“The story of civilization is, in a sense, the story of engineering—that long and arduous struggle to make the forces of nature work for man's good.” - Lyon Sprague DeCamp

It is great pleasure to know that Department of I Year Poornima University is bringing out its First Annual Newsletter “POORNIMA ASPIRATION”. It is an ideal media for showcasing the experiences, achievements and creativeness of the students and faculties. The vulnerability of modern world is an important issue to our humanity. The development of sustainability science has become ultimate goal of modern society. Water, Energy, Waste, Pollution, Mobility and Biodiversity and their impact on food, survival forms the core issues for sustainable development. Fossil fuels- oil, coal etc. are limited, and burning fossil fuels is threatening the Earth’s climate system. We need to find ways to have a truly sustainable energy system, but wind power is too limited, solar power is too expensive, and nuclear power is too dangerous in terms of safety from proliferation and disposal of nuclear waste materials.

Dear engineering students, it will be your innovations and potential to give inputs to deal with future challenges to meet growing demands of rising population. I am sure that you will study with passion and curiosity to acquire the knowledge and skill set to ensure success in your professions. I congratulate all involved in bringing out this newsletter and wish you all a grand success in your Careers.

“Jai Jai Poornima Sansthan”

Dr. S.M. Seth
(ChairPerson, PU)

Mr. Shashikant Singhi
(Director General, PF)

I am glad to learn that department of I year, SET of Poornima University is releasing its newsletter "POORNIMA ASPIRATION". As we all know that newsletter is the most lucid medium of expression, so, I advice all my students to develop the power of expression and developing writing skills. It is also heartening to note that the theme of the newsletter is related to sustainable development which is fulfilling the needs of the presenting generation without compromising the requirements of the future generations. This also holds true for meeting out the challenge of energy crises. I further suggest my students to make proper and appropriate use of energy resources and flourish the light of saving energy amongst the people.

My heartiest congratulations to the department of I Year, SET for their commendable job.

“Jai Jai Poornima Sansthan”

Dr. KKS Bhatia
(President, PU)
"Any sufficiently advance technology is indistinguishable from magic"

If we go back to few decades there was nothing at all- no Light, no technology. But today, we are enjoying the fruit of technology which is the outcome of efforts and dedication of many brilliant minds. But, as we know there is a limit of everything and if we continue to use finite resources and depend on it only, it will be difficult to rework the energy resources all over the world. Students, you belong to the future generation and you need to take care for tomorrow. Therefore, I suggest you all to save energy and make maximum use of renewable resources.

I congratulate the department of first year, for releasing their first newsletter and special appreciation for the faculty and student members who have put all their efforts to make it a success.

“Save water, Save Electricity, Save Life”

Dr. Manoj Gupta
(Provost, PU)

MESSAGES

We are happy to welcome “POORNIMA ASPIRATION” the first newsletter of B.Tech First Year. Education leads to development of nation and brings healthy social change. We congratulate each and everyone for their valuable contribution in improving the quality of education.

Energy plays a key role in achieving the goals of sustainable development. The more we are energy efficient, the more power we could pump through for our development. Most of us forget that energy is available in abundance but it is limited and hence to maintain the quality of life, it is important that we use our energy resources wisely. Embracing an energy efficient lifestyle today will help you get a better life tomorrow. So let us slow down the demand for energy and give a better future for our coming generation. We shall also try to promote use of renewable energy resources to fulfill our daily energy requirements.

“Jai Jai Poornima Sansthan”

Dr. Priti Kaushik
(HOD, Department of I Year, SET)

I am very much delighted to learn that first year students of our University are releasing their first newsletter, “Poornima Aspiration”. Development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Sustainable Developments promotes the idea that social, environmental and economic progress are all attainable within the limits of our earth’s natural resources. So I encourage all students to direct their efforts for sustainable development.

I extend my best wishes and congratulate all those who endeavoured hard to make it a pioneering success.

