



# Dronacharya College of Engineering

## ISSUE

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Computer Science & Engineering

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## From Editor's Desk :

The modern world is defined by the fast paced changes in technology which is advancing by leaps and bounds to make the world a global village. As a technical institution, we offer the best courses that are streamlined to meet the technical growth of global India. Our students are chiseled out with unique dimensions of consciousness, compassion and creativity. Our competent team of Faculty & staff members counsels the students to achieve emotional stability by exposing them to Personality Development & Career Advancement Programs. This in turn helps them to emerge as the individuals of higher caliber with very good value system.



Each Department of **DCE, Gurgaon** focuses on nourishing, developing, and flourishing the professional, ethical and moral values in **Dronacharyans**.

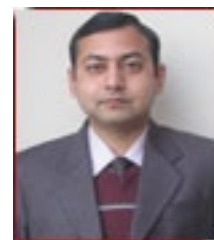
Our students perform better in curricular and extracurricular activities with full dedication, preparation and shine as the professional engineer.

**Editor, (Dr. Sunil K. Mishra)**



### From HOD's Desk :

In today's fast-changing world, the ever-growing challenges of limited resources, rapid climate changes and preservation of environment demand a new generation of Computer Engineers cultivated in the necessary skills and innovative spirit to meet them. Computer Science & Engineering has become an integral part of our daily life. It is the most important element in the education of students of the present and the future era. CSE department gives exposure to its students, to not only the regular Engineering curriculum but also to the aspirations of today's corporate world, by inculcating a professional attitude in them.



The intensive training and the encouraging learning environment of our college makes our students proficient in the basic as well as specialized field of technology.

CSE department has a blooming bunch of cohesive groups working towards attaining global excellence in academics and research. The department has well maintained and well equipped laboratories to carry out research projects as well.

*Head of Department, Prof. Vishal Bharti*

### Events :

#### **International Internship at University of Philippines :**

**Mr. Abhimanyu Singh** (Roll No.13004) of Computer Science & Engineering Department represented **Dronacharya College of Engineering Gurgaon** at International front by completing his Internship at AIESEC, University of Philippines, Dilman.



**Mr. Abhimanyu Singh with delegates from Nepal and Pakistan**

#### **Microsoft Office Expert: Certificate Exam :**

Keeping our commitment towards bringing the best to our students, Computer Science Engineering department organized an online Microsoft certification exam on **28<sup>th</sup>-29<sup>th</sup> July**. The students appeared for three major office packages namely MS Word, MS Power Point & MS Excel. The students also appeared for Mock test which genuinely helped them to qualify one of the most prestigious exams. Student coordinators **Mr. Bibhuti Bhusan** and **Mr. Yatin Sachdeva** handled the proceedings to best of their caliber and helped in smoothly organizing the event.

#### **Google India Community Summit 2013 :**

Shalini Sharma represented **Dronacharya College of Engineering, Gurgaon** **GOOGLE INDIA COMMUNITY SUMMIT 2013** organised by **Google** which was held in **LEELA Goa**, from **1<sup>st</sup> Aug to 4<sup>th</sup> Aug 2013**.

The summit was really learning, had a great experience with various Googlers . The session started with a Welcome and introduction round by **Mr. Sunil Rao**, followed by various sessions like Ice Breaking activity by Kenny, Being a Gsa panel discussion where we heard our Ex- Gsa how did they carried their journey being a GSA., Google design Guidelines by **Ms. Nohasalem** who told us what Google is all about, do's and don'ts , Event: Planning, debriefing requisition by **Mr. Deepak Sridhar**. The session ended with a photography presentation where **Mr. Kshitiz Anand** explained various things about photography and also enrolled various new facts about Photography.



**Shalini sharma (Google student Ambassador) represented Dronachayra college of Engineering Gurgaon in Google India Community Summit held in Goa**

### Cadbury Event:

The department of Computer Science Engineering of **Dronacharya College of Engineering, Gurgaon** organized a one-day "**Cadbury Event**" on **2<sup>nd</sup> August 2013** in association with Cadbury India Pvt. Ltd. This event was a fun- field activity for students and facilitates them to participate in a number of programs like brainstorming puzzles in tune with the slogan "**Nayi Dosti Ka Subharam**".

