



Dronacharya College of Engineering

ISSUE

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Mechanical Engineering

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From Editor's Desk :

"Technology is the campfire around which we tell our stories."

- Laurie Anderson



In today's tech - world, there has traditionally been more emphasis on engineering than on design. Build a machine that works first, and decide their feature later has become a phenomenon of mechanics. Such advancement in technology extends our capabilities, improve our standard of living, and impact the environment in which we live.

Dronacharya College of Engineering, Gurgaon supports the **research and initiatives** for developing optimistic visions of the future through organizing various inspirational talks, interactive session, FDPs, Conferences, Seminars and many other events, from which the students gather valuable information about the **career prospects** during their study of engineering. We train the students of mechanical engineering how to design and build machines and devices that enable humans to live and work in space, in the air, on the ground, and under water etc.

The academic programs offered at our college are comprehensive and continuously updated to keep pace with latest developments and innovations in associated disciplines with necessary blend of technology. To sum up, we hope that this issue will serve as a barometer through which we can measure the growth including the positive ways for humanity to steer new technologies and challenges.

Editor, (Dr. Parul Mishra)



From HOD's Desk :

DCE, Gurgaon strive to achieve **excellence in education** with the objective to bring glory to our Nation. We endeavor to maintain a dynamic balance between **theoretical knowledge and practical training**. To ensure the all-round development of our students, our goal is to train students with the rapid technological advancement and environmental changes. Tied to the development of powerful technologies such as nano and bioengineering, self-driving cars, tracking technologies, smart homes, we share the viewpoint to be mindful of the benefits of codes and standards, of rules, and of self-control.



In addition to academics, our students also work on **technical projects** from early stage and take part in various competitions / exhibitions across the Nation. Recently the project "**Hydrogen Hybrid Car**" was awarded first prize by Faridabad Industrial Association (FIA). We turn out a class of qualified, innovative and dynamic professionals for engineering sectors of socio-economic importance.

I wish all the faculty members, students and dear readers a great academic year.

Head of Department, Prof. Vijay Wakhlu

Events :

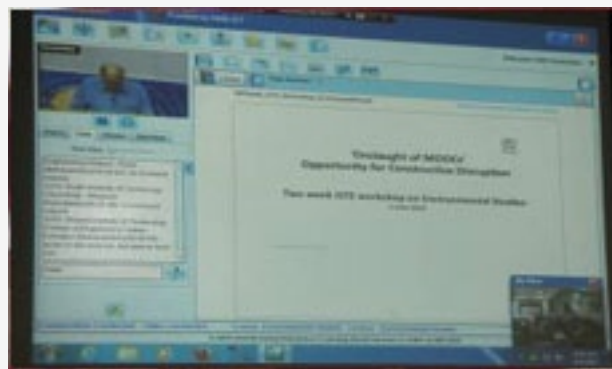
Two Week ISTE Workshop on "Environmental Studies":

Two week **ISTE workshop on Environmental Studies** was organized at **Dronacharya College of Engineering, Gurgaon** from **2nd to 12th June, 2015** under the **National Mission on Education through ICT (MHRD, Govt. of India)**. This was conducted by IIT Bombay through online video conferencing. **Dr. Mukta Atrey & Prof. Virender Sethi** was the convener of the program. The academic administrator of the college **Prof. (Dr.) Jitender Kumar** coordinated this workshop with IIT Bombay for effective outcome and guided **Mr. Rajesh Mattoo**, the organizer of the event.

The participants availed the opportunity to grasp various concepts related to Environmental Issues through attending the lectures delivered by **Prof. Virender Sethi, Prof. Munish Chandel, Prof. Parthasarathy D., Prof. Narayanan K., Prof. Nikhil K. Kothurkar and Prof. Ranjan Kumar Panda**. The workshop enabled the participants learning the challenges and remedies particularly concerned with Environmental aspects.



The expert from IIT B Prof. Pathak. taking lecture during workshop



Presentation through slides using A-View software



The Faculty members of Dronacharya College of Engineering, Gurgaon during the workshop

Two Week ISTE Workshop on “Introduction to Design Algorithms” :

National Mission on Education through ICT (MHRD, Govt. of India) conducted a two week workshop on “**Introduction to Design Algorithms**” at **Dronacharya College of Engineering, Gurgaon** from **25th to 30th, May 2015**.

