



POORNIMA IRIS

Official Newsletter of Department of Information Technology,
Poornima College of Engineering

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Message from the Dignitaries



Dr. S.M. Seth

Chairman, PGC & PJ Foundation, Chairperson, Poornima University (Former Director, NIH, Roorkee)

I am highly delighted to know that the Information Technology Department of PCE is releasing its Newsletter "POORNIMA IRIS". It is an appropriate platform for showcasing the achievements and ongoing activities in the Department.

For the young budding technocrats, I would like to quote "*.....let our education be moving from college curriculum to life curriculum, from information to transformation, from knowledge to wisdom, from competition to cooperation, from division to unity, from selfishness to generosity, and finally how to make a living to HOW TO LIVE WELL*".

I would like to advise the faculty, staff and students that they must define their aim, set targets and work with full commitment and dedication to achieve it. I congratulate all the faculty members and students who have worked hard to bring out this Newsletter with interesting and useful details.



Mr. Shashikant Singhi,
Director General, PGC

With great pride and pleasure I pen these words on the blissful occasion of the publication of newsletter of IT department of Poornima College of Engineering.

It is quite gratifying to note that the department has been working with full allegiance and dedication for achieving set academic/non-academic targets. Success will never lower its standard to accommodate us. So we have to work hard to achieve it. I feel beamed to fan out my message to students that "Experience is a hard teacher but it gives the test first, lesson afterward". With high hopes and sanguinity I wish all the very best to the students and wish that they would successfully face all the impediments of the real world and grow out to become valuable citizens of our country. May God bless all!!



Dr. R. P. Rajoria,
Director, PCE

Newsletter is a mirror which reflects both, academic and Para-academic achievements of students and faculty members. It's delightful to know that the Information Technology Department is bringing out its bi-annual newsletter "Poornima IRIS". It is an exciting activity for both students and faculty to exhibit their skills and abilities. It will always be our earnest endeavor to fulfill every commitment bestowed on us and at the same time empower every student with courage, conviction and moral strength. It gives me immense pleasure to congratulate the Newsletter committee for their immeasurable efforts in coming up with such an avow newsletter. We have always incited our students to work in the favor of technology, to come up with discoveries and to enrich them with modern advancements in technology. I convey my heartiest greetings for the publication.

Faculty Coordinator:

Ms. Sonakshi Mathur

Student Coordinator:

Saloni Srivastav, 4th year
Ankita Kumari, 3rd year
Rakhi Khandelwal, 3rd year
Gazal Saxena, 2nd year
Palak Bohra, 2nd year
Vaibhav Kumar, 2nd year

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.

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.

"It doesn't matter who you are, or where you came from. The ability to triumph begins with you.

Always."

~Oprah Winfrey



"Life may not be Good Enough, But A Good Life is Long Enough."

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**.

Dr. Om Prakash Sharma
Principal, PCE

Dear Students, It's a common saying "Common sense is instinct, Enough of it is genius". It is your common sense which makes you aware of the option that you might not thought of otherwise. You should use your common sense to set your goal. If you have set your goal, strive hard to achieve it and the success will be yours. **Taking excuse for not doing things is very easy, equally easy is finding reasons, ways and means for doing it.** If you are determined to work hard to achieve your goal, nothing in this world can deter you from achieving your goal. However if at the outset you fail to get your goal, figure out whether something change needed in your set goal as per your potential. Again work with great vigor you will definitely achieve your goal. Try to develop positive mindset and attitude, so that a value based success and goal can be achieved.

A quotation for all my budding technocrats

"Life is not easy for any of us. But what of that? We must have perseverance and above all confidence in ourselves. We must believe that we are gifted for something and that this thing must be attained."

– Marie Curie

Till next newsletter all the best!

Jai Jai Poornima Sansthan!!



Ms. Swati Jain
HOD, IT, PCE

"Education is not a destination but a journey."

Change is often hailed as the only constant in this world of uncertainties. Another constant however, is the fact that education is a lifelong investment towards preparing us for change the future may hold. Our mission is to pursue education without sacrificing excellence. Our endeavor is to make the students realize that their future depends on the sincerity of their efforts in developing their potential and above all acquiring outstanding and upright characters. I wish all my students a great success with brightening and glittering future. I deeply appreciate the efforts made by the entire faculty as well as students in presenting this newsletter



Mr. Shirish Nagar
Deputy HOD, IT, PCE

"The true sign of intelligence is not knowledge but Imagination"

As quoted above by Albert Einstein, an Engineer should not only carry knowledge, but also emphasize an imagining and creating new things. Our newsletter of Information Technology department is a stepping stone in this direction and I'm extremely happy and honored to be a part of it.

