



Dronacharya College of Engineering

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Electronics & Computer Engineering

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From Editor's Desk :

The True value of education is in providing a wisdom tool to each and every student to make a good life than merely making a living out of the acquired knowledge.

We, at **DCE**, impart futuristic technical education and instill high patterns of discipline through our dedicated faculty, who shall set global standards, making our students technologically superior and ethically strong, thereby improving the quality of life in society.

Dronacharya College of Engineering, Gurgaon aspires to establish a system of Quality Assurance, which will on a continuous basis evaluate and monitor the quality of education and training imparted at the institute, improve the teaching-learning process and ultimately develop the institute as a Centre of Excellence.

We strive to complement the academic component of the university and enhance the overall educational experience of students through a wide range of extra-curricular programmes, facilities, services and activities. Co-curricular and extracurricular activities are planned and executed through a number of associations, clubs, societies and student chapters of professional bodies. These events provide students and other members of the institute an exposure to a variety of social, cultural, intellectual, recreational opportunities and challenges.



Editor, (Dr. Sunil K. Mishra)



From HOD's Desk :

"It is important to remember that educational software, like textbooks, is only one tool in the learning process. Neither can be a substitute for well-trained teachers, leadership, and parental involvement."



Currently the department has entered in its third year and the enthusiasm shown by the students has got laurels for our College. Being shortlisted in top teams worldwide in **Intel perceptual computing challenge** and engraving innovative idea in **Top 50** in the **National Youth Ideas Challenge** on Entrepreneurship across India organized by **ISEED - The Indian School for Entrepreneurship and Enterprise Development** are just a few to mention. Our student winners of the zonal round of ROBO-ZEST'14, which is a Robotics Workshop cum Championship series, are going to participate in the technical fest of **IIT Bombay** named as **AAKAAR '14**. The department also looks after the **Indian Society for Technical Education** activities in the college. The Chapter level, Zonal level and National level examinations of Sri Ramanujan Mathematical Competition 2013, organized by ISTE was hosted by the college.

The department leaves no stone unturned to motivate students in participating in all curricular and co curricular activities in and out of the college campus because we firmly believe in the words of Jennifer Fleming:

"Teaching in the Internet age means we must teach tomorrow's skills today."

Head of Department, Prof. Swati Jha

Projects :

S. No.	Project	Guide	Roll No.	Students
1.	EducApp	Prof. Swati Jha	14605	Anshul Patro
			14631	Vineet Kataria

Objective: "**EducApp**" basically deals with brief study of Perceptual Computing and how it can be used to make learning better. The project is trying to augment the existing modes of interaction to transform human computer relationship to a realistic end. It focuses on the development of an application that can revolutionize the learning criteria to make studies more efficient. The application consists of various 3-D models which can be controlled through hand gestures. These models can be rotated, zoomed and can be seen through every possible angle by controlling them through your hands. Thus, it will help students and teachers to develop interest and understand the concepts better.

Workshops/Conferences/Seminars :

Oracle Workshop:

Shiva Sharma (Roll No.14236) and **Sushant** (Roll No. 14240) of VI Sem ECE attended a one day workshop on ORACLE at Taj Palace New Delhi on **22nd January 2014**.

Microsoft Ideation Festival-2014:

Dronacharya College of Engineering, Gurgaon organized **Microsoft Ideation Festival 2014**, and initiated Microsoft Innovation Centre in the college campus, which will help build and accelerate skills and provide support in developing new ideas and value added business solutions. Ideation festival was organized by **Ms. Maneela Tuteja**, MIC Faculty Coordinator, from Department of IT under the guidance and unstinting support of **Dr. Jitender Kumar**, HoD (IT), **Ms. Sarita**, Faculty Coordinator CSE, and student coordinators **Ms. Parul Bhardwaj**, **Ms. Aakriti Bhardwaj**, **Ms. Mitasha Sapra**, **Ms. Anuradha**, **Ms. Jyoti Hazrati**, **Ms. Kavita Rawat**, **Mr. Hemant Sangwan**, **Mr. Kunal Ahuja**, **Mr. Bibhuti Bhushan**.



Microsoft Ideation Festival - 2014



Steering Committee

Workshop on "Robotics" :

Gaurav Verma (Roll No. 15709) and **Anoop** (Roll No. 16765) from **ECS Department** of **Dronacharya College of Engineering, Gurgaon** attended a two-day workshop on "**Robotics**" organized by **GD Goenka University**, Haryana in association with **Park Lab and Techniche, IIT Guwahati** from **30th to 31st January 2014**.



