



Dronacharya College of Engineering

ISSUE

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Information Technology

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From Editor's Desk :

Dronacharya College of Engineering, Gurgaon aims to provide wide range of holistic technical-education to students, to create need based work - force for academics, industry, business and management, to strive for innovation in teaching, learning and evaluation and also to act as light house for the transmission of global knowledge. Here, the teaching - learning process is creative, innovative, collaborative and technically sound which strives to promote excellence in the field of Engineering & Technology.



DCE, Gurgaon has become dream destination for **Engineering aspirants**. Its ambience for advance level of **teaching, discipline, placement, well - equipped modern labs and University results** create a different aura on the budding engineers particularly in **NCR**.

Our students enthusiastically participate in **Seminars, Conferences, Workshops, Project competitions** etc and we are proud to share that they bring laurels year after year not only in academics but also in Sports, Technical events and other co-curricular activities. We are conducting modern technical measures towards all round development of the students with skills in communications, soft skills development, group discussions and lateral thinking to ensure their compatibility as an entrepreneur and a corporate individual.

The full fledged **Training & Placement Cell** also strives hard to serve students by maintaining industry-institute relationship so as to identify the industry needs and expectations to train the students for Employment.

Under the able and dynamic leadership of the **Principal Prof. (Dr.) B. M. K. Prasad**, whose perseverance and diligence have always been a guiding light for us; we try to imbibe the rich culture and traditions of our country and endeavor to provide our students the best of both the traditional and the modern world.

Editor, (Dr. Sunil K. Mishra)

From HOD's Desk :

Try not to become a man of success, but rather try to become a man of value.

The primary objective of Information Technology department is to provide quality education of international standards. To increase the technical competence among students, the department organizes personality development classes, technical quizzes, seminars, workshops etc for them. To achieve the professional competency the college has signed the various MOUs like **IBM, Wipro, NIIT, i3India** etc. Our faculty members and students have taken life - time membership (LM) of various professional societies like **Indian Society of technical education (ISTE), Computer Society of India (CSI) and Institute of Electrical and Electronics Engineers (IEEE)** etc.



The department is constantly encouraging the students to actively involve in the latest development happening in the research work. Our students have also published research papers and articles in the national and international journals. IT Department has a very attractive history of producing a maximum number University Toppers and merit holders. Besides imparting the technical education the department also strives to nurture the physical, mental, emotional and social aspects of the student personality.

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

Project Competition (FLA) :

Faridabad Industries Association (FIA) was established in 1977 to look after the needs of Small Scale industries in Faridabad - Ballabgarh Industrial Complex. Faridabad Industrial Association also organizes programs / seminars on diverse subjects. The association endeavors to create awareness among its members about latest technological development, marketing strategies, quality improvement etc.

To encourage the young engineering graduates **FIA** organizes a program every year to promote the best project in Haryana. This year **Ms. Kumud Bhardwaj, Mr. Karan Kharb & Mr. Manoj kumar** won the Third prize for the project titled "**Feel the digital World**".



Dronacharyans getting awards at FIA, Faridabad



Project team of DCE, Gurgaon being honored at FIA, Faridabad

Live Projects :

Claim Processing System :

"Claim Processing System" is software that manages and controls the activities of a company. It includes maintaining and managing the records of existing employees, medical insurance and claim processing. It also maintains the list of branches, departments & designations. It has been designed to make available the information as and when required. Also, it is highly beneficial to both the Administrator as well as Branch Head involved in the company.

Objectives :

- It has feature for employee medical insurance and they can apply for claim processing.
- Admin is authorized for approving the claim process.
- Only Administrator can add new Department in the company.
- Only Administrator can give ID & Password to the branch head.
- Only Administrator can add new Designation in the company.
- Only Administrator can add new Branch in the company.
- Any Branch Head/ Administrator can upgrade/promote the employee of his branch only.
- Any Branch Head/ Administrator can edit/delete the employee of his branch only.
- Administrator can easily change his existing password for security purpose.
- Only Admin can change the Hierarchy of the Company.
- The main concern of this project is to improve the efficiency and effectiveness of the whole system.