SEMINAR & WORKSHOP

IBM Workshop: This workshop was held from 15th March to 17th March, 2013. It was headed by Mr. Ashutosh Tiwari. Total thirteen students from third year participated in it.

IBM DB2 Workshop: A 3-day Workshop was held from 20th to 22nd October, 2012. The workshop was organized by Mr. Puneet Mathur and Mr. Nouman Khan for students of CS/IT.

Networking workshop: A Networking workshop was conducted for third year students of CS/IT on WiFi technology from 25th to 27th October, 2012. The workshop was organized by Mr. Mahesh M. Bundele and Mr. Pustake interacted with the students.

Network Simulator-2 : A 3-day Workshop on Network Simulator-2 from November 3-5, 2012 was conducted at Poornima University Campus, in association with Institution of Engineers India, for faculty members and M.Tech students. This workshop was organized by Mr. Mahesh M. Bundele. Mr. Shirish Nagar, Mr. Pankaj Jethwani and Ms. Archana Phutela attended the workshop from IT Department.

Aakash-2 Tablet Workshop: A 2-day national workshop was held for Aakash-2 Tablets on 10th and 11th November 2012 on behalf of ISTE and IIT Bombay for faculty members. The workshop was organized by Dr. Ajay Khunteta for Poornima Group of Colleges. Faculty members of IT Department attended the workshop.

PMKEP Sessions: Poornima Minimal Knowledge Enhancement Programme sessions were aimed to enhance the minimum knowledge of an engineering student at PCE. Sessions have been conducted on 16th February and 27th February 2013 regarding the Scripting languages, Version Control and Hardware Components of Computer Systems. These sessions have been taken by Mr. Shirish Nagar in II year IT. He is also the overall coordinator at PCE for PMKEP.

Drupal Talk: Industrial Expert Talk for III year IT was conducted on Friday, 15th March 2013 from 9.30 am to 11.30 am. Expert Talk was given by Mr. Piyush Mathur from Onsoon Varsity Inc. on the topic "What is Drupal?" 43 Students of III year attended the session in which they were given basic knowledge of Drupal, which is a content management system.

Industrial Visit: It was conducted on Monday 25th March 2013 from 11 am to 1 pm for the students of III year IT. The students visited Compucom Software Limited and were informed about the ongoing projects in the firm.

Entrepreneurship Workshop: This workshop was organized from 13th March to 19th March, 2013. It was headed by Mr. Sunil Gupta and Mr. Indrajeet Kapar. Total fourteen students from fourth, third and second year participated in it.

Microsoft Session: It was conducted on 6th March, 2013 for III year students by Mr. Sandeep Singh who is working in Microsoft IT Solutions.

Induction Training Program: It was conducted by NITTTR, Chandigarh from 4th March to 8th March, 2013. This workshop was attended by Mr. Devendra Mittal.

OTHER ACTIVITIES

Republic Day Celebration: It was celebrated on 26th January, 2013. Flag hoisting followed by few cultural activities was held. Kashyap Dave and Akash Srivastav sang a patriotic song on the occasion.

Women's Day Celebration: Students as well as Teachers celebrated this wonderful day very enthusiastically. Poster Making Competition was organized along with various other events.

Prayogam: The project exhibition was organized from 11th March to 12th March, 2013 in order to exhibit the practical skills of students. Total 40 projects under software interface category were displayed from department and two projects win the competition.

PILLARS OF IT

Ms. Swati Jain (HOD)

Ms. Shazia Haque

Mr. Shirish Nagar(Dy. HOD)

Ms. Piyusha Tiwari

Mr. Saurabh Anand

Ms. Sonakshi Mathur

Mr. Manish Prajapati

Mr. Anant Bhatt

Ms. Priyanka Hada

Ms. Sita Gupta

Mr. Devendra Mittal

Mr. Mohit Jaiswal



Faculty Incentives

Star	Faculty	Subject
**	Swati Jain	Software Project Management
**	Gajendra Chaudhary	Computer Graphics & Multimedia Techniques
**	Shruti Aggarwal	Data Mining & Ware Housing
**	Rohit Jain	Data Mining & Ware Housing
**	Garima Goyal	Intelligent System
**	Dr. Sumit Srivastava	Internet Programing
**	Meenkshi Nawal	Mathematics III
**	Abdul Wasim	Wireless Communication & Networks
*	Piyusha Tiwari	Management Information System
**	Upendra Sharma	Operating Systems
**	Swati Jain	Advanced Data Structure

