



Poornima IRIS

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The official newsletter of Department of Information Technology,
Poornima College of Engineering



April 4th, 2012

Message from Dignitaries

Special points of interest:

- Android Development
- Consume less energy with blade servers
- Without you there is nothing
- The Behavior and Pattern Analysis using Chi-Square Techniques

VISION

We share the vision of sharing our intellectually vigorous community of students and faculties together engaged in research, teaching and learning that advance in knowledge in diverse areas of Information Technology and support current progress in respective fields.



Dr. S.M. Seth
Chairman, PGC & PJ F,
(Former Director, NIH,
Roorkee)

I am highly delighted to know that the Information Technology Department of PCE is releasing its even semester Newsletter "IRIS". It is an appropriate platform for showing the achievements and ongoing activities of the Department. Information Technology is starting to spread further, in areas of education and health as well as law and order. New challenges are emerging in communication and cyber security. It is advisable for students to go one extra step ahead and acquire necessary knowledge, competence and skills to grab such opportunities and achieve success.

I congratulate all the faculty members and students who have worked hard to bring out this Newsletter with interesting and useful details

"Jai Jai Poornima Sansthan"



Shri Shashikant Singhi
Director General, PGC

I would like to send my hearty congratulations to the IT department for developing values and work culture among the students and helping them to excel not only in academics but also emerge as responsible citizens. I am supremely confident that this newsletter will reflect the significant achievements and contributions of faculty members and students

I wish the students and faculty members of the department a great success in coming future.

"Jai Jai Poornima Sansthan"



Dr. R.P. Rajoria
Campus Director, PCE

This newsletter brings students and teachers on one platform, providing an outlet for shared feelings, expressions, views and achievements. I also welcome our new incumbents. We are proud to have you with us. I see talent, energy, and dedication that will allow us to make the changes necessary to enable our college to be seen as we have always seen it as a symbol for the quality education. We've done well, however, we now find ourselves at a point where we are able to go from "good to great." We are heading for a transition that can revitalize who we are and what we do. Our IT students are working very hard and have a winning edge over other students. I wish the department will work for making a sustainable progress and achieve grand success.

"Jai Jai Poornima Sansthan"

Faculty Coordinator:

Ms. Meenakshi Nawal

Ms. Garima Goyal

The Editors:Akanksha Sharma (4th year)Saloni Srivastav(3rd year)Devyani Rohira(2nd Year)Aakash Shrivastava(2nd Year)

"Ambition is the germ from which all growth of nobleness proceeds. "
Oscar Wilde

Mission

The department is concerned with the theory, development and application of information processing techniques. The mission is to educate undergraduate and graduate majors as well as broader campus community of the fundamental concepts of computing discipline, to create and disseminate Information Technology and to use expertise in computing to help the society in solving the problems.



Dr. Om Prakash Sharma,
Principal, PCE

Whenever you see a Successful Person, You see the Public Glories,
Cannot see the Sacrifices for that Success.

I am glad to convey my message through this news letter on the occasion of department day to all faculties, staff and students of Department of **Information Technology.**

I want to greet all newly joined faculties and staff members who are working hard to keep-up the moral of all the students.

Dear students keep doing a thing till you get mastery over it. Never think that anything is impossible. Your mind has infinite potential. It is simply your will to do a task which matters. With positive mind and attitude, you can readily access the information you have stored in your mind. Training and exercise are tools to program your mind in a way that you can use it when it is needed. It is the **power of mind** that has done wonders by winning the most coveted prize in the world.

Try to develop positive mindset and attitude, so that a value based success is yours.

A quotation for all my budding technocrats

"Ever tried. Ever failed. No matter. Try again. Fail again. Fail better."
– Samuel Beckett

Till next newsletter all the best!



Mr. Ajay Khunteta,
Assistant Dean CS & IT

It's a matter of great pleasure for me to convey my message to the faculties and students of IT department through this Newsletter. I hope that this Newsletter will play a useful role to provide an opportunity of expression to the Faculty members and the students.

I wish the students of IT Department a great success for their multi dimensional development.



Dr. Sumit Srivastava,
HOD, IT, PCE

I am extremely happy to have this opportunity of giving my message for the IT Department newsletter for the Even Semester 2011-12. Apart from imparting technical education pertaining to the subjects mentioned in syllabus, the objective of education is to train the young minds to realize their true potential. Additionally, good education inculcates common values such as punctuality, following rules, cooperation, capability to work in a team, civic sense etc. into a student. The combination of knowledge and skills as well as the common values helps young students to bloom into adults and become responsible and productive citizens.

