



# Dronacharya College of Engineering

## ISSUE

Vol viii issue LXXXV

## Information & Technology

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### From Editor's Desk :

**"Donot dwell in the past; do not dream of the future, concentrate the mind on the present moment" Lord Buddha**

In this era of Scientific and Technological revolution, we realize that Science & Technology plays a significant role in shaping our life and in contributing towards the socio - economic development of our nation. In today's world, globalization is rapidly increasing, bringing with it expanded personal mobility, access to knowledge across borders, increased demand for higher education, growing worldwide investment, and increased needs for technology convergence. The twenty first century undoubtedly belongs to the men and women of strength and excellence in professional fields.



We, at **Dronacharya College of Engineering, Gurgaon** impart knowledge and applying it for the socio-economic benefit of the society and nation. Technology Education, one of the human resource development strategies, is a powerful tool for peaceful social transformation and for overall development and prosperity of any nation. It should be free from shackles of ignorance, prejudice and unfounded belief.

Technical Education is a fundamental necessity for economical development and prosperity of a country. A technologist enjoys with time immemorial a good name and reputation with regards to values and ethics. The honours of maintaining these values relies on him and to achieve this emphasis must be laid upon time tested qualities like honesty, loyalty, kindness, hard -work and wisdom etc.

"Past has left its memories cheerful, Present is pleasant never be fearful, Future will bring things rosy and beautiful, Working hard will make your life beautiful."

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



## *From HOD's Desk :*

***"The value of a college education is not the learning of many facts but the training of mind to think." ~ Albert Einstein***

Information Technology department persistently strives for developing quality engineers to meet the current trends in the emerging world of Information Technology. We provide students with world class education that prepares them to excel in their professions and to become creative leaders in an increasingly complex world.



We have well experienced faculty members and infrastructure to impart knowledge to the students about the latest technologies in IT field with a variety of computing platforms for aspiring students to meet the burgeoning demands of the IT industry. To achieve the professional competency the college has signed a number of MOUs with industry giants like Microsoft, IBM, Oracle, CISCO, Huawei etc. Students are getting knowledge about the latest technologies by giving various world class certifications. The curriculum of these certification courses has been blended with the university curriculum to make our students industry ready.

The Department of Information Technology, with its dedicated, well-qualified and world class faculty and students, is committed to be an international, multi-disciplinary centre of excellence in technical education and research. Maximum merits in the entire university, 100% placement, excellent University result, various best project awards to our students and hundreds of quality research papers published by our students in reputed journals including IEEE shows the commitment of all the staff and students to makes our department exceptional.

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

## *Workshop & Training Programs :*

### **Training on CCNA 1 & 2 (Routing & Switching):**

**Mr. Amitesh Kumar**, Assistant Professor from IT Dept and **Mr. Ajit Kumar** Assistant Professor from ECE Dept of **DCE, Gurgaon** attended a two week training on "**CCNA 1 & 2 (Routing and Switching)**" that was conducted by Cisco Instructor Training Centre (ITC/ASC) at Amrita Vishwa Vidyapeetham, Amrita Nagar, Coimbatore from **28th April to 10th May 2014**.

They also shared their valuable experience with all the faculty members on **7<sup>th</sup> June 2014**.



**Candidates along with Training Faculty, Mrs. Kohila M.**



**Mr. Amitesh during Teach-Back session on topic static routing**

### **Workshop on Computer Programming :**

**Dronacharya College of Engineering, Gurgaon** in association with IIT Bombay organised the online workshop on "Computer Programming" from **16<sup>th</sup> to 21<sup>st</sup> June, 2014**. The workshop mainly attempted at enhancing the teaching pedagogy of the faculty in the Computer Programming Course. All the staff members of IT department have attended the workshop.

At the end of the workshop all the participants are distributed with provisional certificate.

The key speakers of this workshop were **Prof. Abhiram Ranad**, **Prof. Deepak Phatak** & **Prof. Sridhar Iyer** from IIT Bombay.