Mr. Amit Gupta
(Chief Proctor, PU)

BACKBONE OF THE DEPARTMENT

(Prof.) Dr. A.K. Jain  Dr. Dipti Mathur  Mr. Manoj Gautam  Ms. Rekha Gupta  Ms. Rinku Jain  Mr. Madan Sawariya

Dr. Pramod Awasthi  Dr. Sonu Sankhala  Ms. Swati Paliwal  Ms. Sunena Nehru  Mr. Praveen Meena  Ms. Vandita Kaushik

Ms. Ravika Vijay  Mr. Gaurav Jain  Ms. Sakshi Jain  Mr. Nitin Lathi  Mr. Suresh Chand Bairwa

Ms. Neha Shrivastava  Mr. Ankur Sharma  Mr. Manoj Sharma  Mr. Himanshu Dhakar  Mr. Buddh Prakash Jangir
Orientation Program

Poornima University started its session with the orientation program "UDGAM 2K13" on 26th August 2013. On this occasion, the Chief Guest, was Shri P. M. Bhardwaj, retired CMD, Instrumentation Ltd., President of Poornima University, Prof. K.K.S. Bhatia informed about various activities and programmes planned for first year students. Dr. Manoj Gupta, Provost PU encouraged students to actively participate in all the activities of the University. Various activities took place for students in the three day program including industrial visit, introductory session by HOD and Faculty members.

Teacher's Day

On 5th September, 2013 Teacher's day was celebrated enthusiastically in all the sections of First Year, SET. Students of various sections conducted various activities for teachers and beautifully decorated the lecture theatres. Students and teachers also shared their memorable experiences, instances with each other.

Engineer's Day

Every year in India 15th Sept is celebrated as Engineer's Day to commemorate the birthday of the legendary engineer Sir M. Visvesvaraya. Engineer's day was celebrated in PU with great zeal and interest. One hour activity was conducted in which essay competition was organized by the tutors of each section on Frugal Engineering.

Gandhi Jayanti

On 2nd October, Birthday of Mahatma Gandhi is celebrated as Gandhi Jayanti with great enthusiasm. In PU, students came in white dress to promote the message of peace and harmony. And a one hour quiz was conducted in respective classes, on life of Mahatma Gandhi to create awareness among students about the Father Of The Nation.
Poornima University has organized its first two days intra-university sports and cultural fest on 16th and 17th of October, 2013. Many clubs and sports (outdoor and indoor) activities were conducted both for the students as well as the faculty members. Outdoor sports activities included basketball, volleyball, football, cricket, race, etc; Indoor activities comprised of carrom, chess, table tennis, etc; Also, some club activities were organised such as sketching, rangoli, exhibition of photographs, coin and stamp collections, etc. Fun corners were also created by students as ice breakers, which included logical and reasoning activities along with entertainment. Certificates and trophies were awarded to the topnotch performers of respective games and activities. First year students enthusiastically participated in all the activities and also actively volunteered, to make the event a success.

**Project Exhibition 2013**

Poornima University has organized project exhibition for students on 13th and 14th of November. Students from many schools came to visit. Projects from I year Students were really innovative and good. From first year department fifteen projects from hardware category and five projects from software category were displayed. Some of the projects in hardware category were off road car, Solar electric car, Attacking robot, home security system, and in software category were Patient Corner, Enterprise management, Food management, PU Connect etc.

**Industrial Visit 2013**

Poornima University provides many opportunities to the students for enhancement of practical knowledge in technical fields. Without knowledge of practical aspects, one can’t become an expert. Experience is must with knowledge. Details of the Industrial visit are:

- Sec A-SARAS (27/11/13)  Sec D-Dainik Bhaskar (29/11/13)
- Sec B-SARAS (28/11/13)  Sec E-Vikas Transformer Ltd (30/11/13)
- Sec C-Dainik Bhaskar (30/11/13)
FACULTY ACHIEVEMENTS

CONGRAGULATIONS

Ms. Ravika Vijay (Asst. Professor, Physics Dept.)
- Published a paper titled “Frequency and temperature dependence of dielectric properties of fresh potato juice at microwave frequencies in International Journal”
- Published a paper titled “Dielectric Relaxation in apple juice at microwave frequencies.”
- Published a paper titled “Frequency dependence of dielectric properties of two cultivar of watermelon at microwave frequencies and nutrients”
- Published a paper titled “Dielectric Spectroscopy of grape juice at microwave frequencies”

Ms. Sakshi Jain (Asst. Professor, Computer Dept.)
- Published a Paper Titled “A review of Prevention and Detection of Black hole attack in AODV-based MANET” in International Conference at JNU (Delhi)
- Attended a National workshop on “Research Methodology”
- Attended a workshop on Wireless Network Sensor