Over 100 students showcased their talent in this event. **Mr. Ashish Kumar** represented Cadbury India and shared the motive of this event among students. He appreciated the participants' team spirit, enthusiasm, eagerness to perform, and responsibility. The event achieved its success with joy and every student enjoyed it as a participant. The event ended with the distribution of Cadbury Goodies to the participants.



**Students participating in Cadbury Event**

### Alumni Interaction by Ms. Neha Setia :

On **August 7th, 2013**, **Ms. Neha Setia**, an alumnus of our college disseminated some tips regarding the placement preparation.

She advised the students to start their aptitude preparation, technical and communication skills etc since beginning.



***Ms. Neha Setia motivating Students***

### **Rajiv Gandhi Renewable Energy Park (RGREP) :**

The On **22<sup>nd</sup> August 2013**, a group of 59 students from Computer Science Engineering Department of **Dronacharya College of Engineering, Gurgaon** visited **Rajiv Gandhi Renewable Energy Park (RGREP)**, Leisure Valley, Sector 29, Gurgaon under the coordination of **Mrs. Chitra Kaul**, Associate Professor and **Mr. Naveen Gupta**, Lab Instructor of the Department.

The objective of this visit was to create awareness among the students and to provide them a forum of interaction with distinguished experts working on different energy solutions like Solar Energy, Wind Power, Hydro Power, Energy Efficiency, Bio-fuels and alternative fuels.

The event organizer **Ms. Charu Singh** welcomed the students and made them well aware about the Energy Park and various technologies based on Energy resources. The students were guided to utilize energy resources in a practical manner.

The visit was useful to the students as they learnt the working-processes of various technical equipments being operated using solar power.



***Students along with Faculty at RGREP***



***RGRE Representative addressing students***

### **Alumni Interaction by Mr. Anupam Atri:**

An Alumnus **DCE, Gurgaon Mr. Anupam Atri**, founder and owner of Avokado Technology visited the campus under the Alumni Interaction Program on **23<sup>rd</sup> Aug 2013**. As a former Microsoft Student Partner **Mr. Anupam** has achieved significant exposure to various contemporary technologies and his interaction with the juniors was very beneficial for them.

He discussed various criterions for success in the industry and the strategies to improve the programming skills. He also advised the juniors to attempt and enter the programs like Microsoft Student Partner or Google Ambassador to allow them a firsthand experience of the corporate culture even before leaving the institute.





***Mr. Anupam Atri Addressing Juniors***

### **Microsoft Dev Camp :**

With the upcoming rise in technology the current IT industry is witnessing an upswing in the mobile app development. With an objective of guiding the upcoming developers to build their first app on Microsoft Platform, Microsoft Dev Camp organized a one day camp on **August 29<sup>th</sup>, 2013** at Hotel City Park, NH-8, Kapasehra, Gurgaon.



***CSE Students at the Microsoft Dev***

### **HCL "IT ke Superstar Scholarship" Contest :**

Department of Computer Science & Engineering coordinated HCL "**IT ke superstar scholarship**" contest announced by HCL Learning's Career Development Centre (CDC), the training and skill development division of HCL Info systems Ltd., on **29<sup>th</sup> August** for CSE Department .

This test was organized by CSE Department and was open for all the branches. For IT dept it was on **2<sup>nd</sup> Sep 2013** and ECE, EEE, ECS, Mech and Civil dept on **7<sup>th</sup> Sep 2013**.

In total 557 students from various departments appeared for the test.



