



# Dronacharya College of Engineering

## ISSUE

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## Electronics & Computer Engineering

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### From Editor's Desk :

**Dronacharya College of Engineering, Gurgaon** is emerging as a leading world-class institution which has contributed immensely towards promoting excellence in Technical education designed and delivered to meet National needs and International standards.

The magnanimous management, the patronizing Principal, the sagacious seniors, the dedicated HODs, the devoted faculty and all other staff members look forward to witnessing the career graph of our academic stalwarts further elevated to enviable heights of glory. In addition to offering excellent, wide-ranging opportunities, re-creational, creative and cultural activities, the college has remarkable placement record and most students have their careers charted out well before they complete graduation. Training and Placement Cell at **DCE, Gurgaon** provides excellent infrastructure to arrange the sessions of aptitude test, group discussions, interviews etc.



Now, it's an opportunity to wish all readers a New Year orchestrated with high voltage, heritage of happiness, bloom of health, zoom of zeal, pampering prosperity and series of scintillating success, the likes of which were never witnessed before. May all seven stars in the constellation, seven colours in the rainbow, seven **suras** of Goddess **Saraswati's** lute, sweet dreams of gong across the seven seas fill your life with the rarest of the rare jubilation!

Recently, at **Alumni- Meet-2012** held at **The Hotel Taj Palace, New Delhi**, we expressed that our budding engineers must get a wider exposure at overseas seats of higher learning and professional opportunities but let them not forget the duty they owe to the country and their affectionate alma mater.

Editor, (Dr. Sunil K. Mishra)



## From HOD's Desk :

In the words of Horace -

**"The beginning is the most important part of the work".**

It's an honor to for me and our department, **"Department of Electronics & Computer Engineering"** to release the first e-newsletter of the **New Year 2013**. May the coming year bring in prosperity, happiness and fortune to all the readers!!



This department started functioning in its totality from August 2012 with the first batch coming in III Semester. Since then the Faculty & Students have shown enthusiasm and positive attitude in Academics and other curricular activities of the college. We understand that in today's competitive environment theoretical understanding must be complemented with practical exposure and hence we are committed to organize at least one workshop in each semester because we firmly believe in the verdict of Babe Ruth-

**"It's hard to beat a person who never gives up".**

In the very first semester, the faculty members and students have carved a small **niche** for themselves in the **Ecosystem of Dronacharya**. The department is in its initial stage though, but has started with vigor and we as a team understand that "The key to realizing a dream is to focus not on success but significance!!! Then...even the small steps and little victories along your path will take on greater meaning!"

*Head of Department, Mrs. Swati Jha*

## Practical Trainings/Industrial Visits :

### **ZTETELECOM, MANESAR:**

All students of third semester **Electronics and Computer Engineering Department (ECS)** along with our faculty Dr. Rajesh Kumar attended a Seminar on **"Telecom Technologies"** at **ZTE TELECOM INDIA PVT. LTD, Manesar** on **October 18th, 2012** followed by an industrial visit. This program gave our students basic knowledge of how mobile network works. They provided brief information about manufacturing of various chips and described how they maintained a life cycle in the process of production. After the successful seminar, there was an Industrial visit, where they were introduced to different types of machines and their working principles. An educational trip & Industrial Visit like this offers an opportunity for a rich experience, and is a tremendous way to facilitate learning.

