NEWSLETTER – January 2012

Dronacharya College of Engineering

ISSUE

Information Technology

In This Issue....

From Editor's Desk :

The global economic order, the rapid rate of technological advancement, the information revolution, all has opened multifaceted challenges as well as opportunities for the engineers of this millennium. Ability to envisage and adapt every changing challenges and latest technology is going to be the forte for this age. For this, the educational institute especially those imparting technical education have to play a vital role in grooming new age technocrats. Only good Engineering colleges with excellent faculty and infrastructure can produce good engineers with great capabilities.

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 programs offered at DCE are comprehensive and are continuously being updated to keep pace with latest developments and innovations in associated disciplines with necessary blend of technology.

We always encourage students to utilise our high standard of teaching - learning approaches, using state - of - the - art audio - visual aids 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.

We have a perfect blend of academics, team leadership and dynamic environment to motivate everyone - Faculty, staff and students to deliver their best. We have a very competent and dedicated core faculty team. In addition to their excellent teaching, the faculty members are actively involved in research and consultancy.

This year, and every year, may all your prayers be answered and may your new year be peaceful, joyful and useful. **May you attain the bliss of growth, the glory of action and the splendor of achievement in the year 2012!**

Editor, (Dr. Sunil K. Mishra)

From HOD's Desk :

"We will open the book. Its pages are blank. We are going to put words on them ourselves. The book is called Opportunity and its first chapter is New Year's Day."

I wish a very **Happy and Successful New Year 2012** to all faculty, staff and students. I would also like to congratulate everyone associated with us for achieving various milestones in fields like result, discipline, research and placement. We always aim at giving our students a blend of knowledge along with good social values which resulted in us being one of the distinguished department in the college.

Academics is always our top priority. With the right mix of creative talents, use of varied technologies and strong relationship with various IT industries, the department delivers quality methods of teaching that helps students enhance their knowledge, be good leaders engineers and entrepreneurs in their field of interest.

I want to convey a message to all students that **"Develop the winning edge; Small differences in your performance can lead to large differences in your result".**

Best of Luck for your exams and future!

Head of Department, (Prof. (Dr.) Jitender Kumar)

Visit of NAAC team :

Peer Team from National Accreditation and Assessment Council (NAAC) to **Dronacharya College of Engineering, Gurgaon** for **Re - accreditation** on **24th & 25th November 2011**.

Hon'ble Chairman Dr. Satish Yadav, welcoming the Peer Team

Dr. Sandeep Sancheti, Chairperson NAAC Peer Team, interacting with faculty

Exit Meeting with NAAC Peer Team

Principal DCE, receiving report from NAAC Peer Team

Award Function – 2011 :

On **22 December, 2011** Principal, **Prof. (Dr.) B. M. K. Prasad** and Dean Academic**, Prof. (Dr.) Onkar Singh** attended the program of **Business Sphere Award Function - 2011** held at **Hotel Ashoka, New Delhi** and were also **conferred mementos for the dynamic achievement of Dronacharya College of Engineering, Gurgaon** in the field of imparting technical education and serving the society in general.

The function was inaugurated **by Mr. Harish Rawat, Hon'ble Union Minister of State Agriculture Food Processing Industries and Parliamentary Affairs, New Delhi.** In his inaugural address, Hon'ble Minister appreciated the initiatives taken by Business Sphere Group and the Institutes for the growth of Indian economy. Sharing his views he expressed that the recent growth in the Indian economy has triggered an increased demand for skilled and trained human resource in the industry. World over the higher education is passing through interesting phase. It is changing radically, by becoming organically flexible in diversity of programs, in its structure, in its curricula, in its delivery systems and it is adopting itself to clever use of information and communication technologies.

Hon'ble Principal Prof. (Dr.) B. M. K. Prasad being Honored at Award Function 2011

Hon'ble Principal, DCE, Gurgaon receiving the Memento

Alumni – Meet :

Education is not only the driving force for a leader to move ahead in life but also the motivation to take an occasional pause and reflect back, connect with one's alma mater and share the richness of his journey. ***Alumni - Meet is that pause for every alumnus****.*

DCE, Gurgaon has a tradition to stay in touch with the passed - out students. Continuing its tradition**, Dronacharya College of Engineering, Gurgaon** held the Alumni Meet on **24 December 2011 at Hotel Taj, New Delhi**. The function was inaugurated with the lighting of lamp by the Chief-Guest **Dr. Satish Yadav Hon'ble Chairman, Dronacharya Group of Institutions**. The Ceremony was started by welcoming the Guests who came from abroad, Guests of Honour and the Alumni with rose flowers. It was followed by a Welcome Speech by **Prof. (Dr.) B. M. K. Prasad, Principal DCE Gurgaon**. Addressing the alumni, Hon'ble Chairman delivered that Alumini - Meet is an opportunity given to every alumnus to share experiences about his alma mater and its impact on their career.

The Alumni movement of **Dronacharyans** lives through its students, spreading across India and overseas. The Meet ended with elaborate, sumptuous and delicious dinner.

