded by a seminar on telecommunication technology basically to raise the aspiration levels of students. The seminar included a video presentation as well as effective verbal explanation about the company's background and their efforts behind the success of ZTE Telecom. A good exposure on the Wireless Communication was a part of seminar presentation. At the later part of the program, the students had a ZTE Telecom industry tour, wherein students visited different departments from production to services.

Infosys, Chandigarh :

50 final year students of IT branch from the college went for an industrial visit to IT Park, organized by Infosys at Chandigarh on **06th October 2012**.

Conferences/Seminars/Workshops :

- **Prof. Vinay Kumar Nassa**, along with 30 students of 5th semester of ECE Department attended seminar at **SP Jain Centre Auditorium, University of Delhi South Campus, Benito Juarez Road** on **12th-13th Oct 12**. The seminar was about Joint Academies lecture and workshop on "**History, Aspects and Prospects of Electronics in India**". Eminent speakers and professors from renowned institutes and companies delivered lectures on latest technologies and showed new horizons to young generation. The topics of seminar included the ideas that revolutionized microelectronics and their social impact. Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and National Academy of Sciences, Allahabad and IEEE EDS Delhi Chapter, New Delhi jointly organized the workshop.
- An In-campus workshop on '**Ignition to young minds**' at **Dronacharya College of Engineering** has been organized on **20th Oct 12** by **M/s Inventi-Novo Trail Consortium, Bhopal**. The workshop was aimed at triggering students and young professionals to out-of-box thinking. Being simultaneously effective for partakers from first year college students to research scholars, the workshop helps build **Intellectual Property protection tools** and **patenting portfolio** boosting all round progression and confidence. This workshop will help students to generate ideas, for inventing and patenting.
- There was a seminar on health care by **HealthMitra** on **05th Oct 12**. The main aim of this joint venture is to provide counseling to the masses as well as individuals who seek health advice at regular intervals at affordable costs.

Cultural Activities :

A group of students took part in **MDU Zonal Youth Festival** from **9th-11th October 2012**. Students participated in events like Hindi Poetry and Group Song etc.



University Results :

Our students have done very well in the last semester exam results declared recently. The result % age has improved significantly compared to earlier semesters. Students secure more than 70% are given below:

VIII SEM:

Roll No.	Name	Marks %age
11222	Prerna Gupta	87.0
11244	Shantana Lohan	84.4
11136	Aditya Vasisth	84.0
11176	Himani Raghav	83.9

Roll No.	Name	Marks %age
11216	Prashant Vashisth	83.6
11265	Yatin Kumar	83.0
11147	Aneesh Gupta	82.9
11146	Amita	82.6
11199	Neelam Yadav	82.6
11211	Pansy Singh	82.0
11162	Deepak Kataria	81.9

VI SEM:

Roll No.	Name	Marks %age
112225	Reshu Sharma	78.00
12773	Kusum	76.30
12145	Anuj Kr. Sisodia	76.10

IV SEM:

Roll No.	Name	Marks %age
13242	Surabhi Abbi	80.00
13158	Chahat Yadav	78.40
13191	Monika Vasisth	78.20
13170	Divya Aggarwal	77.00
13142	Anita Dangi	75.40
13157	Bhawna Manchanda	75.30

Student's Viewpoint About The Department:

This college has provided us with a lot of enthusiasm and helped us to build in a lot of self-confidence. Here, at **DCE**, there is overall improvement in the personality of an individual whether it is academically, practically or extra- curricular activities etc. Students get a chance to nurture their talent. Faculties also take interest in overall exposure of students so that the students can face the outside world.



Deepak Baghel (Roll No. 13769)
V SEM

Being a part of this esteemed and reputed college, I feel proud to see myself at a place where the elements of knowledge, discipline and education merge to light up the lamp of success for the members of this family. The college strives hard to inculcate moral and ethical values in the students. In addition to the normal academic routine, ECE Department has well-qualified, dedicated and experienced faculty members who always help the students in gaining clarity of the subject and imbibe knowledge.

It's my privilege to be a student of ***Dronacharya College of Engineering***.



***Satinder Pal Singh (Roll No. 12235)
VII Sem***

ECE Department has provided the best experience in my college life. The faculty members groom us for personality development, self-esteem and confidence to enable us to have good jobs in reputed organizations. ***DCE, Gurgaon*** is famous for its discipline, culture and academics. ***DCE*** institute makes the students all rounders. ECE department has organized many workshops, events and seminars to encourage students for bringing out new innovative ideas. Recently, there was an industrial visit which was very helpful step taken by department to encourage the students to get an industry exposure and a feel of the environment in which they will serve after passing out. I feel proud to be a student of ***Dronacharya College of Engineering***.



***Monika Verma (Roll No. 12774)
VII Sem***

I feel privileged to be a part of prestigious institution, '***Dronacharya College of Engineering***'. The college offers high standards of academic opportunities and has set a bench mark in discipline and conduct. I have personally benefited a lot from excellent faculty that college has. I am thankful and appreciative of the ECE department and the college for my continuous overall personality development.



***Ashish Saini (Roll No. 14155)
VII Sem***

'Dronacharya' - the word only brings a bright picture of discipline in our minds. It is the one of the institute that guides its students although, helps its students in overcoming their weaknesses and also to achieve the height of success in life. The achievements of an individual are directly linked to his/her institute, teachers and environment, which is being provided by the college. The ECE department has very well equipped laboratories giving us good practical knowledge.



***Nupur Tuteja (Roll No. 12192)
VII Sem***