***Students appearing in the test at various Labs***

## IUCEE - SPEED Workshop:

A group of five students **Chhavi Yadav, Jobin Abraham, Mahak Jain, Neha Munsi** and **Jorawar Singh** from **Computer Science and Engineering Department** of **Dronacharya College Of Engineering, Gurgaon** participated in two-day **Fifth SPEED-IUCEE Student Leadership Workshop** on "**Creativity and Innovation in Engineering Education**" from **29<sup>th</sup>-30<sup>th</sup> August, 2013**. with the objective of understanding the current industry requirements. **IUCEE** in collaboration with **SPEED**, a global student organization has developed a platform for students to exploit their innovativeness by ingraining in them skills, knowledge and creative ideas. The objective is to create global engineers to tackle and resolve issues of national and international nature.



**Mr. Jobin Abraham at IUCEE SPEED workshop**

## Training Session by IBM:

A four-day workshop, sponsored by IBM, was conducted in **Dronacharya College Of Engineering, Gurgaon**, for the 3<sup>rd</sup> semester students of the Department Of Computer Science Information Technology. It was conducted by Mr. Anand , from **1st-4th September 2013**.

The basic idea of the workshop was to teach the students about the basics of HTML and make them aware about the present IBM technologies and applications that play an important part in the industries today. Fedora Core system, DOMINO Administrator, IBM LOTUS Administrator, IBM LOTUS Note Client, DB2 Express are some of the widely used free application software provided by IBM.



**Hon'ble Principal presenting a memento to Mr. Anand**

## SQL Server Workshop:

On **September 2<sup>nd</sup> 2013**, **Mr. Tejesh Tyagi** alumnus of our college from the 2006-2010 batch conducted the SQL Server Workshop under the Alumni Interaction Program.

The students of Information Technology and Electronics and Computer Science also attended the workshop along with CSE Students.

The whole session beginning with the installation of the database system up to practicing of the queries was done in a very understanding and friendly manner. The various responsibilities of the DBA, query execution, data backup and recovery methods, various database terminologies all topics were covered to the utmost satisfaction of the students.



***The Hands on Session handled by Mr. Tajesh***

### **CSI Golden Jubilee celebrations :**

On **6<sup>th</sup> September 2013**, Computer Society of India celebrated their 50<sup>th</sup> anniversary .The venue was at Kothari Hall, DRDO Bhavan. A lot of students from different colleges along with professors, media persons came to attend this Ten students of Computer Science Engineering Department accompanied by **Mr. Vijender Singh Hooda, CSI Head DCE**, attended the **Curtain Raiser for the Golden Jubilee Celebrations of Computer Society of India**.



***Students Attending the Event***

### **Nuturing knowledge :**

The Civil Engineering department organized a guest lecture "**Traffic Data Collection Technologies and Challenges**". By Dr. Kalaga Ramachandra Rao, Professor-in-charge Transportation Engineering, Civil Engineering department of IIT Delhi, in the auditorium of the college on **13<sup>th</sup> September 2013**. The outline of the guest lecture included data collection needs, technology classification (contact and non-contact based), heterogeneous traffic, position based classification and accuracy issues. Under growing pressure to improve traffic management and access to real-time traffic conditions, use of traditional on-road/ contact-based devices/ sensors have become necessary. In the recent years, use of GPS embedded mobile phones is also popular. In contact based classification, Dr. Rao emphasized on inductive-loop detectors which are widely used at intersections with traffic actuated signals, freeway entrance with automated ramp metering, highway segments monitored by traffic counting programs and entrances of gated parking facilities. The references of this guest lecture included lecture notes on traffic flow theory by D. Ni, University of Massachusetts, USA.



***Hon'ble Principal  
Dr. M.N. Hussain greeting Dr. Rao***



## Heading towards a Green future :

**Prof. (Mrs.) Meeta Verma**, HOD Civil Engineering, attended the advanced training program on "Green Building Rating Systems" conducted by IGBC (Indian Green Building Council), a division of CII (Confederation of Indian Industry) on **12<sup>th</sup>-13<sup>th</sup> September 2013** at CII building Sector-18, 249-F, Gurgaon. **Mr. M. Anand**, Principal Counsellor, LEED Accredited Professional from CII Hyderabad conducted this training. The two day training programme focused on eight modules Introduction, Sustainable sites, Water efficiency, Energy Atmosphere, Materials and Resources, Indoor Environment Quality, Innovation in Design and Regional Priority. The environmental impact of buildings is significant for far-reaching effects on our natural environment and personal well-being of occupants.