### **INDUSTRIAL VISIT TO VISOULIA ELECTRONICS, GHAZIBAD, (U.P.):**

Industrial Visits are an integral part of the academic aura of **Dronacharya College of Engineering, Gurgaon**. Trainings, workshops and industrial visits empower the students to understand and experience chemistry at work-place. They also become aware of career opportunities and recognize different issues related to health and safety as well. On **1st December 2012**, a group of 30 Students of **Electronics and Computer Department** of Dronacharya College of Engineering, Gurgaon visited **Visoulia Electronics, Ghaziabad (U.P.)** under the supervision of faculty members. Visoulia Electronics is a manufacturing commercial unit of **Printed Circuit Board (P.C.B.)** running under the visionary guidance of Mr. Pradeep Visoulia, a renowned **technopreneur (Engineer turned Entrepreneur)**. Mr. Pradeep Visoulia, **Director, Visoulia Electronics, Ghaziabad** and Mr. Parveen Sharma, **Director, Jiyanjani Technology Pvt. Ltd, Faridabad** welcomed the students and encouraged them for entrepreneurship. Mr. Visoulia imparted the key tips and tricks of his business to the students. At Visoulia Electronics, students were shown a number of technical processes like:

- ✚ PCB designing process using software
- ✚ Lamination of PCB using imported dry film
- ✚ Commercial Printing of circuit design on PCB using Ultra Violet Method
- ✚ Electroplating of tin on the tracks

- ✦ Etching process for the removal of excess of copper using a special solution of Iron.
- ✦ Tin removal from tracks using ammonia solution
- ✦ Casting for removal of protective layer on excess of copper.

The visit concluded with distribution of token of reverence. The students were mesmerized by the technical knowledge they imbibed during the visit. Moreover, through this Industrial Visit, they also understood the punctuality, discipline, safety measures etc. in the corporate.



**Students with Mr. Parveen Sharma and Mr. Pradeep Visoulia at Visoulia Electronics**



**Students holding a PCB manufactured at Visoulia Electronics, Ghaziabad (U.P.)**

### Workshops/Conferences/Seminars :

## **WORKSHOP ON PRINTED CIRCUIT BOARD TECHNOLOGY:**

The department of Electronics & Computer Engineering organized a two -day workshop on **"Printed Circuit Board (P.C.B.) Technology"** from **29<sup>th</sup>-30<sup>th</sup> November, 2012** in collaboration with **Jiyanjani Technologies Private Limited (JTPL), Faridabad**. This workshop was beneficial to all participants as they made the **first working project of their lives!!** Projects like Traffic Light, Fan Controller, Fire Alarm, Light Dependent Street Light, Water Level Alert, Fridge Door Alarm etc were made by our students within two days. It was also attended by students of other institutes. It indeed



**Anuj Yadav talking about two days events**



**Lakshit making his project circuit**



**Dean Academics distributing  
Certificates**

## **HCLTECHNOLOGYLTD.:**

Mr. Sidhartha B. Chaudhary, Ex-VP Retails, delivered a lecture to CSE & IT students on **"How to develop Sellable IT projects & market it and future prospects for students in it"**. The seminar was scheduled on **25th October 2012**. Mr. Sidhartha B. Choudhury in his 30 years of professional experience has been solving complex problems spanning all aspects of IT Industry for Fortune 500 clients. He is a visionary IT Professional, Thought leader and an independent analyst, writing and speaking at industry leading RETAIL & CPG conferences, user groups and trade publications.



**Speaker- Mr. Sidhartha B. Choudhury  
Ex-VP Retails**

## **SEMINAR ON IPR:**

**Dronacharya College of Engineering, Gurgaon** organised a one-day seminar on **"Intellectual Property Rights: Opportunities and Strategies"** on **8th December 2012** in which subject experts and scientists from different institutions and agencies addressed the faculty members. The objective of the seminar was to create awareness amongst the faculty members and researchers about patent system particularly in India and to actively involve them in innovation and invention activities protecting their intellectual property rights. The Guest-speakers **Shri Govind Sharma**, Head (P&A), NRDC, New Delhi; **Shri N. R. Meena**, Assistant Controller, Patent Office, New Delhi; **Shri R. P. Yadav**, Patent Attorney, New Delhi; **Shri Y. D. Panwar**, Scientist, TIFAC, New Delhi and **Shri V. K. Varun**, Scientist "F" & Director(CPIO), DSIR, Ministry of Science and Technology, Govt of India, New Delhi enlightened the participants their views on different topics like **Intellectual Rights & its scope, Patentable Inventions, Revocation of Patents, Copyright, International Patenting, Trade Marks, Trade Secrets, Geographical Indications, Industrial Designs, Utility Models** etc.