We, the faculties and technical staff of IT department are trying our best to impart technical knowledge to our students and to inculcate in them some values so that they become successful in life.

I wish all the faculties, technical staff and students of IT Department success and a bright future ahead.

Workshops

- Expert Talks by Dr. Deepak Garg, Dr. Anil Kumar and Dr. Rajesh Kumar in National Workshop on Knowledge Mining and its methods on 24th December 2011
- Interaction & Discussion of 'Indian Economics' with Mr. Tushar Saraswat, RAS Officer on 5th January.
- National Workshop on 'Pervasive Computing using Cloud Architecture' by Dr. Rahul Banerjee on 21st January 2012
- Seminar on 'Placement Issues & Foreign Countries and EMR in Health Industries' by Mr. Vijay and Dr. Ritu on 2nd February 2012.



Activities

- **Republic Day 2012**

1. Group Dance Performance by Arushi Jain, Anukriti Agarwal and Rakhi Khandelwal of 2nd year.

- **Prayogam 2012**

Total 54 projects made and displayed in the exhibition as under:

4th Year: 26 projects

3rd Year: 20 projects

2nd Year: 9 projects

- The project of Prashant Jhajhria, (4th year, IT) under the guidance of Ms. Garima Goyal was successfully completed and submitted to Department of Science and Technology (DST), Rajasthan



Faculty and Student Contribution in Aarohan 2K11

• Website for Aarohan 2K11 developed by IT Department, PCE under the guidance of Dr. Sumit Srivastava (HOD, IT). Members of the team were Shambhulal Verma (4th Year, IT), Bharat Jangir (4th Year, IT), Ankur Aggarwal (4th Year, IT) and Rahul Yogi. (4th Year, IT)

• Ms. Garima Goyal (Asst. Prof, IT) and Poonam Malpani (4th Year, IT) was the member of Core Planning & Monitoring Group of Annual Cult-Tech-Fest- 'Aarohan 2K11'.



Winners of Aarohan 2k11



CATEGORY	YEAR	PARTICIPANT NAME	POSITION
ACT IT OUT	III	Nidhi	FIRST
		Preeti Gupta	
		Ankita Rathore	
FASHION SHOW	IV	Rajat Arora	SECOND
		Vivek Sharma	
		Ramneek Sidhu	
FASHION SHOW	IV	Prashant Jhajharia	FIRST
		Tanay Sharma	
		Geeti Parashar	
		Arjita	
		Rajat Jain	
	III	Ritu Jain	
		Neha Sharma	
		Rupal Varshney	
		Rahul Sharda	
		Nishtha Sharma	
CASE STUDY	IV	Shipra Panwar	FIRST
		Akanksha Sharma	
SPELL BEE	III	Anupriya Bhatnagar	FIRST
		Yashti Taneja	
TABLE TENNIS	II	Aashita Gupta	SECOND
		Avtar Kishore	
MIME	III	Gaurav Sharma	SECOND
		Abhishek Garg	
		Shifali Gupta	
		Shweta Rana	
	IV	Akanksha Sharma	
		Ankur Sekra	
		Binderpal Kaur	
		Rajat Jain	
BASKET BALL	IV	Tanay Sharma	RUNNER UP
		Prashant Jhajhria	
		Gaurav Choudhary	
		Amit Kumar	
	III	Ankur Agarwal	
		Rahul Yogi	
		Akshit Upneja	
BEST OUT OF WASTE	II	Siddarth Singh	FIRST
		Kashyap Dave	
		Ankit Jain	
BEST OUT OF WASTE	IV	Peeyush Kandoi	FIRST
		Rahul Choudhary	



Industrial Tour

A Four day Industrial Tour of Udaipur from 19/02/2012 to 22/02/2012 was organized for 3rd Year students. Under the able coordination of Ms. Swati Jain, Ms. Pragya Dani and Mr. Abdul Wasim, (Faculties of IT Department) students visited the following four companies and met their concerned individuals:

- Mr. Prem Vyas at Secure Meters
- Mr. Sudharshan(Production Officer) at PyroTech
- Mr. Shubhanka Das at Wolkens
- Mr S. L. Gandhi at Friends Engineering Works.



