



# Dronacharya College of Engineering

## ISSUE

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### Civil Engineering

#### In This Issue....

- ✦ Editor's Desk
- ✦ HOD's Desk
- ✦ Events
- ✦ Academic Achievements
- ✦ Placements
- ✦ Students' Views

#### From Editor's Desk :

***Start by doing what's necessary; then do what's possible; and suddenly you are doing the impossible.***

**- Francis of Assisi**



As we thank Almighty in gratitude for our past achievements, in belief and in expectation, we also hoist our souls in seeking the determination to steer along the path of educating the future of the country - the young scholars.

Keeping in line with the mission to address the world's most imperative challenges with science and technology, **Dronacharya College of Engineering, Gurgaon** is forging ahead imparting quality education; making the students attain necessary expertise to engage in exigent jobs after obtaining degrees. We try to understand the regional and global implications of progression in engineering education and use that understanding to update facilities for the betterment of the Dronacharya students.

Realizing the importance of collaboration between college and industry for the advancement of engineering teaching and research, we seek to equip our students with industry exposure and provide practical insight into engineering through industrial visits, technical seminars, research activities and talks on ongoing research practices across the globe and other relevant topics from eminent practitioners of the trade.

In a pulsating institution of higher education, scores of intellectual and educational activities are likely to ensue every passing month; and to this end, we present the current issue of our newsletter offering an insight into the multitude of the Institute's academic and extracurricular life.

**Editor, (Dr. Suchitra Deswal)**



### From HOD's Desk :

**The greatest liability of an Engineer compared to other professions is that his works are out in the open where all can see them**

**- USA President and Engineer Mr. Herbert Hoover**



We, **Dronacharya College of Engineering, Gurgaon** believe in nothingshort of excellence and perfection. Our learner-centered teaching ensures that students not only grasp concepts easily but also retain them. Through concentrated efforts of entire team of Dronacharya, parents, faculty members and students, it has been possible to achieve global benchmarks in this professional and technical education. Dronacharya family is proud to publish another edition of its Monthly Newsletter.

The Department of Civil Engineering is expected to blossom into a center of excellence and working efficiently to achieve proficiency in the technical education. Though the department is merely four years old, the management has provided all infrastructure facilities like well-equipped laboratories, libraries, reading rooms, computer centers with internet facility and all those related facilities which can contribute towards quality education. The department is pursuing various professional certifications for students like Microsoft Office Specialist (MOS), AutoCAD 2D & 3D and STAAD PRO which enable students to gain proficiency in the design using software resulting in high skills as well as competency to work in the companies which are using these softwares in their day-to-day functioning. Research is an integral and essential component of scientific progress. The department encourages students to write research papers under guidance of expert faculty to ensure that idea of innovation is inculcated in true sense with engineering ethics. In addition, summer training and industrial training are an important part of technical education which helps students to keep them in continuous update of current techniques and methodologies adopted by different companies.

The students are advised to become members of professional bodies like Institution of Engineers, Institution of Structural Engineers, Indian Society of Civil Engineers etc. We adhere to make students visit various important Civil Engineering structures like dams, bridges, tunnels, canals, monuments, aqueducts etc. through educational trips in each semester. The practical knowledge which they acquire in the field is of paramount importance. The various job opportunities in Civil Engineering include planning, construction, design and maintenance of natural and the built environment.

The department expects that as students of professional course, all these should be reflected in the behavior, manners and etiquettes our students. They should feel responsibility towards their actions and deeds. Students should extend their helping hands towards growth and development of entire organization and society in their pursuit of an individual development.

**Head of Department, Prof. Meeta Verma**

### Events :

#### **Paper Presentation in 8th International Conference on Recent Advances in Civil Engineering, Architecture, Environmental Engineering for Sustainable Development (CEASED - 2015):**

**Two Civil Engineering students from Dronacharya College of Engineering, Gurgaon** presented their technical research paper at the **8<sup>th</sup> International Conference on Recent Advances in Civil Engineering, Architecture, Environmental Engineering for Sustainable Development** organized by "**Krishi Sanskriti**" on **11<sup>th</sup> & 12<sup>th</sup> July 2015** at **JNU Campus, New Delhi**.