Dr. Dipti Mathur (Associate Professor, Chemistry Dept.)
- Presented paper on “Priodegradable Plastic” at NSPACS, JNVU (Jodhpur)
- Attended a National Conference on Chemistry for Economic growth and Human Comfort

Mr. Manoj Sharma (Asst. Professor, Mechanical)
- Completed M.Tech in Mechanical Engineering From Jagannath University with an aggregate of 75%

Ms. Sakshi Jain (Asst. Professor, Computer Dept.)
- Attended a National workshop on “Research Methodology”

Dr. Pramod Awasthi (Associate Professor)
- Attended a Short term course on “Characterization of Material”
- Attended a National workshop on “Research Methodology”

Mr. Ankur Sharma (Assistant Professor)
- Attended a National workshop on “Research Methodology”

Dr. Priti Kaushik (Associate Professor)
- Attended a National workshop on “Research Methodology”

“Optimism is the faith that leads to achievement, Nothing can be done without hope and confidence.”

FACULTY PURSUING HIGHER STUDIES

Doctorate Program
Ms. Ravika Vijay

Masters Program
Mr. Ankur Sharma
Mr. Amber Batwara
Ms. Sakshi Jain
Mr. Nitin Lathi

“There is always room at the Top”
- Daniel Webster
E- MARKETING

E-Marketing can be defined as “achieving marketing objectives through use of electronic communications technology”. It is the “e-selling” side of e-commerce. This electronic communications technology includes: internet, e-mail, e-books and mobile phones. One of the most effective ways for a company to keep in touch with customers is through e-mail marketing. It can help building brand awareness and loyalty. The company can save costs of printing and posting if it advertises its products online through the net. E-marketing has redefined the marketplace, altered business strategies and allowed global competition between local businesses. E-Marketing includes public relation, sales promotion, direct selling, and customer relation marketing. While doing business on the web the company must pay close attention to trade mark law which governs disputes between business owners the names, logos and trademarks that identify their goods and services in the market place. Keeping in view, the recent market trends of E-marketing, T&P Cell of Poornima University organized an interactive session of the Super Club with Mr. Amit Kushwaha, senior manager-Projects in Jabong.

Dr. Priti Kaushik (HOD, Dept of I Year, SET)

MAKE A DIFFERENCE

We are all gifted with a unique set of skills and abilities. With those abilities we can make extra-ordinary things happen. It is completely up to us whether we want our life to make a difference.

Ms. Rinku Jain (Technical Officer)

JOY OF GIVING

“Giving opens up the door to receiving”. You have so many opportunities to give every day. Give kind words. Give a smile. Give appreciation and love. Give compliments. You can give courtesy to other motorists while you are driving. You can give a smile to the car parking attendant. You can give a warm greeting to the newspaper stand person or the person who makes your coffee. You can give by allowing a stranger to go ahead of you into an elevator, and you can give by asking which floor they are going to and pressing the button for them. If someone drops something you can give a helping hand and pick it up for them. You can give warm embraces to those you love. And you can give appreciation and encouragement to everyone. There are so many opportunities for you to give and thereby open the door to receiving happiness and experience satisfaction and joy.

—Theodore Isaac Rubin

Dr. Sonu Sankhala (Asso. Professor)

BE SUCCESSFUL

Success is today’s buzz word. A greater part of our life is spent in preparation for success and nearly the entire later part for the achievement of success. We always look for some secret for achieving success, but there is no mantra for success. A person must have a single paramount goal in life, knowledge and skills in the chosen field. Faith in oneself, hard work and self-discipline pave the way for success in life.

Success contributes a lot to happiness. A successful person is self-satisfied. He has usually name and fame, comforts, respect, authority, and easy life. But don’t forget, the real success is in giving and sharing the success, helping and assisting others to be successful and loving and caring for those who have not been successful. Make others successful and you will Be Successful!

Dr. Dipti Mathur (Asso. Professor)

Happiness does not come from doing easy work but from the afterglow of satisfaction that comes after the achievement of a difficult task that demanded our best.
**POINTERS**

A pointer is a special variable in C language meant just to store address of any other variable or function. Pointer variables unlike ordinary variables cannot be operated with all the arithmetic operations such as `*`,`%` operators. It follows a special arithmetic called as pointer arithmetic.