Inaugurating the seminar, **Hon'ble Principal Prof. (Dr.) B. M. K. Prasad** said that emergence of strong intellectual property regime and its global impact has opened endless opportunities for creating wealth, career and entrepreneurship. He further expressed that in this competitive and innovative age of knowledge-based society, there is a pressing need for focus on discussion, analysis and designing contemporary strategies to reap optimum advantages in the field of Intellectual Property Rights.

Presenting the overview of Intellectual Property Rights, **Shri Govind Sharma**, Head (P&A), NRDC, New Delhi told that the innovation and creative expression of indigenous and local communities are intellectual property. He expressed that intellectual property includes the rights relating to literary, artistic and scientific works; scientific discoveries; industrial designs; trademarks; protection against unfair competitions etc. Another speaker **Shri. N. R. Meena, Assistant Controller, Patent Office, New Delhi** talked on "Disclosure of Invention for Patent Protection". Addressing the audience, he said that an invention means a new product or process involving an inventive step and capable of industrial application. He shared three conditions i.e. novelty, inventiveness and usefulness for an invention to be patentable. He also explained different concepts like **Essential Patent Documents, Claims, Working of patents & Compulsory licensing, revocation of patents** etc.

**Shri R. P. Yadav, Patent Attorney, New Delhi** conveyed his ideas on Indian Patent System. He explained that a patent system ensures that information on new invention is made available for eventual public use so as to encourage technical and economic development. He said that patents are of no value unless the commercial worth of the product or technology can be demonstrated. In the seminar, he discussed other topics like Patent specification, Patent cooperation treaty, Industrial designs, Utility patent etc..

Continuing the thoughts and ideas, **Shri Y. D. Panwar, Scientist, TIFAC, New Delhi** delivered his talk on "Patenting in Engineering Sciences". He said that any new and useful process, machine, composition of matter, software and methods of doing business may also be patented. The participants discussed the fundamentals in patenting, patent prosecution and business perspectives in patenting etc. **Shri V. K. Varun, Scientist "F" & Director(CPIO), DSIR, Ministry of Science and Technology, Govt of India, New Delhi** imparted his experiences and shared his views on different strategies and policies for patenting. In his talk on "Patent Information and Search Strategies for Patents", he elucidated some relevant information on **design patent, plant patent, patent harmonization and regional patents** etc. The seminar was useful to the participants as they learnt how to improve the quality of Research & Projects relevant to the patentability. The seminar provided not only a vibrant ambience but also invigorated the faculty members and researchers to excel in their respective areas of interest.

The seminar concluded with certificate- distribution and a vote of thanks by Dean Academics **Prof. (Dr.) Onkar Singh** who expressed his heart-felt gratitude to the guest- speakers, Hon'ble Principal, all HODs and the participants who contributed in making the seminar a great success.