**Gaurav Verma, IV Sem, ECS
making his Robot**



ECS Students in the workshop

Faculty Achievements :

Conference Publications :

- ✚ **K.K. Singh** and **A. Mehrotra (2014, 5th-7th March)**. Building Extraction from VHR Imagery using Morphological Shadow and Building Operator. In IEEE conference INDIACom 2014, accepted for publication.
- ✚ **A. Mehrotra, K.K. Singh** and **P. Khandelwal (2014, 5th-7th March)**. An Unsupervised Change detection Technique based on Ant colony Optimization. In IEEE conference INDIACom 2014, accepted for publication.
- ✚ **A. Mehrotra, K.K. Singh, S. Tripathi** and **P. Khandelwal (2014, 21st-22nd February)**. Blood Vessel Extraction for Retinal Images Using Morphological Operator. In **IEEE International Advance Computing Conference**, accepted for publication.

International Journal Publication :

- ✚ **A. Mehrotra** and **K.K. Singh (2014)**. Detection of 2011 Tohoku tsunami induced changes in Rikuzentakata using Normalized Wavelet Fusion and Probabilistic Neural Network. **Disaster Advances**, Vol.7, Issue2, pp.1-8. **[SCI indexed with Impact Factor 2.272]**.

Book Publication :

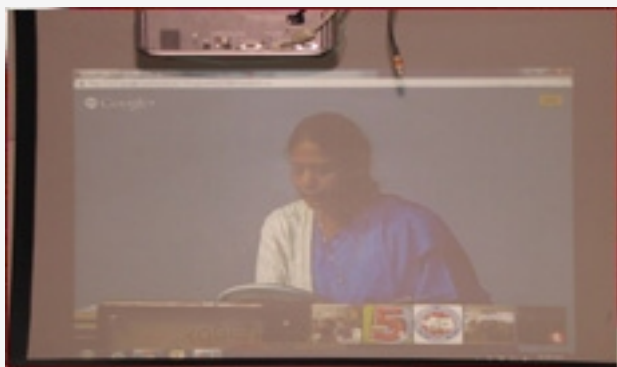
✚ **K.K. Singh** and **Akansha Singh**, "**Basics of System Modeling and Simulation**". Umesh Publications, New Delhi, India, in press.

Faculty Development Programme :

Induction Training Programme :

Dronacharya College of Engineering, Gurgaon firmly believes in the intellectual development of its faculty and staff through training programmes. In order to continue this trend, an **Induction Training Programme** was conducted in association with **National Institute of Technical Teachers Training & Research (NITTTR), Chandigarh at DCE, Gurgaon** with endeavor of **Prof. Vishal Bharti, Local Coordinator and HOD, Computer Science and Engineering Department**.

The Training programme successfully continued for 5 days, i.e. from **13th-Jan-2014** to **17th-Jan-14**. The inauguration speech was delivered by **Dr. M. P. Poonia**. After Inaugural speech, **Dr. Sunil Dutt** shared his valuable views on Instructional Planning & Delivery in Session II. The last Session was conducted by **Er. Amardev Singh** on **Intellectual Property Rights**. After every session, an Interactive Session was held where eminent faculties of participating colleges like Dronacharya Group of Institutions Noida, Vaish College of Engineering Rohtak, Baddi University, Himachal Pradesh etc. shared their views regarding topics discussed through video conferencing.



Prof. Dr. P.K. Tulsi during Training Programme



Prof. Vishal Bharti giving Vote of Thanks to the organizers

Short Term Course on "Current Mode Analog Circuit" :

Mr. Ajit Kumar, Assistant Professor, ECE Department attended a five day short term course conducted under the auspices of the Professional Development Programme at Department of Electronics Engineering, Indian School of Mines (ISM), Dhanbad during **13th-17th January 2014**. The course emphasized on Analog Circuits and Cadence ORCAD software schematic and programming techniques of circuit simulation.

Two Week ISTE Workshop on Signals & Systems :

The Electronics and Communication Engineering Department organized a two week ISTE workshop on "**Signals and Systems**" from **2nd** to **12th January 2014** in association with IIT Bombay and IIT Kharagpur to enhance the teaching skills of faculty in core Engineering and Science subjects. This is a part of the '**National Mission on Education through ICT**,' supported by MHRD. The course was made available to the entire country through 237 remote nodal centers in which more than 9000 faculty participated. In our nodal centre, 47 participants were present in the course out of which 5 were from other engineering colleges of Haryana and Noida.