This is an important initiative has been taken by **IIT Bombay** and **IIT Kharagpur** to work with Engineering Colleges like of India to enhance the teaching skills of our faculty colleagues in core Engineering and Science subjects under Train Ten Thousand Teachers program (T10KT). The two week workshop was organized at the various remote centers by the workshop coordinator. The workshop was successfully completed at **Dronacharya College of Engineering, Gurgaon (Remote Center Id: 1299)** under the guidance of **Prof. (Dr.) Jitender Kumar, Remote Center Coordinator, and Mr. Chain Singh, Workshop Coordinator**.



Smt. Smriti Irani, Hon'ble Minister, MHRD, Govt. of India during the interactive session of the workshop



The Faculty Members of DCE, Gurgaon attending the workshop

Google Summer Blaze :

GDG Dronacharya College of Engineering organized a one day workshop “**Google Summer Blaze**” on **29th May 2015 in the college campus**. The workshop was exclusively designed for upcoming 2nd year students to give them a glimpse of GDG Dronacharya College of Engineering, Gurgaon and its activities along with Android app building and Google Technologies & its various products from Google Search to Google Cloud. A total of **60 students from 1st year** along with 10 organizing team members participated in the event. Out of these, there were **5 students from outside colleges (KIIT, Bhondsi, Gurgaon; IEC CET, Greater Noida and Government Polytechnic, Manesar)** also attended the event.



Participants at the event



Shweta (Student ECS Dept. of DCE, Gurgaon) giving the session on Google +

Mathworks Seminar on “Design & Implement Signal Processing, Communication & Computer Vision Systems Using Matlab & Simulink” :

Prof. (Dr.) H. S. Dua, HOD (ECE) and **Mr. Ajit Kumar**, Assistant Professor (ECE) from **Dronacharya College of Engineering, Gurgaon** attended a one day MathWorks Seminar on the topic “**Design and Implement Signal Processing, Communication and Computer Vision Systems Using MATLAB and Simulink**” at Le Meridian, New Delhi on 04th June 2015. The Seminar agenda covered the following topics in two sessions.

The experts delivered the talks on Signal Processing, Computer Vision, Communication System Design with MATLAB and Simulink. Moreover, they also discussed different ways of enabling Project based Learning with Low Cost Hardware, DSP and FPGA.



**Mr. Tabrez Khan, Application Engineer
MathWorks conducting the Sessions**



**Mr. Deepak Sharma, Sales Manager
MathWorks introducing his Team Members**

Interactive Session on Corporate Happiness :

Ms. Priyanka Mahani (Assistant Professor, Electronics and Computer Engineering Department) from **Dronacharya College of Engineering, Gurgaon** attended a session on Corporate Happiness organized by **All India Management Association (AIMA)**, at AIMA, Lodhi Road, New Delhi on **20th May 2015**. **Dr. Rekha Shetty (Founder, Mindspower Brand and Managing Director of Farstar Distribution Network)** was the keynote speaker of the event. She explained how the world today has changed the perception of happiness, hard work and success. The session described the process of creating a positive mind space and also the impact of negative fields and how to avoid them.



**The keynote speaker Dr. Rekha Shetty
delivering the session**



**Ms. Priyanka Mahani (Asst. Prof. ECS) with the
Keynote speaker Dr. Rekha Shetty at the session**

National Conference on Biomedical Image Analysis & Processing :

On **13th June, 2015**, Electronics & Computer Engineering Department of **Dronacharya College of Engineering, Gurgaon** organized a National Conference on "**Biomedical Image Analysis & Processing, (BIAP-2015)**", sponsored by '**Science & Engineering Research Board (SERB)**' under the '**Department of Science & Technology (DST)**', New Delhi. The chief guest for the conference was **Prof. (Dr.) Sneh Anand (Center of Biomedical Engineering, IIT-Delhi)**. Thirty participants from academia and industry presented their research papers in the conference. They were from well-known organizations like **Accenture, Aditya Birla Group, Cyberlinks Pvt. Ltd., Magicrete Building Solutions, Keysight Technologies, NIT Warangal, ITM University (Gurgaon), Global Institute of Technology & Management (Gurgaon) & Sharda University** and many more.



The Chief guest Prof. (Dr.) Sneh Anand addressing the participants



Participant receiving the certificate from dignitaries

Contours for Higher Education Policy for Bharat :

On **8th June 2015**, two faculty members **Mrs. Neha Malik**, Assistant Professor (CSE) and **Mrs. Dimple Saproo**, Associate Professor (ECE) from **Dronacharya College of Engineering, Gurgaon** attended a conference on **Contours for Higher Education Policy for Bharat** was organized against the backdrop of Union Government's ongoing review of our national educational policy at FICCI Federation House, Tansen Marg, New Delhi.