We Welcome

Ms. Sonakshi Mathur

Mr. Manish Prajapati

Mr. Anant Bhatt

Ms. Priyanka Hada

Ms. Sita Gupta

*If you want the
rainbow, you've
got to put up
with the rain."*

- Dolly Parton

Placement 2013 Batch

<u>Student</u>	<u>Company</u>
Anchal Kamra	HCL
Ajay Sirwa	Sobha Pvt Ltd
Akshit Upneja	Green Mind
Bharat Sirohia	Sobha Pvt Ltd
Geeti Parashar	HCL
Neha Sharma	Pratham Software
Ruchi Pareek	Nagarro
Saloni Srivatav	HCL
Yashti Taneja	HCL

GATE 2013

List of students	Marks
Akshit Upneja	26
Dharmender Sharma	32
Mahendar Kumawat	35
Neha Sharma	31

RESULTS

5TH SEMESTER

Name	Percentage
NIHARIKA SUTHAR	86.70
ANKITA KUMARI	83.10
AASHITA GUPTA	81.60
NISHTHA SHARMA	81.20
ANUKRITI AGARWAL	79.90



2ND SEMESTER



Name	Percentage
ARPANA SWARNKAR	84.80
AMRITA MEHRA	82.30
GAYATRI DEVI	81.40
KUMARI PRITI .	81.00
POOJA BOTHRA .	80.80

7TH SEMESTER

Name	Percentage
Saloni Srivastav	84.2
Renu Tolani	80.3
Anchal Kamra	80.2
Palak Agarwal	78.2
Yashti Taneja	78.0



Co-curricular Achievements

Name of Student	Year	Participated in	Level
Bhooshan Jogdand	2 nd	Dalal Street	Intra College
Rochak Bhavsar	2 nd	Tech. Quiz	Intra College
Nazia Azim	2 nd	Collage Making	Intra College
Vivek Kumar	2 nd	Counter Strike	Intra College
Rakhi Khandelwal	3 rd	Singing Competition	Intra College
Dharmendra Sharma	4 th	Outstanding Contribution	Inter College
Manmohan Jalora,Rakesh Kumar	4 th	Best Non-Syllabus Project	Inter College
Saloni Srivastav	4 th	Outstanding Contribution in Hostel	Inter College
Mayank Sabarwal	4 th	Arm Wrestling	Intra College
Pratham Tiwari	4 th	Chess	Intra College
Akash Shrivastava	3 rd	Poster Making	Inter College
Garvit goyal,Shazia Peepwala Rochak Bhavsar,Arpana Swarnkar	2 nd	B-Plan	Inter College

WINNERS OF PRAYOGAM

Chetan Agarwal, Rajat Jain, Ravi Vyas, Richpal S.Bhati of 4th year IT got **1st Prize** in Prayogam. Avatar Gaur, Manoj, Pankaj Swarnkar, Sneha Pant and Akash Bana of 4th year stood at **3rd Position** in the same.

MUKESH KARWASRA,
ABHIJEET RAJAWAT,
ISHAN NAGPAL AND RAHUL
TANWAR OF 2ND YEAR ,IT
WON TROPHY FOR COLLEGE
IN VOLLEYBALL MATCHES
THAT WERE HELD IN
MAHARISHI ARVIND, JNIT,
POORNIMA, KAUTILYA,
ARYA AND RIET.

Publications

Topic	Author
“Green technology, a new technological transformation that ensures environmental sustainability and reverses ecological destruction” in National Convention on Climate Change and Water held on (10 -12 Oct, 2012). The convention was organized by Suresh Gyan Vihar University, Jaipur	Ms. Swati Jain
“A survey of different learning algorithm in Artificial Neural Network and Application to Data Mining” in NCRTTWCN held from 22nd December to 23rd December, 2012	Mr. Shirish Nagar
“Cloud Computing” in International Conference of Biyani College named Techno Global held from 17th September to 21st September, 2012	Ms. Sita Gupta

ALUMNI

- ◆ An interactive session was held on 5th March, 2013 with IT 4th year students and **Mr. Ankush Mathur** currently working with Increators ICT Technology, Hyderabad and **Ms. Radhika Sharda** currently working with Viithiisys Technology Private Limited, Mohali.
- ◆ Another interactive session was held on 5th March, 2013 with IT 4th year and **Mr. Dhruv Dutta** who worked in HCL, Noida about carrier .

