NEWSLETTER - JULY 2012

Dronacharya College of Engineering

ISSUE

Information Technology

In This Issue....

From Editor's Desk :

The contemporary trend of technical education is benchmarked by adaptability to global needs. Industrial growth, Environmental concerns and social responsibilities are the vital factors for sustainability. **Dronacharya College of Engineering, Gurgaon** is one of the leading college where imparting of technical education with perfect blend of excellence and innovation is relentlessly pursued in the field of Information Technology, Computer Science, Electronics & Communication, Mechanical, Civil, Electronics & Computer and Electrical & Electronics.

DCE, Gurgaon is replete with all the learning and living facilities that make up a top-class campus. It aspires to build an exciting living atmosphere adding to the joy of the students' life in making them distinguished academicians and successful entrepreneurs. A premium blend of modern and contemporary settings lay in true eco - friendly environment, helping them to be one with themselves.

We, at **DCE, Gurgaon** are committed to maintaining high academic standards whilst preparing the students to secure rewarding employment on graduation. At the same time, we are concerned that Dronacharyans should develop as individuals, gaining in self-confidence and develop a sense of enterprise. Our Placement Cell identifies the industry needs and demands from time to time and prepares the students who are on the threshold of an exciting career in the field of technology. The placement cell is committed to continuous learning, and creating positive ideas, through rigorous training to prepare the young techies. Our primary objective is to enrich students' human capital through the creation of a learning environment. We are dedicated to help our students achieve worthwhile positions in different fields of the corporate world. Student's communication skills are honed through communication and organizational behavior courses.

For overall personality development regular counseling sessions are organized focusing on various aspects of personality development like positive thinking, body language, time management, stress management and communicative skills. We also invite psychologists and career counselors to conduct these sessions, motivate the students and help them to improve the power of assimilation and retention.

In this way, we aspire to reassert the significance of high quality education by producing competent professionals who can shape the destiny of our nation into a stronger and developed stature.

Editor, (Dr. Sunil K. Mishra)

From HOD's Desk :

Every Successful Person has a painful story, every painful story has a successful ending. Accept the pain and get ready for success.

The department of Information Technology makes a difference with incomparable placement, outstanding result, excellent research culture and tailor-made teaching methodology. I am proud to say that faculty & staff members of our department are providing world-class technical education to our students enabling them as competent technocrats in the field of Information Technology.

Students & alumni are our brand ambassadors as they are taking the flag of Dronacharya to new heights across the globe. More than hundreds of our alumni are working in top multinational companies like IBM, TCS, Infosys, Mercer, Dell, HP. Some of our students are pursuing higher studies in top universities of USA, UK, Canada etc.

The department of Information Technology has a rich history of producing maximum number of merit holders in the university year after year. The success of our department can be simply counted by our excellent results and even better placements.

We encourage our students to showcase their talent at various national & international forums; recently Ms. Molisha Mehra represented India in United Nation's conference organized at South Korea. Two research papers of our students Ms. Sugandh Khanna have been shortlisted for publication in International Conferences held at Hongkong & Kulalampur.

We motivate our students in making good industry ready projects, in a consequence they won the first prize in the project competition held at Faridabad Industrial Association (FIA), Faridabad where more than 27 teams from various colleges participated. Besides this, two of our Projects entitled "Multifunctional Autonomous Robotic System" developed by Mr. Surya Mani Sharma and "Remote Desktop Computer" developed by Ms. Neha Pandita were shortlisted for the Jury Award in the BST Campus Innovation Award 2012 held at Pune.

I would like to congratulate all the students of 2007-2011 batch for receiving their B.Tech Degree. I would also remind all the present students to work hard during this summer break to further sharpen their technical & soft skills for better placement & results.

