Dronacharya College of Engineering

ISSUE

Applied Sciences & Humanities

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From Editor's Desk :

Dronacharya College of Engineering, Gurgaon is an appropriate place where every engineering aspirant gets an equal opportunity to think, wonder, visualize, explore, experiment, take decisions and enrich through experiences. The academic programmes offered at our college are comprehensive and are continuously being updated to keep pace with latest developments and innovations in associated disciplines with necessary blend of technology.

We at **DCE, Gurgaon** strive to achieve excellence in education with the objective to bring glory to our Nation. Our mission is to maintain a dynamic balance between theoretical knowledge and practical training, as also between professional ethics and technical expertise. To ensure the all-round development of our students, our goal is to provide avenues of growth in all aspects of one's personality. We always encourage   students to utilize our high standard of teaching-learning approaches, using state-of-the-art audio-visual aids, V-Learn, V-Campus and Internet etc. Our objective is to create a class of qualified, innovative and dynamic professionals for Engineering sector, self-employment and for academic and research institutions of socio-economic importance.

Editor, (Dr. Sunil K. Mishra)

From HOD's Desk :

The Department of Applied Sciences & Humanities imparts knowledge through teaching and creating implementation of practical aspects to build a solid foundation as part of the Engineering Education. Applied Science & Humanities Department is one of the indispensable departments of **Dronacharya College of Engineering, Gurgaon** and plays a vital role in teaching basic sciences courses as prescribed by the curriculum of the university.

Here, the teaching module comprises lectures, tutorials and practicals. The methodology adopted in the classroom teaching is based on the application of innovation strategies, comprehensive lectures, regular assignments and counselors' interaction.

This department builds foundations for engineering knowledge and skills in the respective disciplines. On the whole, the students in the first year are trained to explore, to innovate, to analyze and to acquaint themselves with the applications of basic sciences in engineering and technological areas. Beyond the University curriculum, we also provide learning through v-learn,v-campus, NPTEL, Industrial visit etc.

From the first year itself, we try to infuse self confidence in our students and help them to develop the Communication and Interpersonal Skills and demeanor of lifelong learning so that they can become academically competent and capable of facing the future with resilience and optimism.

Head of Department, Prof. (Dr.) Sri Krishan Yadav

Events :

Orientation Programme for International Test of English Proficiency :

Applied Sciences & Humanities Department of **Dronacharya College of Engineering, Gurgaon** organised a one-day **Orientation Programme** for International Test of English Proficiency (iTEP) on **11th September 2014.**

Presenting his views, the Guest- Speaker **Mr. Sarath S.** Country Manager iTEP said that for non-native English users, English is very important because it is widely spoken all around the world. He reiterated that **"In the war of talent, English is the new differentiator".** During the sessions, he also shared the test content of reading, listening, grammar, writing, speaking and imparted the strategies related to its preparation.

The Convener **Prof.(Dr.) Sri Krishan Yadav** described wide acceptance of iTEP Certifications by giant corporate like **Microsoft, Adidas, IBM, Philips, JP Morgan, McDonald', Oxford Associates, Axis Bank, Kaplan Online Uni,. ING, FM Global (Brazil), BASF (Germany), Saudi French Bank, 3M, Catterpilar, Pfizer, BEMCO** and many such MNCs in their training and recruitment.

Hon'ble Principal, the Convenor Prof. (Dr.) Sri Krishan Yadav with the guest speaker and other dignitaries during the Orientation Program of iTEP

Hon'ble Principal Prof. (Dr.) M.N. Hussain delivering the inaugural address

The students attending the orientation programme

A student interacting with iTEP team members

The Guest-speaker Mr. Sarath S. receiving a memento from the Principal, DCE, Gurgaon members

Paper Presentation in The 9th International & 45th Annual ELI@I Conference :