“You may be disappointed if you fail, but you are doomed if you don't try.”
~ Beverly Sills

SMART CLASS: Such classes are not confined to chalk and blackboard. They use the **Educom** board that provides better graphics to hold the interest of the students.

- A Smart Class was taken by Mr. Manish Prajapati in **Mobile Computing** of 4th year IT.

VIDEO LECTURES: These lectures use a more graphical medium of teaching like power point presentations and live examples.

- A Video Lecture was taken by Ms. Piyusha Tiwari in **Data Algorithm & Analysis** of 3rd year IT.
- Another Video Lecture was taken by Mr. Shirish Nagar in **TOC** of 3rd year IT.
- Another Video Lecture was taken by Ms. Priyanka Hada in **Principles of Programming Languages** of 2nd year IT.

FACULTY CORNER

BRAIN GATE

Brain Gate is a brain implant system built and previously owned by Cyberkinetic, currently under development and in clinical trials, designed to help those who have lost control of their limbs, or other bodily functions, such as patients with amyotrophic lateral sclerosis (ALS) or spinal cord injury. The Brain Gate technology and related Cyberkinetic's assets are now owned by privately held Brain Gate, LLC. The sensor, which is implanted into the brain, monitors brain activity in the patient and converts the intention of the user into computer commands.

In its current form, Brain Gate consists of a sensor implanted in the brain and an external decoder device, which connects to some kind of prosthetic or other external object. The sensor uses 96 hair-thin electrodes that sense the electromagnetic signature of neurons firing in specific areas of the brain, for example, the area that controls arm movement. The sensor translates that activity into electrically charged signals, which are then sent to an external device and decoded in software. The decoder connects to and can use the brain signals to control an external device, such as a robotic arm, a computer cursor, or even a wheelchair. In essence, Brain Gate allows a person to manipulate objects in the world using only his or her mind.

A tiny chip implant is enabling paralyzed and injured people to move objects by the power of their thoughts – and, in time, researchers hope it could help them walk again.

By:

Ms.Piyusha Tiwari

"CLOUD COMPUTING -THE NEW BIG THING!"

'Cloud' is a metaphor often used for the INTERNET. But the suffix computing gives it powers of a nuclear weapon in the world of web. The era of cloud computing has brought about a revolution. This recent trend in IT has moved computing and data away from desktop and portable PCs into large data centers.

The key driving forces behind cloud computing are the ubiquity of broadband and wireless networking, falling storage costs, and progressive improvements in Internet computing software. Cloud computing is INTERNET based computing where virtual shared servers provide software, infrastructure, platform, devices and other resources and hosting to customers on a pay-as-you-use basis. Users can access these services available on the "Internet Cloud" without having any previous know-how on managing the resources involved. Thus users can concentrate more on their business processes rather than spending time and gaining knowledge on resources needed to manage their business processes.

Currently, the main technical underpinnings of cloud computing infrastructures and services include virtualization, service-oriented software, grid computing technologies, management of large facilities, and power efficiency. Within the cloud, the laws of probability give service providers great leverage through statistical multiplexing of varying workloads and easier management-*a single software installation can cover many users' needs.* Cloud computing is a disruptive technology with profound implications not only for Internet services but also for the IT sector as a whole. Its emergence promises to streamline the on-demand provisioning of software, hardware, and data as a service, achieving economies of scale in IT solutions' deployment and operation. It definitely is the new big thing in the era of web and technology.

By:

Ms.Priyanka Hada

STUDENT CORNER

“QUANTUM COMPUTATION”

Imagine a computer whose memory is exponentially larger than its apparent physical size; a computer that can manipulate an exponential set of inputs simultaneously; a computer that computes in the twilight zone of Hilbert space. You would be thinking of a quantum computer. Relatively few and simple concepts from quantum mechanics are needed to make quantum computers a possibility. The subtlety has been in learning to manipulate these concepts. Is such a computer an inevitability or will it be too difficult to build?

In the classical model of a computer, the most fundamental building block, the bit, can only exist in one of two distinct states, a 0 or a 1. In a quantum computer the rules are changed. Not only can a 'quantum bit', usually referred to as a 'qubit', exist in the classical 0 and 1 states, it can also be in a coherent superposition of both. When a qubit is in this state it can be thought of as existing in two universes, as a 0 in one universe and as a 1 in the other. An operation on such a qubit effectively acts on both values at the same time. The significant point being that by performing the single operation on the qubit, we have performed the operation on two different values. Likewise, a two-qubit system would perform the operation on 4 values, and a three-qubit system on eight. Increasing the number of qubits therefore exponentially increases the 'quantum parallelism' we can obtain with the system. With the correct type of algorithm it is possible to use this parallelism to solve certain problems in a fraction of the time taken by a classical computer.