**Inaugural speech by Hon'ble Principal at IPR- 2012**



**Shri Govind Sharma, Head (P&A), NRDC, New Delhi presenting the overview of IPR**



**Shri N. R. Meena, Assistant Controller, Patent Office, New Delhi sharing his views**



**Shri R. P. Yadav, Patent Attorney, New Delhi talking about Patent system in India**



**Certificate distribution ceremony**



**Hon'ble Principal Presenting a Memento to the guest speaker**

## US-INDIA WORKSHOP ON “Best Practices for Women in Science”:

A group of ten students ( Sukhvinder Kaur, Poonam Sonal, Megha Pundir, Saniya, Indu, Shailley, Jyoti Kumari, Komal Sharma, Divya, Molisha Mehra) along with four faculty members - **Prof. A. N. Mahajan**, Mrs. Dimple Sapru, Mrs. Neelam Ruhil and Mrs. Pooja Jain represented **Dronacharya College of Engineering, Gurgaon** in a workshop on “**US-India Workshop on Best Practices for Women in Science**” held at **Gulmohar Hall, India Habitat Centre, New Delhi** on **10th December 2012**. The workshop was organized by the **Department of Science & Technology (DST), New Delhi** in association with **U.S. Embassy, India and Indo-US Science & Technology Forum** with an objective to address the remedies and challenges of women, particularly in US and India for empowering in the field of science and technology. Inaugurating the workshop, Ms. Nancy J. Powell, **U.S. Ambassador to India** and Mr. T. Ramasami, **Secretary, Dept of Science and Technology** explicated the importance of science and technology, scientific-innovation and creativity which may improve the living standard of women and lead to their success as technocrats and scientists. They also emphasised on creating opportunities for networking and mentoring for women scientists in both countries-India and U.S.

During the **first session** chaired by Ms. Shirley Malcom, **Head, Education and Human Resources, American Association for Advancement of Science**, the panellists Mr. Janet B. Koster, **Executive Director, Association for Women in Science**; **Prof. Vibhuti Patel, Head, Deptt. of Economics, SNDT Women's University**; Ms. Anitha Kurup, **Professor, School of Social Sciences, National Institute of Advanced Studies** provided a broad view of the scientific environment generating new scientific ideas and opportunities for women in India & US.

In **second session**, the Private Sector Initiatives, was chaired by Ms. Namita Misra, **Head, Open Research L'Oreal India** where in the panellists Ms. Kalpana Veeraraghavan, **Workforce Diversity Manager, IBM**; Ms. Sunita Rebecca Cherian, **Vice President Human Resources, Wipro Eco Energy**; Ms. Srimathi Shivashankar, **Associate Vice President Diversity & Sustainability, HCL Technologies**; suggested affirmative fiscal policies of India and US to encourage the role of women in science. They also discussed various themes like women in Science Profession; Role of Govt. in Empowering Women in Science; Advancement in Women's Career in Science and Technology etc. Governmental Initiatives was headed by Ms. Susan Gardner, **Deputy Director of the Office of Sc & Technology Cooperation, U.S. Department of State** and the panellists were Ms. Vinita Sharma, **Advisor & Head, Science for Equity, Empowerment and Development Division, Department of Science & Technology**; Ms. Renu Swarup, **Advisor, Department of Biotechnology**; Ms. Rekha Pillai, **Director International S&T Program, Oak Ridge National Laboratory**; Mr. Ian Simon, **Foreign Affairs Officer, U.S. Department of State** who enlightened the attendees on the current status of women. Academic Initiatives was presided over by, Mr. Akhilesh Gupta, **Secretary, University Grants Commission**; Mr. Loretta Moore, **Associate Vice President for Research and Scholarly Engagement & Professor, Department of Computer Science, Jackson State University**; Ms. Charu Lata Mahanta, **Dean (R&D), Tezpur University**; **Prof. L. S. Shashidhara, Indian Institute of Science Education and Research**; Mr. Pankaj Sharma, **Associate Professor of Technology, Purdue University** Ms. Janet. B. Koster, **Executive Director, Association for Women in Science** presided over the **third session** and the panellists, Ms. Karen Horting, **Deputy Executive Director, Society of Women Engineers**; Ms. Rashmi Gaur, **Professor & Head, Department of Humanities & Social Sciences, Indian Institute of Technology, Roorkee**; Ms. Felecia Nave, **Associate Provost, Prairie View A&M University**; Ms. Vibhuti Patel, **Professor Head, Department of Economics, SNDT Women's University**; Ms. Chandrima Shaha, **Director, National Institute of Immunology** discussed the valuable roles of women that can play a vital role in the overall development of a Nation.