Pillars of IT



Dr. Sumit Srivastava(HOD)

Ms. Shazia Haque

Ms. Swati Jain(Dy. HOD)

Ms. Garima Goyal

Ms. Meenakshi Nawal

Ms. Piyusha Tiwari

Mr. Abdul Wasim

Ms. Pragya Dani

Ms. Archana Phutela

Mr. Lokesh Vijay

Mr. Devendra Mittal

Mr. Mohit Jaiswal



Welcoming Our New Faculties

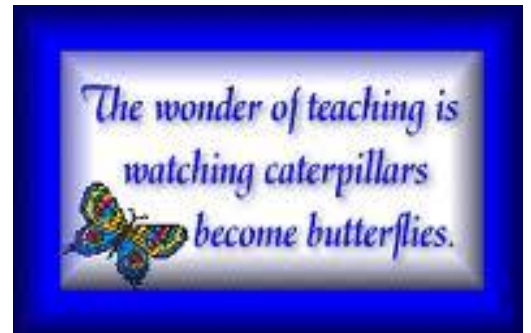
Ms. Archana Phutela

Mr. Lokesh Vijay

Ms. Pragya Dani

Mr. Mohit Jaiswal

*“Small minds discuss people
Average minds discuss events
Great mind discuss ideas”*



Faculty Felicitation

FACULTY NAME	SUBJECT	STARS
Dr. Sumit Srivastava	Electronic Design Automation	**
Ms. Shazia Haque	Database Management System	**
Ms. Garima Goyal	Advanced Data Structures Information Protection and Security	** **
Ms. Swati Jain	Object Oriented Programming Multimedia Systems	* **
Ms. Kavita Bhatt	Computer Graphics	**
Ms. Shikha Shrivastava	Operating System Real Time System	** **
Ms. Preeti Khandelwal	Data Structures & Algorithm	*
Mr. Upendra Sharma	Computer Architecture	**
Mr. Govind Yadav	Object Oriented Programming	**

Faculty Felicitation Program was organized on 26th January 2012. Under this scheme the listed faculty members were felicitated and awarded ** and * for their dedicated teaching in their respective subjects.

Gems of IT

6th Semester

<i>Poonam Malpani</i>	83.6%
<i>Anuj Sharma</i>	83.5%
<i>Shefali Gupta</i>	81.8%



Don't judge yourself by
what others say about you.
Be your own Mirror.



4th Semester

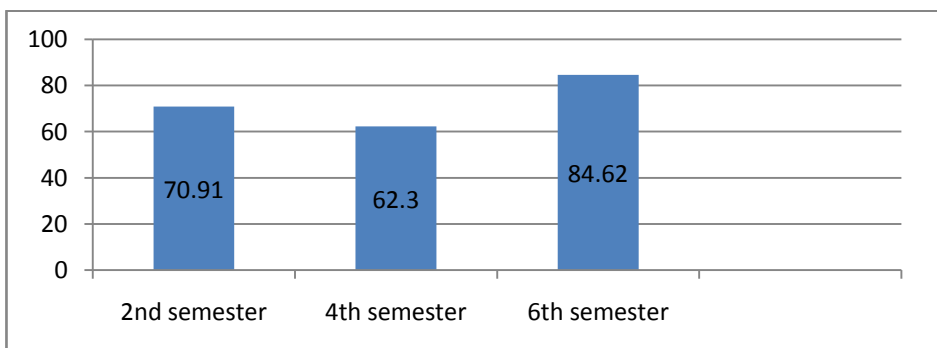
<i>Swati Kumari</i>	80.9%
<i>Dharmender Sharma</i>	80.2%



2nd Semester

<i>Nishtha Sharma</i>	82.90%
<i>Anukriti Agarwal</i>	81.50%
<i>Niharika Suthar</i>	80.10%

Overall Percentage



WINNERS are not the
people **who fail**
But are the people who
never quit.

Our Alumni

- Interaction with 2nd year students on 10th Feb 2012 by Somya Saxena and Abhinav Shrivastava (2005 Batch)
- Jaipur Alumni meet was held at Arbuda Convention Centre on 7th January 2012

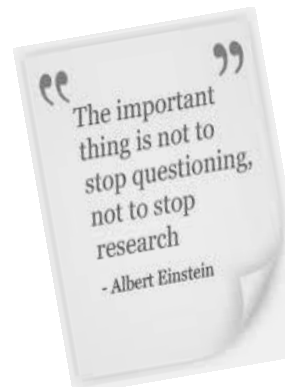


Research & Development

A one-day Workshop on RESEARCH METHODOLOGY was held on 29th February 2012.