'Quantum computer', a computer that uses the effects of quantum mechanics to its advantage. For some time, the notion of a quantum computer was primarily of theoretical interest only, but recent developments have brought the idea to everybody's attention. One such development was the invention of an algorithm to factor large numbers on a quantum computer, by Peter Shor (Bell Laboratories). By using this algorithm, a quantum computer would be able to crack codes much more quickly than any ordinary (or classical) computer could. In fact a quantum computer capable of performing Shor's algorithm would be able to break current cryptography techniques in a matter of seconds.

By:

Swati Kumari, 4th year



By: Bharat Sirohia, 4th year

HOME SWEET HOME

There is no other place like Home
The saying goes true in India, America or Rome,
Home is one of the sweetest place
Where one finds peace and solace,
Home is a place where we dwell
A place as sacred as the temple bell,
Just as a bird returns to its nest
We return home to get a little rest,
Wherever we roam in search of enjoyment
We never fail back to come to our pavement,
Its not possible to find a home away from home
The saying goes true in India, America or Rome.

By:

Ruchi Pareek, 4th year

STUDENT CORNER

'ENGINEER' OR 'COMMONER'

It happens that while normally talking or joking, someone says something really meaningful-without meaning it-that stays with the listener forever. Something similar happened a few days ago. A fine teacher in our class quipped a very simple cliché- "Gone are the days when engineering used to be prestigious and difficult and rare. Today you just have to *think* about being an engineer- and voila! Next thing you know you're walking into an engineering college nobody but its students have heard of-for the next four years to prefix an "Er." to your name." We all know its true. We all say this at least once a week. We joke about it all the time. In fact, I've personally seen girls specifying in their matrimonial ads that engineers won't be considered so as to avoid meeting dunces. The word "engineer" is synonymous with "commoner". You find at least five in every family. The profession is like the last resort for those who can't find anything better to do. This is the plight of the profession we have chosen for our lives. We wanted to be recognized, and this is all the recognition we'll get. Unless we take it upon ourselves to turn the tables. We're expected to be gadget geeks, gizmo freaks, technologically invincible brainiacs. Instead, we come out as technically impaired, logically challenged, ignorant little nubs who didn't earn, but 'bought' their degrees. And that is something nobody, but we can change. It's a lame excuse to say that we're in an insignificant place with virtually non-existent resources. God gave you a cerebra, your parents bought you a laptop, your own profession provides you with the magic of internet. As long as you have all that, its constitutionally illegal for you to say that you're not equipped well-enough. Its time people, to put your brains to some productive use. To get to know what you're supposed to know. To become an engineer-and not just a B.Tech graduate. Your life is not about what you've got. Its about what you make of what you've got.

Yashti Taneja, 4th year

FOR THE ANGELS WHO TAUGHT ME THE MEANING OF FRIENDSHIP...

I never called anyone my best friend
I guess I was looking for someone like you
We were no childhood friends,
neither we shared any friendship bands
And now look at us,
we walk hand in hand
So many memories we've made together in a span of few
years,
We cried sometimes but our laughter drowned all the
tears.
Although I have lots of friends,
but I love you the most
You are just like a soul sister to me,
the one who never boasts.
I don't know what good I did that God bestowed you on
me
But I am gleeful that I have you with me to flee
I am no good at writing a poem or verse
But when it comes to you I'm filled with a million words
There might come a day when we won't be in the same
city together
But I want you to know that you'll always be my "best
friend forever"

Niharika Suthar, 3rd year

EMPOWERED WOMAN

The Empowered Woman, she moves through the
world
with a sense of confidence and grace.
Her once reckless spirit now tempered by wisdom.
Quietly, yet firmly, she speaks her truth without doubt
or hesitation
and the life she leads is of her own creation.
Her senses now heightened, she sees everything so
clearly.
She hears the wind rustling through the trees;
beckoning her to live the dreams she holds so dearly.
She feels the softness of her hands
and muses at the strength that they possess.
Her needs and desires she has learned to express.
She has tasted the bitter and savored the sweet fruits
of life,
overcome adversity and pushed past heartache and
strife.
And the one thing she never understood,
she now knows to be true,
it all begins and ends with you.

Dharmendra Sharma, 4th year