**Prof. Deepak Phatak delivering his lecture.**



**Faculty interacting with IIT Bombay faculty members through video conferencing.**



**Participants at the workshop**



**Provisional certificate distribution, at the end of the workshop by the Principal DCE, Gurgaon**



**All the Participants of the workshop with Hon'ble Principal**

### **ISTE Coordinators Workshop on Cyber Security from 17th-21st May, 2014:**

IIT Bombay in collaboration with Ministry of Human Resource development, Govt. of India organized a one week Workshop **on Cyber Security** from **17<sup>th</sup> May** to **21<sup>st</sup> May 2014** at IIT Bombay. The key speakers at the workshop were **Prof. Bernard L. Menezes** and **Prof. G. Siva Kumar** from IIT Bombay. The workshop was organized by ISTE. **Mr. Ashish Kumar Luhach**, Assistant Professor, Department of Information Technology represented **Dronacharya College of Engineering, Gurgaon** in this workshop.





**Mr. Ashish Kumar at IIT Bombay**



**Audience at the workshop**

## National Conference on Contemporary Literature :

**Dr. Suchitra Deswal**, Associate Professor, Department of Applied Sciences and Humanities, presented a paper in the two day NATIONAL CONFERENCE ON CONTEMPORARY LITERATURE: AN OVERVIEW held on **7th-8th April 2014** at Department of English and Foreign Languages, M.D.U. Rohtak. The title of the paper was **Mahesh Dattani's Plays: Social Concerns in New Perspectives**.



**Padamshree Keki N. Daruwalla delivering the Key Note Address**



**Dr. Suchitra Deswal with Padamshree Keki N. Daruwalla at the Conference**

## Faculty Development Program on Spoken Tutorial Project on C, C++, Java, conducted by IIT, Bombay :

The Spoken Tutorial Resource Centre of **Dronacharya College of Engineering** in association with Indian Institute of Technology-Bombay organized a faculty development program from **May 15th, 2014** to **May 22nd, 2014** for all the departments on "C", C++, Java. The project under the National Mission on Education through Information and Communication Technology (NMEICT), Union ministry of human resource development, aims to spread IT literacy across the nation. It was conducted by **Mrs. Chitra Kaul**, Incharge Spoken Tutorial Resource Centre.



**Faculty members attending the workshop**



**Faculty members attending the workshop**

## Faculty Development Programme (FDP) on “Embedded System & Advanced Robotics” :

A total of 57 faculty members from various department i.e. ECE, ECS, CSE, IT, Applied Sc., Civil and Mechanical Engineering departments attended 5 days Faculty Development Programming(FDP) on “EMBEDDED SYSTEM AND ADVANCED ROBOTICS” from **23rd-27th Jun 2014** at **Dronacharya College of Engineering, Gurgaon**.

The Robotics and Embedded Systems provide engineers the foundation for design, implementation and analysis of embedded systems, with an emphasis in autonomous robotic systems. **Mr. Kelvin Lewis** from ARK Techno Solutions conducted the workshop. He gave hands on training with examples by programming.

The FDP covered the various applications of Robotics such as Line Follower and Joystick control. Each participant showed a lot of interest by configuring robot with their own hands using microcontroller ATMEGA 328. The faculty practically worked with Blue tooth technology, implemented 3 Axis Accelerometer and used Raspberry Pi as a computer.



**Mr. Kelvin Lewis giving hands on session on Robotics**



**Faculty members of various Departments attending the workshop**

## Workshop on Cloud Computing :

One week workshop on “Cloud Computing” was organized at **Dronacharya College of Engineering, Gurgaon** for the staff members from **26<sup>th</sup> to 30<sup>th</sup> May 2014**. **Mr. Aurbind Sharma**, from TED enlightened and shared ideas on latest technical prospects as required by the corporate world under modern software engineering technologies. He talked about the working of cloud computing. He said the clouding computing generally help us to store photos online or in social networking sites. In general, cloud computing is the type of computing services over the Internet. He also demonstrated iLearn and iCampus to the faculty members.



## Seminar on “Application of Computer Software in Mathematical Modelling” :

**Dr. Jyoti Anand** and **Dr. Binay Kumar** of Applied science department attended a two - day seminar on “**Application of Computer software in Mathematical Modeling**” organized by **Guru Gobind Singh Indraprastha University School of Basic & Applied Sciences** and collaboration with **Commission for Scientific & Technical Terminology** Department of Higher Education, Ministry of Human Resource Development, Government of India on **16th to 17th May, 2014**. Eminent personality and delegates across the world attended this seminar. This seminar was inaugurated by **Dr.(Mrs.) Rashmi Bhardwaj**, Associate Professor, USBAS, **Guru Gobind Singh Indraprastha University** (GGSIU) , Keynote address was given by **Padma Shri Prof. P.K. Dave**, Former Director, All India Institute of Medical Sciences and Presidential address given by **Shanti Swarup Bhatnagar Awarded Hon'able Vice Chancellor Prof. Anil Kr. Tyagi, GGSIU . Prof. Kesari Lal Verma**, Commission of Scientific and Technical Terminology, Department of Higher Education Ministry of Human Resource Development, Govt. of India delivered his address and invited talk given by **Prof. L.M. Saha**, Department of Mathematics, IIIMIT, Shiv Nadar University.