Project Guide : Mr. Bhanu Pratap Saini



Akanksha Vats
(Roll No. 10335)



Ankit Arora
(Roll No. 10339)



Ankita Aggarwal
(Roll No. 10340)

Public Distribution System :

Public Distribution System evolved as a major instrument of the Government's economic policy for ensuring availability of food grains to the public at affordable prices as well as for enhancing the food security for the poor. PDS with a network of Fair Price Shops (FPS) is perhaps the largest distribution network of its type in the world.

PDS is operated under the joint responsibility of the Central and the State Governments. The Central Government has taken the responsibility for procurement, storage, transportation and bulk allocation of food grains, etc. The responsibility for distributing the same to the consumers through the network of Fair Price Shops (FPSs). The operational responsibilities including allocation of food grains, identification of families below poverty line, issue of ration cards, supervision and monitoring the functioning of FPSs. This proposed project is used for maintain the public distribution system more efficiently. It includes the billing system, post complaints and editing. Customers are at below poverty line (BPL) and above poverty line (APL). When registration of a customer is confirmed by admin, the quantities allowed for that family is also confirmed based on conditions.

Project Guide : Mr. Dharmendra Pal



Anshul (Roll No. 10341)



Deepak Mohan (Roll No. 10352)

Seminar/Workshop :

National Seminar on Waste Water Management (WWM - 2011):

A National Seminar was conducted by the Department of Applied Science and Humanities on **15th June 2011**. The Seminar on **Waste Water Management (WWM)** was endorsed by **AICTE** and was held in Department of **Applied sciences and Humanities, DCE, Gurgaon, Haryana, India**. The goal of the seminar was to bring together researchers, students, engineers and scientists with interests in problems and solutions for the management and treatment of water, waste water and related issues to address recent research results and to present and discuss their ideas, theories, technologies, systems, tools, applications, work in progress and experiences. It had the main target of joining academicians, researchers, engineers, consultants, firms from the various Sectors and intellectuals in order to interchange experiences, present advances and new projects about the rational and efficient use of waste water limitations in applications.

It was inaugurated by **Hon'ble Chief Guest Prof. (Dr.) T. R. Sreekrishnan, IIT Delhi** by lighting the lamp followed by welcome address by **Hon'ble Principal Prof. (Dr.) B. M. K. Prasad**. Addressing the participants, **Prof. (Dr.) T. R. Sreekrishnan** enlightened the intellectual gathering with his conceptual and factual message on water, waste water management, Treatment of Water etc based on Science & Technology. The Guest of Honor **Shri J. C. Yadav, Ex - Engineer in Chief, Deptt. of Public Health Engineering, Haryana** also made the participants aware of the approaches, regulations and measures taken up by the Government of Haryana.

Appreciating the organizing committee, **Hon'ble Principal Prof. (Dr.) B. M. K. Prasad** stated that such workshops, seminars, conferences provide an opportunity to learn about different policies and management practices implemented across the country / world and give delegates a unique opportunity to meet and discuss ways to integrate all components of waste water into their management plans.

The Seminar also provided an opportunity to learn about different policies and management practices implemented across the country / world and gave delegates a unique opportunity to meet and discuss ways to integrate all components of wastewater into their management plans.



Hon'ble Principal addressing the gathering



The convener (WWM- 11) motivating the participants



The Guest of Honor sharing his views



Hon'ble Chief Guest receiving the memento



Dr. B. B. Sahu expressing his gratitude

National Workshop on Application of Biomedical Engineering (ABE - 2011):

A National workshop on Application of Biomedical Engineering (ABE - 2011) was being organized by the Department of Biomedical Engineering, **Dronacharya College of Engineering, Khentawas, Farrukh Nagar, Gurgaon, India on June 09, 2011. Recent Advances in Biomedical Engineering** brings participant a balanced, state - of - the - art presentation of the latest concepts, methods, techniques, procedures and applications of the fascinating field of Science and Engineering. The Workshop was inspired by highly motivated and leading contributors to provide up - to - date aspects of topics and present fresh, original insights into their own experience with Science and Technology.