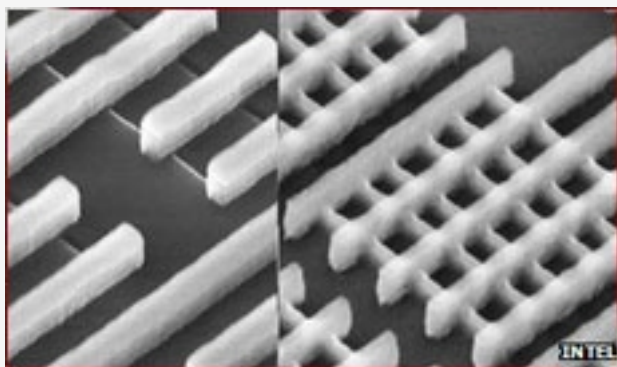**Head of Department, (Prof. (Dr.) Jitender Kumar)**

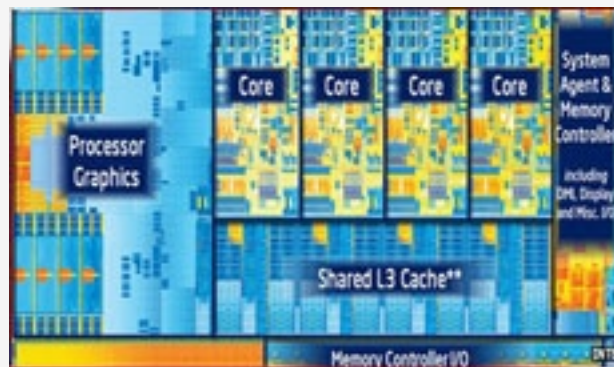## Tech Vision :

Ivy Bridge Processors with 3D Transistors

Monika Bansal, (Roll No. 12358)

Intel has launched the first Ivy Bridge processors with a new tri-gate transistor technology, touting the new chips as the "world's first 22 nanometer product."

Intel's new Ivy Bridge processors use a new tri-gate transistor technology to boost processing power while reducing the amount of energy needed.

Traditional planar chip design (left) and Intel's new Tri-Gate technology

Intel's new Ivy Bridge processors use a new tri-gate transistor technology to boost processing power while reducing the amount of energy

The initial release includes 13 quad-core processors, most of which will be targeted at desktop computers. This is the world's first 22 nanometre product and we'll be delivering about 20% more processor performance using 20% less average power. There will be 50% more supply than we had early in the product cycle of our last generation.

Low power: The fact that Intel's new transistor technology, The on/off switches at the heart of its chips are more power-efficient could be crucial to its future success.

Tri-gate transistors: Intel hopes a new transistor technology, in development for 11 years, will help it challenge Arm's reputation for energy efficiency.

Bell Labs created the first transistor in 1947, and it was about a quarter of the size of an American penny. Since then, engineers have radically shrunk them in size so there are now more than one billion fitted inside a single processor. It all poses quite a challenge to Intel's main competitor in the PC processor market Advanced Micro Devices.

"So you can get all your files and emails downloaded onto your PC while it's in your bag, and still get more than 10 days of standby and all-day battery life."

Convocation-2012 :

The Convocation ceremony, one of the prestigious events of *Dronacharya College of Engineering (DCE), Gurgaon*, was commemorated with great pomp and show *on 16th June, 2012 (Saturday)* at the college Auditorium. On the occasion of 10 th Convocation Ceremony, a total of 400 students were *awarded B.Tech Degrees* in different branches of Engineering. The ceremony started with the invocation and recitation of *"Saraswati-Vandana"* by Dronacharyans.

Addressing the technocrats, *Hon'ble Chief - Guest Prof. (Dr.) S. P. Khatkar, Director (UIT) and Dean Faculty of Engineering & Technology, M. D. University, Rohtak* expressed that *DCE, Gurgaon* produces a number of good quality engineers, technocrats and entrepreneurs every year who not only lead the professional world but also prove to be good human beings throughout. Emphasising on the applications of real knowledge, the Chief-Guest Prof. Khatkar elucidated that education also helps in discovery of inner- self. Further, he suggested the scholars to use their knowledge and wisdom for introspection, innovation and welfare of society.