## C# Corner Annual Conference'14 (12th April 2014) :

Five Students from CSE-6th Semester namely **Bibhuti Bhusan, Harsh Chawla, Puneet Bhalla, Piyush Chutani** and **Rohan** and 14 students from CSE-4th Semester namely **Akshit Chauhan, Deepak Chandel** (Roll No. 15024), **Kirti Sharma, Sanjana, Surbhi, Karuna, Priyanka Mittal, Komal, Vivek, Upender, Vishal, Saurabh, Atul, Sahil Jindal** of **Dronacharya College of Engineering, Gurgaon** attended the annual conference of C# CORNER held at Radisson Blue Hotel, Ghaziabad.

Different aspects like SQL, Databases, Building web applications using ASP.NET, Windows phone and introduction to cloud computing and windows azure, NODE. JS for .NET, Data in JQUERY were covered. The event was divided in three tracks, 1st track was handled by **Mr. Pinal Dave** (Founder of SQL Authority, Industry Speaker, Prolific Blogger), taught the audience about the Indexes used in SQL.



**A View of C# Annual Conference**



**Students of CSE Department at the venue**

**Dronacharya College of Engineering, Gurgaon** in collaboration with iTEP organised an online iTEP (**International Test of English Proficiency**) on **12th April 2014**. iTEP is an English assessment body for EdCIL India Limited, a public sector enterprise under the Ministry of HRD, Government of India. Almost 100 students from all streams of Engineering of the College took part in the iTEP Academic version.



**Students appearing in the online Test**



**Group Photograph of the HODs, Faculty & Students with iTEP Team**

## Summer Training at Huawei Telecommunications :

A total of 61 students (42 students from Information Technology, 3 Students from Computer Science, 14 Students from Electronics & Communication Engineering and 2 Students from Electronics & Computer Engineering) were enrolled for the one month summer training program started from **25th June 2014**. The purpose of this summer training program is to introduce various networking concepts like Wireless Telecom (2G/3G/4G), IP - Datacom (Routers, switches, Security & Firewall), Networks (Access, Optix, & Microwave) & Cloud Computing.

Having completed this training the students would be able to know the Core Network (CS, PS, IMS), Transmission Network, IP- Data Communication Network, Cloud Computing Fundamentals, Wireless Broadband Access (MBB/ LTE/ WIFI) etc. Engineers with HCIG certification are able to construct complex networks and integrate voice, wireless, cloud, security, and storage technologies into their networks in order to support a variety of applications.

**Dronacharya College of Engineering, Gurgaon** has also signed an MOU with Huawei Telecommunications and has become a part of Huawei Network Academy for their services and training in the field of network and telecommunication.



**Students at Huawei Telecommunication**



**Trainer Explaining Networking Concepts**

### **Award Distribution for Zonal Winner of ISTE -SRMC (2014) :**

Indian Society for Technical Education (ISTE) joined hands with National Boards of Higher Mathematics (NBHM) and Institute of Mathematical Science (IMSc) Madras to conduct various events such as mathematical quiz, testing the numerical abilities, arranging series of lectures and conducting seminars & workshops etc. Under this program ISTE organized "SrinivasaRamanujan Mathematical competitions 2013" on the occasion of 125th birth anniversary of to the great mathematician of India Srinivasa Ramanujan on **2<sup>nd</sup> March 2014** at Institute of Mathematics, Chennai.

**Dronacharya College of Engineering, Gurgaon** conducted all three Chapter, Zonal and National Level. Two students **Yatin Sachdeva** (Roll No 14121) and **Trishant Mallik** (Roll No. 14110), from 6th Semester of Computer Science & Engineering Department won the Zonal Level. The students were felicitated with cash prize, trophy and a certificate of merit. Yatin Sachdeva got first prize in Zonal Level with a cash prize of Rs. 3000/-. Trishant Malik got second prize at Zonal Level with a cash prize of Rs. 2000/- along with Trophy and certificates.



