Dronacharya College Of Engineering
August Newsletter, 2009

Happy 63rd Independence Day to all Dronacharyians!!

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From Editor's Desk :

"We DCEians dared to dream to reach the acme in academics
We envisaged and envisioned to reach the ultimate in dynamics,
Thanks to God Almighty for raising our Institution to the desired height,
Amidst starlets of Institutes in the region DCE is the Polestar fully bright."

I seize the opportunity of offering the warmest tribute to the Principal, the Dean Academics, HODs and Faculty members of various Departments for organizing several Seminars during the period that yawns between the culmination of the old session and the commencement of the new one. There could be no better way of honing academic skills and generating a genuine environment of research activities which rejuvenate the scholastic spirit. The CSE & IT Department that has generated the August issue of this Newsletter deserves special commendation for successfully organizing an innovative Seminar sponsored by AICTE. These Seminars have made fresh life blood run into the dry bones and shrinking veins of enfeebling erudition.

Dronacharya has become an enviable, exemplary and ideal academic destination for the aspirants in quest of a carefully crafted career in the arena of professional learning and it has the proud privilege of enhancing the glory of the great Guru Dronacharya after whom this satellite city has been aptly nomenclatured. After having enthusiastically journeyed through eleven years, ever evolving and ever growing DCE has entered **twelfth year** of a peerless, perfect and purposeful existence. Why Dronacharya? This is a question which no longer happens to be an enigma. The answer to this question is permeated with an aroma and like the fragrance of the freshest of flowers it pervades the academic environment of the State of Haryana. Discipline is the first word in DCE's dictionary followed by dedicated Faculty, myriad Merits colourful co-curricular activities and above all excellent placements which make proud the DCEians, their parents, the Management, the Head of the Institution and the Faculties. At the commencement of the new session 2009-10 we all extend our heartiest welcome to the new aspirants in this fascinating family fold and fantastic Dronacharyan fraternity.

Dronacharya fully endorses the verdict of the Hon'ble Apex Court against the demon or raksha of ragging. At this emotional, delicate and pious moment of meeting and greeting we appeal to all the seniors to maintain the healthy, heart-warming and well established tradition. We assure the new aspirants to enter the beautiful campus without fear and with heads held high. Let us start the new session with a bang in a true harmonious environment our Institution is famous for. Let the new session's bells ring in the best of both the worlds and ring out anything having a negative shade. It is the pious time when seniors at DCE offer the freshest and the most fragrant roses to the new aspirants whose foreheads are marked by a ceremonial **'tilak'** on the eve of an inimitable Initiation or a dazzling **'Deeksha Samaroh'** which serves as an exemplary platform for an affectionate interaction between the juniors and the seniors in a true traditional spirit which jubilantly enjoins the Dronacharyan family. **All the best!**

Editor, (Dr. R. C. Narula)

From HOD's Desk :

CSE & IT Department is constantly progressing; it is still a phase of transition into a luminous future. The Department is having a rich history of producing University toppers and rank holders. In the previous University Exam results also, we got the maximum number of Merits in the entire University. Reaching at the top was certainly not easy but retaining it is even tougher.

To provide a platform to our faculty to present ideas which could evoke the technical thirst by endorsing a new era of current technical excellence, the Department organized a **National Seminar on Artificial Intelligence NSAI'09 on 17th July 2009**. The Seminar was **sponsored by AICTE.**

NSAI'09 helped in enhancing knowledge of our Faculty in the related field and that of various other colleges who are daring to lead the IT revolution of the future. This event offered a variety of areas for the brains to go underway. This technical Seminar attained great moments through a plethora of fields which involved exploring of many new technologies related to Artificial Intelligence.

Our college in its ongoing quest for excellence in teaching, research and leadership started a **"Faculty Development Program"** that aims at providing faculty members a unique opportunity for self-development which enhances their teaching and research capabilities and improves their knowledge substantively in specific functional areas. Many faculty members of the CSE & IT Department presented their papers on various topics related to the current trends and advances in the field of Computer Science and Information Technology.