**Prof. (Mrs.) Meeta Verma, HOD Civil Engineering with other delegates**

## Cisco India Networking Academy Conference & Ipv6 Fundamentals :

**Mr. Hansraj Yadav**, Assistant Professor in CSE dept. has attended one day workshop on topic "**Cisco India Networking Academy Conference & Ipv6 Fundamentals**", at Amity University Campus, Noida.

Cisco conducts a one day (**13<sup>th</sup> September, 2013**) episode on "**Cisco India Networking Academy Conference & Ipv6 Fundamentals Workshop 2013**" at Amity University Campus, Noida with the objective of training and refreshing the Information and Communication Technology (ICT) skills of the faculty and instructors of the various institutions across India. Insightful technical sessions in the areas of "CCNA Routing & Switching Overview", "Ipv4 and Ipv6: Similarities and Differences", "Routing RIPV1, RIPV2, EIGRP & OSPF", "Ipv6 Routing and ACLs", "Academy Connection A Deep dive, Packet Tracer Workshop, Passport 21 and Aspire Game", "Academy Evolution changes A Deep dive on Academy Structure and Roles and Responsibilities", etc will be deliberated upon by technical experts during the day of the episode.



**Representative from CISCO addressing participants at Amity University Noida**

## Matlab & Simulink Academic Tour :

**Chesta Agarwal**, Assistant Professor from Computer Science & Engineering Department of **Dronacharya College of Engineering, Gurgaon** attended the Matlab Seminar at Shangri La Eros Hotel, New Delhi on **24<sup>th</sup> September, 2013**. It was focused on teaching Matlab Fundamentals and Computational Skills. **Dr. Loren Shure**, a principal Matlab developer at MathWorks delivered a session on Teaching Computational Skills with Matlab. She demonstrated how the various concepts can be simulated using the Matlab Simulink. The session replicated various computational modeling and data analysis techniques. The MathWorks Application Engineers briefed about enabling Project-Based Learning with MATLAB, Simulink, and Low-Cost Hardware. Teaching Signal Processing, Communication and Computer Vision Concepts using MATLAB and Simulink were among the highlights of the seminar. The seminar provided a great learning experience which would help in implementing the various signal processing concepts.





**Dr. Loren Shure at an enriching session**

## **TECHNORAZZ'13 at Jaipur National University, Jaipur :**

**Shalini Sharma** (14091) ) of V Sem CSE, **Anshul Patro** (Roll No. 14605), **Vineet Kataria** (Roll No. 14631) of V Sem Electronics and Computer Engineering department participated in the **TECHNORAZZ'13** in the event "**Vibes (Technical Paper Presentation)**".

The students presented their paper on the topic "**Gesture Controlled Web Browser**", a Window based application integrated with perceptual computing. **Perceptual computing** is a technology which is brimming with a very fast pace as it is an invention which seems to transform the human computer relationship to such a realistic end that the humans earlier just used to dream of.



**Shalini Sharma Receiving the Prize for securing 1<sup>st</sup> Rank in Paper Presentation on Gesture Controlled web browser**

## **TECHUNT 2013:**

**Dreams the Spirit of Innovation On "Mobipreneur" Organized by Nurture Talent Academy In Association with (Computer Society of India)** In current industry scenario, we at Dronacharya College believe that in addition to the degree courses there is a need for students to learn new skills related to technology and entrepreneurship and provides platform to encourage technology entrepreneurship, creative thinking and cultivate innovative thinking among young students. In order to promote this spirit, **Dronacharya College of Engineering** tied up with **Nurture Talent Academy (India's 1<sup>st</sup> institute for entrepreneurs)** and **Computer Society of India (first and largest body of computer professionals in India)** and **jointly organized** an initiative **Techunt 2013** - India's 1<sup>st</sup> hunt for entrepreneurs. Which is a unique event consisting of **Training Workshop + Conference + Tech Fair + Business Plan Contest + National Award**.

