



DRONACHARYA COLLEGE OF ENGINEERING

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ISSUE OF COMPUTER SCIENCE & ENGINEERING

From Editor's Desk :


*Har saal dekhte dekhte guzar jata hai
kucch logon ko yahaan se door lay jata hai,
kucch naye logon ko dil ke paas lay aata hai
Hum se mat poocho hamare dil me kya rakha hai,
Ik shola hai jo seene mein daba rakha hai!*

Alwida!



Come April and the growing heat of the summer sets in. Co-inciding with the hectic academic activities of students gearing up for their Semester University Examinations, leaving behind the fragrant spring with all the gamut of colourful cultural and sports activities of the preceding months. April wears its golden apparel of glittering sun-shine and gives a signal to students and staff to get ready for a Farewell to the outgoing students and Convocation of the Alumni of the yester year.

At Dronacharya College of Engineering 26th April, 2008 has been fixed up for both these mega events. The Dronacharyans of 6th and 7th batches of various Branches of B.E. will create a confluence like the two holy Indian rivers - the Ganga and the Jamuna. We are looking forward with intense anxiety for this day which will add a new dimension and dazzle to the annals of Dronacharya College and go down memory lane of all DCEians. This month is no less important on the Placement front and for our sterling students getting ready to join elite seats of higher learning in the country and across the far flung foreign shores. God bless you all wherever you happen to be: this is the wish and prayer which comes from the bottom of the hearts of the Management, the Principal, the Dean Academics, the Registrar, the H.O.D.s, the Faculty, the staff and this Editor who loves you no less than anybody else under the sun.

 Editor, (Dr. R. C. Narula)

From HOD's Desk :

The Departments of CSE and IT has made great efforts for enriching the students. The Department has adapted different methodologies for the benefit of the students from holding special classes for weak students to organizing sessional tests every Monday. This restructuring of the exams has not only ensured that there is ample time for a student to study a subject thoroughly but has also made it certain that a student will have to be regular in his studies.



Both the Departments are proud of the live projects undertaken by the students which include "E-Doors" which is a real world job portal, an intranet for the College "DCE-NET" and even a fully working "robot" which got First Prize in the project demonstration section of Drontech-2008 organized in our college. CSE and IT Departments has always encouraged the students for such an amazing work. To enhance their zeal further the Department has come up with two new labs with a total of 60 workstations all with P4 processors.



The Department is keen to improve the quality of education which requires improvement in the quality of the Faculty as well. All CSE and IT Faculty members are sent for workshops, seminars and even Faculty Development Programs are held regularly to encourage the Faculty for self development. The students of this Department have always been placed in prestigious Software Organizations. This year some pre-final year students are already placed in reputed organizations like Infosys, Convergys, L&T InfoTech, I-Flex etc.

 *Head of the Department, (Mr. Jitender Yadav)*

Live Projects Undertaken By Students:



 **Abhishek**

THE MUTANT (AX-R 1)

The first Indian humanoid Computer controlled wireless robot operated manual or pre-programmed through remote computer. Operating can be done both manual through keyboard and preprogrammed using software to perform various operations. This robot is a humanoid which resembles to a human body and is capable of working like humans. The body of the robot is divided into two parts 1) upper part and 2) lower part. The upper part resembles the human body and all the joints work exactly like a human body from head to hands. The lower part of the robot is made up of a wheel track system instead of legs to give it a more flexible movement. The lower part is based on skid steering system in which the wheels of the robot move inside a track so that it can easily move over obstacles or climb the stairs.

Features:

1. Wireless controlled system (up to 100 m)
2. Wireless AUDIO/VIDEO receiver
3. Head-Neck movement (Pan & Tilt)
4. Upper limb movement includes the hand, elbow, arm, and shoulder
5. Hand grip system (To lift objects)
6. Abdomen (Left Right. 360 deg)
7. Wheel track system (Skid Steering)
8. Stair climbing
9. Move over obstacles of 6 inch height

The software to control this robot is written in VC++, VB complete GUI for easy use.

Computer Programming:

In this part of the project computer programming is done which will control the robot attached to the computer through a HARDWARE INTERFACE. This program will perform various basic input/output operations. It will have Pre-programmed functions according to which the hardware will work and also it will provide the user to program user defined functions and operations using an interface. This program will be able not only to control the robot but also various other industrial hardware and machines.


Hardware Interface:

This part of the computer works as the wireless or wired interface between the robot and the computer. Using this interface we can make a communication between the robot and the computer.


Uses:

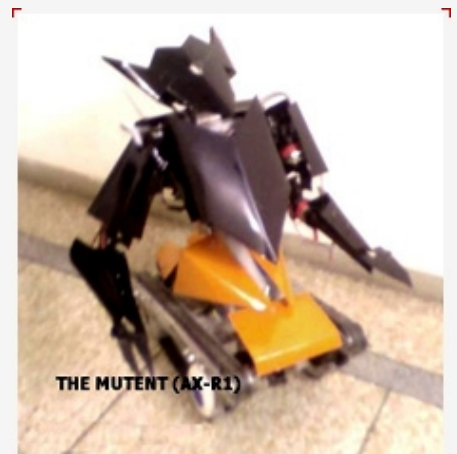
The most important use of this robot is in the exploration field. This robot is capable of doing work using its hands in areas like nuclear region. This can be useful in areas which are nuclear infected or bomb planted regions. There this can be used to do various works or detections using its hand and video/audio receivers. Also due to its feature of climbing stairs or obstacles it can be easily moved on hill areas. Also this can be used for entertainment purpose as it not only does the work but it is also capable of dancing to perform many other gestures.