During the **fourth session** presided over by Mr. Arabinda Mitra, **Adviser & Head, International Cooperation, Department of Science & Technology** and the panellists Mr. Rajiv Sharma, **Executive Director, Indo-U.S. Science & Technology Forum**; Mr. Blair Hall, **Minister Counsellor for Economic, Environmental, Science & Technology Affairs, U.S. Embassy**; Ms. Vinita Sharma, **Advisor & Head, Science for Equity, Empowerment and Development Division, Department of Science & Technology**; Ms. Susan Gardner, **Deputy Director, U.S. Department of State** highlighted the importance of using new technologies, need for scientific leadership and proper balance of societal and security concerns to obtain optimum participation of women in both countries **U.S & India**.

The workshop concluded with a vote of thanks by Ms. Tim Neeley, **Chief, Environment, Science & Technology Affairs, U.S. Embassy** who expressed his sincere gratitude to the speakers and all attendees. The workshop brought together women from a broad cross section of experts, scientists, educators and researchers. Through this workshop the attendees became aware of the vast geographical, ecological and socio-cultural challenges for women in US and India.

## SEMINAR ON “HIGHER EDUCATION: AFFIRMATIVE ACTION AND SKILL GAPS”:

A seminar on "**Higher Education: Affirmative Action and Skill Gaps**" was organised by **Observer Research Foundation** at OFR Conference Room, 20 Rouse Avenue, New Delhi on **21st December 2012** with an objective to emphasize on the need to turn the country's huge demographic resources into fruitful ways to take our Nation as one of the developed economies. Mr. Vinay Nassa, Professor (Department of Electronics & Communication Engineering) and Mr. Vijay Wakhlu, Associate Professor (Department of Mechanical Engineering) represented **Dronacharya College of Engineering, Gurgaon** in the National seminar where they came to know the current policies, skill gaps and information related to higher education and. Inaugurating the seminar, **Dr. Shashi Tharoor, Minister of State of Human Resource Development, New Delhi** expressed that there is a need to establish a body with statutory authority to prescribe academic standards, norms of accreditation, and mechanisms of financing and governance of institutions. Hon'ble Minister also shared that a draft bill to create such an authority in higher education is in offing. Another speaker, **Dr. Ved Prakash, Chairman University Grants Commission, New Delhi** talked about the Govt.'s role in granting permission for opening Institutes. He outlined three areas namely autonomy, penalty clause and research innovation which may be helpful to the development in Higher Education.

Other panellists like **Prof. Jeemal Unni**, Director, Institute of Rural Management, Anand, Gujrat; **Shri. J. P. Rai Executive Director at Prime Minister's National Council on skill development; Dr. Pramath Sinha CEO of 9.9 media and former Director at McKinsey & Co; Mr. Tobias Linden Lead Education Specialist, the World Bank and Mr. Harsh Sethi - Moderator** stated that the country is having large number of young people who are getting opportunities for education higher learning. It has been surveyed and found that many of them are fairly satisfied. Undoubtedly, it is time to rethink about innovation and creativity on the science of education, role of the state Govt. and qualitative education.

The seminar was a great success and the participants learnt some relevant tools for improvement in higher education.



**The Chief-guest Dr. Shashi Tharoor, Hon'ble Minister (HRD) in the Seminar**



**Prof R. Basant, Sr. Faculty (IIM, Ahmadabad) and Prof. Jeemal Unni, Director (IRM, Anand) discussing the issues on Higher Education**



**Prof Ved Prakash, Chairman, UGC New Delhi sharing his views on skill gaps**

## SEMINAR ON “Self-Management and Holistic Health”:

In association with Brahmakumaris' **Om Shanti Retreat Centre**, our college organized a one-day seminar on **“Self-Management and Holistic Health”** on **18th December 2012**. The objective of this seminar was to discuss issues like education & cognitive development, Health & Success, Social & Behavioral Development etc. so that the students and faculty members can contribute their best to the services of society and Nation. Sister Ranjana enlightened the participants regarding the importance of self-control, balance in emotions, positive thinking in one's success. She elucidated that self management means being able to manage the daily tasks to live well with one or more situations. She also talked on disciplined life-style, simplicity, co-operation, honesty, integrity, purity and peace. The seminar was useful to the participants as they learnt the nature and principles of consciousness, significance of spirituality and control of emotions in day-to-day life.