Dr. Parul Mishra, Assistant Professor (English), Deptt. of Applied Sciences & Humanities and **Prakhar Sethi** (Roll No.16115), III Semester Student, Deptt. of Computer Science & Engineering, from **Dronacharya College of Engineering, Gurgaon** presented a research paper titled **"Podcast: A Tool for Educational Advancement"** in a three- day **9th International & 45th Annual ELT@I Conference on 'English - From Classes to Masses',** organized by English Language Teachers' Association of India (ELT@I) and Vivekanand Global University (VIT Campus), Jaipur from **21st to 23rd August, 2014.**
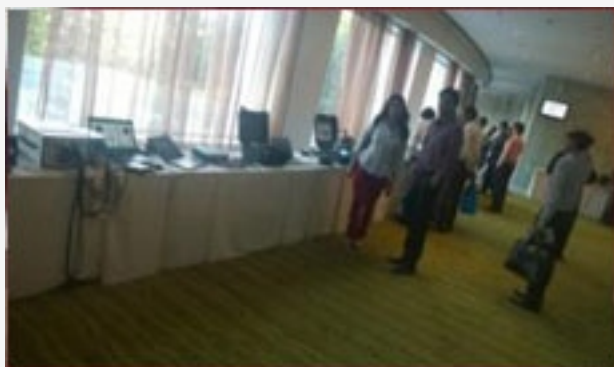

Dr. Parul Mishra faculty of English and Prakhar Sethi (Roll No.16115), a student of CSE Department during the International Conference at Jaipur

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One Day Technical Symposium-2014 :

Mrs. Monika Thakur, Assistant Professor from **Applied Science & Humanities Department** of **Dronacharya College of Engineering, Gurgaon** attended a one - day Technical Symposium organized by National Instruments, New Delhi on **30th September, 2014.** The objective of this Symposium was to showcase the **National Instruments Graphical System Design Approach.**

During the two tracks of the event, they demonstrated the various applications of Lab-VIEW in Advanced Research in Communication, Robotics, Engine Control, Signal System, Control System etc.

Ms. Monika Thakur during the symposium

Technical Session by NI Delegate

Inauguration of Microsoft Innovation Centre :

Dronacharya College of Engineering, Gurgaon has the launched of a Microsoft Innovation Center (MIC) in the college campus **26th August 2014.** The Memorandum of Understanding (MoU) was signed with Microsoft in the presence of the Chief-guest **Mr. Venkatesh Sarvasidhhi**, Country Head- Microsoft Academic Programme to formalize the partnership between Microsoft and **Dronacharya College of Engineering, Gurgaon.** During the inauguration the Chairman, Dronacharya College of Engineering **Hon'ble Dr. Satish Yadav**, Director **Prof. (Dr.) B.M.K. Prasad**, Registrar, all HoDs and faculty members were present.

Welcoming the Chief-Guest **Mr. Venkatesh Sarvasidhhi,** Country Head- Microsoft Academic Programme, the Director **Prof. (Dr.) B.M.K Prasad** expressed that Microsoft Innovation Centres (MICs) are a worldwide concept. Inaugurating the centre at DCE, Gurgaon the Chief-Guest **Mr. Venkatesh Sarvasidhhi,** said that through such centers Microsoft provides software and other facilities that help students create better output along with a platform to showcase the idea. He also announced that **Dronacharya College of Engineering, Gurgaon** is **the first College in Haryana where Microsoft Innovation Centre (MIC)** has been launched.

The faculty members and students during the inauguration

Hon'ble Chairman Dr. Satish Yadav inaugurating the MIC

Dr. Jitender HOD (IT) delivering vote of thanks

The Chief-guest being facilitated

Android Hackathon by Google Developers Group of DCE, Gurgaon :

Google Developers Group of Dronacharya College of Engineering, Gurgaon organized a two day event on Android Technology which was named as "HACKATHON". It was organized in the college campus from *29th* to *30th August 2014*.

The students from various institutions like *NIT Kurukshetra, KIIT Gurgaon, Global Institute of Technology & Management Gurgaon* also participated in the event.