All - in - all, the evening resulted in sharing of reminiscent times, new networks built, rich experience shared and a lot of appreciation conveyed by the alumni to **DRONACHARYANS**. The all - pervasive feeling of the occasion is extracted in this one quote - "Education is what survives, after you've forgotten what you memorized."

Hon'ble Chairman inspiring the Alumni

Group photograph with Alumni

Hon'ble Principal addressing the Alumni

Alumni talking about their professional growth & competency

Student's Achievement :

The **2011** Global Model United Nations conference took place at **Incheon, Republic of Korea** on **10 August 2011.** The conference was organized by the **United Nation Department of Public Information (UNDPI).** The conference had brought together the brilliant students of 1000 poles apart valued, honored, and esteemed universities and college from different countries of the world, having discussion ranging on international sustainable issues, Advancing Human progress in Harmony with Nature.

During the conference students role-play as foreign diplomats and participate in stimulated sessions of the UN General Assembly, the UN Security Council and other multilateral bodies in the UN system.

The department takes the opportunity in congratulating **Ms. Molisha Mehra,** a student of IT III Sem for taking its name to such global events.

Ms. Molisha Mehra Presenting her views in Conference at Korea

Placement :

Dronacharya College of Engineering leaves no stone unturned in getting maximum placement for its final year student in companies of great repute. This batch of 2008-2012 opened its success path by getting students placed in IGATE Patni. 30 students of 2008-2012 batches have been selected in IGATE Patni.

Ms. Neha Pandita
(Roll No. 11368)

Mr. Sachin Yadav
(Roll No. 11382)

Blood Donation Camp :

Blood Donation camp was organized by **Rotary Club** in the college campus on **29 Nov 2011.** The blood donation camp was inaugurated by the Honorable Principal **Prof. (Dr.) B. M. K. Prasad.** Many students and staff members have enthusiastically participated in this event and donated blood in this blood donation camp.

Seminar/Workshop/Conference :

During current semester a number of papers have been presented in various national/international seminars like:

- Mr. Ashish Kumar Luhach has presented a research paper titled "Enterprise transformation to Service Oriented Architectures" in "IEEE International Conference on Computational Intelligence and Computing Research".

- Mr. Vijender Hooda, Associate Prof. (IT) has presented a research titled "Dynamic Certificate Authority in Mobile Adhoc Network" in "5th IEEE International Conference on Advance Computing & Communication Technology (ICACCT)".

- Mr. Ashish Kumar Luhach has presented a research paper titled "Service Oriented Architecture & Web Services: The Concept, Technologies & Tools" in "IEEE International Conference on Computational Intelligence and Computing Research" at Kanya Kumari.

- Mr. Yashvardhan Soni, Asstt. Prof. (IT) has presented a research titled "Dynamic Certificate Authority in Mobile Adhoc Network" in "5th IEEE International Conference on Advance Computing & Communication Technology (ICACCT)".

Student's Research Forum :

More than 100 students of Information Technology have taken the membership of Indian Society for Technical Education (ISTE) in Nov 2011. This will help them in exploring the new changes taking place in this rapidly change field of Information Technology and will keep them update about the latest happening in IT.

Ms. Sugandh Khanna's (IT-V Semester, Roll No 12387) two papers have been shortlisted to be presented in International conference in Kuala Lumpur, Malaysia & Hong Kong. She is an example for other students to take a leap and start striving for presenting papers abroad.

Technology Forum :

ITwin : Remote Access PC without Cable :

ITwin is a revolutionary new file sharing and remote access device developed by a company called iTwin. It's like two ends of a cable, without the cable. It's as simple to use as a flash drive.

ITwin can connect any two online computers anywhere in the world. iTwin enables access to any or all of your home computer or office computer files and folders while you're on - the - go. There's no in-built limit to the amount of storage you can access. The only limit is the size of your hard drives and the speed of your Internet connection. You can also back-up files to your home or office computer while you're out on-the-go.

When user connect iTwin to the computer, the two halves "pair" and create a secure key that only these two halves know. No one else knows this key - including the iTwin company. This means your data is completely secure. iTwin uses 256 - bit AES encryption. This standard is comparable to that of the military or online banking services. On top of that, iTwin uses hardware crypto, not software, which makes iTwin's encryption even more difficult to crack.

User can set an optional password, for additional security. This is done during the "pairing" or initialization process. With the two halves connected and plugged into a USB port on your computer, proceed through the pairing process and then right - click the iTwin icon in your system tray. Select "Security Options" and then select "Set Password" from the menu. Password will be required each time you plug one half of your iTwin into a computer.

ITwin enables a simple and secure, one - to - one connection between any two computers running Microsoft Windows 7, XP or Vista (32 - bit or 64 - bit). iTwin currently supports Microsoft Windows 7, Windows XP and Windows Vista, (32 - bit & 64 - bit). The two computers connected to each other via iTwin can be running two different operating systems.

ITwin does not facilitate malware distribution. Malware spreads through regular USB drives, when a malicious program executes and writes itself to the USB drive automatically. With iTwin, you explicitly select the files that need to be copied. And the iTwin device does not store any unauthorized files on itself - it only stores iTwin application files. Malicious files cannot trick iTwin into copying files automatically.