**Sister Ranjana talking about the process**



**Hon'ble Principal presenting the memento to Sister Ranjana**

## SEMINAR ON “Driving Academic and Operational Excellence” by ORACLE:

**Dronacharya College of Engineering, Gurgaon** always encourages the faculty members and students to participate in **Seminars/Conferences/Workshops/QIPs** of National and International repute. Recently, two faculty members Mr. Vijender Hooda, Associate Professor, **Dept. of Information Technology** and Mrs. Chitra Kaul, Associate Professor, **Dept of Computer Science & Engineering** attended a one-day seminar on **“Driving Academic and Operational Excellence”** organised by **Oracle** at **The Oberoi Hotel, Dr. Zakir Hussain Marg, New Delhi** on **18th December, 2012**. The objective of this seminar was to share the principles and strategies focussing on educational equity, professional growth and competence, peace and human security, qualitative productivity and attainment of excellence in education. The speakers like **Mr. Subodh Rustagi, Director, Higher Education, Oracle India; Mr. Madhu Gothandaraman, Solution Consultant, Higher Education; Mr. Deven Pandey, Sales Director, Oracle Policy Automation, Oracle India and Mr. Ajay Kapur, Director, Oracle Education, Oracle** enlightened the participants and provided valuable insights on Operational Excellence in higher education.

Addressing the audience **Mr. Subodh Rustagi, Director, Higher Education, Oracle India expressed** that operational excellence is required in academics to lead the present competitive environment. Globalisation, access to technology, sophisticated communications and highly aware customers are contributing to make the competition tough day-by-day. Mr. Madhu Gothandaraman, Solution Consultant, Higher Education shared his views on fiscal management, CRM, HR and procurement systems that enable transparency and unified view of students with anytime and anywhere access. Mr. Deven Pandey, Sales Director, Oracle Policy Automation, Oracle India talked about policy automation for higher education.

The seminar was highly informative and the participants learnt key-concepts and effective tools for obtaining excellence in higher education.

## Cultural Activities: NSS Camp :

NSS Unit at our college organized a one-day camp on **29th November 2012** on the theme of “Tree -Plantation and Cleanliness Drive” to provide an environment conducive for democratic and cooperative way of life in society. Inaugurating the Camp, the Dean, **Prof. (Dr.) Onkar Singh** addressed that the welfare of an individual is ultimately dependent on the welfare of the society as a whole. He stressed that the college has opportunity to have a large number of NSS Volunteers in the field of social services.

The program officers-Mr. Ashok Kumar and Mrs. Sangeeta Singla motivated the volunteers and made them aware about General Health, Stress Management, Time Management, Child Labour, Rain Water Harvesting, Literacy Campaigning etc. More than 150 volunteers participated and cooperated in the tree-plantation and cleanliness drive.



**Tree plantation by NSS volunteers**



**Prof. ( Dr.) Sri Krishan Yadav  
(HOD, Applied Sciences & Humanities)  
Planting a tree**

### University Result :

Three of our students secured more than 70% marks in Second Semester. Following are the details.

#### **II SEMESTER:**

Roll No.	Name	Marks in %
14630	Vijay Kumar Arora	79.49
14603	Aman Sharma	77.02
14620	Ravi Ahuja	72.60

### Student' Achievements :

Two of our teams had registered for the **EARTHIAN 2012** contest which is the sustainability program for Schools and Colleges organized by **Wipro**. The program consisted two stages and we are proud to announce that one of our teams comprising of **Lakshit Gupta, Vijay Kumar Arora, Anuj Yadav and Siddharth Uniya** had reached the preliminary shortlisted stage after being selected from more than **1000 submissions** in College Category.