In the quest of Faculty Development the college organized a two day workshop on **"Six Sigma and Six Thinking Hats"**. The program was excellent and the faculty members got to know about various quality aspects and problem solving techniques. The program also gave the practical exposure to all the participants. The Faculty also got an opportunity to become ISO champion by attending an interactive **Seminar on ISO 9001: 2008 and ISO 14000:2004**.

Academics is always on our topmost priority and in the **next session which is going to start from 3rd August, 2009**, we are committed not only to retain our position at the top but we shall also improve it further. I wish all the best to all my colleagues and students for the upcoming session.

Head of the Department, (Mr. Jitender Yadav)

Faculty Development Program :

The FDPs provide inputs on process and practice of entrepreneurship development, communication and inter-personal skills, creativity, problem solving, motivation, training and inputs on resource and knowledge industries. An FDP improves the skills and confidence level of individual faculty. **"The Faculty Development Program"** is a very good and an excellent practice for the faculties. The programme enables faculty members to develop competence in general technical education as well as in technical research.

One of the undoubted strengths of our college is the skill and knowledge of our staff and we encourage them to develop both professional and personal skills as well as knowledge appropriate to their role. Forty eight faculty members from various Departments presented their respective Seminars on various technical and other topics. They shared their new learning with all the faculty members of different departments slowly bringing about a major qualitative change in academics. During the summer break, 19 faculty members of CSE & IT Department attended their seminar on various computer technologies.

Faculty's Achievements :

We also encourage the staff members to participate in various conferences, seminars, STTPs (Short Term Training Programs) and workshops so that they can continuously update themselves about the latest developments in respective branches. During the summer break many faculty members published their papers and attended various workshops:

Faculty Name	Date	Seminar/ Workshop	Venue
Mrs. Chitra Kaul	22- 26 June 09	Data Structure	Infosys, Mysore
Mr. Vijender Hooda	13 April 09	Workshop on Entrepreneurship	Galgotia College, Greater Noida
Prof. Anil Jain	13 April 09	Workshop on Entrepreneurship	Galgotia College, Greater Noida
Mr. Sachin Gupta	22 - 03 July 09	Wireless Sensor Network	NIT, Surathkal
Mrs. Abhilasha Vyas	19 July 09	PATD Approach: Mobile agent security	Chitkara Institute, Chandigarh
	20 July 09	Network Security	Chitkara Institute, Chandigarh
Mr. Vijender Hooda	20- 24 April 09	NEN Foundation Course	IMI, New Delhi
Prof. Anil Jain	20- 24 April 09	NEN Foundation Course	IMI, New Delhi
Prof. Anil Chopra	28- 30 April 09	ISO 9000:2000 Series	IIQM, Jaipur

Ms. Megha Goel has successfully completed her M.S. from BITS Pilani in July 2009.

Seminars :

CSE & IT Department organized a National Seminar (NSAI'09) which was presided over by the distinguished guests and attended by the faculty of our college and from outside colleges. The day was a surfeit of technical presentations by different people. Under the benign and expert guidance of the ***Chief Convener Prof. Jitender Yadav***, H.O.D Computer Science Engineering and Information Technology, all the staff members endeavored their best to make it a memorable event.

The seminar was ***sponsored by AICTE*** and proved to be a ***"technical venture"*** in the history of Dronacharya, aiming at fostering innovation. In this seminar our faculty offered a broad range of seminars and programs on various topics. They shared their new learning with all the faculty members of different departments slowly bringing in about a major qualitative change in academics and practice. ***Prof. Supriya Panda, Prof. Anil Jain, Mr. N. K. Tyagi, Ms. Pooja Kamra, Ms. Manisha Saini*** and many others gave their seminars on ***"Artificial Intelligence and Fuzzy Logic"***, ***"Facial Recognition"***, ***"Data Mining and its Applications"***, ***"Speech Recognition and its Synthesis"*** etc.