✦ **Kabi Prasad Parida (15601), third year student** presented his research paper titled "**Analysis of Prototype Truss Bridge Models**". The paper was co-authored by **Rahul Kumar (15624)**, under the guidance of **Mr. Kunal Bisht, faculty in Department of Civil Engineering**. The paper focused on the major role played by trusses in civil engineering structures.

✦ **Prerna Kundu (15594)**, third year student presented her paper titled "**Hybrid Effects of Fly-Ash as an Eco-Friendly material**" in this International Conference This paper was co-authored by **Bharat Bhushan (15588), Ankur Yadav (15583)**, under the guidance of **Ms. Sarah Khan, faculty in Civil Engineering Department**. The paper makes an attempt to analyze various characteristics and properties of constituents of Indian coal which can generate optimum fly-ash to make it suitable to be used with cement as a cost effective measure.



**Kabi Prasad Parida student, Dept. of Civil Engg. paper in the Conference**



**Ms. Prerna Kundu, Dept. of Civil Engg, presenting his presenting her paper in the Conference**

## Round Table Discussion on “Opportunities to Advance Women’s Economic Empowerment in India & Third Countries” :

**Four faculty members** **Ms. Susmita Samanta** and **Ms. Dipti Girdhar** from Department of Applied Sciences & Humanities; **Ms. Poonam Singla** from **Department of Electrical & Electronics Engineering**; and **Ms. Parul Bansal, Department of Electronics & Communication Engineering** represented **Dronacharya College of Engineering, Gurgaon** at the Round Table Discussion on “Opportunities to Advance Women's Economic Empowerment in India and Third Countries” organized by **Confederation of Indian Industry (CII), New Delhi** on **7<sup>th</sup> July 2015**. The objective of the meet was to discuss about women empowerment, challenges and problems faced by them in different countries. Noted personalities **Ms. Meenakshi Lekhi, Member of Parliament**; **Ms. Amita Sarkar, Deputy Director General CII** and **Ms. Radhika Prabhu**, Senior Policy Advisor South Asia Secretary Office United States of America graced the occasion.



**Dignitaries at CII during the Round Table Discussion**



**Faculty from Dronacharya College of Engineering, Gurgaon attending the function**

## Industrial Visit to Centre for E-Governance:

On **3<sup>rd</sup> July 2015** faculty members **Mr. Chandra Shekhar Singh** and **Ms. Charu Jain**, from **Electrical and Electronics** along with **28** students from the Department of **Electrical and Electronics Engineering, Electronics and Communication Engineering** and **Electronics and Computer Engineering** and on **6<sup>th</sup> July 2015** **Ms. Parul Bansal**, of **Electronics and Computer Engineering Department** along with **Ms. Charu Jain** of **Electrical and Electronics Department** along with **27** students from various departments of **Dronacharya College of Engineering, Gurgaon** visited the **Centre for e-Governance, Department of Electronics and Information Technology (DeitY)**, Electronics Niketan, **New Delhi** with the purpose of understanding the initiatives being taken by the Government of India under the Digital India Week (**1<sup>st</sup> July-7<sup>th</sup> July 2015**). The students got an opportunity to see live demonstrations of processes of DigiLocker and eSign. **Dr. A.K. Garg, Director of DeitY** and **Mr. N.K. Jain, Director of C-DAC** discussed about some of the major initiatives involved in Digital India which were Broadband Highways, Universal access to mobile connectivity, Public internet access programme, E-governance: reforming government through technology, E-Kranti: electronic delivery of services, Information for all, Electronics Manufacturing, IT for jobs and Early Harvest Programmes. At the CeG (Center of e-Governance), part of the Awareness and Communication activity under National e-Governance Plan (NeGP) **Mr. Sunil Kumar, Project Manager at CeGov** spoke about the various aspects of the e-Governance such as its definition, evolution, policies, services vision and Mission Mode Project (MMPs) and also introduced the audience to an Open Source Operating System named BOSS (Bharat operating system solution).





