POORNIMA PANORAMA

ANNUAL MAGAZINE - 2014
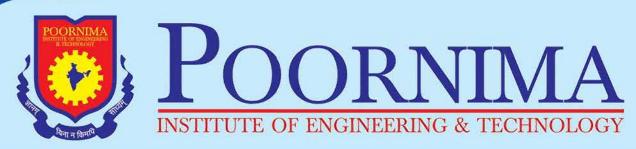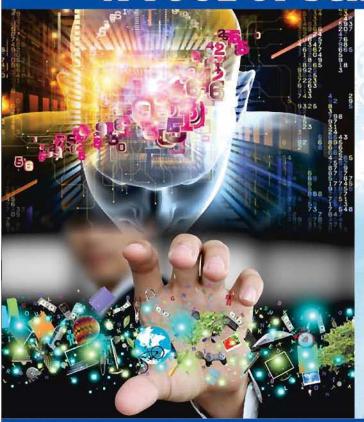
POORNIMA

INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Constituent College of Poornima Group of Colleges, Jaipur)

ENGINEERING :
A TOOL OF SCIENTIFIC DISCOVERY

Engineering is behind everything – from mobile phones and make-up to the car you travel in and the shoes on your feet. Modern technology and equipments have changed the world we live in. Engineering makes up an exciting range of businesses and industries, including construction, transport, cosmetics, medicine, food, fashion and much more. You name it, engineers have worked on it. Engineers participate in the scientific process of discovery in many ways. Grand experiments and missions of exploration always need engineering expertise to design the tools, instruments, and systems that make it possible to acquire new knowledge about the physical and biological worlds. In the century ahead, engineers will continue in the great quest for unrevealing the mysteries of nature and their success in finding such answers will not only advance the understanding of life and the cosmos, but also provide engineers with fantastic new prospects to apply in enterprises that enhance the joy of living and the vitality of human civilization.

Vision

"To evolve and develop skill based systems for effective delivery of knowledge so as to equip young professionals with dedication & commitment to excellence in all spheres of life."

Mission

"To create knowledge based society with scientific temper, team spirit and dignity of labor to face the global competitive challenges."

Quality Policy

"To provide quality education through faculty development, update of facilities & continuous improvement meeting university norms & keeping stake holders satisfied."

From the Editor's Desk

PANORAMA *is celebration of a journey,*

Its' a story of undaunted spirits….

of endeavors made…

of laurels won.

A promise for a brighter tomorrow

with an ongoing pursuit of knowledge

to be gathered from experience.

There is a hope that gleams

through the doors we are yet to open….

This is a time of great changes. In education too, we see fast changes. The student today is an individual, is a real person with feelings of self-respect, sensitivity, responsibility and compassion. We need to recognize, appreciate, applaud and foster the fine blend of sensibilities in a youngster and thus this magazine is to be viewed as a launch pad for the student's creative urges to blossom naturally. As the saying goes, mind like parachute works best when opened. This humble initiative is to set the budding minds roam free in the realm of imagination and experience to create a world of beauty in words.

Panorama 2014 is based on the theme- **Engineering- A tool of scientific discovery.** Putting a magazine together was no cake walk. Pleasing everyone is an impossible task but the editorial team tried their best. PGC group attains its eminence in the first place through the achievement of students. It has been given enough print space in this seventh issue of the magazine. This magazine also espouses the spirit which is built up within the college through collective actions, thoughts and aspirations. All these, I believe would spur higher growth and enterprise in students.

My thanks are due to all my colleagues and students to have been of immense help in breathing life into these pages.

Shreshtha

Ms. Shreshtha Bohra
(Editor-in-Chief)

Editorial Board

Contents

Message

It is a matter of great pleasure that **Poornima Institute of Engineering & Technology, Jaipur** is bringing out its annual magazine, **POORNIMA PANORAMA** - 2014.

College magazine is the ideal platform where students can express their views and creative flair in innovative ways. Such publications help in highlighting the academic as well as extra-curricular achievements of a complete academic year. Efforts being made by the Poornima Group in fostering technical education among the youth are praiseworthy.

I hope that the publication would serve as a significant forum for the budding technocrats to realize their creative aspirations.

I wish the endeavor a great success.

(Smt. Vasundhara Raje)
CHIEF MINISTER
Rajasthan

Message

I am delighted to know that **Poornima Institute of Engineering & Technology, Jaipur** is bringing out the fresh issue of its annual college magazine **POORNIMA PANORAMA**.

At the outset, I compliment the management of Poornima Group for their initiatives and efforts. Poornima Group is doing very well on all fronts of academic and non-academic programs and fulfilling all corporate social responsibilities. The credit goes to the dedicated team of Management, Faculty, Staff members and the Students.

The college magazine is an important publication of the institution as it provides opportunity to the students to exhibit their latent literary and technical talents. I am sure that the magazine will provide an insight into the activities of the college and organization.

We must remember that the main aim of the education is the development of all round personality of the students- mental, physical, moral, emotional, technical and spiritual. I hope that the magazine will provide all those ingredients. I take this opportunity to congratulate the editorial board for bringing out the latest issue of the magazine. I am sure that the magazine will provide interesting reading material and enrich the mind of the readers.

With warm wishes!

(Padma Bhushan Sh. D. R. Mehta)
Former Dy. Governor, RBI & Chairman, SEBI
Chairman, PJF Advisory Board

Message

I am delighted to know that **Poornima Institute of Engineering & Technology**, Jaipur is publishing its Annual College Magazine **POORNIMA PANORAMA.**

You do not come across success just by hoping for it. To achieve true success, you need the strength of mind and body to struggle and work hard to reach your fullest potential. You need the right attitude, self-discipline and the ability to put your goal before your own needs, if you are really driven towards reaching success. There is, in the final analysis, no substitute for hard work. As Henry Ford says, "The harder you work, the luckier you get" –therefore more successful you get. I extend my best wishes to all associated with Poornima Group of Colleges and earnestly hope they will continue to pursue the new frontiers of education.

(Professor Kanta Ahuja)
Ex-President, Poornima University
Member, PJF Advisory Board

I am happy to observe the growing success of Poornima family which has worked hard to take **Poornima Group of Colleges** to greater heights of success.

I am sure that publication of college magazine **POORNIMA PANORAMA** would receive great appreciation. It is also noteworthy that the college has progressed considerably, especially in engineering discipline and at the same time it emphasizes on creative writing in technical field. I wish that group continues to strive towards the pinnacle of engineering education in all respects.

I convey my happiness to the members of editorial board for successful publication of the magazine.

(Inderjit Khanna)
Former Chief Secretary, Govt. of Rajasthan
Member PJF Advisory Board

I am glad to know that **Poornima Institute of Engineering & Technology,** Jaipur is bringing out its Annual College Magazine **POORNIMA PANORAMA** this year. The college has earn high reputation in a short span of time and is giving good education to the students.

It gives a feeling of immense gratification to see Poornima Group of Colleges contributing its best to the movement of shaping young minds not only with knowledge but also with values.

I hope that the magazine which they are going to release will reflect the hidden potential of the young technocrats through the useful articles published in it.

I wish Poornima Institute of Engineering & Technology, Jaipur, a grand success in its endeavor.

May God bless all !

(Vishwanath Sinha)
Former Prof. IIT Kanpur
Former Director LNMIT
Member PJF Advisory Board

Message

I congratulate the editorial team, the students and the staff members for this edition of the annual college magazine, **POORNIMA PANORAMA**. The magazine embodies the lively spirit of **Poornima Institute of Engineering & Technology, Jaipur** and provides a glimpse of the artistic and creative talents and potential of the constituency of the institution. The students, faculty and staff members all make the institution very proud indeed!! The students deserve a lot of applause and compliments for their achievements and dedication exhibited during the year in order to bring out the publication regularly. To bring out each new edition of the magazine requires a tremendous effort which the students and faculty put in day-in and day-out and I have nothing but praise for them. Fruition of such a magazine encourages creativity and excellence which students are cultivating. I am looking forward to the continued publication of the magazine in the years ahead.

(Professor Vijay P. Singh)
Texas A & M University, USA
Member, PJF Advisory Board

I am happy to learn that the **Poornima Institute of Engineering & Technology, Jaipur,** is bringing out latest issue of its college magazine **POORNIMA PANORAMA.** Such institutional magazines provide opportunities to both students and faculties to show-case their skills, quite often beyond their regular teaching and learning skills. In the past, the college has brought excellent magazines, useful not only for students and faculty members but also for a wider readership. I hope this year also, the magazine will reflect the hidden potential of students and faculty in the articles and pieces included in the publication. I convey my very best wishes for the publication.
May god bless the Poornima Group and its students!

(Dr. Shabd S. Acharya)
Former Chairman, CACP, Government of India, New Delhi
Member PJF Advisory Board

Engineering has existed since ancient times as humans devised fundamental inventions such as the pulley, lever and wheel, consistent with the modern definition of engineering, exploiting basic mechanical principles to develop useful tools and objects. In fact, a human being had engineering instincts since origin. So here we are for going from "unknown" to "known" and making life more useful, purposeful and eventful. Anyway, I am happy to learn that the seventh issue of **POORNIMA PANORAMA** is dedicated to "**Engineering- a tool of scientific discovery**". As scope of the engineering profession is rapidly shifting, it is imperative to focus on engineering curricula from transmission of content to development of thinking engineering skills that support professional judgement. Future engineers will need to adapt to rapidly changing work environment and technology, direct their own learning, broaden an understanding of impact, work across different perspectives and continually revisit what it means to be an engineer. At this moment, I wish you all the best in academics of PIET and look forward to your contributions to the institution as well as PGC.

Dr. Rakesh Duggal
Director Academics, PGC & Campus Director, PGI

From The Chairman's Desk...

Education should consist of a series of enchantments, each raising the individual to a higher level of awareness, understanding, and kinship with all living things.

It gives me immense pleasure to learn that **Poornima Institute of Engineering & Technology, Jaipur** is going to publish its annual college magazine **POORNIMA PANORAMA.** I would like to compliment the Poornima Family for making best possible efforts to ensure optimal growth in all sectors of academics & non academics.

In the wake of fast changing economical, technological and geopolitical scenario, demand is getting stronger on educational institutions to change their role from center of knowledge creation to an effective medium of knowledge application, research extension and skill up-gradation for the benefit of the society. At PGC, our focus should remain on evolving efficient, confident and highly knowledgeable technocrats, managers and entrepreneurs with global thinking and futuristic mind-set that will contribute to nation building with simultaneous faith in corporate ethics. At PGC we should guide the all our students towards success to take up challenges and utilize the opportunities.

The sustainability of earth and its environment under the pressures of rising human population is an area of big concern for our survival. This planet earth came with a set of operating instructions, but we seem to have misplaced them. Important rules like don't poison the water, soil, or air, and don't let the earth get overcrowded have been broken. This spaceship earth was so ingeniously designed that no one has a clue that we are on one, flying through the universe at a million miles per hour, with no need for seatbelts, lots of room in coach, and really good food – but all that is changing. Our engineering students of today will have to tackle problems arising out of environmental degradation and resource crunch in their professional careers ahead. They should realize that the society is investing in them so that they can help solve the many challenges that humankind is going to face in the coming decades, from profound technological challenges to helping people with the age old search for human happiness and meaning.

I firmly believe that four years of under graduate education is the ultimate place to flourish the multi-dimensional talents of the students through different academic, co-curricular and extra-curricular activities. Enthusiastic efforts of the students, dedication of the faculty and active co-operation of the parents would make our movement towards excellence and innovation smooth and speedy. The Poornima Group shall always endeavour to emerge as an excellent launching ground for success, helping students to reach the pinnacle of glory in the rapidly developing world. Our goal is to make our students global citizens on completion of their higher education capable of establishing themselves in any part of the world to lead a happy & prosperous life. I would like to quote Albert Einstein "You have to learn the rules of the game. And then you have to play better than anyone else."

PGC is our extended family-Parivar and the legacy of that we must carry forward belongs to our future generations. Our motto "GYANAM BINA NA KIMAPI SADHYAM" "Nothing is possible without knowledge" should continue to be our source of inspiration in every activity of our group. May God be with us in all our endeavors!

I am sure that the 2014 issue of the Magazine would be interesting matter, encompassing and reflecting the vibrant campus life. I congratulate all the contributors to growth story of Poornima Group and wish excellent success to POORNIMA PANORAMA. With best wishes!

Dr. S.M. Seth
Chairman, PGC & PJ Foundation
Chancellor, Poornima University
(Former Director, NIH, Roorkee)

From The Director General's Heart...

"Have ambitions and aims untrammeled & your hard work, enthusiasm resilience located with knowledge intellect will take you to any extent you desire"

It gives me immense pleasure to share that **Poornima Institute of Engineering & Technology, Jaipur** is bringing forth yet another issue of its Annual College Magazine: **POORNIMA PANORAMA.** The magazine marks another milestone of a successful year, 2013-2014, adding one more feather to its glory and excellence. I whole heartedly greet the students and the members of Poornima Family for stepping into fourteenth year of its inception.

The journey of arduous endeavor, led by students and teachers of Poornima Family through all these years has reached to this destination of success and fulfillment. Hence I congratulate the entire faculty, students and staff members for their dedication and commitment.

If education has to achieve its goal of personal and social transformation, then befriending the students on their intellectual and moral journey by qualified teachers becomes an essential part of the educational institutions. Young men and women are to be trained to bring about change within them and thus become agents of change in the society to ensure justice and equity for those it is denied. My prayer and vision is that every student who marches out of the portals of Poornima Group be an animator of society who has brought within him interior and moral transformation.

I am confident that our budding engineers and managers will make a difference in every domain they operate, by inspiring other people while displaying highest level of integrity and social sensitivity. Be ready to soar high with the added wings to your dreams and aspirations!

Once again I wish all of you a fruitful academic year 2014-2015.

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Best Wishes!

JAI JAI POORNIMA SANSTHAN! JAI HIND.

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(Ar. Shashikant Singhi)
Director General, Poornima Foundation
Architect, Motivator & Educationist

From The Director's Desk...
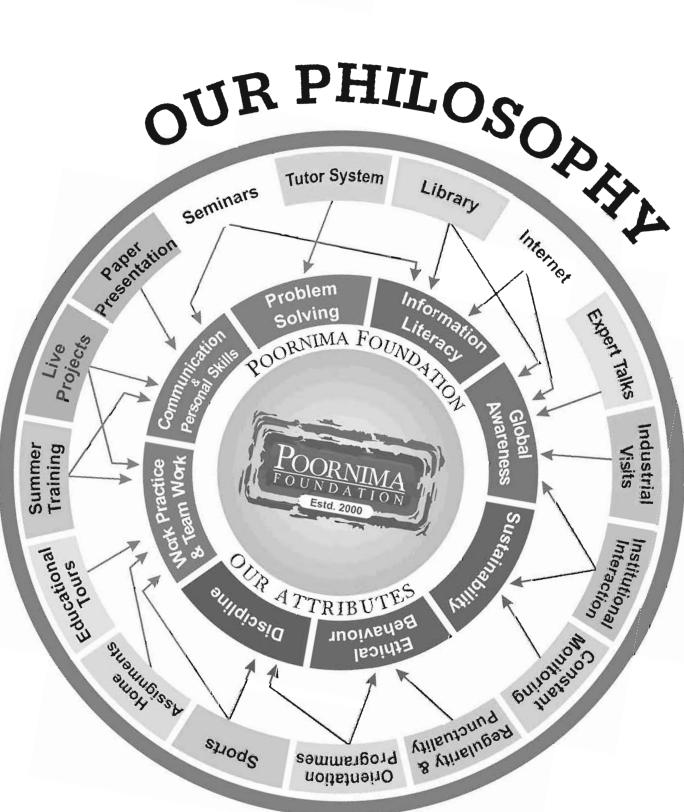
Engineering has interconnections with society and human behavior and it dates back to the Stone Age. Every product or construction used by modern society is, in one way or the other, influenced by engineering. Seventh issue of POORNIMA PANORAMA discusses **Engineering as a tool of scientific discovery** to make changes to environment, society and economies, and its application bringing with it a great responsibility. Engineer brings new ideas, creates, innovates, designs and develops by applying know-how for the mankind. Gradual evolution of engineering has also brought with it, the challenges like preventing nuclear terror, restoring and improving urban infrastructure, enhancing virtual reality, personalized learning. Meeting these challenges is imperative for human survival, making us more secure and improving our quality of life. It is also important to remember that students are driven by passion, curiosity, engagement and dreams. Although we cannot know exactly what they should be taught, we can focus on the environment in which they learn and the forces, ideas, inspirations, and empowering situations to which they are exposed.

Poornima Institute of Engineering and Technology has evolved to reach and hold a unique position of pride by providing quality technological and scientific education and creating an environment conducive to new research and development in frontier areas of engineering and technology.

I would also like to share with the students to avail every opportunity that comes their way and explore and glorify themselves in every field because it is their world, where they are born to rule. After all, learning is a treasure that will follow its owner everywhere!

My best wishes for the publication!
JAI JAI POORNIMA SANSTHAN! JAI HIND.

Prof. Ajay Kumar Bansal
Campus Director, PIET

OUR PHILOSOPHY

Tutor System · Library · Internet · Seminars · Paper Presentation · Live Projects · Summer Training · Educational Tours · Home Assignments · Sports · Orientation Programmes · Regularity & Punctuality · Constant Monitoring · Institutional Interaction · Industrial Visits · Expert Talks

POORNIMA FOUNDATION

Problem Solving · Communication & Personal Skills · Information Literacy · Global Awareness · Sustainability

OUR ATTRIBUTES

Work Practice & Team Work · Discipline · Ethical Behaviour

POORNIMA FOUNDATION · Estd. 2000

PIET GOVERNING COUNCIL
Ninth Meeting, 2013

Twelfth Meeting of the PJF Advisory Board, 2013

THE THINK TANK OF POORNIMA FOUNDATION

POORNIMA JIET EDUCATION FOUNDATION
Keystone for education, research & development

Shanti Education Society & Arun Shanti Education Society established Poornima Group of Colleges (PGC) and JIET (Jodhpur Institute of Engineering & Technology) with an aim to change the weakened form of education in Indian scenario and to convert it into a successful parameter for the growth of country in field of technical education and advancement. Poornima JIET Education Foundation came into existence in the year 2007-2008 to give directions and to formulate the policies for the functioning and all over management of its institutions. PJF has been working to promote the technical and non-technical education since its establishment. PJ Foundation comprises of the highly intellectual personalities as its members, thus called the 'Think Tank' of Poornima Group of Colleges. The Board comprises of eminent personalities from the area of education, administration, research and industry. The members of Board are quite competent and renowned professionals who leave no stone unturned in pursuing their objectives: to create educational infrastructure or to provide quality education to meet the growing demand of present scenario. The Advisory Board of PJF was formed to take benefits of rich knowledge, experience and vision of the members for the efficient management of the institutions covered by the Foundation which makes Poornima proud taking its academic and non-academic growth to its apex.

SHANTI EDUCATION SOCIETY
Sponsoring the education under one shade

Shanti Education Society promoted Poornima Group of Colleges and established it in the year 1999 with the aim of encouraging the technical and professional education in the state of Rajasthan. It works on its philosophy of strong academics and infrastructure providing all conveniences to make the education full of learning and utmost development. At present, Sh. Satish Chandra Agarwal, a renowned academician and technocrat, is glorifying this society as its Chairman with a team of highly qualified professionals in it. This society houses 188340.07 sq.mt. area at RIICO Institutional Area in Sitapura & Ramchandrapura constituting four campuses of PCE, PIET, PSOM, PGI & Poornima University. The overall built-up area of PGC is 967255.02 sq.ft. including instructional, administrative, recreation and residential areas. Presently, more than 3000 students are residing in its 18 hostels. PGC implements its smooth and efficient functioning with the help of its huge team of highly proficient 550 faculty members and 400 staff members who are inclined towards the achievement of the vision and mission of Poornima Group of Colleges.

Your Dreams Our Goal

POORNIMA
UNIVERSITY

PJ Education Foundation has effectively contributed in providing Indian Industry with young, enthusiastic technocrats and managers, facilitating industry academics interface to achieve excellence in academics. Continuing with the same ideology, Poornima University was established in the year 2012 under the aegis of Shanti Education Society to promote the quality education with a motive of implementing innovations and experiment, incorporating with the upcoming techniques and advanced t technologies. The University aims to achieve world class excellence in imparting knowledge, research and teaching, making invaluable contributions to the social, educational and economic development of the nation. The state of the art research facilities and modern amenities like well stocked libraries along with project centers create a conduce environment for teaching-learning process. Poornima University is committed to bring about perceptible change in society with its innovative and equitable practices and systems.

POORNIMA UNIVERSITY AT A GLANCE-

- Situated in the heart of Sitapura, the education hub of Jaipur
- Campus spread over 32.67 acres land
- Flexible & Dynamic learning approach
- Lively Campus
- Aims to create Employable Professionals
- Courses valued by Industries
- Globally adapted & accepted Credit System
- State-of-the-Art Infrastructure
- Centre of Excellence for Research, Development & Consultancy
- On-Campus residences for students & staff
- Life and Professional Skills courses for personal grooming and professional development
- Academic and Industrial alliances
- International Collaboration with AIT, Thailand
- Special Preparatory School

Academic Facilities

As knowledge is the supreme goal of Poornima University, it plays the role of torch bearer providing latest technology, innovative teaching methodology and quality education to create unique learning environment and experience. It is determined to steadily grow bigger and better in the field of engineering & management education. It is highly committed to bring about perceptible changes in the society with its inbuilt novel and evenhanded practices and systems with its disciplines of Engineering, Management, Commerce, Architecture etc.

POORNIMA
GROUP OF COLLEGES
A legacy of progress

The foundation of Poornima Group of Colleges was laid down in the year 2000 with a great vision and mission of founder Principal of Poornima College of Engineering and present Chairman of PGC, Dr. S.M. Seth. Presently, following institutions are part of Poornima Group of Colleges, Jaipur

1. **Poornima College of Engineering (PCE), established in the year 2000**
2. **Poornima Institute of Engineering & Technology (PIET), established in the year 2007**
3. **Poornima School of Management (PSOM), established in the year 2007**
4. **Poornima Group of Institutions (PGI), established in the year 2009**

Thus, during its journey of 14 years, PGC has developed 4 institutions of repute and has grown to the size of 10,000 students. PGC institutions are known for excellent placements, consistent university results & 360 degree development of students. All PGC institutions are affiliated to Rajasthan Technical University and approved by AICTE.