**Yatin Sachdeva being awarded with trophy & appreciation certificate along with Cash prize of Rs. 3000/- from Prof. (Dr.) M.N. Hussain**



**Yatin Sachdeva and Trishant Malik with Prof. (Dr.) M.N. Hussain (Principal) & Prof. Vishal Bharti (HOD CSE)**

### **Computer Season IV Award Ceremony (31st May 2014) :**

COMPUDON, a gateway to the Microsoft Office Specialist World Championship is a platform for students to showcase their mastery in using Microsoft Office applications. Eligible students from across India competed for the title of "India Champions" and up to 6 winners proudly represented India at the "Microsoft Office Specialist World Championship" a fully sponsored trip by Cyber Learning in July 2014 at Disneyland, California, USA. **Prof. Vishal Bharti** and **Prof. Vijender Hooda** represented **Dronacharya College of Engineering** in the event on **31st May 2014**.

CyberLearning the award winning provider of IT learning and certification solutions for academic and workforce segments and the company that brought the Microsoft Office Specialist Certification to India, announced the COMPUDON Season IV India Champions in Microsoft Word, Microsoft Excel and Microsoft PowerPoint, culminating India's most popular and the only validated technology skills competition on Microsoft Office since its inception in 2011.



**Guests enlightening the lamp at venue. Prize distribution by chief guests**



**Guests enlightening the lamp at venue. Prize distribution by chief guests**

### Paper Publications :

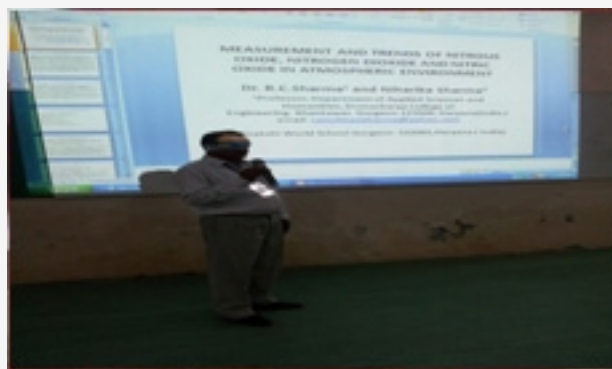
#### **Book Publication :**

The paper titled "Advanced ADDV Routing Algorithm With Energy Efficiency in MANET " authored by **Prof. A.N. Mahajan** and **Shelly Goel** student of M.Tech ECE Department has been published in IJESRT Vol.3, Issue-**5th May 2014**.

Another paper titled "Snowmelt Modeling Approaches in Watershed Models: Computation Efficiency" by **Prof. (Dr.) Anand** Verdhen and et al. has been accepted for publication in Water Resource Management Journal.

#### **Paper Presented in The International Conference :**

A paper on Measurement and Trends of Nitrous Oxide, Nitrogen Oxide and Nitic Oxide in atmospheric environment was presented by **Prof. R.C. Sharma** from Applied Sciences and Humanities Department in 3<sup>rd</sup> International Conference on Emerging Trends in Engineering and Technology held at **College of Engineering, Teerthankar Mahaveer University, Moradabad, U.P.**



**Prof. (Dr.) Ram Chhavi Sharma, Department of Applied Sciences & Humanities, Dronacharya College of Engineering Gurgaon presenting his paper.**



## Paper Publications :

### Campus Ambassador of PADARTH 2014:

**Megha Agarwal (Roll No.14444)**, student of Information Technology has been selected as the "**Campus ambassador of PADARTH 2014**", which is the Annual Materials Science Festival of IIT Bombay. Padarth is a non-profit organization run by the students of the Department of Metallurgical Engineering and Materials Science, IIT Bombay.



### Techkriti 2014 Ambassador:

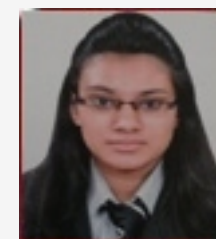
**Jyoti Hazarati**, student of Information Technology has been selected as the ambassador of Techkriti which is the annual inter-college Technical and Entrepreneurship festival organised by the students of IIT Kanpur. Techkriti was launched in 1995 with the aim of developing interest and encouraging innovation in technology among students.



### Twenty 19's Course Ambassador :

Megha Pundir from IT VII Sem (Roll No: 13431) has been nominated as TWENTY19 Course Ambassador. Her responsibilities as a Twenty19 Courses Ambassador would be:

- Build and lead the Twenty19 Courses Community in the campus.
- Promote Online Courses, concept and help other students to learn new skills.
- Publicize Twenty19 Courses in the college and local student community.
- Carry out tasks that are assigned as Courses Ambassadors every month/week.
- Successfully completion the tasks, will grant a certificate of appreciation, at the end of the program.