Smt. Smriti Irani, **Hon'ble Minister, MHRD, Govt. of India, New Delhi** delivered the inaugural address. **Shri Suresh Prabhu**, Union Minister for Railways, New Delhi was the prominent speaker at the Conference. Delegates from IIT, NIIT and various universities from various states were invited to attend the conference and share their views.



Smt. Smriti Irani, Hon'ble Minister sharing her views



The faculty members of DCE, Gurgaon Ms. Neha Malik and Ms. Dimple Saproo in the Conference

Summit on World Environment Day With Special Focus on Air Quality :

Three faculty members **Ms. Jincy Elsa Jose** from EEE Department, **Mr. Ashok Kumar** and **Ms. Sangeeta Singla** from Applied Sciences & Humanities Department of **Dronacharya College of Engineering, Gurgaon** attended a summit on World Environment Day with special focus on air quality. It was organized by The Confederation of Indian Industry (CII) on **5th June 2015** at Hotel Leela Palace, Chanakyapuri, Delhi.

The summit was addressed by the **Member of Parliament Mrs. Meenakshi Lekhi, Minister of Environment and Forest, Government of Delhi; Mr. Aseem Ahmed Khan, CEO, Delhi Jal Board; Mr S. S. Yadav**, along with various other CII representatives.



The faculty members of DCE, Gurgaon during the CII summit at New Delhi



Mr. Asim Ahmed Khan, Minister of Environment & Forests, Dr. Alka Kaul, Chairperson, CII Delhi, Mr. Rahul Munjal, Convenor, CII Delhi

Short Term Course on Integrated Automation Technologies at IIT Delhi :

Ms. Manjari Saxena (Assistant Professor, Mechanical Engineering) attended a One week Short Term Course on **Integrated Automation Technologies** at the Department of Mechanical Engineering, IIT Delhi during **1st June - 6th June, 2015** under the supervision of **Dr. Sunil Jha**, Associate Professor, IIT Delhi. Lectures were delivered from 9 eminent personalities from different industries. Lab sessions during the course were very helpful in understanding the whole concept of Automation. A total number of 50 participants have participated in this course from Mechanical, Electrical, Electronics, Computer Science and Industrial Engineering Departments of various institutes of India.

The objective of this course was to introduce the fundamentals of Automation Technology. The course contents were designed in such a way that it covered different disciplines like Mechanical, Electrical, Electronics & Computer science Engineering. In today's scenario, all the engineering fields work together to fulfill a task in industries.

All the speakers covered several fields of automation like motion control, sensors, PLCs, Automation tools, Electro-pneumatic & Electro Hydraulic systems, building automation etc. They also conducted a visit to **BSES Scada, New Delhi**.



Lecture being delivered by the expert Dr. Sunil Jha



Interactive session on sensor attended by Ms. Manjari Saxena

Two Days TEQIP II/CEP at IIT Delhi :

A two days program on "**Power System Optimization: a Journey from Conventional to Meta-heuristic Techniques**" was organized by Department of Electrical Engineering (IIT, Delhi) under TEQIP on **5th - 6th June 2015**. The program was attended by two faculty members **Mrs. Dimple Sapru, Associate Professor (ECE)** and **Mrs. Sakshi Pahuja, Associate Professor (ECE)** from **Dronacharya College of Engineering, Gurgaon** along with 40 research scholars from various reputed institutes like NIT Kurukshetra, NIT Delhi and Delhi University.

The subject experts talked about the basics of optimization power systems and essential ingredients of optimization problems like equality/ inequality constraints, objective function and the variables involved were covered. Optimization based on various available algorithms was also discussed.

Overall the workshop has been quite useful as it gave the exposure on the various meta-heuristic techniques used for solving power related real world problems by optimization, techniques of **Power system optimization** used in "**Controller Design**" etc.



Dr. B.K. Panigrahi delivering lecture on "Evolutionary Algorithms"



Faculty members of DCE, Gurgaon at CEP at IIT Delhi

Special Mention-Faculty Award:

Prof. (Mrs.) Meeta Verma, HOD, Civil Engineering Department of **Dronacharya College of Engineering, Gurgaon** received Special Mention- Faculty award during the **EET CRS 3rd SCIENCE AND TECHNOLOGY AWARDS 2015** function held at Hotel Solitaire, Bangalore on **14th June 2015**.