Campus Placements :

The global recession could not stop our brilliant students from getting placed in some of the national and multinational companies. CSE/IT Department has been actively engaged not only in disseminating information of job opportunities in the public and private sectors for getting our students placed there but also in making our students well equipped to face and clear any interview. In the last six months so many students got placed in very good companies. Some of them are as follows:

Integrated Digital System
- Madhvi Gupta
- Swati Tripathi

Regal Infocom
- Abhishek Yadav
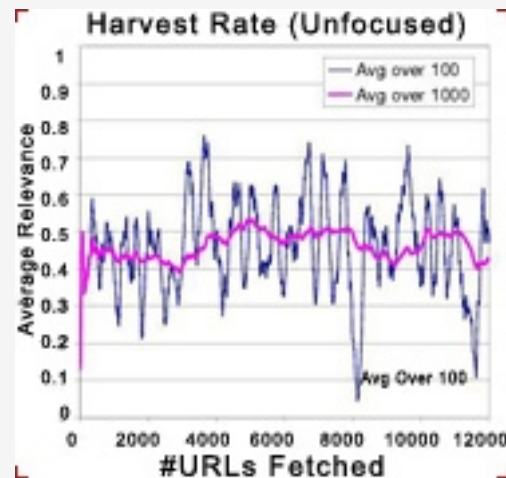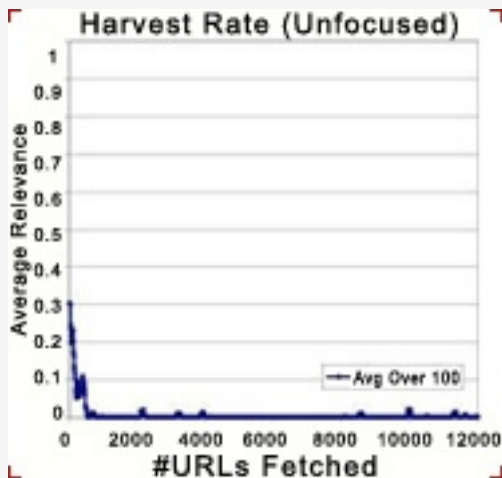- Pankaj

Blue Star Technologies
- Neha Malik
- Prateek
- Bharat Jain
- Sudhir Suri
- Sonal Maskeen

Live Projects Undertaken By Students :

Web Spider

The objective was to build a customized multithreaded, focused crawler. This will crawl the web, based on the relevance of the web page, reducing thereby the crawl space and searching for the required page efficiently. The world-wide web, having over 350 million pages, continues to grow rapidly at an amazing pace of a million pages per day. About 600 GB of text changes every month. Such a tremendous growth and flux poses basic limits of scale for today's generic crawlers and search engines. In spite of using high-end multiprocessors and exquisitely crafted crawling software, the largest crawls cover only 30-40% of the web, and refreshes take weeks to a month. With such unprecedented scaling challenges for general-purpose crawlers and search engines, we propose a hypertext resource discovery system called a Focused Crawler.

The goal of a focused crawler is to selectively seek out pages that are relevant to a pre-defined set of topics. The topics are specified not using keywords, but using exemplary documents .

Software Used:
The feasibility of the developed software developed can be stated as under:

- The new application requires Net beans1 (advanced compiler of Java)

- JDBC- ODBC bridge to create a link between Java application and data stored

Hardware Used :
The present hardware setup of the organization may be sufficient for running the software applications to be developed. The hardware feasibility of the software developed is as under:

- Servers used to manage the application

- High bandwidth for faster parsing of data

Team Members

Divya Walia
8025

Lavina Yadav
8037

Rahul Kapoor
8064

Folder Security System

The Project ***"FOLDER SECURITY SYSTEM" got second prize in the project completion held by the Faridabad Industrial Association (FIA)***. This project shows the way to stress the security at basic level. It is a product development project based on Java. The folder security system helps us to change the 'icon' and the 'path' of folder that we have on our system.

This project is simply to provide the basic necessity of students, teachers, employees, anyone and everyone. With a little bit of cryptography and encryption techniques and normal Java awt and swings we were able to make this project. Seeing the requirement of security in today's mad rat race this was our thinking to put our share of going forward.