**Operations on a pointer:**
- **Dereferencing operator `*`**: This operator gives the value at the address pointed by the pointer.
- **Addition operator `+`**: Pointer arithmetic is different from ordinary arithmetic. `ap=ap+1;` Above expression would not increment the value of `ap` by one, but would increment it by the number of bytes of the data type it is pointing to.

**Syntax:** `datatype *ptr;`
Here `*` indicates that `ptr` is a pointer variable which represents value stored at a particular address.

**Advantages:**
Pointers allow us to pass values to functions using **call by reference**. This is useful when large sized arrays are passed as arguments to functions. A function can return more than one value by using **call by reference**. Dynamic allocation of memory is possible with the help of pointers. Pointers point to physical memory and allow quicker access to data.

*Mr. Gaurav Jain (Associate Professor)*

**INSIDE IS OUR HEART**

Inside there is a fire
 Burning out of control.
Inside is a passion
 So fierce you can’t contain.
Inside emotions and memories
 Float around and influence like an inspirational word.
Inside is a monster
 Competing with your thoughts.
But inside is our heart
Which shows you the right way.

*Mr. Amber Batwara (Asst. Professor)*

**3D MAPS : TANGO**

Google has embarked on a project to give mobile devices a more human-like understanding of space and motion. Google has created a prototype smartphone with customised software and hardware that enables it to create 3D maps of a user’s surroundings.

Every second, sensors embedded in the phone take more than a quarter of a million measurements, updating its position and orientation in real time.

"Now, we're ready to put early prototypes into the hands of developers that can imagine the possibilities and help bring those ideas into reality,"

*Mr. Ankur Sharma (Assistant Professor)*

**TURBO CHARGER**

The turbocharger is used to increase engine power, rpm and volumetric efficiency. If we connect the turbocharger at the exhaust of the engine; by the waste gases the turbine is rotate. Because turbine and compressor of the turbocharger are mounted on the same shaft so when the turbine rotate the compressor will also rotate. It compresses the air and feed into the inlet of the engine. So the compression ratio of diesel engine is increases and we will get more power. The main advantage is that we will not done extra work to rotate the compressor or turbine. We will use waste gases. Compared with a naturally aspirated engine of identical power output, the fuel consumption of a turbo engine is lower, as some of the normally wasted exhaust energy contributes to the engine’s efficiency. Due to the lower volumetric displacement of the turbo engine, frictional and thermal losses are less.

*Mr. Manoj Sharma (Assistant Professor)*
**THE REFLECTION**

O Lord! This new day comes to me as a gift out of your spotless hands, so bless me so that I may offer it to you in purity, in loving service of the poor and the broken ones, in unbroken communion with you, Beloved of my heart and in constant repetition of the Holy name! Every day as with folded hands, I greet the morning sun- ever ancient, ever new- I think, I hear within me the words- Be new! Live the new life, the true life, the life that is life indeed- the life of simplicity and sympathy, and service of new awakening, of self-effacement! Life’s richest treasures are within us. All we need to do is to be attentive, to listen, and to receive the gifts of the spirit. He ever gave; when shall we be ready to receive?

With the years, grows the conviction that of myself I can do nothing, I can’t move forward to meet Him – my Leader and my Lord – until He had first come to me and held me by the hand. Am I seeking Him?

One of the lessons I have learnt at the lotus feet of my Beloved Master is that I should, in humble tasks of life, Endeavour to serve the poor and broken ones, the little lowly ones. The poor, he said are the pictures of The God. And the poorest of the poor are birds and animals who alas! are being slain by the millions in our soulless cities. The faith in my heart is strong that in serving the cruelties of men, man ascends in the scale of evolution. In the measure in which the God. And the poorest of the poor are birds and animals, in sheltering them from the cruelties of men, man ascends in the scale of evolution. In the measure in which man shares the love of his heart with animals and birds, in that measure he lifts them up and is himself uplifted. “Help Others!” is the call I hear within me, again and again. Turn away from egoism, from the conceit of ‘I’ and ‘mine’ and seek communion with the Divine...