The following experts were present in the workshop:

- Dr. S. S. Limaye
- Dr. J. L. Sehgal
- Dr. J.P. Modak



Papers Published

- Srivastava Sumit(Dr.), Yadav Megha, Devra Sandeep, "Application of Decision Tree in Analysis of Intra College Festival Data set", in "International Journal of Computer Society Issue", Vol-1, Issue 1, IJCSI-2012-6-2-13, ISSN (Online): 1694-0814, January 2012
- Srivastava Sumit (Dr.) Kushwaha H.S., Tanwar S., Rathore K.S., "De-noising Filters for TEM (Transmission Electron Microscopy) Image of Nanomaterials" in "International Conference of Nano-materials and Communication Network", Jan 6- Jan 8, 2012, Paper Published by IEEE Conference Publication Society(CPS).
- Patidar Pawan, Srivastava Sumit(Dr.), "Performance of Wiener and Fuzzy Filter in Image Denoising", National conference on "Emerging Technologies in Computer Science Engineering"(NCETCE) in SKIT, Jaipur, November 26th, 2011
- Jain Swati, Srivastava Sumit(Dr.), "Business Intelligence-Advancement to Rural Sector", National Conference on "Business Strategies and Economic Growth: The Way Forward" at Poornima School of Business Management, February 17th-18th, 2012.
- Pawan Patidar, Dr. Sumit Srivastava, Manoj Gupta, Ashok Kumar Nagawat, "Image De-noising by Various Filters for Different Noise" in "International Journal of Computer Applications (IJCA)", Volume 9- No.4, November 2011
- Dr. Sumit Srivastava, Dadheech Pankaj, "Load Balancing using High Performance Computing Cluster Programming" in "[International Journal of Computer Science Issues\(IJCSI\)](#)" Volume 8, Issue 1, IJCSI-2011-8-1-75, January 2011
- Srivastava Sumit(Dr.), Dadheech Pankaj, Choudhary Neelam, "An Approach for Performance Tuning using High Performance Computing Cluster Programming" in "1st International Conference on Adaptive Computer Technologies in Various Engineering Application(ICACTEA-2011)", Feb 24-26, 2011, Jaipur.

Placements

Infosys®

Infosys

- Abhishek Garg
- Gaurav Sharma
- Kapil Bhatia
- Kritika Goyal
- Piyush Kandoi
- Shikha Gupta



Wipro BPO

- Anupriya Bhatnagar
- Harshita Verma
- Kritika Goyal
- Parth Goyal
- Prashant Jhajhria
- Shikha Gupta
- Tanay Sharma

GATE 2012 QUALIFIERS

- | | |
|-------------------------|-------|
| • Ashish Agarwal | 95.74 |
| • Bharat Kumar Jangir | 81.94 |
| • Gaurav Sharma | 92.94 |
| • Kritika Goyal | 87.20 |
| • Kumar Satyam | 82.00 |
| • Narendra Kumar Jangir | 92.94 |
| • Poonam Malpani | 96.35 |
| • Rahul Gupta | 87.20 |
| • Robin Kumar Singh | 93.95 |
| • Rohan Khanna | 91.10 |
| • Surai Kunwar | 88.70 |

GATE 2011 QUALIFIERS

- Shefali Gupta 89.7
- Gaurav Sharma

Indian Army, SSB Qualifiers

- Akanksha Sharma
- Anupriya Bhatnagar
- Shweta Rana



"Be like a rising sun which is valuable for everyone"



Steria Pvt. Ltd.

- Akanksha Sharma
- Sumit Jain

Indian Navy, SSB Qualifiers

- Amit Kumar
- Amit Sain
- Anuj Sharma
- Gaurav Sharma
- Kumar Satyam
- Robin Kumar Singh
- Rohan Khanna
- Sumit Jain

Abhishek Mohil, 4th year has completed the certification courses of RHCSA (Red –Hat Certified System Administrator) and RHCE (Red- Hat Certified Engineer)



"SAVE WATER" - Be a part of solution & not the Pollution

Faculties' Corner

The Behavior and Pattern Analysis using Chi-Square Techniques

The past two decades has seen a dramatic increase in the amount of information or data being stored in electronic format. This accumulation of data has taken place at an explosive rate. It has been estimated that the amount of information in the world doubles every 20 months and the size and number of databases are increasing even faster. The increase in use of electronic data gathering devices such as point-of-sale or remote sensing devices has contributed to this explosion of available data. It was recognized that information is at the heart of business operations and that decision-makers could make use of the data stored to gain valuable insight into the business. Database Management systems gave access to the data stored but this was only a small part of what could be gained from the data. Traditional on-line transaction processing systems, OLTPs, are good at putting data into databases quickly, safely and efficiently but are not good at delivering meaningful analysis in return. Analyzing data can provide further knowledge about a business by going beyond the data explicitly stored to derive knowledge about the business. This is where Data Mining or Knowledge Discovery in Databases (KDD). The two disciplines of *statistics* and *data mining* have common aims. In that both are concerned with discovering structure or modeling in data. Indeed, so much do their aims overlap, that some people (perhaps, in the main, some statisticians) regard data mining as a subset of statistics. This is not a realistic assessment. Data mining also makes use of ideas, tools, and methods from other areas -especially computational areas such as database technology and machine learning - and is not heavily concerned with some areas in which statisticians are interested.