Congratulating the degree-recipients, *Hon'ble Principal Prof. (Dr.) B. M. K. Prasad* pointed out that the technocrats should continuously strive to explore new ideas and creative ways of leading the competitive world. He also advised the students to be perpetual learners as learning offers opportunities and leads to excellence in the field of Engineering & Technology.

The young engineers took pledge to be responsible citizens and serve the cause of the Nation. It was, indeed, an unforgettable ambience immersed with the confluence of experienced intelligentsia bestowing the impeccable and *dynamic Dronacharyans with their B.Tech degrees.*

Prof. (Dr.) C. Ram Singla, Advisor (R&D), all HODs and the Registrar also shared their views and blessed the students. The convocation ceremony was ended with a vote of thanks by *Prof. (Dr.) Onkar Singh, Dean (Academics)* followed by recitation of the National Anthem.

Hon'ble Chief-Guest Prof. (Dr.) S. P. Khatkar, Director (UIT) M. D. University, Rohtak presiding over Convocation - 2012

Hon'ble Principal Prof. (Dr.) B. M. K. Prasad motivating the technocrats

Hon'ble Chief-Guest sharing his experiences with Dronacharyans

A scholar receiving B.Tech. Degree from the Chief-Guest, Prof. (Dr.) S. P. Khatkar

Hon'ble Chief-Guest distributing B.Tech. Degree at Convocation-2012

Hon'ble Chief-Guest being honoured with a memento at Convocation-2012

Consultancy Development Center :

Dronacharya College of Engineering, Gurgaon organized a two-week Certificate program in Technical Consultancy from **28th May 2012** to **8th June 2012** in association with Consultancy Development Centre (CDC), Govt. of India. CDC is an autonomous institution of the Department of Scientific and Industrial Research (DSIR) of Ministry of Science and Technology, Government of India. The objective of this Program was to prepare professionals in the field of Technical and Management Consulting.

The course was inaugurated by Our **Hon'ble Principal Prof (Dr.) B. M. K. Prasad** and Shri. **S. K. Lalwani, Project Head, CDC**. There were 21 participants from various engineering discipline like Computer Science & Engineering, Information Technology, Electronics Engineering and Applied Science. **Mr. S. K. Lalwan**i discussed about the CDC program, its scope and the activities undertaken to promote Technical Consultancy and the future of consultancy in India.

Sh. Navinder Gupta, Former ED. MECON Ltd., Sh. Satish Sehta, Sr. Manager (Business Development), TCE Consulting Engineers Ltd., Mr. D. Vasudevan, IT Expert and *Web Specialist, Mr. Sudhir Dhawan, Director Arther Engineering Solutions Pvt. Ltd, Mr. Sunil Soni, Director Retail Banking & Insurance, Dell Service* covered the various aspects related to consultancy.

Hon'ble Guest- speaker talking about consultancy & its relevance

Principal, DCE Gurgaon addressing the learners

Placement :

The Global recession could not stop our brilliant student from getting placed in various the multinational companies. Our coordinators are actively engaged in not only disseminating information of job opportunities in the public and private sectors for getting our students placed. They regularly conduct the personality development classes, Aptitude tests, written tests, online tests, group discussions and debates etc. A number of our students are placed in reputed companies like **I-GAGE Patni, HCL Comnet, E-Dynamics, HCL Technologies, Flexiele Consulting Services** etc. The detail of students placed recently is given below:

Sr. No.	Students	Organization
1.	Jai Kishore Jangir Roll No.- 11355	Drishti Soft Solutions Pvt. Ltd.
2.	Kislay Sinha Roll No.- 11362	HP
3.	Manish Gupta Roll No.- 11364	Halltech Solution
4.	Neha Pandita Roll No.- 11368	I Gate Patni
5.	Sachin Yadav Roll No.- 11382	I Gate Patni

Sr. No.		Students	Organization
6.		Shefali Singh Roll No.- 11387	HCL Comnet
7.		Shikha Gupta Roll No.- 11387	Flexiele Consulting Services
8.		Yash Pal Roll No.- 11399	Halltech Solution