IEEE Conference :

Mrs. Rakhi Khedikar, Associate Professor from ECE Department of **Dronacharya College of Engineering, Gurgaon** attended IEEE International Conference on Electronic Systems, Signal Processing and Computing Technologies [ICESC-14] sponsored by IEEE Bombay section, UMASS LOWELL, University of the District of Columbia, American Society for Engineering Education on **09th-11th, Jan 14** organised by Shri Ramdeobaba College of Engineering and Management, Katol Road, Nagpur, Maharashtra, in which she presented her paper on "**Energy Efficient Wireless Sensor Network**".

Oracle CloudWorld 2014:

Mr. Dharmendra Pal, Associate Professor (IT) along with **Ms. Megha Goel, Associate Professor (IT)** attended a one day Oracle event on "**Oracle CloudWorld 2014**" on **22nd January 2014**, at **The Taj Palace Hotel, New Delhi**. The program was about how OracleCloud-the world's most complete enterprise cloud-can enable business success. The seminar was a great learning opportunity since it was complemented with various DEMO Showcases by Oracle.



Mr. Dharmendra Pal at the event



Ms. Megha Goel at the event



Live Videocast from Singapore by Mr. Mark Hurd, President

Application of Graph Theory -A Novel Technique for Research :

Prof (Dr.) A.K Das and **Mr. K. S Vishwanath**, of ME Department have attended a 2 days seminar on the topic "**Application of Graph Theory - a Novel technique for Research**" held at **YMCA College of Engineering and Technology** on **14th & 15th January, 2014**. In this seminar, a brief discussion was made to explain fundamentals of Graph Theory & thereafter some case studies were presented. Graph theory is all about dealing with relationship among events, which are represented in the specific form of diagram, formerly known as Graph. Knowledge of these new graph techniques can be utilized widely in research areas of Mathematics, Science and Technology, Biochemistry, Mechanical Engineering etc. in both experimental as well as in simulation technique used for the research work.



A view of the YMCA University of Engineering & Technology.



The inauguration lamp is being lit by Prof. O.P. Gandhi of I.I.T, Delhi

Students' Achievements :

- Final Year Students **Bhawna Manchanda** (Roll No. 13157), **Parth Khanna** (Roll No. 13204), **Pankaj Mehendiratta** (Roll No. 13202) of ECE Department, **Shagun** (Roll No. 13094), **Prashant Sharma** (Roll No. 13079), **Vikas Wariyal** (Roll No. 13115) of CSE Department, **Sonia Tiwari** (Roll No. 13469), **Pooja Singh** (Roll No. 13446) of IT Department and **Aakash Bajaj** (Roll No. 13272), **Ankit Kumar Singh** (Roll No. 13281) and **Saurabh Kumar** (Roll No. 13341) of ME Department have been placed in "**Clear Path Technologies Pvt. Ltd**".
- Anshul Patro** (Roll No. 14605) and **Vineet Kataria** (Roll No. 14631) from ECS Department and **Shalini Sharma** (Roll No. 14091) from CSE department, engraved their idea in **Top 50** in the **National Youth Ideas Challenge ICUBE** on Entrepreneurship across India organized by **ISEED - The Indian School for Entrepreneurship and Enterprise Development**. The winners were facilitated by **Mr. Sanjeeva Shivesh (CEO, iSeed)**.
- Department of Electronics and Computer Engineering** of **Dronacharya College of Engineering, Gurgaon** organized two days workshop on "**Sixth Sense Botics, ROBO-ZEST'14**" from **29th- 30th October 2013** in collaboration with **RoboSpecies Technologies Pvt. Ltd, Aakaar 2014 (IIT Bombay) & International Accreditation Organization (IAO)** for the ROBO-ZEST 2014. Winners are selected for the final round to be held at **IIT Bombay** from **08th-09th March 2014**.



Anshul Patro along with his parents and Mr. Sanjeeva Shivesh (CEO, iSeed)



Team sharing their idea with the judges

Placement :

The placement department of **Dronacharya College of Engineering** strives hard for student's career development and placements. The department conducts personality development programs, mock interviews, aptitude preparations and group discussion programs on regular basis. The Placement and Training Cell conducts training programmes to prepare the students to face the recruitment process and to meet the needs of the industry.

Companies that conducted campus last month include: Mercury Solutions, K12 Innovations Pvt. Ltd, NIIT Ltd, Sun Integrated, Media Agility, Earth Infrastructures Limited, Unicorn Demart, Drishti Soft, Clear Path Technologies, Nirvana, Analac.

Students from various branches of 2014 batch have been already placed which includes fourteen students from CSE, thirteen from IT, three from ECE and three from ME.