The older component of Poornima has a glorious past of 14 years and its glimpses are-

HOSTELS OF PGC: *Place of learning and leading*

Hostel life at Gurushikhar, Gayatri, Aravali, and Himalaya hostels of Poornima Group of Colleges give wings to the fantasies of students where they are motivated to fulfill their dreams and learn to manage everything by them. The hostel life at PGC is a tremendous treasure of memories which remains long lasting and which they like to cherish throughout their life. Thus, hostel life brings out the manager in them in

spite of strict rules and regulations. The hostels are equipped with all the facilities of a modern hostel. Spacious rooms with spacious balcony give a feeling of luxury and comfort. State-of-the-Art architectural design, advanced technology and luxuriant materials combine to form a wonderful hostel for the students of Poornima Group of Colleges, Jaipur. Apart from the infrastructural soundness, all the hostels provide sufficient scope for interaction and relationship building. There are common rooms, games rooms and courts for various sports, where the students can relax and cool down after a hectic day of work. It is also a common sight to find the students studying in groups and doing project work in the common rooms of hostels. These interactions play an important role in a student's life both personally & professionally.

Features of PGC Hostels:

- Fully secured and ragging free environment;
- Furnished, airy and spacious rooms with all

living standards;

- Special facilities: Advanced gymnasium, activity rooms, internet facility; (LAN & WI-FI) indoor and outdoor games, departmental store, laundry, TV room etc.;

- Availability of magazines, newspapers and other study materials in reading rooms;

- Availing of 21 library books to mentors under nucleus library systems;

- Pious & hygienic food in Hostel mess;

- Centralized cooling & Movie Club;

- Competitive atmosphere conducting different technical & non-technical activities;

- 24 hours security, discipline & Unique Mentor System;

- Lodging facility for students guardians;

- Medical examination by doctors on weekly & availability of 24 hours medical facility;

- Attention and personal care through learned and caring mentors;

- Celebration of different festivals from time to time;

- Conduction of social & re-creational activities through multiple clubs;

- Ambulance and Transport facility for emergency service.

CENTRAL LIBRARY MAKING POORNIMA PROUD: *A place to place the knowledge*

Poornima Group of Colleges houses separate libraries in each Institute to provide its students and staff a chance to explore a world of knowledge in a conducive environment. By making accessible a rich collection of print and non-print, primary and secondary material

in various disciplines, the libraries support the academic as well as research needs of thousands of students and hundreds of teachers of the Institute. The Libraries house a rich collection of text and reference books, journals, magazines, audio/videos, CD-ROMs, research reports, online Journals and databases and data analysis software, etc. in all areas of study in all disciplines.

- Use of SHARP software in the libraries, which has made book issuing and depositing system completely an automatic process.

- DELNET (Online Catalog) which enables the students and staff to search the availability request and reserve various books and other reference material available in the libraries at the comfort of their houses.

- Periodical & Newspaper Section: Every library holds a very rich collection of relevant periodicals, magazines and newspapers.

- Reference Service: Ready help and guidance is provided to all patrons searching for any book or other reference material within the libraries.

- Photocopy Facility: For the convenience of staff and students, the libraries have xerox machines to offer photocopy facility.

- Cloak Room: The libraries have a cloakroom for keeping the belongings of the students' safe while they are within the library premises.
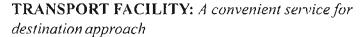
ARBUDA CONVENTION CENTER: *A touch of class*

Arbuda Convention Center, an auditorium, makes PGC proud through its well-designed interior and its advanced visual & audio technology. This auditorium has 500+ seating capacity. It is fully jeweled with disco lights, Dolby sound, front and back screen projectors. The core point of attraction of Arbuda Convention Center is such that it looks like a theatre and makes the audience thrilled with its sound and operating systems. Almost all the academics and non-academics activities/events of PGC are organized in this auditorium which become enliven memory for the audience, organizers and the participants as well.

TRANSPORT FACILITY: *A convenient service for destination approach*

All the students and employees of PGC are provided free transport facility for all corners of Jaipur. The transport facility of PGC works on the basis of pick and drop point which makes it easy to implement the perfect commute facility efficiently throughout the year. PGC has separate buses for faculty members, staff & students. The transportation facility remains available for the industrial training and various programs conducted whether in-campus or off-campus.

ACADEMIC & ACTIVITY AWARDS FOR STUDENTS: *A source of inspiration & goal achievements*

To encourage and motivate the students to get good academic results, they need to be honoured and rewarded from time to time. Poornima Group of Colleges to achieve this goal, felicitates the students every year on the occasion of KALANIDHI: the

annual prize distribution ceremony. The following awards based on academic and overall performance of students are given on annual day of respective PGC institutions which work as the inspirational source for the growth and progress of PGC in all sectors of academics and non-academics, making its students more and more enhanced and competitive in the present scenario. The following details highlight the policy of PGC regarding the awards & scholarship distribution to the students for different categories.

SHANTI DEVI MEMORIAL SCHOLARSHIP

1. Laptop at Entry Level for students securing RPET ranks up to 2000 and admitted under RPET quota or AIEEE ranks up to 45000 and admitted under AIEEE quota.

2. Laptop to students studying in B. Tech 1st year securing 75% & above marks in all the theory papers of Rajasthan Technical University examination in 1 semester, with no back paper.

AWARDS

1. Gold Medal & Certificate for one boy and one girl topper of B. Tech. I, II, III & IV year.

2. Silver Medal & Certificate for toppers of each subject of B. Tech. I year.

3. Silver Medal & Certificate for toppers of each section of each branch of B. Tech. II, III, & IV year.

4. Merit Certificate to II & III Ranker of each section of each branch of B. Tech. II, III, & IV year.

5. Cash Award of Rs. 5100/- & Certificate to best project: Software & Hardware to B. Tech. IV Year student.

6. Cash Award of Rs. 2100/- & Certificate to best seminar to B. Tech. IV Year students.

7. Cash Award of Rs. 1110/- & Certificate to best non-syllabus Seminar to B. Tech. I, II, & III year students.

8. Casb Award of Rs. 1110/- & Certificate to best non-syllabus Project to B. Tech. I, II, & III year students.

9. Arun Chandra Singhi Memorial Best student Award & Certificate to B. Tech. IV Year student (Rs. 5100/- each to best boy & best girl).

10. Cash Award of Rs. 1100/- each & Certificate to three boy & three girls of B. Tech. IV Year.

11. Cash Award of Rs. 1100/- each & Certificate to two boys & two girls of B.Tech. III Year.

12. Cash Award of Rs. 1100/- each & Certificate to one boy & one girl of B. Tech. II Year.

13. Cash Award of Rs. 2100/- each & Certificate to two boy hostellers & one girl hosteller.

14. Cash Award of Rs. 1100/- each & Certificate to one best boy & one best girl Hostel Mentor among B.Tech. II, III & IV year and MBA each.

15. Cash Award of Rs. 501/- certificate from each year of B.Tech. I, II, III & IV Year for best attendance.

16. 42 Awards (to be decided among all students of PGC in proportion to total number of students) of Rs. 501/- each to best volunteers during each academic year to be distributed at the time of blood donation camp by Jain Social Group.

FACULTY PERFORMANCE AWARDS: *Tradition of honoring the Gurus*

Felicitation of students is a tradition and requirement of each and every educational organization to encourage and motivate them to give their best. But, here at Poornima to honor the staff and faculty members is a tradition which is generally not followed in educational institutes. On every Republic and Independence Day, the star performers i.e. the faculty who have contributed their best in the university results and the staff members who have contributed their efforts for the growth of Poornima are felicitated with cash amount and certificates of appreciation. Below is a list of top 50 out the total faculty performers who have been honoured by the management of Poornima since its inception.

TOP STAR PERFORMERS OF
PGC FOR A PERIOD OF 2000-2013

S. No.	Name of Faculty	No. of Awards	S. No.	Name of Faculty	No. of Awards
1.	Ms. Kulsum Bano	32	26.	Ms. Yashika Saxena	15
2.	Ms. Himanshu Shekhawat	28	27.	Mr. Devendra Gupta	14
3.	Ms. Swati Jain (MBA)	26	28.	Mr. Giriraj Methi	14
4.	Ms. Ranu Sharma	22	29.	Ms. Himanshu Rathore	14
5.	Mr. Brijraj Singh	20	30.	Mr. Manish Singhal	14
6.	Ms. Nidhi Tak	20	31.	Ms. Pooja Sharma	14
7.	Dr. Priti Kaushik	20	32.	Mr. Sunil Gupta	14
8.	Ms. Astha Malik	19	33.	Mr. Lalit Gehlot	13
9.	Ms. Geetika Patni	19	34.	Mr. Rakesh Kumar Goyal	13
10.	Dr. Bina Rani	18	35.	Ms. Samriddhi Jain	13
11.	Ms. Karishma Sharma	18	36.	Ms. Sangita Choudhary	13
12.	Dr. Chandni Kriplani	17	37.	Mr. Ajay Khunteta	12
13.	Ms. Jaya Pareek	17	38.	Mr. Amish Dugar	12
14.	Mohd. Rizwanullah	17	39.	Mr. Amit Srivastava	12
15.	Dr. Rekha Nair	17	40.	Mr. Amol Saxena	12
16.	Ms. Shazia Haque	17	41.	Mr. Deepak Kumar	12
17.	Mr. D. S. Kumani	16	42.	Ms. Mahima Kapoor (Khanna)	12
18.	Dr. Neeraj Jain	16	43.	Ms. Swati Jain (PCE)	12
19.	Ms. Soni Vijayvargiya	16	44.	Ms. Swati Singh	12
20.	Mr. Sunny Dawar	16	45.	Mr. Vinod Kumar	12
21.	Ms. Monika Surana	15	46.	Mr. Abhayjeet Singh	11
22.	Ms. Priyanka Khandelwal	15	47.	Mr. Amit Gupta	11
23.	Ms. Sakshi Sharma - II	15	48.	Mr. Amit Kumar Sharma	11
24.	Mr. Sanjay Kumar Gupta	15	49.	Mr. Bhoopesh Kumawat	11
25.	Mr. Sumit Srivastava	15	50.	Ms. Eti Khatri	11

INITIATIVES & INNOVATIONS TAKEN AT PGC LEVEL

POORNIMA EMPLOYABILITY ENHANCEMENT MISSION (PEEM)

In order to improve the career prospects of students of B. Tech., the management of Poornima Group of Colleges launched PEEM in the month of July, 2013 with an aim to prepare the budding technocrats for the challenges faced by them in cracking the job interviews. About 1350 students were put through the online tests for the evaluation of their aptitude and skills and 800 of these students were found eligible on the grounds of various parameters dealing with the subjects like Quantitative Aptitude, Logical Reasoning, English Classes, Group Discussion, Personal Interviews and Online Tests. The motive behind the existence of PEEM is to make the students more competent in solving the written papers of various companies and to boost them up with utmost confidence for facing the interviews and to be successful in placement.

POORNIMA PROFESSIONAL SKILLS & KNOWLEDGE ENHANCEMENT PROGRAMME (P-PROSKEP)

P-PROSKEP is the need of the hour to make the Poornimites more employable, competent and adequate for the purpose, as the program enhances employability probabilities of the students at on-campus and off-campus levels. It aims to incorporate development of professional skills and lateral knowledge of the students. To facilitate students with a platform where they can develop and hone communication skills, behavioral skills and personality changes in the students is the focus area. P-PROSKEP provides an opportunity for the students to explore themselves beyond the set limits of their university curriculum. The learner-centered program believes in the philosophy that creates an environment of inquiry, exploration and learning in the true spirit of education, managerial skills, and career management skills so that they become obvious choice for industry and the corporate world.

ONLINE-EXAMINATION

Digitalization has changed the way people used to look at education structure decades ago. With this digital world, new pattern of examination i.e. Online Examination was introduced to make the students academically sound in technical and non-technical subjects. It focuses on confidence build up targeting the subjects where improvement is needed. This exam is mandatory as it is the eligibility criterion for the students to appear in the mid-term exams conducted at Poornima. The examinee gets sufficient time to think, understand, analyze and answer with reasoning and answering skills during the online exam. Online eligibility examination is conducted for one hour exam on weekly basis through the help of technical tools and instruments. The result makes the students confident to appear in upcoming exam.

SELF HELP GROUPS

Self Help Group, as the name suggests, is a group of 5-6 members helping each other to perform well in academics. The members of each Self Help Group coordinate their efforts for producing quality output of the task given to them. A coordinator is assigned for each group who manages the activities and solves the problems in a team. The tasks given are based on numerical, calculations, descriptions, figures, contents and concepts. It also helps in improving the

quality of assignments and lab experiments. Every member of the Self Help Group shares their knowledge and ideas with other members of the group. Self Help Group has proved to be highly beneficial. It enhances individual knowledge and skills and inculcates team work and leadership quality. Self Help Group has been a blessing for all students and has proved to be one of the best options for transfer of the knowledge.

TUTOR SYSTEM

At PGC, every student is assigned a tutor, who works as a friend, philosopher and guide. Necessary guidance in studies and career related issues are resolved by the tutors. A student can share his/her personal problems, can discuss failures and explain his/her desires with the tutor. A tutor helps in critical discipline issues, keeps record of attendance, important facts and analyze overall performance of every student in his/ her group. Tutor helps a student in removing weaknesses for facing troubles and handling difficult situations. Tutor even acts as a counselor who conducts personal sessions with students for sorting their issues.

MENTORSHIP

Mentor, a trusted friend, counselor is a most crucial and important word for the student who enters in the first year of college life. A transition from school to college is accompanied with a wide range of dilemma related to intellect as well as one's outlook towards life. At this stage, something that a student actually needs is someone who can look up to and search for all those random questions rising in one's mind. Mentorship, an intensive concept of Poornima hostels, is an answer to all such needs of a fresher in which new comers are paired with seniors, who advice and guide them through personal and professional issues.

NBA ACCREDITATION

NBA accreditation ensures the well-being of an institution in concern of infrastructure, finance, placements and other supporting sources which are required to maintain the quality and standard of any educational institution. The NBA accreditation reflects functioning of organization in sense of academics and other non-academics matters. The departments which were crowned at PGC with NBA accreditation are EE, ECE, ME & CE branches of PCE. The excellent result performance in field of academics and non- academics proves itself as a yardstick to get the NBA Accreditation and PGC feels proud to have it.

INDUSTRIAL VISITS AND INTERACTION

Industrial visits are considered as one of the most tactical methods of teaching. It makes our students know things practically through practices. Moreover, it gives exposure from academic point of view. We take a group of students for a guided tour into the premises of various industries, providing them information about the background of companies and their current position in the global business scenario.

PGC provides a huge platform to the students to be in touch with industries through the following ways:

1. Establishment of Industry-Institute Partnership /Interaction Cell;
2. Organizing Workshops, Conferences and Symposia with joint participation of the Faculty members and the industries;
3. Encouraging engineers from industry to visit institutes of PGC to deliver lectures;
4. Arranging visits of staff members to various industries;

5. Professional consultancy by the faculty to industries;

6. Joint research programs and field studies by faculty and people from industries;

7. Visits of faculty to industry for study and discussions or delivering lectures on subjects of mutual interest;

8. Visits of industry executives and practicing engineers to the institute for seeing research work and laboratories, discussions and delivering lectures on industrial practices, trends and experiences;

9. B. Tech. & M. Tech. projects/dissertation work in industries under joint guidance of the faculty

members and experts from industry;

10. Practicing engineers taking up part-time M. Tech./Ph.D. program at academic institutions of repute;

11. Short-term assignment to faculty members in industries;

12. Visiting faculty/professors from industries;

13. Professorial Chairs sponsored by industries at the Institute;

14. R&D Laboratories sponsored by industries at the Institute;

15. Practical training of students at multiple industries;

COLLABORATIONS WITH IBM, INFOSYS & WIPRO IBM SOFTWARE CENTER OF EXCELLENCE

IBM has been working with colleges and universities across the country to teach students and open standard skills so that they may compete in the ever changing technology workplace. This offers a wide range of technology education benefits that can be scaled to meet the goals of most educational institutions. The mission of IBM professional certification provides a reliable, valid and fair methods assessing knowledge & developing the highly skilled certified professionals. Collaboration with Poornima Group has led to the conduction of different seminars, workshops, certification tests, contests and symposium organized from time to time. Poornima Group has been applauded for its utmost participation in IBM programs organized in the year 2009, 2010, 2012 & 2013. PCE is designated as Center of excellence by IBM and IBM training is aimed in the arena of Rational Application Developer and DB2 which are specially designed program for web-based application and database management. IBM DB2 Centre of Excellence was established by IBM at Poornima which aims at increasing the skill sets of the faculty and students leading the improvement in the quality of technical education, increasing the employability of students and placing the knowledge in a leadership position.

INFOSYS CAMPUS CONNECT PROGRAM

The program started in the year 2004 with a goal of enhancing the quantity and quality in Information Technology system creating the employment opportunities. Infosys has been running different programs since the beginning of this program. Some of them are Generic Foundation Program, Faculty Enablement Program, Soft Skills Program, Train the Trainer program based on the ideology of Deep Drive Technology. The program enhances the overall personality of the students of PGC in order to make them skilled and well reputed in field of academics.

WIPRO MISSION 10 X
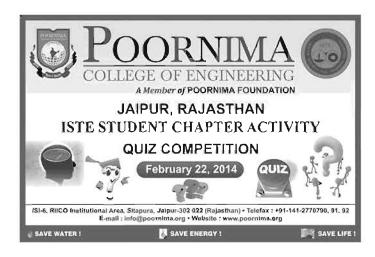
Wipro started MTLC (Mission 10x Technology Learning Centre) with the objective of empowering the employability in engineering education and to ensure the quality of young engineers. It is entirely a nonprofit initiative aiming to improve employability of young Indian engineers. The MTLC was established at PGC in association with WIPRO in order to help the learners to imbibe higher forms of learning using a practice based approach. The association between Wipro and Poornima took place for the systemic change in the existing teaching learning paradigms in engineering education. This involves a large number of faculty members and enhances the skills for better job opportunities. As per the result of this association, Faculty Empowerment Workshop, Mission 10 X Certification Workshop, Mission 10 X Aarambh Learning Program and UTLP based Training Program has been organized since its association with Poornima.

INTERACTION WITH SOCIETIES FOR ACADEMIC BENEFITS OF POORNIMA ASSESTS'

ISTE

Indian Society for Technical Education is a national professional non-profit society, started in 1941 as the association of principal's of technical institutions. The objectives of the society are to assist and contribute in the production and development of top quality professional engineers and technicians needed by the industries and the other organization. Poornima Group of Colleges is an active institutional member of ISTE and 1000 students and 75 faculty members are registered members of ISTE. It arranges technical visits, conferences, practical trainings and encourages team work and sprit of self-reliance among the students and faculties.

ISLE

The Indian Society Of Lighting Engineers, as initiated the process of establishing an internationally recognized education course in Lighting across India as an integral part of its mandate, by signing an MOU with the Lighting Education Trust (LET), UK to promote lighting education in India. The Indian Society of Lighting Engineers (ISLE) was founded in 1984 and is the apex non-profit body of lighting in India. With a wide ranging membership of practitioners in different areas of lighting, the society is actively engaged in the promotion of the Science & Technology and is run by a professional Governing Body comprising eminent technical lighting experts working in the field of illumination engineering. It is actively engaged in promoting education in the field of lighting and conservation of energy. This is a member of CIE, the highest international technical body of the lighting fraternity and has several other international affiliations as well. ISLE (Indian Society of Lighting Engineers) is the exclusive representative of LET (Lighting Education Trust, UK) in India. Initially ISLE plans to tie up with one Institute and evaluate the operation optimization and then extend the implementation of the course in other parts of India in a phased manner.

ISHRAE

Indian Society of Heating, Refrigeration and Air Conditioning Engineers (ISHRAE) is an international

POORNIMA
COLLEGE OF ENGINEERING
Department of Mechanical Engineering
(Approved by AICTE, Accredited by NBA)

**Two Day Workshop
on
Energy Efficiency in Buildings**

In association with
**Indian Society of Heating, Refrigerating and
Air Conditioning Engineers, (ISHRAE)**

16th – 17th September 2013

associate of ASHRAE (American Society). The student chapter is introduced to draw attention and awareness about the newly developed techniques in RAC and HVAC system which updates the knowledge level in global reference. Through various workshops, seminars and projects the students are able to compete in global field of RAC. PGC Chapter is the most active and leading student chapter in Jaipur. Teaching methods followed by the PGC Institutions are very innovative including maximum practical exposure and are dynamic enough to motivate the students participating in them with full enthusiasm and enable higher retention of the course content, thus making the programs overall more effective. ISHRAE Foundation Trust was formed in 1995, mainly to consolidate the Society's resources and to channel them towards projects necessary for achievement of aims.

IEEE

The Institute of Electrical and Electronics Engineers is a professional association that is dedicated to advancing technological innovation and excellence having 425,000 members in about 160 countries. The IEEE is incorporated under the Not-for-Profit Corporation which was formed in 1963 by the merger of the Institute of Radio Engineers and the American Institute of Electrical Engineers . IEEE's Constitution defines the purposes of the organization as "Scientific and educational, directed toward the advancement of the theory and practice of Electrical, Electronics, Communications and Computer Engineering, as well as Computer Science, the allied branches of engineering and the related arts and sciences. The goal of the IEEE education programs is to ensure the growth of skills and knowledge in the electricity-related technical professions and to foster individual commitment for continuing the education among IEEE members, the engineering and scientific communities, and the general public.

TRAINING AND PLACEMENT CELL OF PGC:

A center of knowledge application & its result

Placement drive is one of the most important aspects which have become the important parameter in selection of PGC during admissions. It plays a great role for every organization as it seeks professional to fill up the right positions because companies, these days, rely on campus recruitments for getting the right resources for a company. The students get exposed to the corporate environment at the right time and learn how to prepare themselves for the corporate competition. PGC takes care of the need of students regarding their future job profile and it organises campus drives to get the students placed in a good companies. This common platform provides excellent opportunities to companies to interact with the students who excel in academics. PGC offers a smooth path for a student to enter the job market straight from its campus. All activities related to recruitment and its process is thoroughly followed in PGC making its students eligible for placements by enhancing their skills through the conduction of multiple academic and competitive activities.

EDISON LAB – R & D LAB

R & D lab at PGC has been considered as the important part of curriculum which was proposed by Rajasthan Technical University for the students of EE and ECE students. This lab is named after one of the greatest inventors of all times, Thomas Elva Edison. This lab is fully equipped with some of the finest apparatus for circuit designing and other research areas. The significance of R & D Lab can be highlighted in the following points:

- To promote research and development activities in the institution;
- To equip the students and the faculty members with latest advancement in the technological areas;
- To provide engineering consultancy and research in innovative areas;
- To enhance the engineering education with research orientation fulfilling the technical needs of industries;
- To furnish an advance infrastructure with rich collection of library;
- To support the research work with the grants received from Government.

POORNIMA ALUMNI ASSOCIATION (PAA)

To maintain a strong alumni association & connection with the passed out students, PAA has been functioning successfully since its establishment focusing on Relationship, Participation, Advocacy and Feedback. As, it is essential to create a platform where all the alumnus as well as present students can get information & happenings about their college & establish a better social and professional network leading to the growth and development of our institute. With this noble thought in mind, the Executive Committee of the association came with a new portal for the alumni of POORNIMA which works with the vision "To become a must join organization by better informing, organizing and engaging alumni, students, faculties and staff to raise the name of POORNIMA". The cultural events, alumni meet, publishing the magazine and sessions on different topics highlights the prominence of PAA and its conduction from time to time.

