



DRONACHARYA COLLEGE OF ENGINEERING

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ISSUE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY



*Wishing all
Dronacharyians
Merry Christmas!*



From Editor's Desk :

This edition of Dronacharya monthly News Letter, being published in a commendable collaboration of CSE & IT, the twin prestigious Department of the college, seizes the opportunity to say good bye to the year 2007 and to emerge desperately and tremendously to welcome the New Year. Let the sweet memories of soul-stirring academic achievements bagging 11 out of 15 Merits in the University Results rejuvenate, reverberate and stimulate us to re-raise our graph to enthusiastic glory, grace and gravity.



The Department Head is making frantic efforts to visualize budding Engineers to discover their talent and transliterate into reality their dream projects which adequately manifest their new found abilities proudly spotlighted in this issue. **Abhishek Kumar of CSE-I**, Roll No. 7002 has bagged the **Best Project Cash Prize of Rs 10,000/-** congrats the innovative aspirant, the project incharge and the Department. The **Placement Cell of the College** is endeavoring with greater zeal than ever before resulting in capturing as many as **50 jobs** recently for the **students of CSE & IT** alone under the seasoned and sincere supervision of **Prof. Omkar Singh** and his dedicated team, in top notch organizations. The **'Students Speak Section'** reveals affection, gratitude and solidarity with the Department in particular and their Alma mater in general. Godspeed our sterling aspirants in the ensuring University Exams!

Editor, (Dr. R. C. Narula)



From HOD's Desk :

The Department of CSE/IT has motivated the students to take up some exceptionally good projects. The students are working on projects like "**Vehicle Identification System**", "**E-Doors**", "**MIB Browser**", "**URL Spoofing**" and even on subjects like "**Robotics**". To encourage the students the Department even awarded the best project "**Robotics-Real time Kernel Hardware Interfacing and Programming**", a **cash prize of Rs.10000/-**. The Department also identified students who needed special attention. Those students were called and extra classes were held on Saturdays to cater to their needs. The parents of these students were also informed and advised to join hands with the Department to motivate them for better career and bright future.



Apart from these students the meritorious students were counseled for further improvement of their results. The Department has been able to successfully place a large number of students in reputed IT firms. Name any good software company and you will find our students there. A new feather has been added to the cap as the Department has come up with a **unique computer lab** which has **30 DELL computers with PIV processors** and **19" TFT monitors**.

Head of the Department, (Mr. Jitender Yadav)

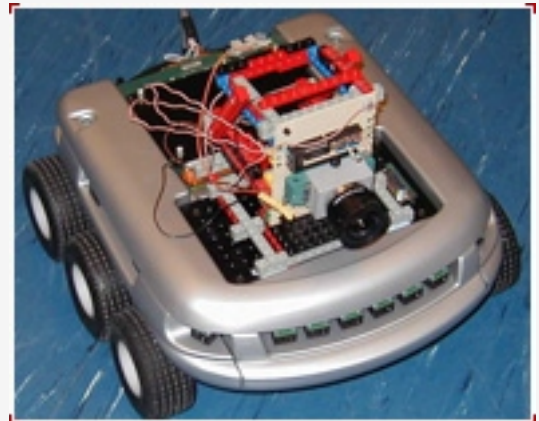
Live Projects Undertaken By Students :

ROBOTICS - REAL TIME KERNEL HARDWARE INTERFACING & PROGRAMMING

A robot is a mechanical or artificial intelligent system .It is usually a computerized mechanical system which by its appearance or movement conveys a sense of human nature. The Robotics industry aims to serve Military Defense Services, Space Exploration and individual users for Research, exploration for development purposes and even for users who like to play with it. The robot which will be developed in this project can be used for exploring places where the humans cannot reach or places like a radioactive place which can be dangerous for human skin, underground earth exploration, cave diving, space exploration, volcanic areas. This robot can be used to collect information or physical data from these places. The robot developed so far has both legs and wheels so that it can easily walk or move on any kind of surface. Also it provides artificial hands to grab thing so that physical data can be collected or some physical work can be done remotely. The robot is a combination of various types of Locomotive bots (Hexapods, humanoids, wheel based, crawlers,). It can perform various works and motions with proper body gesture and balanced motion. The Software developed for the robot is user friendly in nature. And also the manufacturing cost for this robot will be very less at production level.

**Team Members
CSE/IT I Semester**

- Abhishek Kumar (CSE I)
Roll No. 7002



VEHICLE IDENTIFICATION SYSTEM

Our Application "**Vehicle Identification system**" provides a rich interface to the user or clients for retrieving information about a particular vehicle and owner with its respective details. It is widely used in the vehicle workshops maintaining a record for a particular vehicle. It also helps the security systems to identify the stolen vehicles.

The application reads the license plate numbers of incoming vehicles compare them with an existing corpus of rules, record the time of entry or exit and feed them into the database.

The License Plate number scanning is performed with the help of a web cam, which captures the image of the license plate and converts it into a valid string of characters. This string of characters (encoded) is now the actual VIN (Vehicle Identification Number) of the vehicle, which is further decoded to get the relative information. This information is now recorded into the database for further reference.

The information gathered could be used by Police for theft checking and reduction, Insurance Companies for physical verification of the vehicle, Vehicle workshops could use it to improve the customer service vehicle information from the past service data of the vehicle. Vehicle Identification System would be the perfect solution for car rental companies, car park operators, factories with wide-stretched premises as well as for public institutions and administrations wanting to identify unauthorized vehicles and secure their properties against their entry.