The participants from various colleges during the event Android Hackathon

One Day Distinguished Lecture Program (DLP) at IIT - Delhi :

On *20th August 2014*, a team of 5 students *Akansha Marwah* (Roll No. 16762), *Amit Saini* (Roll No. 16763), *Deepanshu Bansal* (Roll No. 16766), *Monica Godara* (Roll No. 16768) and *Shweta Saini* (Roll No. 16773)) and two faculty members *Ms. Parul Bansal* and *Ms. Poonam Yadav*, from Electronics and Computer Engineering Department of Dronacharya College of Engineering, Gurgaon attended a lecture on topic "Ultra-low power wireless body sensor network for smart bio-signals monitoring systems" organized by *IEEE* Circuits and System/Control society (CAS-CS) during Distinguished Lecture Program at IIT-Delhi.

The expert *Dr. David Atienza*, Professor of EE and the Head of Embedded System Laboratory (ESL) at EPFL, Switzerland shared different applications of wireless body sensor network (WBSN).

The Students of Dronacharya College of Engineering, Gurgaon and the faculty members with the speaker Dr David Atienza at IIT Delhi

Ms. PoonamYadav and Ms. Parul Bansal with the speaker Dr. David Atienza

A One Day Seminar on Water Risk & Water Stewardship :

Four students **Tapodhan Singla (Roll No. 14107), Rahul Rapariya(Roll No.14073), Sumeet Singh(Roll No.14101)** and **Varun Vashishtha (Roll No.14112)** from CSE Department represented **Dronacharya College of Engineering, Gurgaon** FICCI organised a two-day seminar on *"Water Risk and Water Stewardship"* organised by FICCI from **20th** to **21st August 2014** at Tansen Marg, New Delhi. FICCI is one of India's key industry associations.

Mr. Upmanu Lall, Director, Columbia Water Center as the keynote speaker along with **Ms. Kathleen Dominique**, Environmental Economist, OECD, and **Mr. Ian Makin**, Principal Water Resources Specialist, ADB (Retired) explored the strategies and perspectives of sustainable use of water.

Ms. Kathleen Dominique, Environmental Economist, OECD at the inauguration ceremony

The students of CSE Department at the Venue of Seminar

One Day Workshop on "Cloud Computing" :

On **29th August 2014**, a workshop on Cloud Computing in association with NITTTR Chandigarh was organized at **Dronacharya College of Engineering; Gurgaon**. This workshop was particularly conducted for students. A total of 67 students of different departments participated in the workshop enthusiastically.

During the **session** the speaker **Dr. Kirti** discussed Cloud Computing and security issues. She described that Cloud Computing focuses on maximizing the effectiveness of the shared resources. In the **second session, Mr. Bhupender** Kumar discussed different aspects of Mobile Cloud Computing and Android Application Development. He further also explained that Mobile Cloud Computing centered are generally accessed via a mobile browser from a remote webserver, typically without the need for installing a client application on the recipient phone and hence referred as MoClo, a combination of MObile CLOud. **Ms. Ritu Kapoor** discussed about Cloudsim as a simulation tool. She elaborated that CloudSim provides a generalized and extensible simulation framework that enables seamless modelling and simulation of app performance.

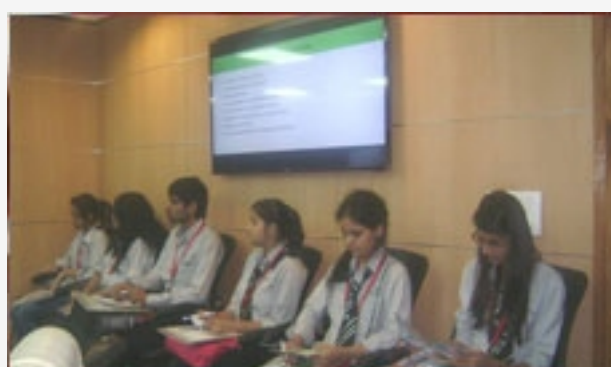*One Day Workshop on "Cloud Computing" by NITTTR*

Students of various departments attending the workshop

One Day Industrial Visit To Centre for E-Governance :

A **group of 40 students** of **Vth semester,** along with faculty coordinator **Mr. Hansraj Yadav**, **Department of Computer Science & Engineering, Dronacharya College of Engineering, Gurgaon** visited Centre for e-Governance (CeG), Department of Electronics and Information Technology (DeitY) Electronics Niketan, 6 CGO Complex, Lodhi Road, New Delhi on **29th Aug 2014.**

The students were briefed about CSC (common services center) infrastructure, Mobile Service Delivery Gateway, e-Pramaan, National Policy on Information Technology and an Open Source Operating System named BOSS (Bharat operating system solution), an open source operating system based on Linux kernel developed by C-DAC (Centre for Development of Advanced Computing) available in 22 Indian official languages. This industrial visit was a learning experience for the students.