POORNIMA
ALUMNI ASSOCIATION

WOMEN IN SCIENCE AND ENGINEERING (WISE)
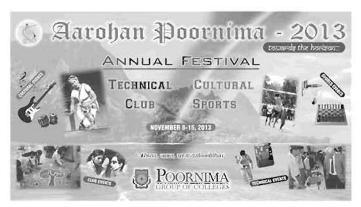
Women in Science & Engineering includes all women of PGC. It is a group which emphasizes on the overall growth of women whether it is their professional or personal life or related to safety measures. PGC does all this through the conductions of different seminars, workshops and lectures etc. This group belongs to females of PGC whether it is the girl students or faculty members.Wise focuses on the increasing number of girls and women studying science, engineering and technology subjects which will enhance their future and life. Recently, a Women Empowerment Drive Program took place on 13 September, 2013 which was based on entrepreneurship skills development in girl students of Poornima. Ms. Nidhi Mehta addressed the audience enlightening the horizons of students on entrepreneurship and women in business. This program was conducted in Arbuda Convention Center and the session had been successful with accomplishment of all its conduction purposes. The gracious presence and guidance of Poornima management makes WISE a complete development club for the growth and enhancement of girl students of POORNIMA.

POORNIMA AAROHAN: *A fest of joy & learning*
PGC organizes AAROHAN the Annual Tech-Cult-Sports Fest every year in order to promote technical and academic oriented activities among students providing them the platform to showcase their aesthetic talents. It is a Tech-Cult-Sports Fest which

encompasses all the fields of engineering. Aarohan helps the students in excelling them in aspects of academics and non-academics activities that displays their hidden qualities and talents. This talent truly gives a rise to young technocrats from all frontiers to battle and add a jewel to the crown of Poornima Group. This is a platform of interaction, motivation, guidance, leadership, perfection, performance, appraisal, discipline, glory, quality maintenance, teaching, learning, affection and confidence, high morale and so on. It develops managerial skills and makes them disciplined while executing their assigned duties. During Aarohan, the Poornimites gets acquainted with all those factors which are beyond the boundaries of academics and remains untouched from them due to lack of confidence and shyness of students in showing their skills. But Aarohan unveils all the hidden skills of students and makes them more confident and Poornimite in real sense. The events are organized under the four heads as Technical, Events, Sports Events, Club Events and Cultural Events.

POORNIMA PRAYOGAM:

PRAYOGAM offers a platform to students to present and exhibit their technical skills expressing Poornima philosophy-of giving importance to conceptual learning and implementation rather than mere study of theory to retain knowledge. This event also gives a chance to the technocrats to fulfill the social responsibilities and create awareness about the glorious aspects of engineering. In this event students from all the branches and years gather to display their projects and ideas in front of their fellow mates and students coming from other institutions as well. The objective of the technical fest is to establish a firm technical foundation among the students and to develop deliberate interest about creating projects by themselves. It also helps our students to open up the domains of technical arena so that they could think and come up with the new ideas and perspectives.

CHAIRMAN'S
REPUBLIC DAY ADDRESS
26th January 2014

I sincerely greet and heartily congratulate all faculty members, staff and dear students of Poornima Group of Colleges on this auspicious occasion of the 65th Republic Day of India of our beloved country- India, today –the 26th of January 2014. On this auspicious and joyous occasion, I extend my warm greetings and best wishes to all of you, the members of the Poornima Family, who have gathered here to be a part of today's celebrations.

Today let us remember and recall the numerous sacrifices made by our freedom fighters and valiant soldiers, who laid down their lives first for the cause of winning us independence and then for preserving and strengthening this precious gift of freedom. On behalf of everyone present here, I express deepest gratitude and pay them homage with highest respects. Let us also spare a moment and a thought for all the visionary leaders who led India on its path to freedom and then, through their collective wisdom, compiled an exceptionally brilliant document – the Constitution of India, to secure all its citizens justice, liberty, equality and fraternity which has been the guiding beacon and the unifying factor in our journey as a nation.

64 years ago, on January 26, 1950, the founding fathers of India's nationhood shaped the destiny of the country by creating India as a sovereign, secular and democratic republic. On this occasion, we gratefully recall the sacrifices of millions of freedom fighters and unsung martyrs of an earlier generation, who suffered and labored so that we should be free and sovereign today. I hope today's generation can feel the importance of this National Day of joy. The last 64 years have indeed been years of progress for the nation, in several fields: social, economic, political, scientific and technological.

हमें विश्व के सबसे बड़े लोकतांत्रिक देश होने का गर्व है। हमारा लोकतंत्र धीरे–धीरे परिपक्व हो रहा है। हम पहले से कहीं ज्यादा समझदार होते जा रहे हैं।

India is a huge country with a glorious and rich heritage. Lots of different religions, cultures, traditions, customs and languages stand alongside, but the overall and unique feeling of "being an Indian" doubtless unites all inhabitants. American ambassador and economist John Kenneth Galbraith: termed India, as a functioning anarchy. The challenge for the leaders was, is and will always be, to keep the existing unity of India in spite of all the religion and political differences. India managed to make its 1.2 billion of inhabitant progress at the same rhythm, an Indian rhythm, from North to South, towards modernity and by keeping its customs, its culture and its ways of thinking and living.

India today is amidst a host of problems that stand in the way of her progress. Overpopulation, pollution, illiteracy, unemployment, communal disharmony, lethargy and corruption are certain examples which need serious attention in order to make India a developed country. The year 2013 that has gone by was a year of missed opportunities. India has to face Security and Strategic Challenges in 2014. The security environment in the extended South Asian region as well as China, Myanmar is an area of concern.

India must retrieve lost ground in 2014. Policy-makers all over the world are groping in the dark, trying to find a solution to the best economic model to build a stable and sustainable economy. The experience of the last thirty years shows that both the socialist and free market economic systems have failed. "Agriculture is more revolutionary than industry. In twenty five years, Israel increased its agriculture yields seventeen times. This is amazing. People don't realize this. Agriculture is ninety five per cent science, five per cent work."—Shimon Peres, President of Israel.

India is an agriculture oriented country. What we need today is to devise a new model of economic development based on the Gandhian ideology. This in practice would mean that public policy should give massive support to agriculture on which more than half the population of the country depends for their livelihood and make it a remunerative occupation on par with industry and the service sector.

A country becomes great, when every citizen thinks and acts with greatness. Today the greatest challenge before the present generation is to ensure equality of opportunities, of good education for all the children. Our education system has to develop great thinking capabilities to have creative minds in each student. Present generation has to decide and perform so that future generation lives in the glory of nation being a super power (in terms of work force), as past generations sacrificed their lives to ensure independence for us. Every student has to have confidence in his knowledge and acquired skills for seeking jobs in this knowledge era. Good schools and educational institutions imparting excellent education for the growing youth population is a key factor to future of India in particular and the entire world in general.

Over the past decade, the burst of new technologies has been breathtaking—and often revolutionary. Computerization, nanotechnology, biotechnology, and robotics have changed the way engineers design and build. Pilotless drones track human footprints to help locate bombing targets. Tiny molecular robots made from DNA seek out and destroy cancer cells, leaving healthy cells intact. Brain implants enable humans to control prosthetics by merely thinking what they want them to do. Driverless cars are just around the corner. All these developments are a blessing if used in right manner, otherwise can become a curse. The engineers of tomorrow must grapple with technology that not only empowers humans with spectacular new tools but also threatens to break free of human control.

Today the greatest challenge before the present generation is to ensure equality of opportunities, of good education for all the children. Our education system has to develop great thinking capabilities to have creative minds in each student. Today's students will start working and shouldering national responsibilities. Teachers have to educate them on the need to recognize the equality of men and women in our democracy, and to strengthen 'the dignity of the individual and the unity of the nation', as our Constitution proclaims. To strengthen our democracy, teachers must instill our ancient cultural spirit of tolerance and acquaint them with the modern wisdom.

"We have to develop brand India by focusing on 5Ts'—talent, tradition, tourism, trade and technology. We can use them to build the brand of the country because I feel terrorism divides but tourism unites," Modi said. "We want to open up the locked political system. The opposition does not want that. They like to see that people are kept out of it and the system continues to be run by bureaucrats. We want the system to be run by the aam aadmi... Whatever we do, we will do for you. The country will be strengthened only when those are strengthened in whom the real power of the nation lies," Rahul Gandhi said. Kejriwal wants to change the way Indians govern themselves. He hopes to bring "truly participative" democracy where assemblies of voters called gram sabhas (rural) and mohalla sabhas (urban) will decide what is best for them instead of some Central planner sitting in Delhi.

We are watching the birth of a new sense of nationhood in India, drawn from the aspiring middle classes in its cities and towns, who are linked together by commerce and technology. They have common aspirations and ambitions, a common Indian dream—rising standards of living, good government, and a celebration of India's diversity. That

might not be as romantic a basis for nationalism as in days of old, but it is a powerful and durable base for a modern country that seeks to make its mark on the world.

I am sure that we all members of Poornima Family- Students, Staff, Faculty and Administration will rededicate ourselves towards the progress and prosperity of India. We also renew our commitment to working together to ensure progress, peace, stability and security in the country and to the well-being and prosperity of our people. While celebrating this national day, let us also rededicate ourselves to vision and mission of Shanti Education Society.

I congratulate you all and have no doubt that many-many more successes will be ours in coming years. There would be many opportunities and challenges as we move ahead. Many developments in the last few years have brought to our attention the importance of united action to achieve our goals besides emphasizing the need to continue to adhere to the basic values and principles.

Our students should explore the possibilities and opportunities of industry exposure and becoming campus entrepreneure. Beyond Syllabus Projects, Poornima PROSKEP, Poornima Employability Enhancement Mission, Poornima Industry Oriented Learning Programme, Industry Visits etc. are all good opportunities for the all round development of our students. I appeal to all the students to study with passion and curiosity to acquire the knowledge and corporate skill set to make them-selves employable and I appeal to faculty members to impart quality education to the young minds of engineering and management students.

On this republic day, I again salute all the heroes, real life heroes, our soldiers – army, navy and air force who have been protecting our country from strong winds and storms of terrorism that try to spread the virus of hate, terror, selfishness, violence in our peace loving nation. This day, this republic day, I salute all the unsung heroes, the ordinary people, the aam aadmi who continue to work unconditionally for the society, for the country without expecting anything in return.

I pray to the Almighty for unity of minds and our success in every aspect of life. May God almighty bless all of us – all members of POORNIMA PARIVAR – to work tirelessly with full devotion and dedication to achieve our goals and objectives for fulfillment of our mission, and above all for peace and progress of our dear country – wonderful India, bright India, strong India-Incredible India.

I conclude with the wish and prayer that:

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सर्वे भवन्तु सुखिनः, सर्वे सन्तु निरामयाः
सर्वे भद्राणि पश्यन्तु, मॉ कश्चित दुःखी भाग भवेतः।

Let everyone be happy & healthy,

Let everyone be free from the greed,

Let everyone look to the good of others,

May none suffer from any sorrow.

</div>

<div align="center">

JAI JAI POORNIMA SANSTHAN, JAI HIND, VANDE MATARAM

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<div align="right">

Dr. S.M. Seth
Chancellor, Poornima University &
Chairman, Poornima Group of Colleges
(Former Director, NIH, Roorkee)

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BIRD'S EYE VIEW
POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY

During the past 100 years, society has been transformed by the efforts and magnificent accomplishment of engineers. Science stands at the crossroads today. The genius and the talent of the world's engineers have truly transformed the way people live. The rapid growth of engineering and technology education globally require the proper maintenance of academic quality in educational institutions in order to withstand competition in the global market.

Poornima Institute of Engineering & Technology campus is a learning home for over 1836 students. PIET was established in the year 2007 under the umbrella PJ foundation. PIET has always been trying to achieve its mission to create a knowledge based society with scientific temper, team spirit and dignity of labor to face the global competitive challenges. Since its inception, it has left no stone unturned, witnessing its day-by-day success, proving itself a milestone in the field of technical education all over Rajasthan turning young budding engineers into skillful and professional technocrats for the betterment of the society with technology and its inventions. PIET plans on achieving this through entrepreneurship, research and innovative teaching methodology. PIET, located on the plots of ISI-2 of RIICO Institutional Area, Sitapura, Jaipur has been working for the growth and development of students both academically and professionally. In PIET, students are provided with the facilities to acquaint with different kinds of novel technological functioning that they may come across with during their working profile. PIET is truly emerging as the nurturing ground for leadership. It is becoming synonymous with practical, industry-focused education and is attracting students from across the contry.

The fact that POORNIMITES are today a familiar face in the industry is a demonstration of its total commitment to excellence in academics.

ENGINEERING BLOCK: Engineering block of PIET campus has three floors apart from a basement. It has airy and well-ventilated lecture theatres christened on the name of great scientists, i.e. Sir C. V. Raman, Sir Isaac Newton, Sir Albert Einstein, Sir Charles Babbage, Sir Thomas Edison, Sir Graham Bell, tutorial rooms, well equipped labs with wide variety of equipments and enough open space, attempting towards enlightening the students through its quality output. Technically advanced campus of PIET creates a sound impression of an ideal campus for technical institution focusing on its mission and vision.

ADMINISTRATIVE BLOCK : This block of PIET campus is regarded as the Central House of Poornima Group of Colleges as it functions as headquarters of PGC, besides housing the offices of top management. The administrative block is an 8000 sq. ft. structure comprising of two floors and a basement, functioning as a multipurpose administration building. It also has group discussion rooms, server room, finance department etc.

AUDITORIUM: The college has a fully air conditioned, well furnished auditorium, Arbuda Convention Centre, fitted with fully operational technical advancement of multimedia and graphics & sound proof audio-video facilities. It has a seating capacity of over 500 people where all presentations and other pragmatic plans are organized. There is an examination hall above the auditorium and six group discussion rooms which make possible an ideal setting for carrying out various examinations, conferences, delivering lectures and for the conduction of different training and placement sessions for a large number of candidates all together.

HIGHLIGHTS OF PIET HOSTEL:

1. PIET has a well constructed Boys' Hostel, i.e. Gurushikhar Boys' Hostel, fully equipped with all the residential facilities for hostellers emulating the ideal academic environment where rules are abided by in their true spirit;
2. Seven hostels with double/triple seated fully furnished comfortable rooms, to have a productive campus life, providing a perfect setting for academic pursuits;
3. Mentorship system helping establish a trusting relationship with accountability and responsibility from the mentor-mentee and transforming students into leaders, entrepreneurs and dynamic technocrats;
4. Students hail from not only Rajasthan but different parts of the country viz. U.P., M.P., Bihar, Jharkhand, Himachal Pradesh, Haryana and Gujarat;
5. 24x7 Wi-Fi enabled surroundings, Internet lab, gym, provision store, cafeteria and library facilities;
6. Recreation room equipped with T.V., reading room with magazines, journals and newspapers, indoor games facilities;
7. Hygienically prepared nutritious and pure vegetarian food;
8. Strict discipline and secured hostels with all cultural and sport facilities;
9. Guest rooms for parents & twenty eight flats for faculty/staff accommodation;
10. Weekly visit by expert doctor & emergency services available for 24 hours;
11. Personality grooming of hostellers through different learning sessions;
12. Celebration of festivals like Janmashtami, Independence Day, Dusshera, Lohri, New Year etc.

Exemplary discipline with desired freedom makes the hostel a home away from home.

LIBRARY FACILITIES AT PIET

Library is the heart, mind and soul of an educational institution and a fountain head of innovativeness, inspiration and insight, both for the students and the faculty. Learning and library are to each other as the light to the lamp. PIET campus has a well furnished library section. Here are some of the features of our library:

- Fully automated and bar coded library;
- Houses books of general interest, magazines and daily newspapers;
- Multimedia library: **CD+DVD=318+812;**
- Separate reference and reading sections;
- Supports the research needs across varied disciplines;
- Audio visual room;
- Opens for seven hours;
- 24 hours nucleus library for hostellers through mentor system;
- **Five** library cards to each student;
- **Eleven** additional library card to meritorious students and mentors;
- Availability of e-journals and **DELNET** facility
- Book bank facility;
- **21454** of volumes (books) in 2014 with total books titles **2786;**
- **23** International Journals, **32** National Journals;
- **81** Periodicals & **1150** online Journals;
- **812** CD's (Books) & **325** CD's (Magazines);
- **NPTEL** Video Lectures;
- **2022** Books with **270** Titles in Poornima School of Management;
- **32** Journals and Magazines;
- **176** Reference Books & **400** CD's available in Poornima School of Management.

OUT PERFORMING THE REST

PGC CUT OFF : PIET has strengthened its position as pioneer in providing technical education since its inception. Here is a glimpse of our cut-offs at Poornima Institute of Engineering & Technology (PIET) Jaipur that stands in support of the above mentioned facts.

RPET			
BRANCH	**START**	**CUT-OFF**	**INTAKE**
CIVIL	3687	20822	126
CE	8509	50330	126
EE	8652	20929	126
EC	13273	60721	63

UNIVERSITY RESULTS : Students of PIET showed their excellence in every field and university results analysis of different batches unveils this fact. Here is an overall view of the student's performance in RTU examinations.

UNIVERSITY RESULTS & STAR PERFORMERS

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. I YEAR, I SEM.)					
Branch	**Total Students**	**Pass Students**	**Result Pass %**	**Toppers**	**% of Marks**
CS	120	90	75.00	*PRIYANT GUPTA*	91.10
EC	121	95	78.51	*BABITA K VARGHESE*	89.50
EE	62	50	80.65	*PULKIT GUPTA*	84.60
IT	44	24	54.55	*EESHA KARN*	87.40
CIVIL	122	98	80.33	*DIGVIJIT SINGH*	86.00
TOTAL	**469**	**357**	**76.12**		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. I YEAR, II SEM.)					
Branch	**Total Students**	**Pass Students**	**Result Pass %**	**Toppers**	**% of Marks**
CS	117	86	73.50	*PRIYANT GUPTA*	91.30
EC	118	90	76.27	*SONALI BANSAL*	89.30
EE	61	51	83.61	*NEHA SONI*	87.70
IT	44	25	56.82	*EESHA KARN*	87.60
CIVIL	120	88	73.33	*BRAHMTOSH DUBEY*	89.80
TOTAL	**460**	**340**	**73.91**		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. II YEAR, III SEM.)					
Branch	**Total Students**	**Pass Students**	**Result Pass %**	**Toppers**	**% of Marks**
CS	123	91	73.98	*ASHUTOSH TIWARI*	83.10
EC	122	74	60.66	*RENU CHOUDHARY*	79.50
EE	63	48	76.19	*ANAND KUMAR*	85.60
IT	53	34	64.15	*NUSRAT SHAHEEN*	84.70
CIVIL	124	94	75.81	*SHREERAM SONI*	85.60
TOTAL	**485**	**341**	**70.31**		

The tragedy in life doesn't lie in not reaching your goal. The tragedy lies in having no goal to reach.–*Benjamin Mays*

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. II YEAR, IV SEM.)

Branch	Total Students	Pass Students	Result Pass %	Toppers	% of Marks
CS	124	100	80.65	AAYUSHI JAIN	82.80
EC	124	75	60.48	MONIKA JANGID	81.80
EE	63	48	76.19	ANAND KUMAR	81.20
IT	53	42	79.25	JYOTSNA PANDIT	84.30
CIVIL	123	76	61.79	SOURABH SINGH CHOUHAN	81.30
TOTAL	487	341	70.02		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. III YEAR, V SEM.)

Branch	Total Students	Pass Students	Result Pass %	Toppers	% of Marks
CE	122	118	96.72	BHARTI AGARWAL	85.60
EC	124	98	79.03	PAYAL MATHUR	84.50
EE	70	50	71.43	DEEPAK GARG	83.70
IT	62	42	67.74	KHYATI SHARMA	85.60
CIVIL	64	48	75.00	ANAMIKA AGNIHOTRI	81.90
TOTAL	442	356	80.54		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. III YEAR, VI SEM.)

Branch	Total Students	Pass Students	Result Pass %	Toppers	% of Marks
CE	122	113	92.62	BHARTI AGARWAL	83.50
EC	122	98	80.33	NOWREENA SHAKDWIPEE	87.00
EE	71	49	69.01	DEEPAK GARG	83.80
IT	62	56	90.32	SHRADHA AGARWAL	83.20
CIVIL	64	52	81.25	ANIL KUMAR	85.80
TOTAL	441	368	83.45		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. IV YEAR, VII SEM.)

Branch	Total Students	Pass Students	Result Pass %	Toppers	% of Marks
CE	131	116	88.55	SHIKSHA AGARWAL	82.90
EC	136	122	89.71	NEGITA JAIN	87.10
EE	69	59	85.51	HONEY KUMAR MOURYA	81.90
IT	55	47	85.45	ARPITA MATHUR	82.70
TOTAL	391	344	87.98		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2012-13 (B. TECH. IV YEAR, VIII SEM.)