## Placement :

### Aon Hewitt:

Aon Hewitt conducted a placement drive for final year B.Tech Student's. Five Students of CSE branch and Two Students of ECE branch have been placed. The details are as under:

S.No.	Roll No.	Name
1.	12121	Uma Anand
2.	12067	Monika Yadav
3.	12041	Dolly Naresh
4.	12079	Piyush Kapoor
5.	12073	Nidhi Nara
6.	12192	Nupur Tuteja
7.	12168	Kanak Sharma

### Indian Army:

Indian Army came for placements of our Third year students (2014 batch) in the campus on **6th December 2012**. More than fifty candidates appeared in all. Results are awaited.

### Absolut Data:

Absolut Data came for placements of Final year CSE & IT Students on **9<sup>th</sup> November 2012**. Five students of CSE branch have been placed. The details are as under:

S.No.	Roll No.	Name
1.	12026	Ayesha Tafsir
2.	12056	Kapil Dulani
3.	12067	Monika Yadav
4.	12074	Niharika Sharma
5.	12001	Aanchal Vinayak

## Alumni-Meet 2012 :

To take a walk down the corridors of nostalgia, the Alumni-Meet of **Dronacharyans** was organised at **The Hotel Taj Palace, New Delhi** on **27th December 2012**. Undoubtedly, the Alumni-Meet is a grand occasion when the Alumni of **Dronacharya College of Engineering, Gurgaon** gather with their families to get rejuvenated and reconnected with the Management, faculty and staff of the college. The ceremony was started by welcoming the **Chief-Guest Hon'ble Dr. Satish Yadav, Chairman, Dronacharya Group of Institutions**, other guests and alumni with rose flowers followed by a welcome speech by **Prof.(Dr.) Onkar Singh**, Dean, Academics of the college. Addressing the **Alumni**, Hon'ble Chief-guest underlined the achievements of **Dronacharyans** in various fields particularly science and technology. He also shared that the alumni of **DCE, Gurgaon** are holding positions responsibility in a number of Government organisations, PSUs, MNCs, Academic institutions etc. and many of them are successful entrepreneurs providing jobs to others as well. He emphasised the need for further strengthening the linkage between the Alumni and the Alma Mater, **Dronacharya College of Engineering, Gurgaon**.



The visionary **Principal Prof. (Dr.) B. M. K. Prasad** expressed that due to the worthy and recognised contributions of Alumni, **DCE, Gurgaon** is named as one among top Engineering colleges in NCR & Haryana. He reiterated that **Alumni-Meet** is an opportunity given to every alumnus to share experiences about his/her alma mater and its contribution to their career.

**The Alumni-Meet** was glittered with some sentimental and rational speeches delivered by the Alumni. They were all unanimous in echoing their feelings that the college has played a very vital role in shaping their destiny. The evening resulted in sharing of reminiscent times, new networks built, rich experiences shared. The Meet ended with elaborate, sumptuous and delicious dinner.



**Hon'ble Chief-guest, Dr. Satish Yadav  
motivating the alumni**



**Principal, DCE, Gurgaon addressing the  
Alumni**



**Hon'ble Chairman interacting with other  
Guests**



**Nitika Abrol sharing the moments of  
discipline & academics**



**An Alumnus talking about the contribution  
of his Alma Mater**

### Projects :

ECS department, since the beginning of this semester, has laid stress on **minor projects** to be taken up by students, apart from their course curriculum, so that they are industry ready. Following remarkable projects were chosen by students under the able guidance of our Faculty members:

## A FULLY AUTOMATED FIRE FIGHTING ROBOT:IT'S OBJECTIVE:

Heart of the project is Atmel Mega 32 micro controller, which is coded into C language. It is equipped with two stepper motors for the movement of robot. Analog to digital converter converts the signal from the following sensors:

- Four numbers of infrared sensors detects proximity to wall.
- One number of infrared sensors detects marking of floor.
- One number of infrared sensors detects candle, which is simulating fire.