**Team Members
CSE/IT II Semester**

- Rachit Gupta (7064)
- Sagar Bhatnagar (7075)



Student's Viewpoint About The Department :

"The foundation of every State is the education of its youth."



At the outset, I feel proud to be a member of Dronacharya College of Engineering family. The best feature which I observe is that here the faculty members touch all the rings of life to make their students a perfect human being. The focus of education in DCE is to kindle thirst for knowledge. This institution is pursuing knowledge not only for the betterment of students but for the benefit and good of society.

CSE & IT Department is equipped with such teaching, administrative and other staff who deserve sincere accolades for without a cooperative and dedicated team it would not have been possible to take the institution to the heights it has reached today.

I would like to place on record my sincere gratitude to Dronacharya College of Engineering for the excellent guidance, theoretical and practical which culminated in my placement in one of the best companies of the country i.e. **Tech Mahindra** at a very handsome package. In fact, I am feeling short of words to express the innermost feelings of my heart. However, the credit for enhancing my stature and personality goes to the Faculty team who moulded the raw clay into a much sought after statue. It has brought laurels; not only to the institution, but to me as well. I am extremely grateful to the Management as well as the Faculty of the Institution and wish it grow by leaps and bounds.

Rashim Kumar
(IT, VII sem)



'No great thing is created suddenly', so is our college which was established in 1998.

From then till now our college is setting milestones in education, placement and overall students' personality development. The college is located in pollution-free, environment in the midst of lush green sprawling lawns. The infrastructure speaks for itself. Classes, labs, seminar rooms, gym, medical room etc. all are well equipped keeping in mind the need of modern technology. The college has added **Biotechnology Branch** this year to its existing four Branches. The college actively participates in numerous activities like NSS, Blood Donation Camp, Inter College Competitions etc.

Computer Science / Information Technology is one of the best Departments in our College. The Department believes in '**Well done is better than well said.**' Lecturers are really dedicated toward the students. They focus not only on the academic side but also on overall personality development. Seminars, group discussions, extempore, aptitude tests etc. are conducted for enhancing the students' knowledge. This is the reason for that **maximum placement comes from CSE/IT Department.** Respected **HOD Prof. Jitender Yadav** personally looks into the problems of students and always finds a safe and secure path for them. He always encourages the students to strive for the best in everything they do. We are taught that nobody is perfect and only those who do nothing make no mistakes.

Thus Dronacharya College has produced technocrats who have proved their worth in reputed companies like **IBM, INFOSYS, HCL, WIPRO, L&T, IFLEX** and many more organizations. This is achieved through our Faculty's endeavors and students' hard work.

 **Gurpreet Singh Sodhi**
(VII sem)

"The Computer Science & IT Department - A life changing experience"



Dronacharya College of Engineering is known for its excellent performance in not only the spheres of academic activities but it has set up new vistas in the field of education for others in the fraternity to emulate. This college enjoys a position of pride in the society due to selfless service of its dedicated staff. In order to make the students ideal citizens of the country, exemplary character is developed in them. The college is now being considered as one of the best in the State. The inner search, faith in one's inherent goodness and determination to overcome one's negative emotions will kindle the spiritual awakening leading to more good in the society.

The Computer Science & IT Department is a life changing experience which opens one's eyes to challenges of the world community, provides world class education, helps you familiarize with culture and people from all over the world, improves your social, diplomatic and managerial skills by filling your life with the life time of confidence.

This department is considered to be the best and most disciplined Department of the College. It is due to the untiring efforts of the staff and the HOD Human excellence is the ultimate goal of this Department.

 **Priyanka Nijhawan**
(CSE, VII Sem)

"Modernization cannot be imported. It has to grow out of our own soil."



It is a common belief that in today's progressive times one has to be in tune with the latest trends being followed all across the world, to be the best. It is true for Dronacharya College Of Engineering which is a visionary organization that has been imparting quality higher education since day one. It is an institution which defines and updates method of Engineering in India. It provides its students with modern educational facilities while retaining traditional values, as well as using its strong industrial contacts to mould young talented individuals who can compete in the global arena. The college has adopted a dynamic, global, high quality creative and communicative approach in education, as well as research and development.

The college has eminent educationists, professionals, dedicated and experienced faculty. The courses are designed in such a way that they will be useful for all ranks of students- beginners, average and advanced. Extra classes and special attention is provided to the weaker students. DCE itself is an institution which is launching every time a new inquisitive batch of Engineers those are well equipped to face challenges. Its secret of success is its discipline, dedication and devotion.

The Department of **CSE & IT is one of the core Departments of Dronacharya College Of Engineering.** CSE & IT Department mainly aims at all round development of student. Seminars are conducted on latest technologies. PDP classes are conducted for the personality development of students. Students are trained for the interviews which are helpful in their placement. Sports week is celebrated as an integral part of curriculum which itself helps in all round development.

Towards end I can summarize life at Dronacharya College as **"It's fun and challenging. Knowledge is made a part of our life and sets us to perform at the best levels in different situations, effectively and efficiently. Come experience life on Dronacharya College Of Engineering campus and you will grow to be a successful individual."**

 **Gulshan Kathuria**
(IT, V Sem)