**Faculty Members of the College with the Students of College at the Centre for e-Governance team of Centre for e-Governance**



**Student receiving prize**



**Mr. Sunil Kumar, Project Manager at CeGov explaining the Model of a Supercomputer**

### **A Visit to 6th India Machine Tools Exhibition (IMTOS) at Pragati Maidan, New Delhi From 4th to 7th July, 2015 :**

**Mr. Rajeev Gupta, Ms. Manjari Saxena and Ms. Preeti Gulia**, faculties from the **Department of Mechanical Engineering, Dronacharya College of Engineering, Gurgaon** visited the **6<sup>th</sup> India Machine Tools Show 2015 (IMTOS)** at the **National Capital, Pragati Maidan, New Delhi** held from **4<sup>th</sup> to 7<sup>th</sup> July, 2015** organised by **K and D Communication Limited**.

**Mr. Kamlesh Gohil, Managing Director at K and D Communication Limited** discussed that Make in India was the theme for almost all the **750** exhibitors showcasing latest manufacturing, measuring and automation technologies. Manufacturers, Suppliers of machine tools, machinery and services came together and made it an exposition where besides business; transfer of knowhow also took place.

Noteworthy Presentations were made by **Mr. Sumer Singh Rawat**, Asst. Sales Manager HAAS Factory Outlet (A Division of CNC Servicing & Solutions); **Mr. Naveen Ahuja**, Manager Delhi Operations from Radical Scientific Equipments Pvt. Ltd.; **Mr. Shaukat Khan**, Sr. Sales Engineer, SPAC Pneumatic; and **Mr. Keshav Chand Sharma**, Sr. engineer, Micromatic Machine Tools Pvt. Ltd. They all emphasized on the need and importance of a training session of Mechanical Engineering students.



**Mr. Rajeev Gupta with Mr. Keshav Chand Sharma, Sr. Engineer Micromatic Machine Tools Pvt. Ltd.**



**Ms. Manjari Saxena & Mr. Rajeev Gupta, faculty, ME Dept., at IMT**



**Ms. Preeti Gulia & Mr. Rajeev Gupta, faculty, ME Dept., at IMTOS**

## Summer School on Robotics & Advance Embedded Systems 15th June - 10th July 2015 :

**Department of Electrical and Electronics Engineering, Dronacharya College of Engineering, Gurgaon** organized a **4-week Training Program on "Robotics & Advanced Embedded Systems"** from **15<sup>th</sup> June** to **10<sup>th</sup> July 2015**. The objective of the training program was to provide a platform for project making and technology assistance regarding robotics and embedded systems to the students. The students got an opportunity to learn from the dedicated and experienced faculty of the institution.

**Hon'ble Principal Prof. (Dr.) B.M.K. Prasad** emphatically stated that students should not restrict to theoretical knowledge only, but go beyond the line and should attain practical knowledge of the subject. **Mr. Chandra Shekhar Singh**, Associate Prof., Department of Electrical & Electronics Engineering and **Mr. Ashish Gambhir**, Assistant Prof., Department of Electronics & Communication Engineering conducted the theoretical and hands-on sessions on Robotics and its applications to the students. **Prof. (Dr.) K.K. Singh**, Head, Department of Electrical & Electronics Engineering, introduced about the programming of Arduino board with the help of Simulink in MATLAB. Various companies such as **SOFCON, CETPA InfoTech Pvt. Ltd, AHK Robotics, EFY and Digit** sponsored the summer school. **C-DAC**, an autonomous body of Govt. of India, sponsored an online technical quiz organized during the Digital India Week.



**Hon. Principal Prof. (Dr.) B.M.K. Prasad  
addressing the attendees**



**Hon. Principal Prof. (Dr.) B.M.K. Prasad  
Launching of Summer School CD**



**Mr. Chandra Shekhar Singh, Faculty, EEE Dept.  
taking a session**



**Mr. Ashish Gambhir, Faculty, ECE  
Dept. delivering a lecture**



## Summer Faculty Research Fellow Programs - 2015 From 15th May - 15th July 2015 :

**Mrs. Renu**, Assistant Professor and **Ms. Pankti Brar**, Assistant Professor from **Department of Computer Science Engineering and Dronacharya College of Engineering, Gurgaon** attended a **two-month Summer Faculty Research Fellow Programme - 2015** from **15<sup>th</sup> May 2015** to **15<sup>th</sup> July 2015**. Summer faculty research fellowship (SFRF) programme is conducted by IIT Delhi each year to inculcate and enhance the research culture in Engineering Colleges across the country. **Ms. Renu** did research work in the domain of **Cryptography and Network Security** under the guidance of **Dr. Ram Lal, Sr. Programmer, Computer Service Centre, IIT Delhi** and **Ms. Pankti Brar** got an opportunity to **pursue research work under the mentorship of Prof. Dr. Arun Kumar, HOD, Centre of Applied Research in Electronics (CARE) on "Speech Signal Processing and Artificial Neural Networks."**