University Result :

Toppers of ECS Department in **Fourth Semester** University examinations are:

Roll No.	Name	Percentage
14630	VIJAY KUMAR ARORA	73.62
14603	AMAN SHARMA	70.76
14620	RAVI AHUJA	69.90

Entrepreneurship Development Cell (EDC) :

- A webinar on "**Demystifying Market**" was conducted by National Entrepreneurship Network, Bangalore and organized by EDC of college in New CSE lab for E- Cell members including the E-leaders and faculty members on **January 21st, 2014** from 2-3 PM.
- Students of **Dronacharya College of Engineering** attended **NEN E-leaders** workshop held on **25th January 2014** at **Jagannath Institute of Management**. **Anuj Yadav** (Roll No. 14606) of ECS branch, VI Semester presented his idea of an internet startup which provides detailed information about hassle free ride in Gurgaon city. His site **Gurgoantravellog.com** was highly applauded as a great student venture. The basic objective behind this program was to contribute towards accelerating India's economic development by creating jobs through entrepreneurship. It also laid stress on acquiring leadership skills, building and leading a team , raising funds , networking and event management.



Anuj Yadav, student of ECS presenting his idea in front of NEN members



E-Leaders from various colleges present in the workshop



Speaker Mr. Sanjay Kapoor sharing his views on development of E-Leaders

Mentor Development Course 2013-2014 :

Mrs. Neha Malik, Assistant Professor from CSE Department and **Mrs. Madhu**, Assistant Professor from ECE Department, got the opportunity to attend two days "**Mentor Development Course**", held at **Indian Agricultural Research Institute, Pusa Institute** on **31st January 2014** to **1st February 2014**. The main speaker of the workshop was **Mrs. Radhika Meenakshi Shankar**, Founder Wise Owl Consulting.

The course was conducted by "**The Mentoring Skills Finishing School (MSFS)**", a pioneering initiative by the NEN Mentor Platform to identify, train and empowers future Faculty Mentors to effectively work with entrepreneurs in the ecosystem.



Video presentation during FDP



Workshop Attended by Mrs. Neha Malik and Mrs. Madhu

ISTE:

National level examination of **Sri Ramanujan Mathematical Competition 2013**, organized by ISTE was hosted by DCE, Gurgaon for **North Zone winners** on **January 25th, 2014** from 2-5 PM. Engineering and Polytechnic Students and Faculty members from the states of Delhi, Haryana, Punjab, U.P and Rajasthan participated in the test to compete nationally.



Candidates engrossed in writing the National Level Examination of ISTE-SRMC 2013

Student's Viewpoint :

They say "**Subjective Reaction is better than Objective Truth**". Introduction of a new branch/course in any academic curriculum means something advanced, creative and valuable. I can say so with confidence because I took admission in a creative branch of technical education named Electronics and Computer Engineering. My personal experience has been phenomenally rewarding. This new stream got boom because of effective leadership of Prof. Swati Jha, who heads this stream. She took it to a whole new level and enabled us to take pride in our exalted branch. In addition, my seniors proved to be the best asset any branch could even hope to get. From leadership to guidance, they provided me with every kind of support and made me a better person.



**Nitin Garg, IV Sem ECS
(Roll No. 15725)**

I am proud to be a student of Electronics and Computer Engineering Department. It was completely new for me as well as for the college but with cooperation of my Head of the Department Prof. Swati Jha and other faculty members, I acquired a perfect place. I could develop leadership qualities in me and got selected as class representative, Google Core Team member and also Campus Ambassador for Alcheringa IIT Guwahati. My stream is the best amalgamation of Electronics and Computers knowhow. I am really thankful to all my faculty members, my parents and God for bestowing me with an excellent opportunity to be a part of ECS department.



**Vijay Kumar Arora, VI Sem ECS
(Roll No. 14630)**

I am elated to be a part of an edifying department named Electronics and Computer Engineering which is the need of the hour. This course provides good exposure to students to meet the mutual demands made by both the industries. Our talented faculty members inspire me to show interest in research areas and guide me to write research papers due to which I have already got ten of my papers published till date. I am feeling very grateful that I chose this prestigious branch.



**Ravi Ahuja VI Sem ECS
(Roll No. 14620)**

"Total commitment is not just hard work, it is total involvement."

I feel honoured and privileged to be a part of Electronics and Computer Engineering department. It has excellent research and teaching facilities. I would like to express deep sense of gratitude to faculty members who help every student to explore their talent and provide constant support as well as guidance to bring out the best in them. Moreover various workshops and industrial visits have motivated the students to look beyond the theory and classroom knowledge and to experience how the real tech-world functions.



**Nitigya Grover IV Sem ECS
(Roll No. 15724)**