- Anup Yadav (Sec-E)

**WEB SERVICES**

The increasing number of available web services, maintaining these services and efficient search system to search for the ones that satisfy a given requirement has become an important issue. Hence the need to compose these web services together to achieve a new functionality that meets the different needs of end users. Web service composition can take place among big commercial organization or across academic institutions. The model, known as the student record management services (SRMS), proposed an efficient approach to search information on a non-redundant web service composition. The SRMS is a hybrid model that first eliminates redundant web services by grouping together web services of similar functionality, then uses the simplified planning graph method to search for information. When the SRMS receives an input, it expands itself one level at a time, until it reaches the goal.

- Puranand Kumar (Sec-D)

**SITUATION OF FAILURE**

Hey, you listen, I am the best, I’ll prove myself, I am better from the rest. I’ll cross the troubles, all the jagged roads, To hear my name, to hear in roars. Near is the day, what do you feel? I feel like breathing, like breaking the seal...

I work hard and I am sure, Hard work wins and never fails for sure. This is the day I was waiting for...

Everything’s perfect but I want more! Nearer the day, what do you feel? I feel like living, living happily!

I’ve full confidence that I will succeed, I can never fail; I’ll pass by my deed. But sometimes it happens, your luck cracks, Leaves your hard work, behind and swamps. When bad luck favors, what do you feel? I feel like broken, broken at the scene...

When everyone succeeds, just you left behind, All the dear people grow louder and sighing... Criticism on you and appreciating the rest,

You tried your best, but couldn’t be the best, No-one to heal, what do you feel? I feel like I am just nothing to deal…!

Flowing like falls, what do you feel? I feel like dying, dying at the scene! When you’re lost totally, physically, mentally, Into a different, world of depressions... A person comes suddenly, and releases all the tensions. When hope ray comes, what do you feel? I feel like life, turning back to me!...

I just needed a hand, I am very strong, I can fight anything, as I am not wrong. Let the world say, whatever they want to, I’ll just do the thing, my heart wants me to!

Again you’ve power, what do you feel? I feel like freedom, freedom to live!...

- Himanshi Purohit (Sec-D)

**GOOGLE GLASS**

Google Glass is a wearable computer with an optical head-mounted display(OhMD) that is being developed by Google in the Project Glass research and development project. Google Glass displays information in a small phone-like hands-free format, that can communicate with the Internet via natural language voice commands. A touchpad is located on the side of Google Glass, allowing users to control the device by swiping through a timeline-like interface displayed on the screen. Sliding backward shows current events, such as weather, and sliding forward shows past events, such as phone calls, photos, circle updates, etc.

- Jincy C Joshwa (Sec-D)
PERFORMANCE CORNER

Subject Wise Result Analysis

Average Attendance Section Wise

If you really want to do a thing,
You will find a way.

If u don’t
You will find an Excuse
# STAR PERFORMERS

## TOPPERS – I Semester

### SECTION – A

<table>
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<tr>
<td>Aniket Upadhaya</td>
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<td>Abhishek Shukla</td>
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<td>B. Sagar</td>
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<td>Prateek Surana</td>
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<td>Ravikant Meena</td>
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### SECTION – C

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### SECTION – D

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<td>Dimple Rajawat</td>
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### SECTION – E

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<td>Rahul Kr. Singh</td>
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<tr>
<td>Rahul Bothra</td>
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**Important links**

- Latest Gadgets and Technology in Computer Science and Engineering: [http://www.eecs.mit.edu](http://www.eecs.mit.edu)
- Talks by Fascinating Thinkers: [http://www.ted.com](http://www.ted.com)
- Video Lectures by IIT’s Professor: [http://nptel.iitm.ac.in/courses.php?disciplineId=106](http://nptel.iitm.ac.in/courses.php?disciplineId=106)
Dear readers,

“POORNIMA ASPIRATION”, the very first newsletter released by the Editorial Board of Department of first Year, SET. It has been meticulously designed to provide an inside glimpse of the various events held throughout the year 2013-14. Poornima has been distinctly known for excellence, hard work, and innovation; and this legacy of brilliance is apparent in the versatile activities, meritorious achievements, creative articles and poetry of our vivacious minds, covered in this issue. Special care has been taken to craft the newsletter as instructive and ingenious. We hope you have an indulgent read and we welcome your feedback on any aspect of newsletter.

"Earth provides enough to satisfy man's needs, but not every man's Greed"

- Mahatma Gandhi