**Faculty Mentors sharing their Experience during QIP/CEP interaction Program**



**Mrs. Renu, faculty, CSE Dept. at IIT Delhi during SFRF - 2015**



**Ms. Pankti Brar, CSE Dept., at IIT Delhi**

## IEEE Technical Talk on Applications of Dynamic Rating in Real - Time Operation of Grid - 23rd June 2015 :

IEEE Delhi Chapter organized a technical talk on **Applications of Dynamic Ratings in Real-Time Operation of Grid** by **Dr. N. D. R. Sharma** on **23rd June 2015** at **IIT Delhi**. Five students namely, **Ayush Bansal(16035)**, **Bharti Sachdeva(16039)**, **Aarushi Tuteja(16002)**, **Abhishek Nehra(16004)**, and **Mandisha Sharma(16085)** from **Computer Science and Engineering Department of Dronacharya College of Engineering, Gurgaon**, attended the lecture.

**Dr. Sharma** is currently involved in a **Synchrophasor Project, ERCOT** funded by **DOE, USA** under the Smart Grid Initiatives Grants and he discussed about the importance of Dynamic Ratings Application, transmission companies and the maximum power level (transmission transfer capability) that can be transmitted over these power transmission lines at any given time.



**Prof. (Dr.) N. D. R. Sharma, IIT Delhi, delivering his lecture**



**Students of CSE Dept., DCE, Gurgaon at the venue**

## **International Yoga Day 21st Jun 15 at Boat Club, India Gate, New Delhi :**

More than **400 students** along with **16 faculty coordinators** from **Dronacharya College of Engineering, Gurgaon** participated as a volunteer in **1<sup>st</sup> International Yoga Day** on **21<sup>st</sup> June 2015** at **Boat Club, New Delhi**, organized by **Ministry of Youth Affairs & Sports Government of India**. Preceding this, students also joined the practice session on 18<sup>th</sup> & 19<sup>th</sup> June 2015. In total **35,985 participants** belonging to **84 nationalities** participated in the event and the **1st International Yoga Day** was awarded two world records by **Guinness World Records (GWR)**.

Students reported at 5.30 am on **18<sup>th</sup> & 19<sup>th</sup> June 2015** for practice session and 4.30 am on **21<sup>st</sup> June 2015** as per the guideline of Ministry of AYUSH and attended the yoga session. The event commenced with the welcome speech of **Sh. Shripad Yesso Naik, Minister of AAYUSH** at 6:40 am. **Hon'ble Prime Minister Shri. Narendra Modi** addressed the nation on the International Day of Yoga at 6.45am. **Shri. Modi** lead Yoga Day event at Rajpath at 7.00am. The yoga session concluded at 7.35 am.



**Students with Faculty coordinators after yoga session**



**Prime Minister Shri Narendra Modi doing asanas during the Event**



**Ms. Kiran Bedi during the Event**



## Delhi Environment Summit 2015: "Towards a Clean & Green Society" :

**Dr. Vaishali Faculty members Ms. Sangeeta Singla, Mr. Ashok Kumar from Department of Applied Sciences & Humanities and Ms. Jincy, from Department of Electrical & Electronics Engineering from Dronacharya College of Engineering, Gurgaon** attended **Delhi Environment Summit 2015: "Towards a Clean and Green Society"** organized by **Confederation of Indian Industry (CII) on World's Environment Day on 5<sup>th</sup> June 2015 at The Leela Palace Hotel, New Delhi**. The Summit focused on Air pollution and ways of improving the air quality; Solar energy and green buildings; Waste management and role of technology. The prominent benefits of the meet were to develop innovative ideas to use solar energy and other alternate energy resources; recycling and reuse of non-biodegradable products to make greener India; E-waste recycling and reuse; Recycling and reuse of water; and bio-waste on domestic platform. Among noted personalities present were **Ms. Meenakshi Aman Lekhi, Member of parliament; Mr. Asif Ahmed Khan, Minister of Environment and Forest, Govt of NCT Delhi; Shri Kamal Meattle, CEO of Paharpur Business Centre and Software Technology Incubator Park; Dr. Bharat Inder Singh; Prof.(Mrs.) Pramila Goyal, Centre of Atmospheric Sciences IIT Delhi; Dr. Niraj Sharma, Principal Scientist CSIR-CRRI; and Dr. Himanshu Dholakia, Research Associate in Council of Energy, Environment and Water.**