Branch	Total Students	Pass Students	Result Pass %	Toppers	% of Marks
CE	131	124	94.66	ROHISHA PANDEY	88.10
EC	136	131	96.32	NEGITA JAIN	88.00
EE	70	63	90.00	VIJETA KUMARI	90.50
IT	55	53	96.36	ARPITA MATHUR	86.40
TOTAL	392	371	94.64		

Our Core Strength

B.Tech. Batch 2013

Computer Engineering (Section- A)

Computer Engineering (Section- B)

B.Tech. Batch 2013

Civil Engineering (Section- C)

Civil Engineering (Section- D)

B.Tech. Batch 2013

Electronics & Communication Engineering (Section- E)

Electronics & Communication Engineering (Section- F)

B.Tech. Batch 2013

Electronics & Communication Engineering (Section- G)

Scintillating Stars

VIII SEM

ARPITA MATHUR
(IT) 86.40%

ROHISHA PANDEY
(CE) 88.10%

NEGITA JAIN
(EC) 88%

VIJETA KUMARI
(EE) 90.50%

Scintillating Stars

VII SEM

ARPITA MATHUR (IT) 82.70%	HONEY KUMAR MOURYA (EE) 81.90%	NEGITA JAIN (EC) 87.10%	SHIKSHA AGRAWAL (CE) 82.90%

VI SEM	V SEM	IV SEM	III SEM	II SEM	I SEM
ANIL KUMAR (Civil) 85.80%	ANAMIKA AGNIHOTRI (Civil) 81.90%	AAYUSHI JAIN (CE) 82.80%	ANAND KUMAR (EC) 85.60%	BRAHMTOSH DUBEY (Civil) 89.80%	BABITA K VARGHESE (EC) 89.50%
BHARTI AGARWAL (CE) 83.50%	BHARTI AGARWAL (CE) 85.60%	ANAND KUMAR (EE) 81.20%	ASHUTOSH TIWARI (CE) 83.10%	EESHA KARN (IT) 87.60%	DIGVIJIT SINGH (Civil) 86%
DEEPAK GARG (EE) 83.80%	DEEPAK GARG (EE) 83.70%	JYOTSNA PANDIT (IT) 84.30%	NUSRAT SHAHEEN (IT) 84.70%	NEHA SONI (EE) 87.70%	EESHA KARN (IT) 87.40%
NOWREENA SHAKDWIPEE (EC) 87%	KHYATI SHARMA (IT) 85.60%	MONIKA JANGID (EC) 81.80%	RENU CHOUDHARY (EC) 79.50%	PRIYANT GUPTA (CE) 91.30%	PRIYANT GUPTA (CE) 91.10%
SHRADHA AGARWAL (IT) 83.20%	PAYAL MATHUR (EC) 84.50%	SOURABH SINGH CHOUHAN (Civil) 81.30%	SHREERAM SONI (Civil) 85.60%	SONALI BANSAL (EC) 89.30%	PULKIT GUPTA (EE) 84.60%

TARGETS FOR YEAR 2013-14
POORNIMA INSTITUTE OF ENGINEERING & TECHNOLOGY

Odd & Even Semester Plan for 2013-14

S.N.	TOPIC	CE(A+B)	IT(A+B)	EC(A+B)	EE(A+B)	Civil(A+B)	I Yr.(A+B)	REMARKS
1.	Internal Special Lectures	24+24	12+12	24+24	12+12	12+12	24+24	at least 3 in each
2.	External Special Lectures	12+12	06+06	12+12	06+06	06+06	12+12	at least 2 in each
3.	Industrial Visits	01	01	01	01	01	06	6 companies per visit
4.	Non syllabus projects	72	36	60	36	54	30	1 project in a year
5.	Department Project	01	01	01	01	01	01	I project in a semester
6.	International Conference	01	01	-	01	-	-	
7.	National/International Conference	-	-	01	01	01	-	
8.	Staff Development Program	02+02	02+02	-	-	-	-	
9.	Conference Papers by Faculty	10+10	05+05	10+10	05+05	05+05	05+05	at least 1 by each faculty
10.	Conference Papers by Students	15+15	10+10	15+15	10+10	05+05	02+02	at least 1 by each
11.	Journal Papers	02+02	01+01	02+02	01+01	01+01	02+02	
12.	Books	01	01	01	01	01	01	
13.	Department News Letters	01+01	01+01	01+01	01+01	01+01	01+01	on Department Day
14.	College Magazine Articles	07	06	05	03	03	12	at least 1 by each faculty
15.	P-PROSKEP Classes	40+40	20+20	40+40	20+20	20+20	0+0	2 hrs. classes
16.	Department Meetings	12+12	12+12	12+12	12+12	12+12	12+12	1 per week
17.	Faculty Meetings	204+216	132+120	216+240	84+120	120+72	240+260	1:1 HOD to faculty
18.	TA Meetings	30+24	12+24	42+24	18+24	18+24	42+70	1:1 HOD to TA (in 15 days)
19.	Department Budget	80%	80%	80%	80%	80%	80%	utilization level
20.	ISTE Chapter	01+01	01+01	01+01	01+01	01+01	01+01	1 activity in each
21.	WISE activity	01+01	01+01	01+01	01+01	01+01	01+01	at PGC level
22.	Social work by students	02+02	02+03	02+02	02+02	02+02	02+05	social work by students
23.	DELNET	06+06	08+08	10+10	05+05	10+10	10+10	at least 1 book/ faculty
24.	Attendance	80%	80%	80%	80%	80%	85%	target expected
25.	Library books	06+06	06+06	06+06	06+06	06+06	06+06	use per faculty
26.	Department Library	50+50	25+25	50+50	25+25	25+25	50+50	started in each department
27.	Tutor meeting with students	36+24	18+24	36+36	18+24	18+24	36+72	1 meeting per fortnightly
28.	Parents interaction	09+09	06+06	09+09	06+06	06+06	09+15	3 per section
29.	Self help group meetings	06+06	06+06	06+06	06+06	06+06	06+06	with coordinators
30.	Placement activity	03+03	03+03	03+03	03+03	03+03	01+01	
31.	Faculty Training Program	02+02	02+04	02+05	02+01	02+01	02+08	attending
32.	Replacement lectures	5%	5%	5%	5%	5%	5%	below 5% in each department
33.	Expected results	80%	80%	80%	80%	80%	80%	Average 80% in all semesters

* A+B: A -Target For Odd Semester & B-Target for Even Semester

FELICITATION CEREMONY

Felicitation of faculty members marks the Independence Day and Republic Day celebrations at Poornima Group of Colleges, Jaipur every year. Faculty members are given incentives and a certificate of merit for giving their best in the results of university examinations by the management of PGC and other dignitaries. Such type of felicitation ceremonies not only appreciate the achievers but also motivate the other faculty members to give their best.

Here's a list of the faculty members felicitated on the basis of RTU results.

Result of Theory Papers (Session 2011-12, Even Sem. & Session 2012-13, Odd Sem.)

S. No.	Name of the Faculty Member	Department	Designation
1.	Ms. Alka Kataria	Chemistry	Assistant Professor
2.	Ms. Anurika Mehta	Chemistry	Assistant Professor
3.	Dr. Gautam Singh	Chemistry	Associate Professor
4.	Ms. Kamod Bhati	Chemistry	Assistant Professor
5.	Ms. Mahima Kapoor	Chemistry	Assistant Professor
6.	Mr. Simranjeet Singh Sudan	Physics	Assistant Professor
7.	Ms. Aarshi Sinha	Physics	Assistant Professor
8.	Mr. Govind Tiwari	Physics	Associate Professor
9.	Mr. Mohit Bajpai	EEE	Assistant Professor
10.	Mr. Anant Bhatt	EEE	Assistant Professor
11.	Mr. Narendra Kumar	English	Assistant Professor
12.	Ms. Apeksha Singh	English	Assistant Professor
13.	Mr. Prince Dawar	English	Assistant Professor
14.	Dr. Shilpi Saxena	Maths	Professor
15.	Mr. Swapnil Jain	Maths	Assistant Professor
16.	Mr. Ashok Kumar	Maths	Assistant Professor
17.	Ms. Kanika Phutela	Maths	Assistant Professor
18.	Mr. Vinod Kumar	Maths	Assistant Professor
19.	Mr. Sachin Nandaria	Civil	Assistant Professor
20.	Mr. Alok Kumar	Civil	Assistant Professor
21.	Dr. Ankita Dadhich	Civil	Professor
22.	Mr. Himanshu Kumar	Civil	Assistant Professor
23.	Mr. Punit Singhvi	Civil	Assistant Professor
24.	Mr. Sunil Kumar	Civil	Assistant Professor
25.	Mr. Paras Bassi	IT	Assistant Professor
26.	Ms. Poonam Malpani	IT	Assistant Professor
27.	Mr. Prashant Hemrajani	IT	Assistant Professor
28.	Ms. Dolly Chandani	IT	Assistant Professor
29.	Ms. Khushboo Garg	IT	Assistant Professor

30.	Mr. Nouman Khan	IT	Assistant Professor
31.	Ms. Pooja Sharma	IT	Assistant Professor
32.	Mr. Puneet Mathur	IT	Associate Professor
33.	Ms. Swati Mathur	IT	Assistant Professor
34.	Mr. Amitesh Kumar	CS	Assistant Professor
35.	Mr. Deepak Moud	CS	Associate Professor
36.	Ms. Deepika Agarwal	CS	Assistant Professor
37.	Ms. Ekta Arora	CS	Assistant Professor
38.	Ms. Heena Joshi	CS	Assistant Professor
39.	Ms. Khushboo Pachauri	CS	Assistant Professor
40.	Ms. Madhuri Gupta	CS	Assistant Professor
41.	Mr. Manish Bhardwaj	CS	Assistant Professor
42.	Ms. Neha Mathur	CS	Assistant Professor
43.	Mr. Pradeep Kumar Natani	CS	Assistant Professor
44.	Mr. Praveen K. Chandaliya	CS	Assistant Professor
45.	Mr. Sandeep Tuli	CS	Assistant Professor
46.	Ms. Shikha Gautam	CS	Assistant Professor
47.	Ms. Shruti Bijawat	CS	Assistant Professor
48.	Mr. Vinod Kumar	CS	Assistant Professor
49.	Mr. Dipesh Kumar Patidar	EC	Assistant Professor
50.	Ms. Rythm Sisodiya	EC	Assistant Professor
51.	Ms. Sumitra Singar	EC	Assistant Professor
52.	Ms. Amandeep Kochar	EC	Assistant Professor
53.	Mr. Amit Kumar Jain	EC	Assistant Professor
54.	Mr. Ankur Saharia	EC	Assistant Professor
55.	Mr. Avinash Sharma	EC	Assistant Professor
56.	Ms. Bhawana Booti	EC	Assistant Professor
57.	Mr. Kalu Ram Prajapat	EC	Assistant Professor
58.	Mr. Kamal Kishore Kumawat	EC	Assistant Professor
59.	Mr. Pawan Jangid	EC	Assistant Professor
60.	Ms. Rachna Gera	EC	Assistant Professor
61.	Ms. Ritu Jain	EC	Assistant Professor
62.	Mr. Sachin Chauhan	EC	Associate Professor
63.	Ms. Suman Agrawal	EC	Assistant Professor
64.	Mr. Sunil Panchal	EC	Assistant Professor
65.	Mr. Suresh Bishnoi	EC	Assistant Professor
66.	Mr. Anil Boyal	EE	Associate Professor
67.	Mr. Anuj Gupta	EE	Assistant Professor
68.	Mr. Rajendra Singh	EE	Assistant Professor
69.	Mr. Surendra Kumar Sharma	EE	Assistant Professor

Always do your best. What you plant now, you will harvest later--Og Mandino

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EVENTS & HAPPENINGS : *Captivating Celebrations*

ORIENTATION DAY "PEHLA KADAM"

Come August, there is hustle and bustle in the college with new students trying to locate their classrooms, identify their teachers, and learn about various activities and clubs. The eager faces and keen eyes motivate the faculty members to look towards another challenging year with fresh vigor and energy. Every year, the college organizes an Orientation Program to enable the fresh entrants to find their moorings in the institution. This year the Orientation Program, Pehla Kadam, was organized on August 05, 2013 in Arbuda Convention Center, PIET, as per the branch specific schedule. Department of I Year, PIET, organized the Orientation Day for Electronics and Communication branch at PGC level. Pehla Kadam proves itself as a benchmark for the start up of engineering academics of the students. Students were welcomed in the campus with Tilak ceremony and were taken to Arbuda Convention Center for interaction with the management of PGC. The students were made to undertake a journey right from the inception of college to its present glory, from its rich traditions to present day innovations. The remarkable dignitaries of Poornima Group made the students aware of their goals related to their academics and professional fields. As per the tradition of PGC, an oath was also taken by the students for moving in the direction of achieving their goals with hard work and full dedication and also maintaining the dignity of the institute. Besides, JEE & RPET rank holders were awarded by Prof. Ajay Kumar Bansal, Campus Director, PIET. This encouraged the merit holders to perform better in future. The session ended with a calm smile on every student's face as now they knew what their college is all about, how they are an integral part of it and how the college offers a whole new world of opportunities.

Students awarded on the basis of JEE and RPET results :

RPET/JEE Rank	Institute	Name of The Candidate	Father's Name	Branch	Mode
465	PCE (I Shift)	Sumeet Kumar	Mr. Ravindra Singh	EC	JEE
563	PCE (I Shift)	Sonu Kumar Singh	Mr. Hridya Kumar Singh	EC	JEE
8762	PCE (I Shift)	Deepak Kumar Anchaliya	Mr. Prakash Anchaliya	EC	RPET
9532	PCE (I Shift)	Shivani Joshi	Mr. Gopal Krishan Sharma	EC	RPET
9585	PCE (I Shift)	Simran Rohilla	Mr. Anil Kumar Verma	EC	RPET
10178	PCE (I Shift)	Riya Agrawal	Mr. Govind Babu	EC	RPET
509	PCE (II Shift)	Rishav Raj	Mr. Rajendra Kumar	EC	JEE
18385	PCE (II Shift)	Sonu Kumar Nagar	Mr. Nand Kishor Nagar	EC	RPET
18979	PCE (II Shift)	Abhishek Saxena	Mr. Sundeep Kumar Saxena	EC	RPET
9580	PCE	Himanshu Mathur	Mr. Alok Mathur	EIC	RPET
17718	PCE	Akshikha Bhanawat	Mr. Sukumar Bhanawat	EIC	RPET
13273	PIET	Arun Kumar	Mr. Lal Chand	EC	RPET
14311	PIET	Komal Sharma	Mr. Mahesh Kumar Sharma	EC	RPET
17388	PIET	Rishi Sharma	Mr. Devender Sharma	EC	RPET
18971	PIET	Yash Bhan Singh	Mr. Uday Bhan Singh	EC	RPET
24385	PGI	Satish Sharma	Mr. Dungar Das	EC	RPET
28629	PGI	Brijesh Pareta	Mr. Chiranji Lal	EC	RPET

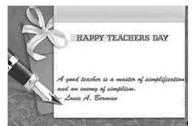Things do not happen. Things are made to happen--John F. Kennedy

SPORTS DAY

Department of I Year PIET celebrated Sports Day on August 29, 2013. On this occasion various indoors like chess, carom playing were organized. Students participated with great zeal and zest and enjoyed the sports day to their fullest.

TEACHER'S DAY CELEBRATION

In India 5th September is celebrated as Teachers' Day as a mark of tribute to the contribution made by teachers to the society. 5th September is the birthday of a great teacher Dr. Sarvepalli Radhakrishnan, who was a staunch believer of education, and was the well-known diplomat, scholar, President of India and above all, a teacher. Dr. S.Radhakrishnan did tremendous work for his country and his disciples. To acknowledge the love and respect to the mentors, teacher's day was celebrated with great enthusiasm in Poornima Group of Colleges on September 5th, 2013. In the PIET campus, a quiz and an essay writing competition on the topic "Teachers as Nation Builders" was conducted in every class. Students also expressed their views on Teacher's day.

ENGINEER'S DAY

Engineering is not merely knowing and being knowledgeable; engineering is not merely analysis; engineering is not merely the possession of the capacity to get elegant solutions to non-existent engineering problems; engineering is practicing the art of the organized forcing of technological change. Engineers operate at the interface between science and society. To identify the great works done by our hard working engineers, each year September 15th is celebrated as Engineers' Day marking the birth day of Sir Mokshagundam Visvesvarayya, recognizing his contributions in the field of Hydel Energy in India.

This year also PIET acknowledged the work of this great engineer by celebrating this day jubilantly. Students were assigned a topic for discussion **"Frugal Engineering-achieving more with fewer resources"** in their respective classes. The students also made a report on how engineers can help in sustainable development. Interaction and discussion on Sir Mokshagundam Visvesveraya and the journey of his life, filled the students with enthusiasm and fervent desire for success.

VISHWAKARMA JAYANTI

Hindus widely regard Vishwakarma as the God of architecture and engineering. Vishwakarma Puja is a resolution time for workers and craftsmen to increase productivity and gain divine inspiration for creating novel products. This ritual usually takes place within the factory premises or shop floor. On September 17, 2013, PIET students celebrated Vishwakarma Jayanti in the esteemed presence of Prof. Ajay Kumar Bansal, Campus Director, PIET. Arrangements were made by the Mechanical Department for the worship of Lord Vishwakarma. Faculty members and the students took the blessings of the divine and sweets were distributed among the devotees.

KALANIDHI- A DAY OF WINNERS

Kalanidhi, an annual prize distribution ceremony of Poornima Group of Colleges, is celebrated every year on October 02. Students are awarded with prize for different categories by the dignitaries and the parents of the winners are also invited to grace the occasion by their presence. Newsletters of various departments are also released at the function by the dignitaries. This year too, Kalanidhi was celebrated by awarding the prizes to the meritorious students and releasing the newsletters of different departments by the diginitaries.

PRAYOGAM-2013

Necessity is the mother of invention and invention leads to creation. Endowing the same saying Poornima Foundation, Jaipur, came up with their innovative & creational display. In order to fulfill the social responsibilities and creating awareness about the glorious aspects of engineering to the upcoming engineers and other responsible youngsters belonging to various streams, Poornima Foundation, Jaipur, organized 3 days Project Exhibition "Prayogam 2013". To develop the scientific event of attitude and to see the operation of machines in live, students were encouraged to work on hands-on practice on various projects like Robo War, Fifa Robo, Dual Mode Robot, Arena etc. which was highly appreciated among the students.

The event was held from November 11, 2013 to November 13, 2013. Inauguration of Prayogam 2013 was done by the Chief Guest (Civil Engineering Block), Prof. (Dr.) P. S. Verma, Chairman RBSE & Retd. Prof. University of Rajasthan and Chief Guest (Mechanical Engineering Block) Mr. Praveen Gupta, Education Secretary, Government of Rajasthan. It showcased a total of 329 technical projects ranging both from hardware and software. About 52 schools of Jaipur witnessed the event.

A list of participants and names of the projects from PIET is as follows :

S.NO.	NAME OF THE PROJECT	CATEGORY	NAME OF THE STUDENTS	BRANCH	YEAR
1.	AIRCRAFT	Hardware	Apoorva Jain, Anil Choudhary, Alka Kumari	CS	I
2.	ROBO RACE	Hardware	Shivangi Vajpai, Rajat Jhakal, Shubhi Jain, Supriya	CS	I
3.	KBC GAME IN C++	Software	Abhishek, Azhar, Rajat Jhakal,	CS	I
4.	BRIDGE	Model	Tanika Sethi, Saurabh Sharma, Vikas Meena, Rohit Gupta	CIVIL	I
5.	WASTE WATER MANAGEMENT	Hardware	Khushal Gupta, Deepak Lohar, Ashish Dudani	EC	I
6.	SECURITY SYSTEM WITH LASER	Hardware	Neelam Swami, Monika Tripathi	EC	I
7.	CYCLE WITH SHAFT	Hardware	Kanwal Deep, Gaurang, Chetan Sharma	CS	I
8.	PORTABLE AC	Hardware	Divyani Gupta, Diksha Marwadi	CS	I
9.	STAIR CLIMBING ROBOT	Hardware	Harsh Arora, Jagjeet	CS	I
10.	AC LED LIGHT	Hardware	Kriti Bhatnagar, Kratika Gupta	CS	I
11.	BUILDING MANAGEMENT WITH SAFETY TOOLS	Model	Ramkishor Yadav, Rahul Batheja Pawan Kumar Yadav, Raghuraj Singh Sisodiya	CIVIL	II
12.	SOLAR HEAT MANAGEMENT ON A RIVER	Model	Simran Gupta, Rohit Tak, Sharad Kumar Sharma, Shubham Khandelwal	CIVIL	II
13.	SUSPENSION BRIDGE	Model	Aishwarya Goswami, Chandra Prakash Pareek, Amit Kumar Meena	CIVIL	II

14.	HOUSE IN MOUNTAIN	Model	Jitendra Kumar, Dheeraj, Imtiyaj Ali Maniyar, Durgesh Kumawat	CIVIL	II
15.	ADVANCE TRAFFIC, CONTROL SYSTEM	Model	Faisal Baig, Ghanshyam Singh, Dinesh Nehra, Govind Pal Singh	CIVIL	III
16.	SUSTAINABLE SOLUTION TO WATER LOGGING PROBLEM	Model	Lokesh Kumar Sharma, Indrabhan Sharma, Kapil Kumar Garg, Jeetendra Singh	CIVIL	III
17.	DRAINAGE SYSTEM IN JAIPUR	Model	Mayank Jain, Manpreet Singh, Mahesh Chand Saini, Jitendra Kumar	CIVIL	III
18.	USE OF WASTE & RECYCLED MATERIAL IN CONCRETE	Model	Prahalad Saini, Prabhu Narayan Choudhary, Praveen Kumar Nama, Prashant Sharma	CIVIL	III
19.	ESTIMATION SOFTWARE	Model	Shreeram Soni, Rohit Jangir, Ramesh, Saleem	CIVIL	III
20.	SEISMIC WAVE SOIL SELECTION TO PREVENT THE DAMAGE DUE IT	Model	Prameshwar Suthar, Nirbhay Kumar Saini, Poonam Chand Jangir, Prakash Pandey	CIVIL	III
21.	SMART BUS TRACKING SYSTEM	Software + Hardware	Khyati Sharma, Devendra Kumar, Priya Choudhary, Karishma Jain	CS	IV
22.	INSTANT MESSAGING APP	Software + Hardware	Kuldeep Mishra, Dheeraj Kumar, Ankita Yadav, Jyoti Verma	CS	IV
23.	I -ORGANIC	Software + Hardware	Devendra Kumar, Devendra Sharma	CS	IV
24.	CONFERENCE MANAGEMENT SYSTEM	Software + Hardware	Nikita Bhargava, Neha Katiyar, Shruti Pareek	CS	IV
25.	VIRTUAL CYBER SPACE II	Software + Hardware	Parth Gupta, Nicky Gupta, Pankaj Maheshwari, Parv Khandelwal	CS	IV
26.	FUNCTIONAL EYE	Software + Hardware	Vishakha Singal, Pratik Sisodia, Tanmay Mathur, Yachana N Bhatia	CS	IV
27.	INTERFACING GRAPHICS LCD WITH CHARACTER LCD USING OMAP (USING ARM PROCESSOR)	Software + Hardware (WIPRO MTLC)	Anjali Jain, Akansha Nag, Antara Mathur, Prashant Agarwal	IT	III

28.	CALCULATOR (USING ARM PROCESSOR)	Software + Hardware (WIPRO MTLC)	Veena Bagmar, Ravinder Nayak Ronin Mittal, Chitra Tambi	IT	III
29.	FACIAL SECURITY GUARD	Software + Hardware	Sneha, Pratibha, Gargy, Yatharth Varshney	IT	III
30.	IDAS FOR VEHICLE SAFETY	Software + Hardware	Nancy Soni, Nilesh Kumar, Shradha Agarwal, Anisha Anchit	IT	IV
31.	HI-TECH VILLAGE	Model	Himanshu, Sagar, Ravi	ECE	II
32.	HI-TECH WHEEL CHAIR FOR DISABLED	Hardware	Rishabh Goyal, Rishabh Bohra Varsha Singh, Ravindra Kelkar	ECE	IV
33.	WEIGHT LIFTING ROBOT	Hardware	Sharad Mathur, Nikhil Kumar, Arvind Kumar Saini	ECE	III
34.	GSM BASED HOME AUTOMATION	Hardware / Model	Hiteshwar Singh, Jogendra Devendra	ECE	IV
35.	HAND GESTURE CONTROLLED ROBOT	Hardware	Jayant	ECE	III
36.	RFID BASED ADVANCED CAR PARKING SYSTEM	Hardware	Rishi Saxena, Rohit Kr. Jain Saghavi Trupali	ECE	IV
37.	ELECTRONIC VOTING MACHINE	Hardware	Abhishek Agarwal, Kapil Garg Jitendra Kumar	ECE	IV
38.	SOLAR POWER GENERATION VIA AUTO TRACKING SYSTEM	Hardware	Axer Patel, Harsh Patel Hemant Patel	ECE	IV
39.	INTELLIGENT TRANSPORT SYSTEM	Model	Ashutosh Puri, Manish Himanshu, Avinash	ECE	III
40.	HI-TECH SECURITY SYSTEM FOR BANK	Hardware / Model	Sachin Arora	ECE	III
41.	INTELLIGENCE OFFICE SYSTEM	Model	Nazmeen Khan, Naresh Sharma Neha Soni	EE	II
42.	WIRELESS INDUSTRIAL DATA TRANSMISSION	Model	Mohit Singh, Navneet Singh Rajpal Singh	EE	II
43.	VEHICLE SPEED CONTROL EXTERNALLY	Model	Ayush Jain, Md Asif Kavish Laxkar, Govind Soni	EE	II
44.	SPEED CONTROL OF DC MOTOR USING RF	Model	Ajit Kumar, Deepak Kumar Singh Shefali Shardul, Amit Prakash	EE	II
45.	SPEED CONTROL OF DC MOTOR USING MOBILE	Model	Lokenra Singh, Shri Niwas Patel Suryapratap Singh	EE	II
46.	ENERGY THEFT DETECTING USING MICRO CONTROLLER	Model	Saurabh Singh Jat, Sagar Choudhary, Sagar Vishnoi	EE	II
47.	BLOWN FUSE INDICATOR	Model	Abhishek Vidyarathi, Harishanker Khatri Goree Shankar, Manish Singhal	EE	IV

Quality is not an act, it is a habit---Aristotle

48.	POWER SAVER DEVICE	Model	Risabh Soni, Balbeer Singh, Manish Agarwal, Rahul Garg	EE	II
49.	AUTOMATIC RAILWAY GATE CONTROLLER	Model	Suresh Yadav, Vikash Choudhry Yash Pandey, Sumit	EE	III
50.	CELL PHONE BASED REMOTE CONTROLLER FOR WATER PUMP	Model	Murlidhar Choudhry, Santosh Kumar Godara Kapil Togra, Sahdev Yadav	EE	IV

AAROHAN 2013...The Rising!!