By: Dr. Sumit Srivastava

HOD, IT

Students' Corner

Android development: The open source application platform

Android is a complete operating environment based upon the Linux® V2.6 kernel. Initially, the deployment target for Android was the mobile-phone arena, including smart phones and lower-cost flip-phone devices. However, Android's full range of computing services and rich functional support have the potential to extend beyond the mobile phone market.

The BlackBerry is rock-solid for the enterprise business user. For a consumer device, it's hard to compete with the iPhone for ease of use and the "cool factor." Android, a young and yet-unproven platform, has the potential to play at both ends of the mobile-phone spectrum and perhaps even bridge the gulf between work and play.

The Android platform is the product of the Open Handset Alliance, a group of organizations collaborating to build a better mobile phone. The group, led by Google, includes mobile operators, device handset manufacturers, component manufacturers, software solution and platform providers, and marketing companies. From a software development standpoint, Android sits smack in the middle of the open source world.

The first Android-capable handset on the market was the G1 device manufactured by HTC and provisioned on T-Mobile.

Android boasts a healthy array of connectivity options, including WiFi, Bluetooth, and wireless data over a cellular connection (for example, GPRS, EDGE, and 3G). A popular technique in Android applications is to link to Google Maps to display an address directly within an application. Support for location-based services (such as GPS) and accelerometers is also available in the Android software stack, though not all Android devices are equipped with the required hardware. There is also camera support.

The fact that it is open platform the android SDK and use simplicity ,once a developer start his/her android introduction in few days the programmer can start working and develop an android application into android market .

By: Anannya Saxena

II yr I.T

Without You there is Nothing

Losing our "self" can happen to anyone. It happens to people who work for an employer for many years, to people struggling to make their own business successful, or to someone who is caring for a sick relative. It is so easy to put your "self" off while serving someone or something else. We then feel trapped by the circumstances.

One idea is to find ten activities we feel good about, that give us energy and that I want to do on daily basis. Not the things anyone told us to do but the things that we want to do because they make us feel better. Stretching each day when you wake up, reading a novel or other entertaining material for 20 minutes during the day, writing in a journal, and listening to music. All the things one never seems to get to but wants to. At first it seems like adding one more burden to you already busy life. But, the result is a peaceful happy feeling that gives us more energy and excitement in our approach to whatever else we do during the day.

Is it selfish for us to put ourselves first in this way? Sure it is. If we do not care about ourselves first and foremost it is very hard to be giving to others. When we satisfy our own needs and desires then it so much easier to be generous with others. Rather than feeling deprived and resentful. Positive attitude translates one into a happier healthier person. These habits along with the many other experiences we have had will transport us forward towards our next stage. Since transitions or exits will continue to be a part of all our lives, it is important to learn to move through them gracefully, with excitement and anticipation.

By: Shruti Bharadwaj
II yr, I.T

Consume less energy with blade servers

"In this extremely competitive market, well-informed business owners know that reducing power consumption is a smart and environment friendly way to cut operating expenses without reducing product quality or employee output. Switching IT processing to Blade servers can save money while increasing productivity.

Improved Design

Traditional rack servers bundle components into individual cabinets along with separate energy consuming devices like graphics cards and keyboards. Each server requires a power source and extensive cabling and patching. A single optimized blade system can replace an entire room of rack servers and operate from a solitary source of power. The innovative design improves the effectiveness of internal fans and cooling systems, reducing current draw by as much as 65%. Since a single cabinet houses an entire block of servers, the need for external cooling systems or "cold rooms" drops as well.

A blade server can comfortably maintain information and applications that were formerly housed in a dozen or more rack servers. Standard servers that run only one application often operate at or below 20 percent capacity. Blade systems maximize efficiency by ensuring that each server component is working to its full capability. By allowing systems and applications to network freely between servers, blade systems increase productivity and eliminate unused or underutilized CPU storage space. Data transfers easily between machines. Once configured, individual components can be removed, repaired and/or replaced while the system is fully operating, decreasing the need for shutdowns.

Increased IT Performance

Blade systems are easy to install, manage and maintain. Switching to a virtualized blade server limits end user responsibility, employee calls to IT, and the resulting time consumed in solving simple operator errors. Since they successfully integrate interfaces among many servers, blade systems also reduce the time spent in updating or installing new software and in reconfiguring applications.

By: Ritu Jain
IIIYr. IT