## Certification :

### Certification by IT Students :

#### ■ Oracle Certification

- Oracle Database SQL Certified Expert: **74 Students**
- Oracle Certified Professional, Java SE 6 Programmer : **52 Students**

#### ■ Microsoft certification

- MTA Database Fundamentals: **57 Students**
- MTA Networking Fundamentals: **110 Students**

### Certification by IT Staff :

#### ■ Oracle Certification

- Oracle Certified Professional, Java SE 6 Programmer: 5 members

- Oracle Database SQL Certified Expert: 2 members

## Certification by Staff Members :

### Microsoft Certification

- Prometric Certification : 04 Members
- Microsoft Certified Solution Developer (MCSD) in Programming in HTML5, CSS & Javascript: 1 Member
- MTA: Networking Fundamentals: 12 Members
- MOS: PowerPoint : 12 Members
- MOS: Word : 11 Members
- MOS: Excel: 11 Members
- 23 ECE faculty members have cleared the MOS power point and 14 ECE faculty members have cleared MS Word during the month.

## Technical Column :

### Project Name : Floating Display

The objective of the project is to display free space, full color high resolution video or still images while simultaneously enabling the user to communicate, to have real time interaction with the visual images. Displaying an image using conventional projectors requires a non-transparent medium, typically screens, walls, or even water, but air, which is transparent, cannot be used. The project intends to work as a free-space touch screen when connected to a PC by a USB cable. A PC sees the floating displays a pointing device, like a mouse. With the supplied software installed, one can use a finger, pen, or another object such as cursor control and navigate or interact with simple content.

The main advantage of the project will be that the device uses the room air and is safe, produces no side effects. The major techniques used are motion detection and holographic display which are expected to be implementable under the platform used. Floating display has a great scope in the market and in the fields of science multimedia and graphics, it can also be combined with intelligent operating system and an intelligent environment can be created.

This project has been awarded at "Best Engineering Project competition 2014" which was organized by Faridabad Industrial Association, Faridabad on the **26th April 2014**. Students from various engineering colleges as well as from various departments have attended this particular competition.

The project "Floating display" developed by **Ms. Parul Bhardwaj, Mr. Saurabh Singh** and **Ms. Ritu Gautam's** from Information Technology Department, under stiff competition has grabbed the first position under the Computer Science & Information Technology category.



**Judges evaluating the project**

## Paper Publications :

### Placement Information - IT Department :

- Total no. of students placed = 57
- Total Placement = 82
- Average salary = 3.00 LPA
- Maximum salary = 7 LPA

## Student' Views :

**"Education is what remains when we have forgotten all that we have been taught."**  
~George Savile, Marquis of Halifax

I am really glad to be associated with the Department of Information Technology at Dronacharya College of Engineering. The faculty members are amazing they have passion for their subjects make each class exciting and interesting. They truly want their students to be successful. All the subjects are made interesting by giving real time examples and giving real time case studies. It is not only about the academic syllabus prescribed by the university but give a broader exposure to the various things. We are also introduced to the various certifications at the very first year of engineering and to writing research papers. By the time we will be graduated from **Dronacharya College of Engineering, Gurgaon** for sure we would be industry ready technocrats.



**Jyoti Hazrati**  
(Roll No. 14434) VII Sem

**"Education is the process of casting false pearls before real swine."** ~Prof. Irwin Edman

As a student at Information Technology Department, I am always motivated, and focused on my career. The department has given the confidence to face the world. My experience in the classrooms is one that will stay with me forever, since it is where my educational journey began.



**Megha Agrwal**  
(Roll No. 14444) VII Sem

"Tell me and I'll forget; show me and I may remember; involve me and I'll understand." Our department has achieved lot of success and excellence in past few years and will continue to do so in future also. The objective and aim is to equip students with the fundamental knowledge, interdisciplinary problem solving skills and to groom them as World Class Technocrats. The college also makes us ready for placements as well as GATE exams. Once you are here we need not worry about anything. The department makes sure that we are updated about the latest technologies and ready to face any kind of competitive exams.

**At the end I would like to say .....IT ROCKSSS!!!!**



**Deepak Vashisth**  
(Roll No. 14413) VII Sem