Aarohan is an annual intra college tech-cult-sports fest organized by Poornima Group of Colleges, Jaipur every year to create an unparallel forum for the students to test their intellectual and artistic prowess, simultaneously opening a venue for sharing mutual experience, skill, talent, in the field of culture, literary, sports, technical and other activities on a common platform. Aarohan 2013 was a week long festival from November 08, 2013 to November 15, 2013.

The events were divided into different categories viz, technical, club or literary, sports and cultural. Technical events included documentary competition, staircase climbing robot, solve the maze, newspaper design, banner design & product brochure, structure design, group discussion, bookies, spell bee, CAD Modeling, crack the code, picture perception, circuit debugging, IQ whereas Club/Literary category included the events like extempore, crossword, Sudoku, free hand sketching, heena creation, t-shirt painting, face painting. Sports was also another major highlight of the fest which included various outdoor and indoors like table tennis, chess, carrom, relay race, shot put, long jump. Cultural events included western, folk or classical group dance, MIME, duet and solo song competition, antakshari.

With diverse technical and non technical events, the fest was a grand spectacular extravaganza.

S. N.	NAME OF THE STUDENT	BRANCH	YEAR	EVENT	POSITION
1.	Sawan Garg	ECE	IV	Banner Design & Product Brochure	First
2.	Rohit Sharma	ECE	IV	Banner Design & Product Brochure	First
3.	Sanjay Singh	ECE	IV	Banner Design & Product Brochure	First
4.	Saurabh Jain	ECE	IV	Banner Design & Product Brochure	First
5.	Sanjay Nainani	IT	III	Documentary Competition	First
6.	Amber Agrawal	IT	III	Documentary Competition	First
7.	Vipin Chouhan	IT	III	Documentary Competition	First
8.	Himanshu Agrawal	IT	III	Documentary Competition	First
9.	Pulkit Somani	CE	III	MIME	First

10.	Shilpa Singh	CE	III	MIME	First
11.	Mrinalini Sharma	CE	III	MIME	First
12.	Taruna Pal	CE	III	MIME	First
13.	Shubhra Vyas	CE	III	MIME	First
14.	Payal Dadhich	CE	III	MIME	First
15.	Monika Sharma	CE	III	MIME	First
16.	Vaibhav Soni	CE	III	MIME	First
17.	Dheeraj	CE	III	MIME	First
18.	Divya Agrawal	IT	IV	4*100 m Relay (Girls)	First
19.	Akshita Gupta	IT	IV	4*100 m Relay (Girls)	First
20.	Tanya Sachan	IT	IV	4*100 m Relay (Girls)	First
21.	Akansha Nag	IT	IV	4*100 m Relay (Girls)	First
22.	Gopal Kr. Swami	CE	IV	400 m Race (Boys)	First
23.	Arpita Rathore	CE	IV	400 m Race (Girls)	First
24.	Arpita Rathore	CE	IV	200 m Race (Girls)	First
25.	Monika Uday	ECE	II	Table Tennis (Girls)	First
26.	Ravikant Bairwa	EE	III	Shot Put (Boys)	First
27.	Kanak Divya	IT	II	Shot Put (Girls)	First
28.	Arvind Kumar Suthar	EC	IV	Bookies	First
29.	Avinash Bhardwaj	CE	II	Web Page Modeling	First
30.	Jagrat Gupta	EC	IV	Picture Perception	First
31.	Bhuvnesh Kumar Goyal	CIVIL	I	Housie	First
32.	Pragya Arya	CE	I	Group Dance (Folk/Classical)	First
33.	Navya Bhatia	CE	I	Group Dance (Folk/Classical)	First
34.	Neha Kukreja	CE	I	Group Dance (Folk/Classical)	First
35.	Varsha Manglani	CE	I	Group Dance (Folk/Classical)	First
36.	Surbhi Sharma	CE	I	Group Dance (Folk/Classical)	First
37.	Saloni Kumawat	CE	I	Group Dance (Folk/Classical)	First
38.	Shubham Jain	CIVIL	II	Structure Design	First
39.	Simran Gupta	CIVIL	II	Structure Design	First
40.	Vidhyavati	CIVIL	II	Structure Design	First
41.	Sona Ram	CIVIL	II	Structure Design	First
42.	Yogesh Agrawal	CIVIL	II	Structure Design	First
43.	Ashwani Darji	EE	IV	Dodge Ball (Boys)	First
44.	Hitendra Singh Rathore	EE	IV	Dodge Ball (Boys)	First

45.	Sanmit Jain	EE	IV	Dodge Ball (Boys)	First
46.	Shubham Jain	EE	IV	Dodge Ball (Boys)	First
47.	Shivam Pandey	EE	IV	Dodge Ball (Boys)	First
48.	Somesh Kumar	EE	IV	Dodge Ball (Boys)	First
49.	Gaurav Upadhyay	EE	IV	Dodge Ball (Boys)	First
50.	Kapil Singh Shekhawat	EE	IV	Dodge Ball (Boys)	First
51.	Priyanka Baijal	CE	III	4*100 m Relay (Girls)	Second
52.	Shubhra Vyas	CE	III	4*100 m Relay (Girls)	Second
53.	Monika Sharma	CE	III	4*100 m Relay (Girls)	Second
54.	Taruna Pal	CE	III	4*100 m Relay (Girls)	Second
55.	Pankaj Badesra	ECE	I	400 m Race (Boys)	Second
56.	Shivam Choudhary	CE	III	Long Jump (Boys)	Second
57.	Mohit Sharma	ECE	III	Shot Put (Boys)	Second
58.	Piyu Purohit	EE	IV	Poster Design	Second
59.	Harsh Khatri	CE	IV	IQ Meter	Second
60.	Shubhi Jain	CE	I	Bookies	Second
61.	Raghav Maheshwari	CE	I	Spell Bee	Second
62.	Ankit Kumar Gupta	CIVIL	IV	CAD Modeling	Second
63.	Pankaj Maheshwari	CE	IV	Crack the Code	Second
64.	Shashi Devendra P. Goyal	CE	III	Programming Challenge	Second
65.	Shubham Jaiman	EC	IV	Circuit Debugging	Second
66.	Yatender Sharma	CE	II	Picture Perception	Second
67.	Anamika Agnihotri	CIVIL	IV	Sudoku	Second
68.	Gargy	CE	IV	Free Hand Sketching	Second
69.	Pallavi Khosla	CE	I	Nail Art	Second
70.	Abhishek Jain	ECE	I	Aarohan Newspaper Design	Second
71.	Tarun Banthia	ECE	I	Aarohan Newspaper Design	Second
72.	Hemant Gupta	ECE	I	Aarohan Newspaper Design	Second
73.	Nitin Sharma	ECE	I	Aarohan Newspaper Design	Second
74.	Chitra Verma	ECE	I	Aarohan Newspaper Design	Second
75.	Aradhana Bhardwaj	ECE	I	Aarohan Newspaper Design	Second
76.	Dimpy Nathary	CE	IV	Rangoli	Second
77.	Bharti Agrawal	CE	IV	Rangoli	Second
78.	Garima	CE	IV	Rangoli	Second
79.	Khushboo Jain	CE	IV	Rangoli	Second
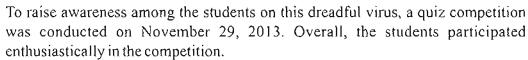
80.	Alok Kumar	ECE	II	Solve the Maze	Second
81.	Aditya Gupta	ECE	II	Solve the Maze	Second
82.	Shagun Sharma	ECE	III	Structure Design	Second
83.	Akshay Patni	ECE	III	Structure Design	Second
84.	Abhishek Pareek	ECE	III	Structure Design	Second
85.	Udit Asopa	ECE	III	Structure Design	Second
86.	Nikhil Sen	ECE	III	Structure Design	Second

WORLD'S AIDS DAY

World Aids Day is an opportunity for people worldwide to unite in the fight against HIV, show their support for people living with HIV and to commemorate people who have died. World AIDS Day is important as it reminds us that HIV has not gone away, there is still a vital need to increase awareness, fight prejudice and improve education.

To raise awareness among the students on this dreadful virus, a quiz competition was conducted on November 29, 2013. Overall, the students participated enthusiastically in the competition.

VASANT PANCHAMI

Vasant Panchami is an important Indian festival celebrated every year in the month of Magh according to the Hindu calendar and is celebrated on the fifth day of Magh. The significance of the day lies in the worship of Goddess Saraswati, symbol of wisdom and also the onset of spring season. Like every year, this time too Vasant Panchami was celebrated with great devotion in PIET campus. Hawan and other rituals were performed by Prof. Ajay Kumar Bansal, Campus Director, PIET with his spouse admist the enchanting of shlokas by the students and faculty members. After all the rituals, everyone took the blessings of Maa Saraswati and devotees were offered the Prashad.

NATIONAL SCIENCE DAY

National Science Day is celebrated as the one of main science festivals in India every year on February 28 to mark the discovery of the Raman Effect by Indian Physicist Sir C.V. Raman on 28 February, 1928. This day is being celebrated to widely spread a message about the significance of scientific applications in the daily life of the people, to display all the activities, efforts and achievements in the field of science for human welfare, to discuss all the issues and implement new technologies for the development of the science, to give an opportunity to the scientific minded citizens in the country and to encourage the people as well as popularize science and technology. PIET I Year Department organized a quiz competition on February 28, 2014 in the respective classes and the students were also made aware about the journey of Sir C. V. Raman's life. The activity was coordinated by the Mechanical Department.

INTERNATIONAL WOMEN'S DAY CELEBRATION

International Women's Day, also called International Working Women's Day, is marked on March 8 every year. In different regions, the focus of the celebration ranges from general celebration of respect, appreciation and love towards women to a celebration for women's economic, political and social achievements. Poornima Institute of Engineering & Technology also celebrated Women's Day on 8th March, 2014 to pay tribute to the indomitable spirit of women across the globe. The program stemmed from the understanding that the celebration of womanhood is about the empowerment of every woman in the society, to reflect on the progress made, to call for change and to celebrate acts of courage and determination by ordinary women who have played an extraordinary role in the history of their countries and communities. Morning session was organized, keeping in view, the growing stress in day-to-day life & imbalance between women's social, professional & personal life, wherein, the invited speaker Ms. Ruchi Jain addressed the girls. It was more of a one-to-one conversation where girls discovered new phrases to enjoy their life & equally to pursue their roles in each character of life whether it is of a daughter, a sister, a mother or a companion. It is rare to spare time in this modern hectic life schedule to have an insight into oneself. Numerous other events were organized like poster making competition, where the students showed immense interest & enthralled the day. A grooming session was also organized for the girls by Hindustan Unilever Ltd. on how the young girls and working women should carry themselves. Students and the faculty members were given gift hampers at the end of the session. In the afternoon, an hour talk-show with Dr. Suchita Gupta, Assistant Professor, Mahatama Gandhi Hospital, Sitapura, Jaipur was organised. She laid down information about the basic health issues of women and young girls. She also encouraged the students by saying that one need to exercise their choice rather than accepting what comes by way. The whole program was very good and full of enthusiasm.

WORLD WATER DAY

World Water Day is celebrated every year on 22nd of March across the world. The day was established to be celebrated as an annual event in the year 1993 by the decision of the United Nations General Assembly to increase the awareness among the people about the importance, need and conservation of water.

To help raise awareness and to celebrate Water World Water Day, Poornima Institute of Engineering & Technology held a Poster-Making Competition and a awareness quiz on Saturday 22 March, 2014. The program was organized under the guidance of Mr. Manish Yadav, Asst. Prof, Mechanics. The quiz was conducted in the respective classes and around 30 students participated in the poster-making competition. Winners of the competition were Azhar Khan and Deeksha Marwadi from CS branch.

AADHAR 2014 - an innovative techno fest

To showcase the glorious aspects of engineering projects prepared and designed by the students of B.Tech. First Year Department of PGC, a one day Project Competition cum Exhibition, Aadhar 2014, was organized on March 29, 2014 at Poornima Group of Institutions, Jaipur. The exhibition displayed the selected projects from all streams of engineering at PGC level and witnessed the extraordinary talent of the students. In addition to exhibition in Aadhar 2014, a panel discussion on **"Making of well equipped and skilled professional"** was also organized in the seminar hall of PGI campus. The panelists included educationists, industrialists, alumni, parents, Government officials and engineers. Adequate prizes along with the certificates were given to the winners from different categories. Winners of AADHAR 2014 from PIET I Year department were Satyam Mehta, View Dosi, Vishal Kumawat, Vikram Choudhary and Vivek Meena from branch Civil Engineering for their project "Wireless Irrigation System".

S. No	GROUP MEMBERS	SECTION	PROJECT NO.	NAME OF THE PROJECT
1.	Saurabh Sharma Romendra Singh Maan Rohit Khandelwal Yogesh Meena	D	PGC/Aadhar2014/CAT-I/031	Ocean Over Bridge
2.	Vikas Meena Shivi Mehrotra Rohit Sahu Sayar Chaudhary Yash Vashistha	D	PGC/Aadhar2014/CAT-I/032	Dynamic Building with Vertical Farming
3.	Mohit Sharma Rakesh Kumar Namrata Goyal Ranveer Singh Ramesh Kumar	D	PGC/Aadhar2014/CAT-I/020	Earth Quake Resister Building
4.	Satyam Mehta View Dosi Vishal Kumawat Vikram Chaudhary Vivek Meena	D	PGC/Aadhar2014/CAT-I/102	Wireless Irrigation System
5.	Akshay Gupta Arpit Gupta Aarzoo, Ashok Chandreshekhar	C	PGC/Aadhar2014/CAT-I/19	Suspension Bridge

6.	Khushal Gupta Hemant Gupta Manveer Singh Lakshya Yadav Krishna Murari Lodha	E	PGC/Aadhar2014/CAT-I/121	Solar Street Light System
7.	Kamal Singh Himanshu Sharma Jainarayan Jhakar Manish Parashar	C	PGC/Aadhar2014/CAT-I/023	Wind Mill
8.	Aditya Singh Ajaj Ahmed, Ajay Pal	C	PGC/Aadhar2014/CAT-I/022	CO_2 Absorber Silencer
9.	Ashish Dudani Bunty Vivek, Ashu Rawat Arun Kumar	E	PGC/Aadhar2014/CAT-I/117	Automatic Door System
10.	Harsh Saini, Dushyant Ayushi Gupta Arvind Patel, Anil	E	PGC/Aadhar2014/CAT-I/118	Laser Security System
11.	Chitra Verma, Aaradhana Ankit Garg, Ankush Gunjan Sharma	E	PGC/Aadhar2014/CAT-I/119	Object Counter
12.	Neelam Swami, Nitika Niharika Solanki Rakesh Sharma	F	PGC/Aadhar2014/CAT-I/101	Stress Meter
13.	Abhishek Jain Ashwani Kumar Divyansh Bhatt Gaurav Shekhawat Hansa Sharma	E	PGC/Aadhar2014/CAT-I/104	Mini Emergency Light
14.	Ramkesh Prajapat Prateek Sharma Ritika Gupta Neelesh Tanwar Punit Sharma	D	PGC/Aadhar2014/CAT-I/97	Light Operated Switch
15.	Tarun, Sonam Vaishali Kumawat Sachin Thakur	F	PGC/Aadhar2014/CAT-I/34	Portable Plug
16.	Gunjan Mathur Deepak Lohar Apurva Sharma Amrit Anand	E	PGC/Aadhar2014/CAT-I/105	Remote Control for Home Appliances
17.	Naveen Kumar Sain Naveen Soni, Rashi Jain Navjot Singh Pooja Kanwar	B	PGC/Aadhar2014/CAT-I/94	Water Level Indicator
18.	Alka Kumari	A	PGC/Aadhar2014/CAT-I/26	Technocity

You can never quit. Winners never quit, and quitters never win--Ted Turner

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Literary Venture

ESSAY WRITING COMPETITION

Department of English, PIET in association with Shri Ram Chandra Mission conducted an essay writing competition on August 17, 2013. The topic of this all India Essay Writing Event was "It is not what you look at that matter, but what you see!" Students participated with great enthusiasm and the winners were awarded with certificates and prizes.

WORLD LITERACY DAY

"Literacy is much more than an educational priority. It is the ultimate investment in the future and the first step towards all new forms of literacy required in the 21st century. We wish to see a century where every child is able to read and to use this skill to gain autonomy. "

Literacy is a right and a foundation for lifelong learning, better well-being and livelihood as it is a driver for sustainable and inclusive development. Thus, in order to make the students know about literacy and its need, PIET celebrated "World Literacy Day" on September 09, 2013 with great enthusiasm. On this occasion, students donated stationery for the poor and needy children which were distributed by Prof. Ajay Kumar Bansal, Campus Director, PIET at Government School, Sitapura, Jaipur.

Also, an essay writing competition was organized for the students wherein they were asked to submit essays on the topics related to modern technologies and education. About 30 essays were received from the students. Winners of the essay writing competition were Piyush Jhalani (Civil), Apurva Sharma (EE) and Aakansha Mittal (Civil).

DEBATE COMPETITION: *MANTHAN 2013*

To promote the art of debating in emerging technocrats, Poornima Group of Colleges, organized an Intra and Inter College Debate Competition "Manthan-2013". The subject of thought given to the participants was "India can be a Global Leader by 2020". Students were selected on respective college level through intra college competition. The selected students from PGC, PU and also from other colleges participated in this competition. The assessor for the competition, Ms. Shruti Bijawat, Mr. Daneshwar Sharma and Ms.Yashika Sharma, judged the participants and decided the worthy vanquishers of 1st prize (Rs. 3100), 2nd prize (Rs. 2100) and 3rd prize (Rs.1100). Participants from PIET, Sumedha Kaushik and Prerna Kaushik of III year CS branch stood 2nd in the competition.

COMMUNICATION SKILLS CLUB

Language is an inherently cultural construct. How people speak, the words they choose, and the topics under discussion are deeply tied into the culture of a place. Benefits of learning English involve the new opportunities that become available to someone who understands it. Many people see the ability to communicate and talk with others as one of the major benefits of learning English. Even outside a professional environment, people often like to be able to talk to individuals from around the world. Knowing English can broaden the types of people you can speak to, whether it's via email or on an online discussion forum. For this reason, an English Communication club has been formed by the Department of English, PIET. Communication skills club has spread its wings in all spheres of

communication activities. During every meeting of English Communication Club, activities like group discussion, extempore, self introduction practice, mock interview sessions, role play and other activities are carried out depending on the level of English of the students and their interests, ensuring that all the participants have an opportunity to speak.

PATRIOTIC FERVOUR

67th INDEPENDENCE DAY CELEBRATION

A great day and a proud moment for every Indian. No matter how far away is someone from nation, every Indian is united by the feeling of belongingness and patriotism on the day mother India attained its freedom, i.e., Independence Day. To rejoice our freedom and to pay homage to the sacrifices and struggle of all the leaders who fought for the independence of the country, Poornima Group of Colleges too was all set. There was celebration in the air and everyone took pride to be an Indian. Everyone on the campus was geared up and enthused for the momentous occasion of celebrating 67th Indian Independence Day. A program was organized at the PIET campus which began with the hoisting of National Flag by the Chief Guest, Dr. S. M. Seth (Chairman, PGC and PJF) and Ms. Shakuntala Seth followed by singing of national anthem and salutation of the Chief Guest by the troop of budding engineers. A cultural program was also organized at Arbuda Convention Centre, PIET campus, wherein encouraging and selfless mentors were awarded for their outstanding performances through an incentive program and students also expressed their emotions through patriotic songs. The celebration ended with ever increasing feeling of nationality and promise of selfless dedication towards our "Mother India".

65th REPUBLIC DAY CELEBRATION- the day the constitution of India came into effect

In order to spread the feeling of patriotism and love towards the country, 65th Republic Day celebration was held in Poornima Group of Colleges, Jaipur. Republic Day is celebrated every year on 26 January to commemorate the date and moment when the Constitution of India came into effect.

As per the tradition, the celebrations began with the hoisting of National Flag by Dr. S. M. Seth, Chairman, Poornima Foundation. The hoisting of flag spread a wave of silence which was supported with the humming of National Anthem in the backdrop. Everyone was excited and filled with pride which could be easily seen in their eyes. In his Republic Day speech, Dr. S. M. Seth recalled the sacrifices made by our great leaders and urged the gathering to rededicate their services in their profession with sincerity & honesty, which only can bring them bright career ahead. He also advised the faculty members & students to make use of the facilities being provided by the management in the campus to get excel in their respective fields.

Further celebrations were carried out in Arbuda Convention Centre, PIET wherein the students and the faculty members showcase their skills with play performances, patriotic songs and various other performances. The most awaited part of the celebration was Felicitation ceremony, in which the faculty and staff members were awarded with incentives and certificate of merit, for their sincere efforts towards giving good university examination results and contributing in the growth of the organization. The program ended with Poornima Gaan in chorus.