Students attending a presentation at CeG

Students listening attentively to the lecture

The faculty coordinators and students of

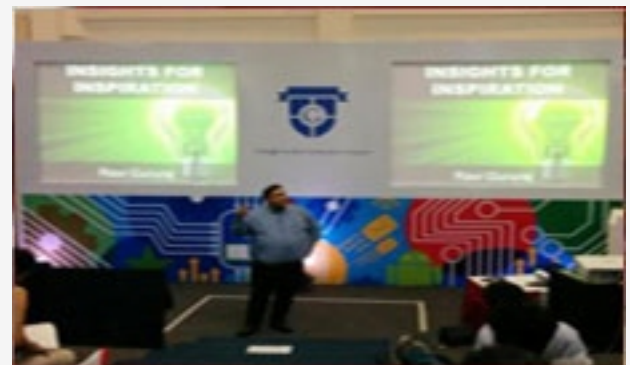## GSA (Google Student Ambassador) Summit 2014 :

Shivansh Mudgil (Roll No. 15099) from **Computer Science and Engineering Department** of **Dronacharya College of Engineering, Gurgaon** attended **Google Student Ambassador (GSA, India) Summit 2014**, held at the **Infosys Campus in Pune** from **28th** to **31st August, 2014.**

The distinguished speaker **Mr. William Florance (Head of Education Outreach)** shared his views on '10x Thinking', followed by a series of sessions from Google Executives, Industry Luminaries, and various Google community members. to help understand, identify and leverage the opportunities offered by the growing internet economy.

The Keynote address was given by **Mr. Rajan Anandan (VP & MD, Google India),** followed by a session on "Insights For Inspiration" by **Mr. Ravi Gururaj** and a brief info-session on Top Contributors Program by **Jade Bessiere (Community Manager, Google Help Forum).** There was a prototyping session as well wherein students grouped together into 17 different groups had to create a prototype of their product using the material provided to be showcased in a trade fair in the program itself. Three teams with the best idea and maximum investment won and were asked to prepare for a presentation in front of the CES jury. **Mr. Patrick Martinent** and **Mr. Soham Mondal** presented illuminating talks on the power of Android and Cloud, covering both technical and business concepts.

Shivansh Mudgil (Roll No.15099) during the Summit

The speaker interacting with the participants

Shivansh Mudgil with Ms. Jade (Community Manager TCP)

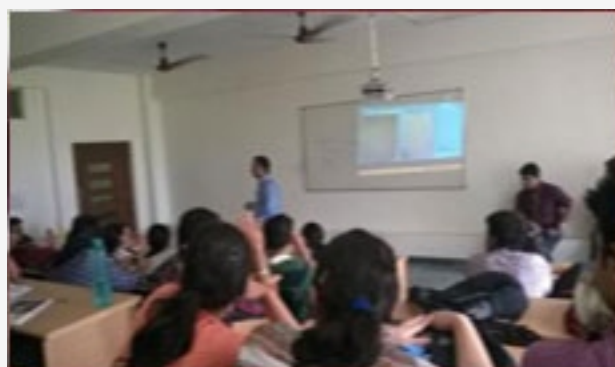*Shivansh Mudgil during "Design thinking Activity" at GSA Summit*

Lecture on Recent Trends & Technologies Cumplacement Opportunities :

On **10ᵗʰ September 2014, Computer Science and Engineering Department of Dronacharya College of Engineering, Gurgaon organized** a **guest-lecture** on **"Recent Trends and Technologies CumPlacement Oppurtunities" with an objective** to make the students familiar with the corporate world and to make them know how to face the challenges they will be going through. The eminent industry and placement experts from **Webswastech Pvt. Ltd, Faridabad** shared their views during the lecture.