Talented students will be selected as winners for next stage, and mentored by experts from **Microsoft, Google, SAP, Freemont Partners, KAE Capital, Mumbai angels and leading MNC's**.



**Hon'ble Principal presenting Memento  
to Guest Speaker of Tech Hunt 2013**

### Campus Ambassadors :

#### **AIESEC IIT Delhi Association :**

**Aman Purohit (Roll No. 14008)** of **Computer Science & Engineering Department** of **Dronacharya College of Engineering, Gurgaon** has been selected as a core team member of the AIESEC DI.

With a vision of developing high potential youth into globally minded responsible leaders, AIESEC founded a pioneering local committee in India in association with IIT Delhi to form the **AIESEC Delhi IIT** (AIESEC DI) in 1981. With an objective of creating leaders for a positive impact on society, AIESEC Delhi IIT has constantly been striving to develop the potential of young individuals by providing them with ample growth opportunities. A.I.E.S.E.C has 60 years of experience in developing high potential youth into globally minded responsible leaders. Present in over 110 countries and territories and with over 60,000 members, A.I.E.S.E.C is the world's largest youth run organization. To be a part of this global organization.



**Aman Purohit**

#### **Wipro Earthian Student Ambassador 2013 :**

**Spardha Taneja (Roll No. 14099)** of **Computer Science & Engineering Department** of **Dronacharya College of Engineering, Gurgaon** has been selected as the **EARTHIAN STUDENT AMBASSADOR** for **The Earthian Ambassador Program 2013**.

The main agenda of the Earthian Ambassador was to introduce the Earthian Program to different schools and colleges. As a part of this Wipro Initiative the Earthian Ambassador will be provided the opportunity to mentor the students from both schools and colleges to participate in the Earthian Contest and discuss their innovative ideas to approach the real world challenges faced by our environment. To help the ambassadors in reaching out to the mass, the ambassadors are provided with swag and other materials.



**Spardha Taneja**

#### **Twenty19 Campus Ambassador :**

**Spardha Taneja (Roll No. 14099)** and **Surbhi Gupta (Roll No. 14103)** from the **Computer Science & Engineering Department** of **Dronacharya College of Engineering, Gurgaon** were selected as the Twenty19 Campus Ambassadors.

The program aimed to educate the students about the importance of internships and extra-curricular activities during the college tenure. The Twenty19 Campus Ambassador Program is built to maximize the learning experience and provide a powerful networking platform by bringing together some of the best student minds across the country to collaborate and share ideas. The program is designed to enable amazing hands-on experience in Marketing, along with mentorship & learning through continuous interactions with the dynamic start-up team at Twenty19.com.

**Spardha Taneja****Surbhi Gupta**

### Microsoft Student Partner :

**Prerna Mangla (Roll No. 13082), Shilpa Yadav (Roll no. 14092)** from Computer Science department, **Dronacharya College Of Engineering, Gurgaon** Campus has been selected as Microsoft Student Partner for the campus and was invited for the Boot camp 2013.

Microsoft Student Partner (MSPs) are assumed to further share the knowledge among the academic community by arranging courses; and giving presentations and lectures among students. MSPs get an opportunity to grow a vibrant student technology community in their institution.

**Prerna Mangla****Shilpa Yadav**

### Firefox Student Ambassador :

After a series of resume screening and telephonic interviews Mozilla has selected the following students from the Computer Science Department of **Dronacharya College of Engineering, Gurgaon** as its Firefox Student Ambassadors:

1. **Vipul Asri** (Roll No: 14116), 2. **Surbhi Gupta** (Roll No: 14103), 3. **Spardha Taneja** (Roll No: 14099), 4. **Amit Gupta** (Roll No: 14010), 5. **Aman Purohit** (Roll No: 14008), 6. **Nishant Narula** (Roll No: 14123), 7. **Jyotika Dhingra** (Roll No: 14042), 8. **Saumya Rastogi** (Roll No: 14088), 9. **Saurav Rastogi** (Roll No: 14089).