Recent Achievements of the depatrment:

The Project Entitled "Surface Computing" won the First prize among 28 shortlisted projects in *Faridabad Industrial Association (FIA), Faridabad*. The project was developed by *Mr. Yash pal, Kisley Sinha, Manish Kumar, Nikhil Sachdeva & Shamim Akhtar* under the expert guidance of our *HOD Dr. Jitender Kumar*. The achievement of this project was also published in the leading news paper like *Hindustan Times* and *Amar Ujala.*

Touch of excellence: students design surf

इंजीनियरिंग प्रोजेक्ट प्रजेंटेशन में द्रोणाचार्य कॉलेज और एनजेजे कॉलेज में बंटी प्रायें
भावी इंजीनियरों को एफआईए सम्मान

Project entitled *"Multifunctional Autonomous Robotic System"* developed by *Mr. Suryamani Sharma* and *"Remote Desktop Computer"* developed by *Ms. Neha Pandita* were shortlisted for the Jury Award in the BST Campus Innovation Award 2012.

Student's Projects:

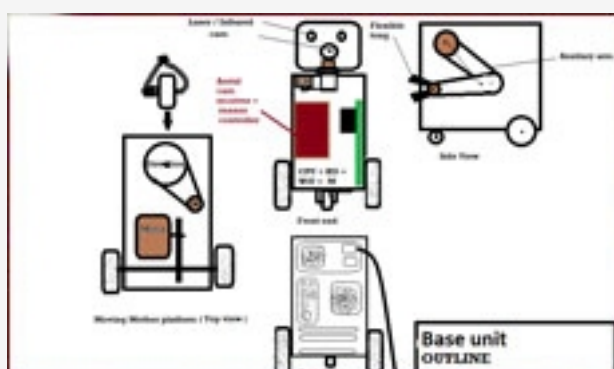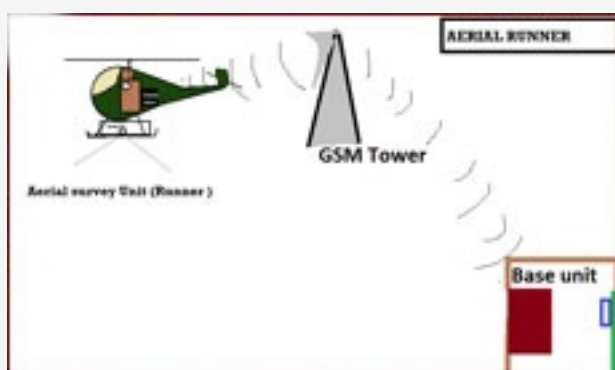### Multifunctional Autonomous Robotic System-Project Guide : Mr. Vijender Hooda

The main objective of this project is to create multifunctional autonomous robotic system capable of performing multiple tasks like aerial and ground surveillance, 3D mapping and object recognition etc.

With the help of this system, one is able to carry our remote surveillance at any place, it is able to track and recognize objects and further process this data, it can be used for special missions for security and in hostile land, it has capability of remote controlling through GSM network so can be used remotely.

Since every year spending on hi-tech defense equipment is increasing but due to importing of technology and equipments multiplies the real cost of such equipments so such multipurpose robotic system is of great use in country like ours.

Application: It can also be used in various fields that may be security, defense, construction, agriculture, Resource mobilization. Object tracking and surveillance is also of great use in field of law enforcement. Small robots find their place in home, offices and work places for assisting people.
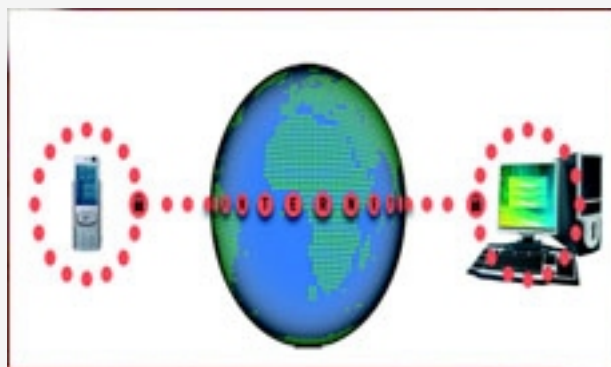