The speakers **Mr. Pankaj Prasad** and **Mr. Pawan Kumar** guided the students about how to make an impressive Curriculum Vitae, how to face and to crack an interview and how students self-created websites can be put on topmost Google sites, how they can gain business from their home itself.

Mr. Pankaj addressing the students

Interactive sessions with the students

Final Round of IBETO Excel Event :

Four students Nikhil Goel (Roll no. 14455), Gaurav Sharma (Roll no. 14422), Monu Mukerya (Roll no. 14448) and Ishaan Madan (Roll no. 14430), students from **Information Technology Department of Dronacharya College of Engineering, Gurgaon** reached the finals of IBETO Excel 2014. **Innovation for Better Tomorrow (IBETO)** event is a part of **Excel Mec Fest sponsored by IEEE** and organised by the Govt. Model Engineering College Kerala on **27ᵗʰ September 2014.**

IBETO, as the name suggests, is the project competition that craves for most innovative projects. **Dronacharyans** proposed the idea for an android application that allows reporting missing people through application- just like an e-report filing system. The idea was very much innovative and creative. After clearing two rounds for the next round a prototype was presented which was very much liked by the judges. **Dronacharyans** made it to the top 5 teams for the grand finale which held in Kerala.

In the end the judges announced the results. The participants from DCE, Gurgaon bagged a cash prize of Rs 5000/- and 4ᵗʰ position in this event.

Dronacharyans Ishan Madan, Gourav Sharma, Nikhil Goel, Monu Mukerya

E-Yantra Workshop for Faculty Members on Robotics :

Four faculty members **Mr. Chandra Shekhar Singh, Mr. Sumit Kumar, Mr. Ashish Gambhir and Mrs. Susmita Samanta** from the **Electronics and Communication Engineering Department** of **Dronacharya College of Engineering, Gurgaon** attended a two day workshop on "Robotics" organized from **4th** to **5th August 2014** at Mahatma Gandhi Mission's College of Engineering and Technology, Noida by **IIT Bombay** under the **e-Yantra Lab Setup Initiative (eLSI),** funded by Ministry of Human Resource and Development, Govt. of India.

The workshop aimed to provide training in the field of embedded systems and robotics to the teachers of various engineering colleges who had submitted the LOI (letter of intent) to setup the Robotics Lab in their colleges. The workshop was a great learning experience for all the participants from the engineering colleges of NCR. Dronacharya College of Engineering, Gurgaon is the only college in Haryana which is going to set up the eYantra lab in the college. The ECE department is thankful to the college authorities for extending their moral and financial support for the upcoming Robotics lab.

The team working on a task given by the trainers

Trainer from IIT Bombay explaining the different blocks of the Firebird kit

Students Views :

Dronacharya College of Engineering is an institute which defines and continues to update methods of engineering in India. It provides its students with modern education facilities while retaining traditional values as well as using its strong industrial contacts to mould young, talented individuals who can complete in the global arena.
I am really very happy to be associated with the Department.

**Deepakshi Sing, CSE
(Roll No. 17054)**

Dronacharya College of Engineering is a college where healthy environment is created, individual creativity and originality of expression is allowed to blossom, culture, tradition and value are presented and change is energized to nurture wholesome personality.

**Aakriti Kumar, ECE
(Roll No. 17191)**

I take pride in being associated with **Dronacharya College of Engineering** which is blend of traditional ethics and modern education. Our college not only aims at our academic growth but also at improving personality that is why our college is rightly called *"GURUKUL"*.
I am really thankful to our faculty and staff members for not only providing technical know-how but also grooming us overall to face the competitive world so as to become world class technocrats. Various seminars, workshops and other events are organized in the department from time to time to encourage students for bringing out new innovative ideas.

Gursiman Sing, IT
(Roll No. 17526)

My experience in this college turned out to be very different than what I expected. Unlike any other professional institutes where the personal touch is often missing, this college treated us like a part of Dronacharya family. The teachers are very supportive and ready to go that extra mile to help the students as and when required. They helped me as a mentor as well as a professional.

Ayush Yadav, Civil
(Roll No. 17655)

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