The last two decades have seen a rapid growth in the use of science for various applications due to the demand on the quality and properties of materials and their increasing need. The **Chief - Guest Dr. Sneha Anand, Head, CBME, IIT Delhi** inaugurated the workshop by lighting the lamp followed by welcome address by **Hon'ble Principal Prof.(Dr.) B. M. K. Prasad**.

Addressing the participants, Dr. Sneha Anand summed up that Biomedical Engineering is the application of engineering principles and methods to a wide array of problems associated with human health. The field includes the design of biocompatible materials, prostheses, surgical implants, artificial organs, controlled drug - delivery systems, and wound closure devices. Encouraging the scholars, she stated that one must introspect and motivate oneself to bring out something innovative for the services of mankind and environment.

Appreciating the organizing committee, **Hon'ble Principal Prof. (Dr.) B. M. K. Prasad** stated that such workshops, seminars, conferences encourage the scholars to gain exposure to the breadth and depth of biomedical engineering.

The entire workshop was divided into two technical sessions. The first session was covered by a renowned entrepreneur **Mr. Pankaj Sharma, M. D. Lead India Pvt. Ltd., New Delhi**. He delivered a talk on "**Transition of Bio - Medical From Lab to Market**". In the second session, **Mr Abhinav, M. D. (Cardea Biomedical Technologies Limited, New Delhi)** and **Dr. Ashok Jaryal, Additional Professor (Deptt. of Physiology, AIIMS, New Delhi)** shared their views on various applications of Biomedical Engineering. They said that biomedical engineers can derive creative satisfaction by designing prosthetics, synthetic blood vessels, automated patient monitoring systems, blood chemistry sensors, ultrasound and artificial intelligence for clinical decisions.



Dynamic Principal Prof. (Dr.) B. M. K. Prasad addressing the intellectuals at ABE - 11



HOD (BME) Prof. (Dr.) D. P. Singh talking about Bio - Medical Engineering and its applications



Hon'ble Chief Guest receiving a token of reverence



A participant being given a certificate

Tech - Vision :

3D on your PC:

Introduction

A large range of hardware and software is available to allow the user to view stereoscopic 3D images on a PC. One common 3D viewing technique is to use a pair of Liquid Crystal Shutter (LCS) 3D Glasses in combination with a CRT monitor.

There are four main techniques of achieving time - sequential display with PC systems.

▣ Page Flipping

Page flipping is the highest quality method of producing time - sequential stereoscopic display. The flipping can be performed by your video card's BIOS (the better solution) or a device driver could be installed which will watch the progress of the video card generating the video signal.

▣ Row - Interleaved Image + Interlaced Display

Interlacing is probably the easiest method and is what is used in (PAL and NTSC) 3D video systems.

▣ Sync Doubling

Sync Doubling (or sub - fields) works by dividing your existing screen into halves (the top half and the bottom half). The software puts the left image of a stereo - pair into the top half of the display and the right image of a stereo - pair into the bottom half of the display.

Line Blanking

A row - interleaved 3D image is displayed by the video card in progressive - scan video mode (i.e. not interrelated - scan). A dongle plugs into the VGA port of the computer and the monitor plugs into the back of the dongle. The video signal will then be an alternating sequence of left and right "frames".

LG V300 all - in - one PC with 3D multi - touch display and Core i7 CPU

LG has introduced a new all - in - one PC at Computex 2011, the V300. With the V300, LG has managed to squeeze in a lot of technology into a tiny 1.8 - inch thick frame. It has a 23 - inch display of the IPS FPR (Film - type Patterned Reader) type, and is capable of 3D output requiring only passive polarized glasses Coupled with Color Shift technology. It provides an impressive 178 degree viewing angle, even for 3D. It uses a triple camera system for accurate multi - touch capability.