Broadening the Horizon

ENTREPRENEURSHIP & WOMEN IN BUSINESS

A women empowerment drive program by WISE organized a special programme on "Entrepreneurship & Women in Business" on September 13, 2013 for PGC & PU girl students. It aimed at promoting the instincts of entrepreneurship amongst girl students studying in Poornima Foundation Institutions. An hour session was conducted at Arbuda Convention Centre by Ms. Nidhi Mehta, the keynote speaker of this program. She encouraged the girls to be brave enough to achieve their passion. Students were greatly benefitted by this session.

INDUSTRIAL VISIT

To know about the current scenario of the market and to provide industrial exposure, the students of first year were taken on an industrial tour in Jaipur. They visited various companies like Dainik Bhaskar Printing Press, Shivdaspura, Automalleable, Jhotwara and Omega Electronics, Malviya Nagar. The students were taken on the tour from September 16, 2013 to September 24, 2013 section-wise. They learnt the role of engineers in different industries.

PEEM: POORNIMA EMPLOYABILITY ENHANCEMENT PROGRAMME

In today's time of cut-throat competition, finding a job is one of the most daunting tasks. From this session, Poornima foundation took a new initiative to enrich the employability skills of IV year students, (2010-2014), i.e., PEEM (Poornima Employability Enhancement Program). It's a Pilot project and under this mission main entities adopted are online examination, GD, PI and aptitude classes by Career Launcher team Delhi. Mr. Abhayjeet Singh is the Coordinator of PEEM at PGC level. The team consists of chief TPO, training officers of PEEM in PCE, PIET, PGI and 26 tutors from all the three PGC campuses (1 tutor from each section). PEEM conducted a series of online aptitude and technical tests and also organized mock GD & PI sessions. Registration process started from July 22, 2013 and the first online exam was conducted on July 29, 2013. About 1350 students were put through the online tests for the evaluation of their aptitude skills and 800 of these were found eligible on the grounds of various parameters like GD/PI, Quantitative Aptitude, Logical Reasoning and English spoken and written sessions. The results were encouraging and so it was decided to introduce PEEM for pre final year B. Tech students also. To screen out the disinterested students, a refundable token amount is charged from every student. Whole session ended on October 02, 2013. Inspite of all the efforts, PEEM needs active role of all the departments across PGC, HODs and Campus Directors for achieving the best.

SEMINAR ON ROBOTICS

On October 02, 2013, the first year department of PIET organized a seminar for the academic and professional benefits of the freshers. The robotic club led this activity to make the students learn about the robots and its mechanism. This seminar also spread awareness among the first year students about its scope as a promising professional field. The seminar proved to be a successful parameter of gaining knowledge regarding the project making skills.

SEMINAR ON PROJECT MAKING

A seminar on "Project Making" took place for the I Year students in PIET at Arbuda Convention Center. This seminar was headed by senior students of PIET. They made the freshers acquainted with the project-making process. The seminar included multiple activities like interaction with the students, solving their queries regarding the availability of resources and its use with adherence to time schedule and much more about the projects related to different branches.

MOTIVATIONAL MOVIE SHOW

Motivation is the only biggest determiner of academic success. Students who are motivated to learn have higher achievement, show better understanding of the concepts they are taught, are more satisfied with their studies.

For this reason, motivational movie shows are organized by PGC from time-to-time for the students. Students of PIET I Year felt spell bounded when they had a live encounter with the display of motivational movie- October Sky along with the presentation-virtual memory and the environmental issues on September 25, 2013 at Arbuda Convention Center, PIET. Students were delighted to see the videos and motivational movie which inspired them to face the hardships with utmost courage so that they may lead a successful life.

But no single strategy can motivate all the students. Instead it requires a combined effort on the part of the students as well as the teachers and parents.

WIPRO MISSION-10 X PROGRAM

Mission 10 X is a faculty development program conducted by IT giant WIPRO for the faculty members of Engineering Colleges in India with the aim of making the faculty members aware of modern and advanced ways of teaching, move from a chalk- and-talk approach to more interactive methods, demonstrate some of the interactive methods through active participation from the attendees, a paradigm shift from 'teaching' to 'learning', helping the teachers to build a bond with their students and work together towards a common goal. The program is offered free of cost to the host institute except the facility cost incurred while conducting the program. WIPRO has conducted many editions of this program at Arbuda Convention Centre, PIET over the last few years. This year the sessions were conducted from December 18, 2013-December 20, 2013 by Dr. Datta Kumar Ramchandra from Bangalore. As a result of these sessions, several faculty members have become certified in the Mission 10X advanced teaching and learning methodologies.

FACULTY TRAINING PROGRAM

Faculty Development Training is a similarly used term to staff development and professional development, in settings that pertain to educators. Professional development for educators may include teachers training, and is usually considered pre-service, or before beginning teaching. However faculty development and professional development may both be used to refer to on-going professional learning for educators.

To help the faculty members in brushing their teaching skills, PGC conducts Faculty Training Program before the beginning of every semester. Subject Coordinators train their mentees in enhancing their skills by helping them in preparation of lecture notes, conducting demo lecture sessions, preparation of tutorial sheets, planning and execution of labs, and solving the problems associated with various syllabus topics. Training was conducted successfully from January 09, 2014 to January 15, 2014 according to the pre-decided schedule and the faculty members also actively participated in the sessions to enhance their teaching skills.

BLOOD DONATION CAMP

"Your blood is replaceable. A life is not!" The gift of blood is the gift of life. There is no substitute for human blood. Blood cannot be manufactured; it can only come from generous donors. Every year our nation requires about 4 crore units of blood, out of which only a meager 40 lakhs units of blood is available. Every two seconds someone needs blood. More than 38,000 blood donations are needed every day. One donation can help save the lives of up to three people. It can help patients suffering from life threatening conditions live longer and with higher quality of life, and supports complex medical and surgical procedures. In many countries, there is not an adequate supply of safe blood, and blood banks face the challenge of making sufficient blood available, while also ensuring its quality and safety.

Blood donation is an extremely noble act. It is something one would do to put their share in helping a person in need. There is a need to raise awareness that donating a bottle of blood will not make you sick. Recovery of blood takes place very fast in one's body, by the time you have a glass of milk or some fruits, you've made twice the blood you donated. To create awareness of the vital role of blood transfusion in saving lives and improving the health of millions of people each year, blood donation camps are organized throughout the world. A similar initiative is taken by Poornima Group of Colleges, Jaipur every year, wherein the blood donation camps are organized at all the three main campuses, viz, PCE, PIET, PGI. The students, faculty and staff members of PGC participate enthusiastically and donate blood. 373 units of blood from PIET campus was donated by the students and faculty members on February 24, 2014 in the blood donation camp organized by Jain Emerald Society.

We have miles to go on great task and it's not possible to continue this mission without everyone's support. You never know when you or someone you love will need blood, and there's no better way to ensure it's there than to become a blood donor. It only takes an hour of your time and every donation can help save up to three lives.

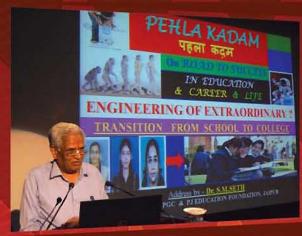*Be a blood donor. All it costs is a little love!*

ALUMNI MEET 2014

You meet people who forget you. You forget people you meet. But sometimes you meet those people who can't forget you. Those are your friends. Alumni meet is a grand occasion to reunite with old friends, foster new ties and observe significant developments at the college. PGC took an endeavor to link the alumni with the present and future of Poornima family by forming PAA (Poornima Alumni Association). The association organizes alumni meet every year to abridge the gap between the institute and the alumnus working across different parts of the world. X Alumni Meet was conducted on January 10, 2014 at Poornima University wherein, the program started with the blessings of Goddess Saraswati and release of Poornima Allianz, Annual Alumni Magazine. To relive the memories of college days & to reunite with the batch mates, alumni came from various parts of the country. Various sports events were organized and the major attraction of the event was Kite Flying Competition.

CAPTURED MOMENTS

CAPTURED MOMENTS

Aarohan Poornima

Prayogam 2013

NATIONAL & INTERNATIONAL CONFERENCES

A conference is like a mirror which reflects the clear picture of all sorts of researches undertaken by the researchers and develops the information among budding researchers in particular. Poornima Institute of Engineering & Technology, Jaipur successfully organized an International Conference, IEEE MITE 2013 and a National Conference on Natural Resources Conservation and Management, NRCM-2014.

INTERNATIONAL CONFERENCE: IEEE MITE - 2013

It was a proud moment for Poornima Institute of Engineering & Technology, Jaipur to organize an International Conference IEEE MITE 2013 for the first time in India on December 20-22, 2013 at Arbuda Convention Center, PIET, Jaipur.

Globalization tends to be most perceptible and observable in almost every facet of life due to the emergence of new digital technologies of computing and communications. At the same time, information technology, with its strong focus on providing fast and ready access for human based on these developments in computing and communication plays more crucial role in people's lives, from entertainment to healthcare and from database to e-governance.

IEEE MITE 2013 provided a platform for the academicians and professionals from various educational fields and with cross-disciplinary interests to network, share knowledge and engage in dialogue around the theme of fostering innovation and excellence in engineering education.

The program consisted of invited sessions, workshops and discussions with eminent speakers covering a wide range of topics in innovation and technology in education. Keynote addresses were given by invited speakers from academia and industry like Infosys and WIPRO.

Dr. Dattakumar Ramchandran, Sr. Manager, WIPRO Technologies, Benguluru and a KeyNote Speaker spoke on Massive Open Online Courses (MOOC) explaining the popularization of distance learning and how computers and web could unite forces to provide a new e-learning infrastructure, mainly built upon networks and communities online. Dr. Yogesh Velankar, Principle, Education and Research, Infosys Limited, another keynote speaker, addressed on the changing landscape of engineering education and the recent advances and future directions.

Another noteworthy speaker, Dr. Deepak Garg, Chair, IEEE Education Society, Indian Council discussed Massive Open Online Courses (MOOC) paradigm and the challenges and misconceptions associated with it. 91 papers were presented in the conference by the academicians and professionals. In addition, pre-conference workshops by Wipro Mission 10 X Engineering Faculty Workshop, Principles and Practices of Learning for Effective Teaching and Exploring Engineering Education Research from Infosys Limited were organised.

Go for it now. The future is promised to no one--Wayne Dyer

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BEST ABSTRACTS FROM THE CONFERENCE

Imparting Technical Skills through Outcome Based Curriculum and Case Study Assessments

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Abstract

Knowledge, skill and attitude are three necessary ingredients for the success of fresh graduates both in terms of learning and employability. It is important to identify suitable teaching methodology to impart transferable skills to the participants. Outcome based curricula and experiential learning pedagogies create positive influence among participants towards learning. In this paper, Java web development course is considered describing course level outcomes connected with company's entry level program level outcomes. Case studies are used as assessment instruments towards measuring the abilities of the participants aligned with expected skills from entry level developers specific to Java Technology stream. Two approaches are discussed where the first approach uses normal class room delivery and the second approach just –in –time and scenario based approach. In the former one the software engineering and java concepts are covered as factual knowledge components where as in the second approach, an attempt is made to integrate process knowledge components from software engineering together with Java technology concepts using business scenario as a vehicle. The performance of the participants with respect to their case study deliverables is compared with two approaches. These results highlight the importance of an integrated approach towards curriculum design and adopting appropriate teaching, assessment instruments towards imparting technical skills.

Keywords: Bloom's Taxonomy, Case study approach; Outcome based Engineering Education ; Curriculum design; pedagogy

Innovation Models in Education

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Abstract

Education has been ever progressing since its foundation and guiding its progress is the most intricate part, for which various models have been developed. Reviews of such models are elucidated in detail of this context. An ideal education system should be modeled to unleash a student's potential & natural caliber. This can be achieved by a gradual transformation towards intuitive learning. Talent and knowledge gained by a graduate is never directly proportional to reputation of university from which the degree has been obtained. In today's world, the reputation of a college depends on the marks of its students and not necessarily on the quality of knowledge imparted by it. Competition is on a major upward growth and there is a dire need for the graduates to stand out and make their mark. Review about the system architecture and of the existing model of education reveals that we focus more on the performance of the students than the effectiveness of their performance. Necessity for technical knowledge about the specialization subject along with the domains which would be required in industry has been explained along with the various innovative models of educations.

Keywords: Educational Courses, Educational Institutions, Education Technology, Qualifications, Engineering Students, Training

Learning Styles Vs Suitable Courses

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Abstract

Most of the students are forced to take different courses based on their parent's interest, not of their interest. Some students are selecting their courses without knowing their inner ability. In this paper, how the student should select the different courses based on their learning styles in different levels is derived. This is achieved by eliminating the outliers in collected data from students. Since the data collected from students based on their learning styles is categorical, outlier detection analysis for categorical data is used to eliminate outliers from this data. These outliers are occurred while collecting data from students. Because some students are very peculiar, some students are not interested to reveal their data, some students may give wrong answers for any questionnaire by bias and some students may give incomplete data due to lack of time. The data is collected from B.Tech students from different colleges for experiments. After eliminating outliers from this data by proposed outliers' techniques, different classifiers are applied to frame set of rules to select suitable courses based on their learning styles. The results are better when proposed method is applied.

Keywords: ILS questionnaire, Frequency matrix, conditional probability, Felder and Silverman

Digital Platform for Effective Learning

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Abstract

Infosys Campus Connect (CC) is an industry academia partnership initiative to evolve a model through which Infosys and engineering institutions can partner to enhance the education level of engineering students nationwide and increase employability of these engineers for growth requirements in Information Technology (IT) space. CC, therefore helps partner colleges groom Industry ready engineers. As part of this initiative, CC shares with academia its proven courseware, methodology, project samples and education experience through an effective digital collaboration platform named as Campus Connect portal. The objective is to provide a Digital Collaboration Platform for Academia-Industry interaction on anytime, anywhere basis. This paper focuses on how CC portal offers fast and secure access to high quality technical and soft skills courseware, course videos, assessments, project samples, web based seminars, interview skills and other materials for students and faculty members across partnering colleges.

Keywords: Academia; assessment; campus connect; courseware; digital platform; education; industry; information technology

Developing a Process of Making an Efficient Engineer

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Abstract

Necessity is the mother of invention. Scientists and engineers contribute a lot in developing new technologies and making various innovations. Engineering students need to be guided by subject experts possessing good teaching skills. There are more than 3,495 engineering colleges in the country, with total intake capacity of 17.6 lakh students but as many as 4,521 faculty positions are lying vacant in 16 IITs due to inadequacy of competent engineering teachers. The aptitude of the engineering students is not assessed before allowing them to join the course and faculty is not given the training for necessary teaching skills. This paper is an effort to present various measures that can be adopted by the engineering colleges to develop the competencies in teachers and the students while maintaining equilibrium between the demands of the course, society and the need of the profession.

Keywords: Technical Education, Engineering students, Aptitude, Learning Styles, Teaching Skills, Passion, Bloom's Taxonomy

Industry Academia Collaboration: How Effective?

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Abstract

The penetration of Information Technology (IT) in every field of business has opened up a plethora of employment opportunities at the global level. India has become a global hub for IT services export, where industry has felt a pressing need for acquiring and retaining competent talent. However, there is a strong feeling in the industry circles that students graduating from engineering colleges are not industry ready and many of them are not employable. Academia has also felt a strong need in terms of producing the necessary quality talent. It has been quite some time since industry and academia started working together to enhance the employability of engineering graduates and make them industry ready. Various models have been initiated by big industry captains to make this collaboration workable. But the big question is how effective these models are in terms of their applicability and usefulness to all the stakeholders in industry and academia. Through this paper, we discuss some of the offerings under the industry academia collaboration model. An analysis of various challenges being encountered during the evaluation of effectiveness of such models is also discussed. A few potential cost effective ways to address the underlying challenges are put forth towards the end of the paper.

Keywords: Industry; Academia; effectiveness

Educating and Creating Social Awareness for Sensitive Topics Using Mobile Applications

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Abstract

Considering the Massive increase in the usage of Mobile phones and handheld devices such as Tablets, iPads, there is an exponential growth in usage of Mobile apps. Mobile applications are widely used for entertainment, education, for social networks and for increasing productivity. We propose use of mobile applications to teach and to create social awareness for sensitive topics. In developing countries, topics like HIV/AIDS, sexually transmitted diseases, breast cancer, autism etc. are not taken seriously due to social awkwardness, cultural taboos, education system, social barriers and gender inequality. In this paper we propose, a solution to this problem. As these applications can be used personally, there will not be any hesitation compared to discussion with a real person. Interactive application that is created will be explanatory enough for users to get appropriate and correct knowledge with its validation hence, reducing misconceptions. Development of such applications will lead to better awareness and better health for individuals. As a proof of concept, Android application is developed for awareness of HIV/AIDS. After use of mobile app it brings 53.2 percent increase in average marks of knowledge test about HIV/AIDS.

Keywords: social awareness, mobile applications, android, education

For further information visit : www.poornima.org

One finds limits by pushing them--Herbert Simon

NATIONAL SYMPOSIUM
ON
"NATURAL RESOURCES CONSERVATION AND MANAGEMENT"
(NRCM-2014)

Environment means the surroundings. Land, water, air, plants, animals, solid wastes and other things that surround us constitute our environment. Man and environment are closely intertwined with each other, to maintain a balance or equilibrium in nature. These environmental components are considered as the resources and are mostly exploited and utilized by the men to fulfill their basic needs. They can be considered as the fellow members of the global ecosystem with which men establish emotional, intellectual, or physical relationships and these provide the basis for a sense of purpose of life to them. Man is firmly placed as an important part of the global ecosystem, which depends on him, much as he depends on it. Hence, there is a close relationship between man and environment.

A National symposium on "Natural Resources-Conservation and Management" (NRCM-2014) was organized by the Civil Department of Poornima Institute of Engineering & Technology, Jaipur at Arbuda Convention Centre, PIET campus, Jaipur on January 24, 2014- January 25, 2014. Dr. S. M. Seth, Director General, PGC & patron of this symposium was the Chief Guest and Dr. T. I. Khan (Founder Dean, School of Life Sciences and Founder Dean, School of Earth & Environmental Sciences), Central University, Himachal Pradesh and Dr. Balak Ram (Retd. Principal Scientist), CAZRI, Jodhpur, Dr. K. K. S. Bhatia, Provost, Poornima University were the Guest of honors, Dr. Rakesh Duggal, Director Academics, PGC, Prof. A. K. Bansal, Campus Director PIET, Dr. Ankita Dadhich and Dr. Gautam Singh, were the Conveners of the Symposium.

A total of 228 registrations were done for the symposium and 45 papers were presented.

Chief Guest of the symposium, Dr. S. M. Seth spoke about the brutal condition of our ecosystem due to over exploitation and the scope of recovery. He also discussed about the contribution of budding technocrats to our environment to curb resource depletion. Dr. T. I. Khan, Guest of Honor, threw light on the concept of sustainable development as a measure to thwart resource depletion and its role in preserving and protecting future generations. Dr. K. K. S. Bhatia described the theme of symposium and talked about the reasons of resource depletion and the importance of their conservation and management for the bright future of India. Dr. Balak Ram focused on the plight of Rajasthan and its unfavorable climate for rich vegetation and resource development. He also criticized the poor implementation of government policies aiming resource management.

Dr. Brij Gopal, a keynote speaker presented a lecture on conservation of water resources by giving the facts and figures pertaining to water resource consumption and wastage, and also discussed the methods to perfect their utilization. Dr. M. K. Goel, another keynote speaker gave a lecture on tools for water resource conservation and management. He also talked about the potential of developing alternative resources in order to alleviate the pressure from the limited water resources. Dr. M. K. Pandit, keynote speaker also spoke on water chemistry and elaborated the effects of climatic conditions on resource quantity and quality. He discussed some interesting facts related to Antarctica and his research work. Dr. Ankita Dadhich, Professor, Civil Department and also a keynote speaker shared the alarming deterioration of coral reefs in Fiji due to siltation and population explosion. Her research also depicted the gruesome impact of this deterioration on the marine life.

KRYPTON E-CELL

NEN represents India's largest and most dynamic community of new and future high-growth entrepreneurs, with over 70,000 members in 30 cities. It provides critical support to start-ups and early-stage entrepreneurs through high-impact entrepreneurship education access to mentors and experts fast-track access to incubation and funding; and learning tools and materials. NEN was co-founded by IIT Bombay; IIM Ahmedabad; BITS, Pilani; SP Jain Institute of Management & Research, Mumbai; Institute of Bioinformatics and Applied Biotechnology, Bangalore. It is primarily supported by Wadhwani Foundation, a philanthropic initiative of Dr. Romesh Wadhwani, Chairman of the Symphony Technology Group, and has offices in Bangalore and Mumbai. Entrepreneurship has been considered the backbone of economic development. Entrepreneurship development and training is, thus, one of the key elements for development of micro and small enterprises particularly first generation entrepreneurs, to empower young students through skills acquiring programs to realize their full potential and to bridge the gap of leadership and entrepreneurship skills by developing and training the minds of young students for positive change.

E-cell is a campus oriented club which works to enhance entrepreneur skills on the student level and promotes young innovative business ideation. "KRYPTON" is the E-cell of PIET, functioning under NEN, Wadhwani Foundation.

Activities carried out by NEN cell in the campus:

- **Orientation Program :** Orientation Program was held in the Arbuda Convention Centre, PIET to inaugurate and release the flex of E-cell of Poornima Institute of Engineering and Technology. E-cell was named as "KRYPTON" on the same day. The event was held in the presence of the Chief Guest, Ms Preeti Singh, Jaipur Head, NEN, student members and the students of I, II, III and IV year of PIET campus. 110 students were selected as E-members.

- **Newspaper and ₹ 50 Exercise in various schools:** An exercise was carried out by the e-members, who visited different schools of Jaipur and distributed newspaper in groups of 3-4 students. Students were asked to propose the ideas by reading the problems in newspaper which were later also submitted in competition. The objective of the exercise was to promote entrepreneurship amongst the school students.

- **Video Talk:** A video talk was held for the members of the Krypton e-cell where videos from TED were played followed by a discussion.

- **E-Week:** E-week was held in the campus where games like pinball, eating biscuits, dropping the glasses, etc. were held. Also, lottery draw was organized where prizes like camera, speakers were given.

- **Entrepreneurship Talk:** Mr. Himanshu Khanna and Mr. Gaurav Narula, delegates from Delhi, were invited for an Entrepreneurial talk in which they gave ideas to the students about how to start up with their own ventures.

- **Poster Competition:** A poster competition was held for the students of III year where they had to project their entrepreneurial ideas in the form of a poster.

- **B-plan Presentation in JKLU:** A presentation was given by the students of PIET, Jaipur at JKLU on B-plan and won second prize in the competition.

- **National Youth IDEA Challenge and Entrepreneurship Awareness Program I-SEED:** Entrepreneurship Awareness Program I-SEED was organized by NEN cell in which a lecture was given to the students on Entrepreneurship and myths about it, why entrepreneurship is important, and how to take the first step towards starting one's own venture.