Team Members **CSE VIII Semester**

 Abhishek (7002)

Project Guide

 Mr. Jitender Yadav





Mitali Bharija

E-DOORS

Objective:

The main objective of **E-doors** is to provide an **online job solution** for the job seekers and a **cost-effective staffing solution** for well recognized companies that are looking for efficient and skilled employees.

Justification and need of project:

In the highly competitive Corporate World, people find it difficult to even have a relevant and timely **knowledge** of suitable jobs, so to **access** and **grab** those opportunities is really a big question.

E-DOORS is a complete framework that acts as a gateway between the employers and job seekers. It provides a very **handy tool** for job seekers to find and access jobs related to their fields. It also provides a cost effective staffing opportunity to the fresh companies which are new in the Corporate World as well as to the well settled highly reputed Corporate giants. It provides both free and premium services.

Description:

E-DOORS is a Job Portal in which we work from three different perspectives i.e., Job Seekers, Agent and Company. It provides a very handy tool for job seekers to find jobs related to their fields. It acts as an online agent for well recognized companies that are looking for efficient and skilled employees. It is created to promote the cause of millions of aspiring job seekers around the world by providing them some effective tools to project their cases before intending employers. In this we will use the concept of Crawler various data mining techniques and smart queries to process the heavy database.

For **Back-end** support, we use **Oracle8i** to design two schemas, one for Job Seekers (where its personal and academic qualification is to be stored) and others for the Company recruiter (where the requirements is to be stored). For **Front-end** we use **HTML and JSP** to make easy and simple to use forms like patterns for data collection and data sharing among all the three parties involved in this process.

Team Members IT VIII Semester

- Badal Jain (7285)
- Mansi Srivastava (7300)
- Lohita Aggarwal (7298)

Project Guide

- Mr. Puneet Goswami

Student's Viewpoint About The Department :



"Education is what remains when we have forgotten all that we have been taught"

Churning out professionals with a cutting edge to gain competitive advantage... this is what **Dronacharya College Of Engineering** stands for... and it truly lives up to these words... this Institute, its environment, everything is unique by itself it's a force that will churn out only the BEST... I'm proud to be part of this Institute, of this journey towards Excellence. This Institution has threaded the road to success with honesty in its heart and courage in its mind-set. Aiming at around development of the students' personality, this Institution has pioneered in incorporating updated and innovative methodologies of teaching.

It believes in delivering what the Corporate World looks for in this current scenario. We at DCE are taught how to strike a balance between the generalist and the specialist within us, honing our skills and showcasing the same to the corporate arena. Under the supervision and guidance of experienced and trained Faculty members of our College, I have been able to grab a placement offer at Satyam Computers one of the leading companies in the Corporate World. Apart from this, I have been able to bag various laurels, awards and rewards making the best use of the opportunities provided to me in various technical and cultural fields.

Megha Malhotra

(Roll No. 7047)



Dronacharya College of Engineering is situated on a vast campus in the midst of nature. It provides a serene environment which is conducive to studies and co-curricular activities. The Faculty is very experienced and knowledgeable. **Big MNC's like Accenture, Infosys etc. have visited the Campus for recruitments.** The College has imbibed in me values such as honesty, integrity and discipline which would stand me in good stead for the rest of my life. The College has taught me to be modest in victory and gracious in defeat. The College has given me various forums to display my talents. I am grateful to this College since it has helped me sharpen my skills and has moulded me into an allrounder. I will always reminisce the time I have spent here.

G.Rohit Kumar
(Roll No. 7029)



Dronacharya College of Engineering is one of the most prominent Colleges of NCR imparting quality technical education. I owe a lot to this excellent Institution. I have learnt to be hardworking, disciplined and well behaved due to the well nurtured cultural and moral values of this Institution. **These values have proved to be a launch pad for my career by enabling me to get placement in 'ACCENTURE'**. Also the Faculty has been very supportive through thick and thins.

Manvi Verma
(Roll No. 7301)

"Shiksha-Evam-Sahyta"



Dronacharya College of Engineering is famous for its discipline and quality education. It provides its students with modern education facilities while retaining traditional values. The College has always been marching ahead on the path of development with a vision to provide smart, simple, moral accountable responsive and transparent education to the individuals who can meet the increasing challenges of the professional society. The College has eminent educationists, professionals, dedicated and experienced Faculty. Our College is not only known for its excellent performance in academics but also in the sphere of various co-curricular activities.

Recently DRONTECH-2008 was organized by our College and a number of Colleges participated in that. Our College focuses on the over all personality development that's why they have made places for themselves in reputed companies like IBM, HCL, INFOSYS, WIPRO, L&T and many more organization. This is achieved through our Faculty's endeavors and students' hard work. Faculty members are very helpful as they even take out extra time for solving problems of the students, if they have any by giving them extra time whenever suitable.

Madhur Hasija
(Roll No. 8040)

"Dronacharya: A path to Success"



Dronacharya College of Engineering strives to meet the challenging need of providing comprehensive education in the field of technology to develop the various aspects of a student's personality. Within these 4 years my teachers and my Department have helped me groom not only as a student but as an individual too. Preparing me as a thorough professional in my career and for facing the challenges of the Corporate World. **With their guidance and support I have been able to get recruited in one of the leading organizations like BirlaSoft.**

Vidhu Singh
(Roll No. 7327)