Robot uses path finding algorithms to detect the candle, and extinguishes the fire by switching on the fan for extinguishing the fire. This prototype can be used in military combat operations or in industrial applications.

**Project guide :** Mr. Rajesh Kumar

**Students :**

Anshul Patro

Ravi Ahuja

Aman Sharma

Vineet Kataria

## HOME ANALIANCES CONTROL BY MOBILE PHONE:IT'S OBJECTIVE:

The objective of this project is to enable users to remotely control their home appliances and systems using a cell phone interface. To access the control unit, the user should send an authentication code along with the requiredn function over a GSM. The cell phone based interface at home (control unit) would relay the commands to a microcontroller that would perform the required function. This prototype can be used in controlling the transport vehicle over a distance.

**Project guide :** Mrs. Meenakshi Yadav

**Students :**

Sukhwinder Kaur

Anuj Yadav

Lakshit Gupta

Alka Chauhan

## ALCOHOL BREATH AND TILT ANALYZER:IT'S OBJECTIVE:

Project Alcohol Breath Analyzer is a reliable circuit that takes over the task of controlling the accidents due to drink and drive. In this, if the person is drunk, ethanol which is in the air is detected by a sensor which acts up on it and then LCD will show a message "you are drunk" with an alarm and does not allow the vehicle engine to start by disconnecting the engine ignition electrical system. We also intend to incorporate in our project, another module that will detect the movement of driver in seating position and if the driver is falling sleepy and his body posture is tilting in one direction or another, immediately, an alarm would warn the passengers in Car/Bus/Truck and the vehicle would stop.

**Project guide :** Mrs. Swati Jha

**Students :**

Siddharth Uniyal

Vijay Kr. Arora

Amit Singh

Mamta Gothwal

## Students' Viewpoint :

I take this opportunity to express my gratitude to be a **Dronacharyan**. Our college is setting milestones in education, placement and students personality development year by year. Students undergo different workshops, trainings, seminars and project competitions which help them to boost up their confidence level. Carrying the flag of "**Electronics and Computers**", we aim to outshine our talent in the name of confidence and perfection. The HOD and the faculty of my department are not less than the "**candles that burn themselves to give us sufficient light**" to distinguish between good and bad. They are the first ones to realize our talents and explore them at the same time. Under the valuable guidance of our teachers, we bloom to become the future set of professionals, without which we are a "**body without soul**".



**Mamta Gothwal**  
(Roll No. 14615) III SEM

It gives me an immense pleasure to be a part of this prestigious college whose name "**DRONACHARYA**" itself portrays discipline. Students from all walks of life descend here not only to gain education but to nurture true ethical values to light up the lamp of success. Our faculty member comprises one of the most prudent and dedicated staff having knowledge and experience of all fields of life. Since, the sole aim of this institution is to impart basic facts through learning and example, stress is also given gain practical knowledge and experience followed by industrial visits to train students through workshops. We are exposed to various workshops to. It's my great privilege to be a part of such a reputed and prestigious institution.



**Anshul Patro**  
(Roll No. 14605) III SEM

Our stream Electronics & Computer Engineering is unique as it includes all important theoretical and practical aspects of both ECE & CSE. Though the stream is new but it is capable of producing engineering equipped in both software and hardware knowledge. Our **HOD, Mrs. Swati Jha** counsels us as she ardently believes that out placement opportunities can drastically be improved by practical exposures through workshops and seminar.

I am proud to be a part of this demanding stream and department.



**Anuj Yadav**  
(Roll No. 14606) III SEM