Ms. Jyoti Singh
Roll No. 11359
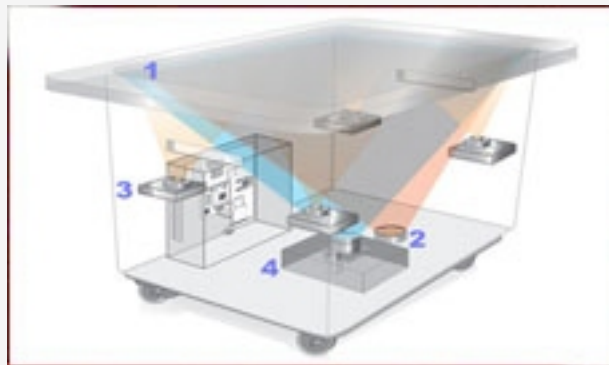8th Sem

Projects :

Surface Computing :

Surface computing is a new way of working with computers that moves beyond the traditional mouse - and - keyboard experience. It is a natural user interface that allows people to interact with digital content the same way they have interacted with everyday items such as photos, paintbrushes and music their entire life: with their hands, with gestures and by putting real - world objects on the surface. Surface computing opens up a whole new category of products for users to interact with.

Surface computing typically includes three key attributes:

Direct interaction   **Multi - Touch**   **Multi - User**

Technology behind Surface Computing

- User provides the input by touch or hand gestures and surface uses cameras to sense objects, hand gestures and touch.

- Objects such as fingers are visible through the diffuser by series of infrared sensitive cameras, positioned underneath the display.

- An image processing system processes the camera images to detect fingers, custom tags and other objects such as paint brushes when touching the display.

- The objects recognized with this system are reported to applications running in the computer so that they can react to object shapes, 2D tags, movement and touch.

Project guide :   Mr. Vijender Hooda

Mr. Yashpal
(Roll No. 11399)

Mr. Kisley Sinha
(Roll No. 11362)

Mr. Shamim Akhtar
(Roll No. 11384)

Intractive Voice Response System :

Interactive voice response *(IVR)* is a technology that allows a computer to interact with humans through the use of voice and Dual Tone Multi Frequency (DTMF) keypad inputs.

In telecommunications, IVR allows customers to interact with a company's database via a telephone keypad or by speech recognition, after which they can service their own inquiries by following the IVR dialogue. IVR systems can respond with prerecorded or dynamically generated audio to further direct users on how to proceed. IVR applications can be used to control almost any function where the interface can be broken down into a series of simple interactions. IVR systems deployed in the network are sized to handle large call volumes.

IVR technology is also being introduced into automobile systems for hands - free operation. Current deployment in automobiles revolves around satellite navigation, audio and mobile phone systems.

It has become common in industries that have recently entered the telecommunications industry to refer to an automated attendant as an IVR. The terms, however, are distinct and mean different things to traditional telecommunications professionals, whereas emerging telephony and VoIP professionals often use the term *IVR* as a catch - all to signify any kind of telephony menu, even a basic automated attendant.

IVR Benefits :

- Automation of operations
- IVR Designer
- 3rd-party database interfaces
- Reduced wait time

- Real time and updated information
- Ease of operations scale-up
- Easier management
- Comprehensive reporting for supervision and QM

Project guide : Dr. Supriya Panda

**Ms. Ritu Dahiya
(Roll No. 11379)**

**Mr. Vaibhav Chawla
(Roll No. 11397)**

**Mr. Pawan Kumar
(Roll No. 11373)**

Student's Viewpoint :

Information Technology department is a feather in the cap of Dronacharya. It has proved its potential many a times in all the fields for example by getting best results in the university, maximum number of merits, and amazing placements. **Dronacharya College of Engineering** is well - known for spectacular achievements in the field of technical projects, research and development. It has recorded some of its grandest accomplishments in recent times. Since its inception, DCE has taken many initiatives to display its leading edge in R&D.

I wish Dronacharya and IT department All the Best for all its future endeavors.

**Manya (Roll No. 11366)
7th Sem**

I take this opportunity to express my gratitude to be **Dronacharyan**. Our college is a perfect example of **"Gurukul Combining Tradition with Modernity".** The curriculum here is specially designed to be result oriented in order to help us, face the challenges at our workplace. At dronacharya we are trained to face every possible circumstance. **"ACTION with PERFECTION"** go hand in hand in every activity undertaken in the college campus. Carrying the flag of **"IT ROCKS"** we aim to outshine our talent on the name of confidence and perfection. Under the valuable guidance of our teachers, we bloom to become the future set of professionals.

Thus in a nutshell, it can be said that Dronacharya Gurukul does the duty of converting a raw student into a self - dependent, sincere and a hard working technocrat as well as a good citizen.

Shivangi Mudgil (Roll No. 12385)
5th Sem

I feel proud to be a member of Dronacharya family. This college is setting milestones in education, placement & students personality development year by year. The best feature here is the faculty and staff. The focus of education in DCE is to attain best results and maximum placement. Extra classes & special attention is given to weaker students.

Monika Bansal (Roll No. 12358)
5th Sem