- **FDP (Building Technology Ventures):** A 3-day Faculty Development Program was held at PIET campus where faculties from other engineering colleges also participated actively. The program was conducted by experts from different industries i.e., Mr. Raj Shankar, Mr. Murali Loganathan and Ms. Kruthika Muralinath. Faculty members were given tasks to uplift problems in the campus and probable solutions. One of the best ideas among the different groups was selected and thorough discussion on how to solve the problem at minimum cost was done.

- **NEN Entrepreneurship 30 Hrs Capsule Course "ILLUMINATE":** KRYPTON E-Cell, PIET organized a 30 hours capsule course -"A Basic Capsule course of Entrepreneurship for Engineers" with the active support of Ms. Preeti Singh (NEN Network Manager & Student Entrepreneur Support) and Prof. Ajay Kumar Bansal (Director, PIET). This course was designed to spread the knowledge of entrepreneurship during capsule course of entrepreneurship in Poornima Institute of Engineering and Technology. This was a five day course exclusively designed to help Engineering & Technology students to unravel the entrepreneurial process for technology ventures. The course aims to help the students integrate entrepreneurship with engineering education on campus. The workshop was taken by Dr. Sheenu Jain and Ms. Kavya Saini.

- **Krypton E-Cell brings laurels!!** Poornima Institute of Engineering & Technology, Jaipur, was awarded the *Entrepreneurship Week India 2014 HONOR ROLL AWARD* in North Region for doing extraordinary work in building support for entrepreneurship, engaging young minds, and growing the number of India's new and future entrepreneurs.

  Students of B. Tech Final Year, Department of ECE, PIET and also the members of Krypton E-cell, Mukesh Saraswat and Bhanupratap Singh Rajpurohit, got Runner-up People's Choice Award for All India Tata First Dot Competition DTD (Door-to-Door Home Services) by NEN.

Engineers can make a world of difference by developing new technologies and taking new approaches to solving a host of problems. The above activities are just a sampling of the ingenuity of KRYPTON E-CELL and its entrepreneurs, utilizing proactive strategies to meet the needs of a global society. Whether you have a knack for inventing, an idea for a business venture, or are looking for a network of like-minded people, KRYPTON E-CELL is a great place to develop your ideas. Our students, faculty members and researchers make important discoveries and advancements for society, the environment and the economy.

Don't watch the clock; do what it does. Keep going--Sam Levenson

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CAMPUS PLACEMENTS

"Cherish your visions and your dreams as they are the children of your soul, the blueprints of your ultimate achievements."

Career is a journey which begins with serious considerations, thoughtful planning and rightful judgements. In today's competitive scenario the college, in its own way look towards giving its students vital and in-house experimental experiences of facing the real world and entering into the wide professional arena.

Campus placement or campus drive is the program conducted within educational institutes or in a common place to provide jobs to the students pursuing or in the stage of completing the program. Various industries and organizations are invited by the training and placement cell of the institute to select the students depending on their ability to work, focus and aim.

Training and Placement Department of Poornima Group of Colleges, Jaipur is the hub of all possible interaction between the corporate sector and others with PGC with the aim of assisting in placements for all eligible students of passing out batches through campus drives. It is headed by Ms. Meenu Sharma Saxena.

The training and placement cell tries to bridge the gap between the students and the opportunities in the world around them. It plans and organizes activities all the year around for equipping students with employability skills and facilitating jobs for them.

Training and Placement cell, as the name suggests, is mainly responsible for facilitating industrial training, mandatory for B. Tech and MBA curriculum, inviting companies or organizations, of repute for placements. T & P Cell also arranges pre placement training sessions for students with the assistance of reputed training agency Career Launcher. These sessions have been christened as PEEM (Poornima Employability Enhancement Mission). Students of III and IV Year are being trained under this. The department has also been organizing highly successful Industry-Academia Interaction meets.

Over the years, placements have been increasing incredibly, which is a matter of pride for the college. You don't have to worry about being a number one, number two, or number three. Numbers don't have anything to do with placement.

Here's a list of placement details which prove the tremendous efforts of T & P Cell and potential of its students.

S. NO.	NAME OF STUDENT	REG. NO.	BRANCH	PLACED IN	PACKAGE
1.	Ankit Sunil Kumar Jain	CE/10/29	CE	Agile Cube Tech.	1.80 Lac p.a.
2.	Charuta Gupta	CIV/10/21	CIVIL	Arihant Group	1.44 Lac p.a.
3.	Dileep Lamba	CIV/10/23	CIVIL	Arihant Group	1.44 Lac p.a
4.	Diwakar Panchal	CIV/10/25	CIVIL	Arihant Group	1.44 Lac p.a.
5.	Nitesh Kumar Nagar	CIV/10/39	CIVIL	Arihant Group	1.44 Lac p.a.
6.	Ranaveer Bangara	CIV/10/46	CIVIL	Arihant Group	1.44 Lac p.a.
7.	Abhinav Bishnoi	CE/10/20	CE	Cognizant	3.00 Lac p.a.
8.	Aman Khandelwal	CE/10/27	CE	Cognizant	3.00 Lac p.a.
9.	Gargy	CE/10/144	CE	Cognizant	3.00 Lac p.a.
10.	Neha Gupta (KCG)	CE/10/82	CE	Cognizant	3.00 Lac p.a.
11.	Neha Gupta (LNG)	CE/10/83	CE	Cognizant	3.00 Lac p.a.
12.	Parth Gupta	CE/10/150	CE	Cognizant	3.00 Lac p.a.
13.	Parul Saraswat	CE/10/132	CE	Cognizant	3.00 Lac p.a.
14.	Priyanka Khandelwal	CE/10/135	CE	Cognizant	3.00 Lac p.a.

15.	Sonakshi Katiyar	CE/10/106	CE	Cognizant	3.00 Lac p.a.
16.	Vishakha Singhal	CE/10/01	CE	Cognizant	3.00 Lac p.a.
17.	Akshay Bothra	EC/10/24	EC	Cognizant	3.00 Lac p.a.
18.	Jyoti Jain	EC/10/55	EC	Cognizant	3.00 Lac p.a.
19.	Payal Mathur	EC/10/76	EC	Cognizant	3.00 Lac p.a.
20.	Shubham Jaiman	EC/10/129	EC	Cognizant	3.00 Lac p.a.
21.	Deepak Saini	IT/10/80	IT	Cognizant	3.00 Lac p.a.
22.	Tanya Sachan	IT/10/54	IT	Cognizant	3.00 Lac p.a.
23.	Sakshi Mahera	IT/10/42	IT	Collabera Tech.	2.16 Lac p.a.
24.	Isha Sharma	EC/10/51	EC	IBM India	3.75 Lac p.a.
25.	Harsh Khatri	CE/10/58	CE	Indian Navy	7.92 Lac p.a.
26.	Harshit Dudi	CE/10/59	CE	Indian Navy	7.92 Lac p.a.
27.	Akash Jain	CE/10/13	CE	Indian Navy	7.92 Lac p.a.
28.	Yash Menaria	CIV/10/72	CIVIL	Indian Navy	7.92 Lac p.a.
29.	Jagrat Gupta	EC/10/52	EC	Indian Navy	7.92 Lac p.a.
30.	Rohit Verma	EC/10/90	EC	Indian Navy	7.92 Lac p.a.
31.	Shivendra Singh	EC/10/09	EC	Indian Navy	7.92 Lac p.a.
32.	Harshul Sharma	IT/10/81	IT	Indian Navy	7.92 Lac p.a.
33.	Ankita Yadav	CE/10/30	CE	Infosys	3.25 Lac p.a.
34.	Anuj Mathur	CE/10/31	CE	Infosys	3.25 Lac p.a.
35.	Anup Khandelwal	CE/10/32	CE	Infosys	3.25 Lac p.a.
36.	Divya Jain	CE/10/51	CE	Infosys	3.25 Lac p.a.
37.	Harshit Dudi	CE/10/59	CE	Infosys	3.25 Lac p.a.
38.	Nayan Sharma	CE/10/79	CE	Infosys	3.25 Lac p.a.
39.	Pankaj Maheshwari	CE/10/88	CE	Infosys	3.25 Lac p.a.
40.	Vishakha Singhal	CE/10/01	CE	Infosys	3.25 Lac p.a.
41.	Shubhangi Mittal	CIV/10/08	CIVIL	Infosys	3.25 Lac p.a.
42.	Namita Vageria	EC/10/70	EC	Infosys	3.25 Lac p.a.
43.	Palak Maharwal	EC/10/75	EC	Infosys	3.25 Lac p.a.
44.	Shivangi Khadiya	EC/10/144	EC	Infosys	3.25 Lac p.a.
45.	Shivani Mathur	EC/10/145	EC	Infosys	3.25 Lac p.a.
46.	Supriti	EC/10/17	EC	Infosys	3.25 Lac p.a.
47.	Avantika Sharma	EE/10/05	EE	Infosys	3.25 Lac p.a.
48.	Anisha Anchit	IT/10/01	IT	Infosys	3.25 Lac p.a.
49.	Nilesh Kumar	IT/10/83	IT	Infosys	3.25 Lac p.a.
50.	Tanya Sachan	IT/10/54	IT	Infosys	3.25 Lac p.a.
51.	Shweta Agrawal	CE/10/105	CE	L&T Infotech	3.00 Lac p.a.
52.	Sunidhi Gaur	CE/10/108	CE	L&T Infotech	3.00 Lac p.a.

53.	Surabhi Gupta	CE/10/109	CE	L&T Infotech	3.00 Lac p.a.
54.	Jagrat Gupta	EC/10/52	EC	L&T Infotech	3.00 Lac p.a.
55.	Nowreena Shakdwipee	EC/10/138	EC	L&T Infotech	3.00 Lac p.a.
56.	Pragya Sethi	EC/10/10	EC	L&T Infotech	3.00 Lac p.a.
57.	Shivangini Trisal	EC/10/96	EC	L&T Infotech	3.00 Lac p.a.
58.	Nancy Soni	IT/10/31	IT	L&T Infotech	3.00 Lac p.a.
59.	Sakshi Mahera	IT/10/42	IT	L&T Infotech	3.00 Lac p.a.
60.	Shradha Agarwal	IT/10/04	IT	L&T Infotech	3.00 Lac p.a.
61.	Sonali Saxena	IT/10/73	IT	L&T Infotech	3.00 Lac p.a.
62.	Jat Ratanlal Kishanlal	CE/10/62	CE	NIIT Technologies	2.10 Lac p.a.
63.	Chaitanya Mittal	CE/10/10	CE	Tech Mahindra	3.00 Lac p.a.
64.	Hazique Mohammed Quazi	CE/10/145	CE	Tech Mahindra	3.00 Lac p.a.
65.	Nakul Goyal	CE/10/77	CE	Tech Mahindra	3.00 Lac p.a.
66.	Nikita Bhargava	CE/10/85	CE	Tech Mahindra	3.00 Lac p.a.
67.	Pratik Sisodia	CE/10/94	CE	Tech Mahindra	3.00 Lac p.a.
68.	Swati Chimnani	CE/10/138	CE	Tech Mahindra	3.00 Lac p.a.
69.	Yachana N Bhatia	CE/10/14	CE	Tech Mahindra	3.00 Lac p.a.
70.	Piyu Purohit	EE/10/39	EE	Tech Mahindra	3.00 Lac p.a.
71.	Khyati Sharma	IT/10/25	IT	Tech Mahindra	3.00 Lac p.a.
72.	Santosh Kumar Godara	EE/10/50	EE	Universal Auto Foundry	1.80 Lac p.a.
73.	Saurabh Roop Rai	CIV/10/68	CIVIL	Vardhman Group	1.50 Lac p.a.
74.	Tushar Bhardwaj	CIV/10/55	CIVIL	Vardhman Group	1.50 Lac p.a.
75.	Kuldeep Mishra	CE/10/68	CE	VIT Infotech	2.50 Lac p.a.
76.	Ankit Sunil Kumar Jain	CE/10/29	CE	Vivacity Infotech	1.50 Lac p.a.
77.	Gaurav Kumar Verma	CE/10/54	CE	Vivacity Infotech	1.50 Lac p.a.
78.	Kishor Kumar Mali	CE/10/67	CE	Vivacity Infotech	1.50 Lac p.a.
79.	Narayan Lal Jat	CE/10/129	CE	Vivacity Infotech	1.50 Lac p.a.
80.	Hazique Mohammed Quazi	CE/10/145	CE	Wipro BPO	1.88 Lac p.a.
81.	Shruti Pareek	CE/10/154	CE	Wipro BPO	1.88 Lac p.a.
82.	Antara Mathur	IT/10/78	IT	Wipro BPO	1.88 Lac p.a.
83.	Tanvi Pandey	IT/10/75	IT	Wipro BPO	1.88 Lac p.a.

Deserve your dream--Octavio Paz

Placements

Cognizent & TCS

Cognizent

Tech-Mahindra

Placed Students

Placed Students

TCS

Tech-Mahindra

Group Photograph
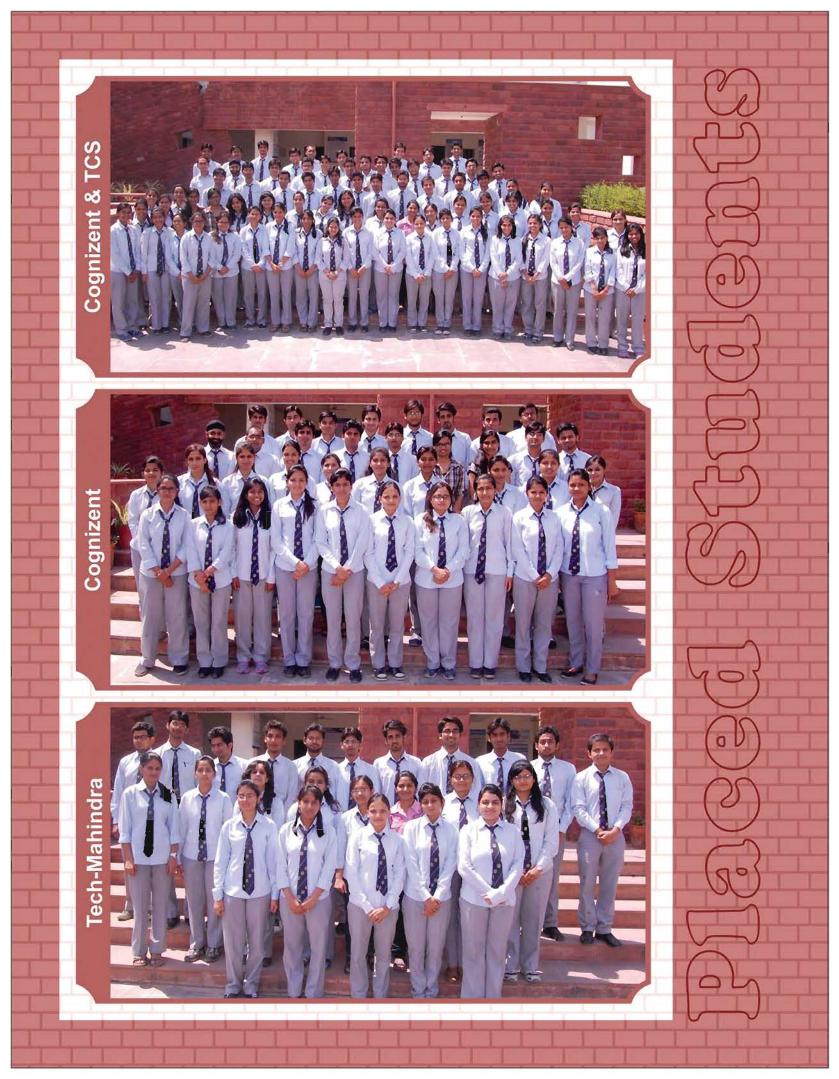
शहर में अब ई-सुरक्षित होम

घर से बाहर होने पर भी मेहमान को नहीं करना पड़ेगा बाहर इंतजार, युवाओं ने घरों की सुरक्षा के लिए निकाली तकनीक।

सिटी रिपोर्टर ▶ जयपुर

अब घर में नहीं होने के बावजूद हम घर की सुरक्षा को लेकर श्वश्चल हो सकते हैं। साथ ही किसी के घर आने पर उन्हें ज्यादा इंतजार भी नहीं करना होगा। यह सब होगा 'ई-सुरक्षित होम' से। शहर के शुभम गोधिका, दीपक सैनी, मन चौधरी और सौरभ विजयवर्गीय ने घरों की सुरक्षा के लिए यह डिजाइन किया है।

पूर्णिमा इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (पीआईईटी) के स्टूडेंट्स ने बताया, इस प्रोजेक्ट में मुख्यद्वार पर एक आईपी कैमरा लगा होगा, जो जीएसएम तकनीक से घर के मालिक के मोबाइल से कनेक्ट होगा। यदि कोई बाहरी व्यक्ति घर के गेट पर बैल बजाएगा, तो उसकी फोटो आईपी कैमरे से क्लिक होकर

▶ अपने प्रोजेक्ट के साथ स्टूडेंट्स।

मालिक के मोबाइल पर पहुंचेगी।

यदि आगंतुक परिचित है तो मोबाइल की एप से कमांड देकर दरवाजा खोला जा सकेगा। मोबाइल के ये सिग्नल जीएसएम मॉड्यूल के माध्यम से घर तक पहुंचेंगे। यदि आने वाला व्यक्ति अपरिचित है या उसकी हरकतें संदिग्ध हैं तो मालिक थाने में सूचना दे सकेगा और संदिग्ध हरकतों की दशा में सेंसस से घर का अलार्म ऑटोमैटिक बज उठेगा।

स्टूडेंट्स ने किया ब्लड डोनेशन

जयपुर सीकरपुरा स्थित पूर्णिमा ग्रुप ऑफ कॉलेजेज में ब्लड डोनेशन कैंप का आयोजन किया गया। इस अवसर पर इंजीनियरिंग और मैनेजमेंट स्टूडेंट्स ने ब्लड डोनेट किया। जैन सोशल ग्रुप एमरल्ड और रोटरी क्लब जयपुर मिड्टाउन के सहयोग से आयोजित हुए इस कैंप में निदेशक हरिकांत

सिंधी ने बताया कि स्टूडेंट्स और स्टाफ का काफी उत्साह दिखा।

ने सकल एनआरएनए नेटवर्क और राएप कंपनी की ओर से आयोजित 'एप फर्स्ट द पीपुल्स च्वाइस कॉम्पिटिशन' में पूर्णिमा इंस्टीट्यूट ऑफ टेक्नोलॉजी (पीआईईटी) के स्टूडेंट्स की टीम सरताज रही। नेशनल लेवल के कॉम्पिटिशन में पीआईईटी के स्टूडेंट्स मुकेश सारस्वत और भानुप्रताप सिंह

रघुपुरोहित की ओर से 'डोर टू डोर होम सर्विसेज' व्यवसाय का प्रजेंटेशन दिया गया। इससे कस्टमर को सिर्फ एक कॉल पर बहुत ही कम समय में सर्विस उपलब्ध कराई जा सकती है।

परफॉर्मेंस के साथ जानी कथक की बारीकियां

'आधार' में भविष्य की झलक

मेट्रो रिपोर्टर

जयपुर ■ 29 मार्च

इंजीनियरिंग फर्स्ट ईयर के स्टूडेंट्स के बनाए मॉडल्स और प्रोजेक्ट्स की एग्जिबिशन 'आधार-2014' में स्टूडेंट्स ने तकनीक के अविष्कारों को बखूबी प्रदर्शित किया गया। पूर्णिमा ग्रुप ऑफ इंस्टीट्यूशंस में शनिवार को आयोजित इस एग्जिबिशन में स्टूडेंट्स के बनाए 250 से अधिक इंजीनियरिंग प्रोजेक्ट डिस्प्ले किए गए। इनके जरिए बताया गया, कि इंजीनियरिंग की वजह से निकट भविष्य में हमारा जीवन किस प्रकार और अधिक आसान हो जाएगा, साथ ही डैनिक जीवन की विभिन्न समस्याओं के समाधान में इंजीनियरिंग की भूमिका को भी दर्शाया गया।

यहां डिस्प्ले किए गए सिविल जोन के प्रोजेक्ट्स में स्टूडेंट्स ने फ्यूचर सिटी, रेन वॉटर हार्वेस्टिंग, बेस्ट ऑफ वेस्ट समेत कई बेहतरीन प्रोजेक्ट्स डिस्प्ले किए। इनमें से कई प्रोजेक्ट्स तो खास तौर से जयपुर शहर पर आधारित थे। इसके अलावा मैकेनिकल, इलेक्ट्रिकल और अन्य सभी ब्रांचेज के प्रोजेक्ट भी डिस्प्ले किए

गए। सम्पूर्ण पेशेवर बनने के गुर भी सीखे-इस दौरान इंजीनियरिंग स्टूडेंट्स के लिए 'मेकिंग ऑफ वेल इक्वीप्ड एंड स्किल्ड प्रोफेशनल' विषय पर पैनल डिस्कशन भी आयोजित किया गया। इसमें एक्सपर्ट्स के तौर पर आरपीएससी के पूर्व चेयरमैन डॉ. वी. पी. अग्रवाल, सेंट्रल यूनिवर्सिटी राजस्थान के प्रो. नीरज गुप्ता, इंस्टीट्यूशंस ऑफ इंजीनियर्स के पूर्व प्रेसीडेंट आरपी गुप्ता व एसएपी लैब्स इंडिया के अंशुमान सिंह चौहान मौजूद थे।

■ शहर के कॉलेज और यूनिवर्सिटीज में डिफरेंट एक्टिविटीज

कैंपस में रही साइंस और स्पोर्ट्स की रौनक

जयपुर. फर्स्ट ईयर के स्टूडेंट्स के बनाए मॉडल्स और प्रोजेक्ट्स की एग्जिबिशन 'आधार-2014' में तकनीक के अविष्कारों को प्रदर्शित किया गया। पूर्णिमा ग्रुप ऑफ इंस्टीट्यूशंस में शनिवार को आयोजित एग्जिबिशन में स्टूडेंट्स के बनाए 250 से अधिक इंजीनियरिंग प्रोजेक्ट डिस्प्ले किए गए। इस दौरान 'मेकिंग ऑफ वेल इक्वीप्ड एंड स्किल्ड प्रोफेशनल' विषय पर पैनल डिस्कशन भी आयोजित किया गया।

इंटर कॉलेज स्पोर्ट्स फेस्ट 'स्मृति-2014' का आगाज

• सिटी रिपोर्टर

जयपुर

पूर्णिमा ग्रुप ऑफ कॉलेजेज में शुक्रवार शाम को इंटर कॉलेज एनुअल स्पोर्ट्स फेस्ट 'स्मृति-2014' की शुरुआत हुई। यहां स्टूडेंट रहे स्व. अनिल कुमार की श्रद्धांजलि स्वरूप आयोजित किए जा रहे तीन दिवसीय इस फेस्ट में राजस्थान के 20 इंजीनियरिंग कॉलेजों व यूनिवर्सिटीज के करीब 600 स्टूडेंट्स शामिल हुए हैं। पूर्णिमा ग्रुप के चीफ हॉस्टल वार्डन अश्विनी लाटा ने दीप प्रज्ज्वलन करके इस फेस्ट का विधिवत उद्घाटन किया। रविवार को प्राइज डिस्ट्रीब्यूशन के साथ इस फेस्ट का समापन होगा।

'बिजनेस और इकोनॉमी के नए ट्रेंड्स' पर मंथन कल से

जयपुर। एजुकेशनल एक्सचेंज प्रोग्राम के तहत होने वाली इंटरनेशनल कांफ्रेंस में विशेषज्ञ बिजनेस और अर्थव्यवस्था से सम्बंधित विभिन्न मुद्दों पर मंथन करेंगे। अवसर होगा पूर्णिमा ग्रुप ऑफ कॉलेजेज में शुक्रवार से शुरू होने वाली दो दिवसीय इंटरनेशनल कांफ्रेंस का। 'इमर्जिंग ट्रेंड्स इन बिजनेस एंड इकोनॉमी- मैपिंग द वे अहेड' विषय पर यह कांफ्रेंस हैनयांग यूनिवर्सिटी-दक्षिणी कोरिया, एशियन इंस्टीट्यूट ऑफ टेक्नोलॉजी-थाईलैंड और जेके लक्ष्मीपत यूनिवर्सिटी के सहयोग से पूर्णिमा यूनिवर्सिटी में हो रही है।

वेस्ट का भी सही इस्तेमाल

अनुपयोगी कांच के उपयोग से बढ़ेगी भवनों की गुणवत्ता

मेट्रो रिपोर्टर

जयपुर ■ 30 अप्रैल

एक अनुमान के मुताबिक देश में हर साल लगभग 44 मिलियन टन कांच व्यर्थ जाता है, जिसमें से सिर्फ 56 फीसदी को ही रिसाइकल किया जाता है। ऐसे में 44 फीसदी कांच यूं ही वेस्ट में चला जाता है। इस बेकार जा रहे कांच को व्यर्थ नहीं जाने देने या इसके दोबारा उपयोग में ला सकने की संभावनाएं जताई गई हैं, जो कि पर्यावरण के दृष्टिकोण से भी बेहतर होगी और इनके उपयोग से भवन भी अधिक मजबूत बन सकेंगे।

कंक्रीट और पेवमेंट ब्लाक्स पर रिसर्च करते पूर्णिमा इंस्टीट्यूट ऑफ इंजीनियरिंग एंड टेक्नोलॉजी (पीआईईटी) के सिविल इंजीनियरिंग स्टूडेंट्स आशीष कुमार मिश्रा, अंकित भास्कर और अभिषेक कुमार ठक्कर के नवीन शोध पर पहुंचे हैं जो न केवल भवन में स्थापत्यशास्त्र की नींव में इस्तेमाल होंगे बल्कि पर्यावरण संरक्षण में भी योगदान देंगे।

शुरुआत हुई यूं ...