**Delhi Environment Summit 2015 organized by CII**



**Faculty members (left to right): Ms. Sangeeta Singla, Mr. Ashok Kumar and Ms. Jincy at the Summit**

## Training of Trainers Program on "Employability Skills Through Life Skill Approaches" :

**Ms. Rita, Associate Professor, Department of Applied Science & Humanities, Dronacharya College of Engineering, Gurgaon** attended **Training of Trainers Program on "Employability Skills through Life Skill Approaches"** organized by **Rajiv Gandhi National Institute of Youth Development (RGNIYD), Regional Centre, Chandigarh from 19<sup>th</sup> May to 23<sup>rd</sup> May 2015**. Many prominent speakers addressed the attendees during this program. **Dr. Gunmala Suri**, Professor UBS Chandigarh delivered a lecture on "The Johri Window: Understanding self; **Dr. Vikram Joshi** spoke on "Understanding Youth Challenges in the field of Employment", **Dr. C.M. Sharma** talked on "Understanding Workplace Expectation: Business Etiquette" and **Dr. Harpreet Chhabra** on "Active Listening." Besides this there were talks on "Effective and Productive Communication" by **Dr. Sanjay Wadwalkar**, "Time Management" by **Dr. Arun Thakur**. **Ms. Deepa** gave an interesting talk on "Dear Stress: Let's breakup." **Dr. Sumedha Singh** spoke on "Non-violent Communication." **Dr. Gugnani** addressed the issue of "Personality Development" and **Mr. D.P. Singh** gave a lecture on "Growth with Harmony". The program was comprehensive, educational and highly informative towards developing self-confidence, general awareness and skill based education.





## Academic Achievements :

- Student **Pranav Nayak** of Department of Civil Engineering **qualified the GATE Exam (all India Rank - 2452)** in year 2015 and he is pursuing M.Tech from NIT Allahabad in Water Resources specialization.
- 68% students got 60% and above marks in M.D.University result of VII - Semester declared in April 2015.

## Placements :

Congratulations to the following Civil Engineering students on getting placed:

S. No.	Student Name	Company
1.	Deepak Pahuja	Fenesta
2.	Piyush Sharma	Fenesta
3.	Sandeep Uniyal	Fenesta
4.	Mukul Mudagal	Prachi Associate & Consultants
5.	Kumud Ranjan Jha	Larsen & Toubro DMRC Project CC27 Hauz Khas
6.	Gauarav Kumar	Larsen & Toubro DMRC Project CC27 Hauz Khas

## Students' Views :

I feel myself fortunate to get an opportunity to study in the **Department of Civil Engineering at Dronacharya College of Engineering, Gurgaon**. I have many memorable experiences here in my three years of interactions. These interactions have reinforced my belief that the main reason why our peers consider us the number one is that many of Dronacharya alumni are nationally and internationally acclaimed leaders in their fields. I also believe that the outstanding achievements of alumni and friends are the result of a top-notch educational experience at Dronacharya. This takes account of the close mentoring by erudite and well-informed faculty members and staff of our Department, as well as access to world-class teaching and research facilities. I am, indeed, a proud **Dronacharyan**!



**Rahul (15624)**  
VII - Sem

Being a member of the **Department of Civil Engineering, Dronacharya College of Engineering, Gurgaon** is motivating both in terms of how a modern, state-of-the-art facility can enhance our educational mission and also in terms of how our faculty and staff facilitate our achievement through their committed involvement in our career enhancement.



**Shravan (16732)**  
V - Sem

The Department has embarked on a comprehensive plan to modernize our facilities to improve the student experience and promote innovative and emerging instructional methods. The Department provides ample opportunities for student to engage and learn things outside of a classroom environment and establish connections with professional organizations. With this commitment, we will continue with pride our tradition of being the most happening department in the College!