Mr. K. C. N. Chandrashekhar, Vice-President of Film Federation of India and legendary film producer was the Chief Guest and **Mr. Dayal Padmanabhan**, award winning film producer and director was **Guest of Honor. Dr. D.C. Singh, Chief, Research and Development**, EET CRS presided over the function.



A picture showing some of the award results from <http://educationexpo.tv/news.php?id=MTM2>



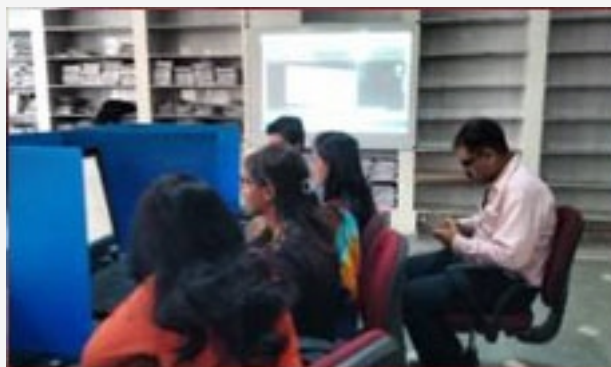
Joyous moment of receiving certificate. From left: Mr. Dayal Padmanabhan, Mr. K.C.N. Chandrashekhar and Dr. D.C. Singh



Heartiest welcome of award winners: Dr. D.C. Singh, Mr. Dayal Padmanabhan and Mr. K.C.N. Chandrashekhar

Webinar on AutoCAD 2016:

On **29th May 2015** the Faculty Members of Civil Engineering Department of **Dronacharya College of Engineering, Gurgaon** attended a webinar on **AutoCAD 2016**. The webinar presented details of Coordination Model, Smart Dimensioning, Reality Computing and enhanced PDF features too.



Participation of faculty in the AutoCAD 2016 webinar

International Conference on Recent Innovations in Science, Engineering & Management (ICRISEM - 2015) :

Dr. K.K Saini, Professor from **ECE Department of Dronacharya College of Engineering, Gurgaon** was invited as a Chief Guest of the "**International Conference on Recent Innovations in Science, Engineering and Management (ICRISEM - 2015)**" held on **30th May 2015** at YMCA, New Delhi. He delivered the Key note address during the inaugural session of the conference.

During the paper presentation session, the students from **Dronacharya College of Engineering, Gurgaon** (**Ms. Sabita Yadav** and **Mr. Sanjay**) also presented their papers titled "**Rectangular Microstrip Patch Antennas**" and "**RFID Technology: Case study of its multi applications in Wireless Communication System**" respectively. **Ms. Sabita Yadav** bagged the best paper presentation award and her M. Tech thesis work was appreciated by all.



Prof. (Dr.) K. K. Saini from DCE, Gurgaon delivering the inaugural address as the Chief-guest



Ms. Sabita Yadav, M.Tech [ECE] student of DCE, Gurgaon receiving the Best Paper Award

Placement :

Students from 2015 Batch of Mechanical Engineering Department of **Dronacharya College of Engineering, Gurgaon** have been placed in renowned automobile companies like **Mahindra First Choice, Best Koki Automotives Ltd.** etc. Infrastructure sectors like **Lakshit Construction Pvt. Ltd. and Fenesta**, IT industry such as **Clearpath Technology Pvt. Ltd. & SGS Technomach Pvt. Ltd.** etc. in last few days.

Student's Viewpoint :

"Belief in oneself is one of the most important bricks in building any successful venture" **DCE, Gurgaon** is a unique combination of quality, excellence and innovation in technical education. The campus of our college provides opportunities for developing extracurricular skills which include NSS, student chapters of IEEE, IETE, social clubs and sports & games. Our college is famous for its sense of discipline, academics, placement, social activities and administration. The faculty of the college is very intellectual. The strong bond between students and faculty helps students to perform better. It is proud privilege and delight to be a part of such great institution.



Gautam
(Roll. No. 15297 3rd Year)

Our Head of Department, **Prof. Vijay Wakhlu**, always guides all the students to take new steps, to be technically creative and innovative. It's not always the best qualification or talent which makes a person stand out in the crowd; punctuality, way of communication and discipline is also essential in the over-all growth of a person. Our Department tries to awaken students' conscience and enlighten their path of success. The faculty members mentor each of us individually to turn us into well-deserving professionals. The Department surely grooms each individual and prepares him/her in a way that they can stand strong and confident to face all the challenges and can work adaptively for any organisation in the future. Being a member of the Dronacharya family, inculcates in me a sense of extreme proud and honor.



Divyang Singh Rana
(Roll. No. 16361 2nd Year)