Remote Desktop Computer-Project Guide : Ms. Maneela Tuteja

The purpose of the project is to change the interface of computer with the small handheld device like mobile by using mobile keypad as input interface and mobile screen as output interface. This can be attained by sharing the desktop screen with a mobile device so that the mobile user gets to see the complete desktop screen irrespective of his location. Thus a user can get the full computational powers through a small handheld device and that too anytime and anywhere.

Neha Pandita (Roll No. 11368)

Functioning of Remote Desktop Computer

Words from our alumnus:

Life is a sojourn and in this journey I would take this opportunity to thank and acknowledge my college **"Dronacharya College Of Engineering"** to the immense contribution it had in moulding me as a person and my career. The ambience is very suitable for healthy learning. The faculty has been very supportive and very helpful all the time. The well learned professors have always taken us through their horizon of knowledge and helped us imbibe them. They have constantly inspired us to achieve the best and succeed. The personal care given to each & every student by the faculty members of my department is the most important aspect of our college which helps every student to showcase his talent & skills.

The college has very good facilities to cater to the requirements of the students like the labs which are highly equipped with the latest technology and the college library which had ample collection of all the books required. Everyone has taken utter care to help us learn, comprehend and acquire knowledge. Our college has been very good not only in academics but also in various cultural activities and sports too.

Also the college has played a major role with the placement of the students. It has made sure to give the best it can to its students. The four years of my graduation have been a very fruitful experience altogether. I am grateful to the college for getting me placed in ORACLE.

I have got my life time comrades from it and wish my college all the best for its future prospects.

My college days have been the best part of my life.

**Gaurav Pal Singh, 2007-11 Batch
Information Technology**

Student's Viewpoints :

It is proud privilege & delight to be a part of such an institution. I am really very happy to be associated with IT department. Our department is dedicated to overall development of students. The high standard faculty regularly interacts with the students. Students are motivated to enhance technical skills. Fully equipped labs and high level of sincerity have made me technically strong. I am highly obliged by getting nurtured under the guidance of such scholastic people.
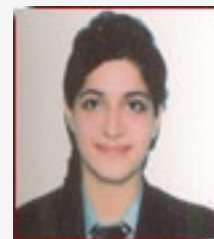
Subodh Kant (Roll No. 12386)

MY COLLEGE-TAKING ME TOWARDS BETTER FUTURE

Education is an enlightment of minds dwells in an atmosphere of good environment and prosperous thinking. My college presents the process of education in a congenial manner. The traditional education is on the pattern of gurukul. Our teachers handle each student very personally and make ideal citizens & excellent technocrat out of them. Our college has good labs, open ground, proper hostel for boarders and strict ruling while cultivating culture and manners among the trainees here children are groomed for all ups and downs of life.

The staff of our college is regular, qualified and practical education minded. My ideal college produces ideal citizens for the nation. My department provides the best support to all the students. It provides the best Teachers. Our Department provides the best training programs and placements for all the students. The Staff Members are highly qualified, decent, polite, calm and cooperative.

They guide in the time of needs they work really hard for all the students to groom them and provide them the best education. There is always healthy competition between the students. At the end I would like to conclude that my college is an ideal college with traditional values and modern facilities and highly skilled Teachers.

Sonia Tewari (Roll No. 13469)

We the students of Information Technology are highly grateful to have **Prof. (Dr.) Jitender Kumar** as an H.O.D . He is undoubtedly very supportive and encourages us in our hard times.

The faculty of the IT department is well qualified to guide it's students towards the stairs of success. They not only help them to clear out the problems and queries but also encourage the students to bring new ideas, new thinking and to develop creativity. And these thoughts and ideas are always welcomed and even get the full support in the term of execution.

At last I just want to say that I am proud to be part of IT department.

Shafali Jain (Roll No. 13442)