Team Members

Aditi Thakran
8273

Kalpana
8294

Ashish
8278

Technology Focus :

EDGE TECHNOLOGY

EDGE stands for **Enhanced Data rates for GSM Evolution** (or IMT Single Carrier (IMT-SC)). EDGE is considered a 3G radio technology and is part of ITU's 3G definition. EDGE is the most talked about technology in mobile communication technologies in recent times and it turned out to be the evolution of most widely used GSM technology. EDGE technology facilitates better data transmission rates with improved spectrum efficiency and the best part of EDGE is capability of supporting new applications and improved mobile communication capabilities. EDGE can also be known as extended version of GPRS. Therefore it is also called EGPRS.

EDGE is a way to achieve better data rates on GSM networks. EGDE is add on to GPRS network and can not work alone. It works with the new modulation techniques and new channel coding that is used for both Packet switch and circuit switch voice and data networks. Today EDGE is supported by all major chip vendors for both GSM and WCDMA/HSPA.

EDGE technology can deliver three times faster bit rate ratio compared to GPRS in given time. This is how EDGE transmits at a better rate. GPRS can transfer data at the rates of 115 kbps theoretically and up to 160 kbps on physical layer, whereas EDGE/EGRPS can transfer up to 384 kbps on physical layer and 473.6 kbps theoretically. The Latest modulation and error tolerant transmission methodologies with help of mechanism of improved link adaption have made rates of EGPRS/EDGE possible. This has enabled improved spectrum efficiency and usability of modern applications like Wireless Internet, Emailing, File Transferring and video calling.

Student's Viewpoint About The Department :

"Blending tradition with modernity" - truly summarizes what Dronacharya College of Engineering is all about. Located amidst the serene environment, its magnificent building looks like a beautiful palace where everyone is poised for absolute success. In today's competitive world it seems highly imperative to maintain high level of professional competence by continually upgrading one's skills and knowledge. Dronacharya College of Engineering helps develop those abilities by providing ample opportunities and the grooming required for the young enthusiasts. The Departments are well-organized and the Faculty members are ever supportive. Thus, a balanced fusion of the best of Indian and Western patterns have helped to nurture a generation of progressive young men and women, forging ahead in life with strong human values to face any challenge, with courage and confidence.

Apart from proven track records of excellence in academics, the Dronacharyians have shown their inclination towards a variety of co-curricular activities and sports. This institution helped me believe in rising above the crowd by doing ordinary things in an extraordinary way.

Sonal Maskeen
(Roll No. 8079)

Dronacharya College of engineering has been a path for accelerating our academic growth as well as over all personality development. It strives to continuously improve quality of education to nurture our talent to enable us to venture upon a successful career ahead. It stimulates our creative thinking and inculcates a spirit of leadership in us.

The college has highly qualified and experienced faculty. Everyone provides a constant support, help and encouragement. HOD and all faculty members of my department (CSE & IT) are very supportive and helpful. They listen to all our problems and make it a point to find a solution to it. Their connection with the students is excellent.

Vibhutee Kohli
(Roll No. 9330)

The term **"perfection"** is actually used to designate a diverse range of kindred, concepts. Success is a dream for every single being. Growth is success which is the common denominator among the staff and students of the CSE/IT department. Under the guidance and supervision of our **HOD Prof. Jitender Yadav** the Department excels in every field of placements, university ranks, discipline or talent. Every faculty member contributes equally for the welfare of the students helping them in their full-fledged growth. With the perfect blend of dedicated teachers and hardworking students the CSE/IT Department is truly an asset to Dronacharya College of Engineering.

Richa Mehta
(Roll No. 9313)

Dronacharya College of Engineering is a place where pebbles are polished and diamonds chiselled. Countless efforts of our Faculty members motivate, in spite of countless falls, the power enables every student to soar higher in academics and other aspect of life. A combination of high qualities like patience, tact, persistence, unruffled nature, initiative and courage of the faculty members makes us successful students. This is very true since our teachers not only help in academics but also support us morally. Blessings of our parents and teachers, God's Grace, well-planned hard work and support of my friends helped me to come out with bright colours of success in these two years. My conviction is that success is not a matter of luck. Success depends on adequate preparation and indomitable determination.

Deepak
(Roll No. 9283)