Firefox Student Ambassadors are individuals who are **passionate about Mozilla** and raise awareness about the many benefits of Firefox and other Mozilla products especially Firefox OS!

### NIIT Ambassador :

**Mr. Sandeep (Roll No. 15094)** a student of third semester is selected as a Brand Ambassador of NIIT. With an objective to bridge the gap between academia and industry, NIIT facilitated a program (NIIT benefit from IT) where a number of students across the region applied for this.

This program was an opportunity for becoming intermediate between NIIT and their colleges. Moreover they learn about innovative NIIT programs, plans etc, It gives you an opportunity to learn and grow by getting exposure to various activities planned at centre level.

In addition to this, **Sandeep** has been invited by NIIT to take workshop on various topics in different schools.

**Mr. Sandeep**

## Research Mind Print :

### Research Papers :

Research and experimental development (R&D) comprise creative work undertaken on a systematic basis in order to increase the stock of knowledge, including knowledge of man, culture and society, and the use of this stock of knowledge to devise new applications."Research support activities aimed at developing and integrating technologies both in advanced emerging areas and in traditional sectors / areas. 67 students from Department of Computer Science and Engineering have Presented/Published 269 Research Papers in Various National/International Journals along with publications in Paper Poster Presentation 2013.

### Webinars :

A key feature of a Webinar is its interactive elements the ability to give, receive and discuss information. In total 14 Faculty Members and 157 students of CSE have attended 42 Webinars on vast technologies like Data Breach Detection, **MATLAB and Simulink**, Security Impact on IPV6, Research Methodology, IBM DB2 Fundamentals, Lab View 2013, **Flash Based Storage System** etc to name a few.

## Students' Viewpoint :

I take this opportunity to express my gratitude to be a Dronacharyan. This college provides a platform for students to undergo different workshops, trainings, seminars and project competitions which help them to boost up their confidence level. Carrying the flag of "Computer Science and Engineering", we aim to outshine our talent in the name of confidence and perfection. Our HOD, **Prof. Vishal Bharti** counsels us as he ardently believes that our placement opportunities can be enhanced by practical exposures through workshops and seminar. Fully equipped labs and high level of sincerity have made me technically strong.

At the end I would like to conclude that my college is an ideal college with traditional values, modern facilities and highly skilled teachers.



**Nikita Pahuja**  
(Roll No. 14058)

Studying at Dronacharya is an exciting, engaging and uniquely enriching experience. The building is designed in such a way that both the study and recreation areas are alive with students and teaching staff united by a single goal to work hard, learn richly and deeply, and have fun. The College offers its students a state-of-the-art learning environment that is both inspirational and proactive. The College's blended learning environment delivers live information to students including assessment and progress, attendance, curriculum information and learning opportunities beyond the classroom.



**Nikhita Upreti**  
(Roll No. 14057)

It is a proud privilege and delight to be a part of Dronacharya. A perfect blend of enthusiasm and skills is what we have in our Computer Science Branch faculty members as well as the students. The classes, the library, the labs and the study environment have all added to make every day efficient enough for the students. Various Workshops/Seminars are conducted at the college that helps us grow and make us professionally ready to face challenges of the outside world.



**Aabha Sharma**  
(Roll No. 14001)



I am so lucky and happy to take this opportunity to present my views about the Department Of Computer Science. The **HOD Prof. Vishal Bharti** and faculty members always encourages us to do the work in systematic and efficiently with a cooperative spirit. All faculty members motivates us to move out of the classroom and think beyond the usual syllabus to keep ourselves up to date with the fast growing technologies.



**Nilesh Kumar**  
(Roll No. 14059)

Our department's main focuses is bring out the hidden talent from the students so that they actually deserved. The labs are highly equipped with the latest technology. Also the Library has had a ample of collection of books required. Our college has been very good not only in academics but also in various cultural & sporty activities too. The College also gives chance to students to take parts in several activities as a participant & coordinator.



**Saurav Rastogi**  
(Roll No. 14089)