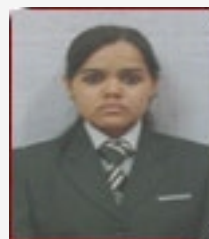
Neha Pandita (Roll No. 11368)

Result :

IT Department is known for its best results and merits in the university. The result of our students is at par with the best of results of the university. We provide extra classes to the weak students and give them individual attention. We motivate students by counseling them through our various counseling cell.



Monica Bansal of IT IV Semester has scored first rank in the University in Dec 2010 Examinations.



Shikha Gupta of IT VI Semester is among top five students in the University.

Placement :

Dronacharya College of Engineering is also known for the best campus placement in various MNCs in the Haryana Region. Our student has been placed in various reputed MNCs like **IBM, TCS, HCL, Hewitt Associates, HSBC, Oracle Financial Services, Think Future Technology, HCLComnet and Juventus S/W Pvt. Ltd.** Etc. **DCE** is committed to provide placement for the final year students.

Student's Speak :

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 this organization. The faculty here is the most amazing feature. 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. The department has always given us the liberty to present our views and give suggestions about what we want from our college and teachers giving importance to each and every student's perspective. In addition to the various technical events, importance given to extra - curricular activities and sports as well through events like farewell, fresher, Dron - tech and sports days which made learning really fun and college life enjoyable. Thank you all for giving me such a place to be in.



Dushyant Sapra (Roll No. 10355)

The motive of **Dronacharya College of Engineering** is to impart quality education, to give desirable growth to those who want to learn and to prepare themselves as engineers and managers competent enough to match the ever growing expectations of the corporate world.

During four year BE / B.Tech. programme, students get adequate inputs on theoretical and practical aspects of various technologies and concepts. However, the competitive world in industry demands engineers to have an all rounded personality, both creative and enterprising. To give chance to all students to bring out the best out of them and provide an opportunity to exploit their creative potential according to their aptitude various clubs have been started like the health club, photo club, innovation club etc.



Heena Gandhi (Roll No. 10360)

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.

IT Department has been a turning point in the history of this college. Since the time the first batch passed out and over the years of learning and development from a no one to someone the IT Department has rose to its height and is still in the process of improving because in our department we believe that there is always a scope for improvement. Our labs are amongst the finest and provides with whatever a student can ask for. Be it latest software or internet we have always been facilitated with platform to channelize our ignited ideas. Although the facilities provided by the management and the department cannot be overlooked, but that triggers the enthusiasm of the students is the interest, the care and the initiative of the faculty.



Shikha Gupta (Roll No. 11389)

Information Technology is concerned with improvements in a variety of human and organizational problem - solving endeavors through the design, development and use of technologically based systems and processes that enhance the efficiency and effectiveness of information in a variety of strategic, tactical and operational situations. Ideally, this is accomplished through critical attention to the information needs of humans in problem - solving tasks and in the provision of technological aids. We use the term information technology or IT to refer to an entire industry. In actuality, information technology is the use of computers and software to manage information. Emphasizing the idea of interactivity and innovation, **Dronacharya College of Engineering** is focusing on rendering data and information in visual format. IT in this college complements and enhances traditional engineering through emphasis on the information basis for engineering for students. The IT faculty in DCE is proficient and adept. **HOD - Dr. Jitender Kumar**, organized various thriving events like **WEB WHIP** which helped students to learn a technology named "Joomla" and **METAMORPHOSIS** - initiation to perfection in which the alumni's and HR's were called from various companies which gave the students the spirit to interact with the dignitaries and solve their queries. This college not only provides educational seminars but also trips like **JIM CORBETT** for entertainment. Hence, IT department believes in fun with studies.



Purnendu Saroha (Roll No. 10376)