की स्थापना में संचित, बीएन कल्ला कार्पेट को पुख्ता बनाने की संभावना सिद्ध होती है।

इन वजहों से उठे ये इस काम वाले मिश्रित मॉडल से कांच की कटिंग में कमी और कांच से तैयार होने में अधिक टाइम लगने से कार्बन एमिशन भी घटेगा।

रिसर्च का कहना है कि पानी की भाप छोड़ते जाने वाली कार्यप्रणाली में भी वेस्ट कांच चूरा के मिश्रण चला गया मटेरियल अधिक मजबूत साबित होगा। पर्यावरण के अनुकूल इन स्टूडेंट्स के शोध और पर्यावरण में इसका उपयोगिता देखते हुए पिछले दिनों एनआईटी की साइंटिफिक कमेटी में इन स्टूडेंट्स को श्रवण पुरस्कार से सम्मानित किया जा चुका है।

कैंप में 1025 यूनिट ब्लड एकत्र

सिटी रिपोर्टर. पूर्णिमा ग्रुप ऑफ कॉलेजेज के इंजीनियरिंग और मैनेजमेंट स्टूडेंट्स ने पूरे उत्साह के साथ ब्लड डोनेट किया। सोमवार को यहां के चारों कैंपस में यह कैंप जैन सोशल ग्रुप एमरल्ड और रोटरी क्लब जयपुर मिड्टाउन के सहयोग से आयोजित किया गया। कैंप में ब्लड डोनेट करने के लिए सुबह से ही स्टूडेंट्स में जबरदस्त उत्साह देखा गया। कैंप में कुल 1025 यूनिट ब्लड एकत्र किया गया।

Student's Speak

GAYATRI GIRLS HOSTEL

When you talk of happiness, when you talk of life, when you talk of joy or when you talk about cries, you talk of hostel life. Here every day is festive, filled with unexpected surprises. The wardens play role like parents to nurture hostellers and help them grow in a happy and healthy environment. Gayatri family comprises of six hostels with Ma'am Sudha Jain as the Chief Warden, supported by other wardens assigned for every year. The environment is homely and is a ragging free zone. Gayatri girls' hostel is located in Poornima College of Engineering campus. The rooms are well furnished and well ventilated. Strict care is taken for the provision of clean drinking water in the hostels using water purifiers.

Sanitation and hygiene is a chief aspect that is considered and maintained. Regular cleanliness is observed. The entire hostel is Wi-Fi enabled, thus making sure that student is world connected and updated. The hostel campus holds the facility of provision store and canteen. Sports is another major factor that is well thought-out. The hostels have provision for both indoor and outdoor games like chess, table-tennis, carom, squash, volleyball, basketball, badminton making sure that students have an all-round development. Well-equipped gym facility is also provided to the hostellers both in the morning and evening hours. Various machines are provided to work on, along with yoga mats. For recreation, a good television room is present. Students enjoy all sorts of serials and movies together under one roof with cheers. The victory of India, winning World Cup is a memorable time!

Birthday parties are the best fun time of hostel. Celebrations are made by beautifully decorating their rooms and planning surprises. Dance parties are leisure. Late night group work of completing project files, notes, tutorials hold immense fun that is cherished as lovely memories forever. The mess is where the starving engineers fill their appetite. The food is prepared with care on the grounds of taste, hygiene, health and freshness. Every morning is welcomed with a different breakfast that includes flavors of different states of India. Seasonal fruits are given to students. Summers include night tea after meals whereas in winters, warm milk is given along with dinner.

Green environment adds beauty to the surroundings. There is huge area under garden and for outdoor activities. Different programs are organized for hostellers focusing on their overall development especially the academics. Mentorship program of hostel focuses to give complete attention to every new member of Gayatri, to make sure, that she feels more like home. Mentors are assigned with 10-12 students per head and they take care of all the difficulties faced by them.

India is blessed with various fiestas. Gayatri girls' hostel celebrates every season, every festival with great pomp and splendor. The hostel fest "Tatva Torque" is the time to provide a platform to hostellers to celebrate their oneness and team spirit. Various events are organized during the three day fest like dances, singing, sports, skits, fashion shows, debates, G.D and various trio tech-cult-sports.

Facit Diva is the soul experience of the fest. Not only this but the hostel also works and supports social causes. The mess workers are taught and given basic knowledge of mathematics and other technologies like how to work on computers. It's just another home away from home where one dwells and flourishes. Life time friends and fantasies are created here. The time one would always recall and laugh upon. Hostel teaches being compassionate, thoughtful, motivated, career oriented and changes life forever.

But yes, one thing is common since ever… it bids farewell to the dear dwellings with wet eyes and smiling faces!

Hina Azad
III Year, IT, Gayatri Girls' Hostel

GURUSHIKHAR……….. my new home!!

Our hostel is no less than a beautiful home. The wonderful bunch of people who make us feel worthwhile, who add bright colors to the white canvas of our lives, who hold our hand when we need support, who help us in studies and loads of assignments and home works that goes without saying. First thing that flickers through my mind when I think about hostel is the late night chats, long gossip sessions, jokes that makes us roll on the floor laugh and so on. It is definitely a place where a sense of brotherhood, mutual cooperation and healthy competition is nurtured.

Hostel life has a charm of its own. We step out from the familiar surroundings of our dear ones and enter a new world of strangers, who are experiencing the same dilemmas as us. Talking about myself when I took admission in hostel I was quite nervous that how I would be able to adjust myself, but now when I go into the flashback of my memories, I think that my decision of choosing Gurushikhar, as my new home was absolutely correct. Entry in the hostel with the welcome party followed by fresher's party, hostel day, changed my views about the hostel as well as seniors.

Besides all this, certain activities including both academics as well as non-academics are conducted under the mentorship system providing an initiative for the inmates. Hooting during the IPL matches in the T.V room and standing in queue for meals cannot be forgotten. Surprise birthday bash is the quite crucial day with b'day bumps, fight for the last piece of cake, cold drink showers. Hostel life has certain great attractions. In spite of the freedom enjoyed by students, they have to abide by the rules of the hostel. Hostel life provides a care-free atmosphere. The usual domestic life has plenty of responsibilities and annoyances. Life in a hostel is a community life.

For me, hostel life is a treasure trove of memories. It helps us develop a feeling of team spirit. Getting along with others is a habit, which is profitably cultivated at the hostel life. A determined student can study with full concentration at the college hostel. Since he has to manage everything himself without any aid from others during his stay in the hostel, he develops a sense of self-decision and responsibility. These prove extremely useful in the future life. Hostel life is a nice experience for each one of us. With the passage of time, I know that I would have to say good bye to Gurushikhar, but I will never forget my days spent in this beautiful home. The glimpse of memories will always remain in me.

Sunil Rajora
III Year, ECE
Gurushikhar Boy's Hostel

INDUSTRIAL VISIT...step towards the journey for a bright horizon

Industrial visit is a vital part of the curriculum. It helps to bridge the gap between classroom and the real working world. It provides students with an opportunity to learn practically through interaction, working methods and employment practices. Moreover, it gives exposure from an academic point of view. Industrial visits sensitize students to the practical challenges that organizations face in the business world. Industrial visits also give greater clarity about various management concepts for students as they can practically see how these concepts are put into action.

Poornima Group of Colleges realizes the importance of Industrial Visits and organizes regular tours to help students get practical knowledge about how various industries/organizations operate. The fundamental aim of the industrial visit is to expose the students to a different landscape, variety of people thereby encouraging interaction, exchange of ideas and to acquire the knowledge about the basic functionality of a company. Most colleges do organize these visits in III year but Poornima Group of Colleges organizes these visits in I year.

One such visit was organized for us too in our first year to Dainik Bhaskar Printing Planet. We were welcomed by the manager who then guided us about the various sections there. We visited each section of plant namely-: KBA main stock room, Stock reels, Slider wheel movement, printing slider, Prism 4, Krayuze LaserJet 300. Everyone was amazed to see the machines working there. We enjoyed the industrial visit and also learned a lot about printing tool mechanism. This was really a great experience for each and every one of us.

I really thank the management of Poornima Group of Colleges for giving us an opportunity to observe the working process in the industries.

Jai Jai Poornima Sansthan!

Neha Soni
I Year, CS

SOCIAL VISIT-*an act of kindness*

The practice of providing help for the poor and needy people has roots in many ancient civilizations. To continue this practice and to motivate the students for social service, Poornima Group of Colleges organised visits to various such organizations working in our city. On March 13, 2014, students of First Year Department were taken to ICSW (Indian Council of Social Welfare) Mansarovar, Jaipur which is an oldage home & an organisation which provides education to handicaps. It was a great opportunity for us to grab knowledge and a nice experience of having a word with the old people.

The ashram was provided with a Viklang Centre for disables and handicaps to provide them computer education for a better tomorrow. Food and accommodation facilities are also provided there.

Students had a word with the old people. The elderly people shared their feelings with the students and also discussed about their daily routine. They usually spend their time by playing card and other indoor games. Watching TV, reading newspapers and a cup of tea in the evening is their favourite pastime. They sit in the garden area with their mates sharing their thoughts, have discussions over their experiences of lives. That's how their day usually passes by. They shared their sorrow, happiness and experiences with the students. People from UP, Delhi and other states are living there.

Students bid their good byes by distributing them some sweets and fruits and also took their blessings. It was an everlasting experience.

Rajat Jhakal
I Year, CS

Parent's Speak

I am delighted to know that Poornima Institute of Engineering and Technology is publishing its annual college magazine. College plays an important role of a guide in student's career. Here they come to know about reality and how things work. Going to college is a life changing experience. We are always worried of how the college would be, how will be faculties, will our ward gain something whether it's academic or non-academic. But Poornima have shown the effects by its good deeds. My son told me about the life at Poornima. I came to know about SHG'S and tutorial system. I think they are wonderful and necessary. Self-help groups are actually able to help every student in small groups to rise for the good and better performance. Tutorials help students to cover and practice their entire syllabus collectively. Events like Aarohan are really good as here the students gain knowledge and implement their ideas. All these things inspire students to do better. College environment at PIET is really hygienic and well protected. I thank the college management for establishing such learning environment. I am proud to send my son to Poornima and I am sure that the college will enhance all necessary skills and moral values of my son and will make him a successful.

Mr. Uday Bhan Singh
(Father of Yash Bhan Singh)
I Year, ECE

College plays an important role in building up the character of a student. His education, learning, career and moral ethics all depends on the atmisy of college. Sending your ward to a college like PIET, which has so innovative teaching methodologies like the tutor system, mentorship, SHG's, online exams, NSP's etc. gives parents a satisfaction that their child is at a right place where he/she can learn to face the competitive world. The finest interiors and infrastructure of the campus and a good team of faculty members serve to improve the quality of life of students. Also the teacher-student relationship in the college is quite impressive.

Various technical and cultural fest and different competitions helps the students to come out with their hidden talents. Along with the college campus, the atmosphere of hostel is also very peaceful. Every possible facility is provided to the students to develop in academic and non academic areas. The change in personality and behaviour of a Poornimite can be very well noticed. Poornima is not just an institution of learning and inculcating values but also optimizes creativity by producing scientists.

Mr. Ketan Jain
(Father of Rashi Jain)
I Year, CS

Alumni Speaks

BENEFITS OF HOSTEL LIFE

There is a lot that I owe to my life as a hosteller. Among other things, I got a lot of good friends, learnt quite a lot of things, so all-in-all, I think it was a fair deal. As a result, I maintain that every student should mandatorily spend some time living in a hostel. Now, I shall keep my diatribe as short as possible and stick to the important stuff.

What did I learn at my hostel? Well, the answer to that question alone can cover several pages. But most of all, hostel life taught me self-reliance and the ability to interact with different people. Both of these things have helped me a lot while I was working with Infosys. There I had the opportunity to interact with a lot of people, learn from them and work with them. Hostel life had already helped me get rid of any shyness when it comes to talking to new people. As simple and unimportant as it may sound, hostel life also helped me adapt in a new city and made me capable of living all by myself. If not for all, the lessons in self-dependence learnt at the hostel, I would have found it really difficult to live in a far –off place like Bangalore, away from my parents for close to two years while still being capable enough to manage my own finances and take care of other basic needs. Oddly enough, money alone does not solve every problem. It was through hostel life that I learnt how to identify people for who they really are, and not take things at face value, a rather important lesson in life, one best learn at an early age. It helped me avoid office politics because I instinctively knew it was bad for my career. Something I am sure, you will find useful too.

Another thing that is unique at the Poornima hostels is the Mentorship program. Let me tell you, you never truly appreciate the program until you have gone out into the real world. It benefits the mentors and mentees alike. I was a mentor for two years straight and I feel that I learned things that were equal in importance to several things that I am learning as a part of my masters program. To sum up a few teachings of the mentorship system, I would like to mention leadership, crisis management, public speaking and several more. It should interest you that mentorship was a topic that was quite extensively discussed in my job interview as well as my interview for entrance into a college. On both occasions, the interviewers complemented me on being part of such a great initiative and compared my experiences with real life experiences that they faced on a regular basis.

All in all, I would like to say that hostel life is not just fun and games. You need to read between the lines and take away as much as you can from your time spent within these walls.

Wishing you all a great career!

Mr. Aseem Shandilya
Batch 2011, PIET
Presently pursuing MBA in IMT, Ghaziabad

STEP TOWARDS SUCCESS

Knowing Yourself

The words "Know Thyself" was inscribed above the entrance to the Oracle of Delphi, and the Greek philosopher Socrates made these words the basis of his philosophy. If you don't know what you really want and what tools you have to achieve your goals, then you won't have any way of knowing whether you are on the right track or just stagnating in your professional life. The process of creating a written career plan begins with a personal audit or self-assessment. To do a personal audit, take a few days or a week to list your interests, goals, skills and talents.

By taking this first step towards writing a career plan, you can get a clearer mental picture of who you really are and what you really want in life. This kind of clarity and self-knowledge can help you with every important life decision.

Knowing Your Goals

After doing your self-assessment, make a list of your short-term and long-term goals and a time frame for each goal. For instance, you could have a short-term goal to finish your degree in two years or become manager of a department in four. You could have a long-term goal to start your own company or to make senior management in 20 years. Your career plan should have specific goals for different stages in your life. You can always change your career plan later if your personal goals evolve over time, but the career plan makes it possible for you to assess your own progress on an ongoing basis. If you don't have any particular professional goals, you're likely to just coast along year after year in the same position or type of job.

Finding Your Direction

When writing your career plan, you might discover that you don't feel ready yet to set your long-term goals, especially if you're still in school or at the start of your career. If this happens, you should make a detailed plan to learn as much as you can about your areas of interest. You can set a short-term goal of learning all about the careers available in the fields that appeal to you and a long-term goal of selecting a particular career path by a certain date. This allows you to benefit from making a career plan even though you don't yet know what career you would like to pursue.

Making Your Goals a Reality

Once you have a list of short-term and long-term goals with a time frame for each, you should plan out specific steps designed to help you achieve those goals. For instance, if you want to have achieved a certain position within five years, you might plan to take a class, earn a certification or learn how to use a piece of software or equipment needed in that position. By the time you're done with your career plan, you should know not only where you want to end up in five years or 15 years, but exactly what you need to do over the next 12 months to start moving in that direction. A written career plan can give you both the clarity and the direction you need to achieve your goals.

Mr. Shashank Mehta
Batch -2011, PIET

DEPARTMENT OF MANAGEMENT STUDIES

DMS is committed to shaping life-long learning leaders who can discover innovative and ethical solutions to emerging and changing business conditions. Since its establishment DMS has grown impressively and achieved wide spread recognition from business and industries, academic circles and professional bodies. The growth of the department during the short span has been phenomenal. This is indicative of the prestige and admiration that it has earned and is recognized as one of the premier institutions of the state engaged in management education. The growth of DMS has been in tune with the Poornima Group. The journey that it has embarked upon will lead to the destination of the students' dreams and ambitions which provides space, scope and energy for carving their future and also a niche in society.

PHILOSOPHY & PEDAGOGY

DMS philosophy aims at providing not only with conceptual foundations but also inculcating practical skills in order to build up a vibrant personality necessary for the management students to be up to date with the market and changing trends evolving in the field of management. The primary focus is on how well the institute has been able to prepare its students for the global opportunities and challenges of today's business and industry. At Poornima, the core aim of MBA program is the formation of adaptive leadership practices to create sustainable social, ethical and environmental values among the future managers.

As the management education is not only 'knowledge-centric' but also 'skill-centric', so the emphasis is more on 'doing' and not on mere 'knowing'. The department efforts ensure that the teaching methodology takes into account the reality of the market place that is extremely important for any B-school. DMS pedagogy stems from its belief in multi-disciplinary approach and so it uses diverse teaching methods. It attempts to discourage rote learning and maintenance of sharp boundaries between different subject areas.

Experimental learning and practical insights are recognized as essential supplements. Presentations are an integral part of any MBA program to break the ice in an otherwise theoretical setup. It is with this objective in view, that soft skills and personality development, is essential part of the Department's teaching culture.

BEYOND SYLLABUS ACTIVITIES

SUMMER TRAINING

MBA degree essentially demands a short duration corporate training to expose students to the culture and the professional working of corporate and other organizations. Students after their completion of the second semester examinations had their summer training of 45 days in the prestigious institutions of repute like Ambuja Cements, Rural Electrification Corporation, RIICO, Rajasthan Financial Corporation, Genus Power Infrastructure Ltd., Dainik Bhaskar, RCDF, SARAS, Shree Cements, Commercial Banks, Insurance Companies.

INDUSTRIAL TOURS

Industrial tours provide opportunity of close interface with prestigious industrial units. The seven-day long industrial tours were organized outside the state during the period for MBA third semester students (batch 2012-14) in three groups to the industries like Larsen & Turbo Ltd, Gem & Jewellary Complex, NITIE, Mumbai, Bombay Stock Exchange, Force Motors Ltd, Exide India Ltd, Gujarat Industries Power Co. Ltd, IRMA, AMUL, BHEL, Titan Industries Ltd, Eicher Tractors, Grasim Industries, etc.

INTERNATIONAL CONFERENCE

With the passage of time, business is becoming more and more competitive and as a global imperative, the business houses in Asia have to adopt innovative strategies to meet the challenges and grab opportunities for their sustainable growth, an International Conference on "Challenges and Opportunities in Asian Economies: The Management Perspective" was organized on February 08, 2013 - 09 February, 2013. The conference was organized in collaboration with JK Lakshmipat University, Jaipur and Asian Institute of Technology, Bangkok.

CERTIFICATE/CAPSULE COURSES

DMS, PGC also provides additional contemporary courses along with the regular academic sessions on the prescribed RTU syllabi with a view to provide prospect of value addition to MBA students. A certificate course on 'Banking' and capsule courses on 'Insurance', 'Capital Markets', 'Essentials of Engineering for Future Managers' were organized.

SPECIAL LECTURES

Various special lectures by eminent personalities are conducted to enhance the knowledge of students. These sessions are presided by personalities of high repute and stature, leading to the ornamentation of department.

PERSONALITY DEVELOPMENT PROGRAM

Personality development sessions are presided as an integral part of MBA curriculum with a view of development of overall personality of students.

MANAGEMENT DEVELOPMENT PROGRAM

DMS, along with the MBA program, also organizes short term management development training programs and workshops to meet the specific needs of the sponsoring organizations. Such programs are tailor-made. MBA

students along with the faculty were associated with the conduct of such programs which gave them exposure to managerial functions in different industrial disciplines. Continuing the chain, two MDP's were organized by DMS on March 15, 2013 –March 16, 2013 and September 27, 2013-September 28, 2013 respectively for "Managerial Skills for Senior/Middle Level Executives of RIICO". With this program, the total number of MDPs organized by DMS, PGC, so far, at the instance of sponsoring organizations has become 34.

ORIENTATION PROGRAM

A two-day orientation program was organized on August 12, 2013 - August 13, 2013 for the new batch (2013-2015). This program provided a brief introduction about the Poornima Group, its growth, culture, traditions, ideology, philosophy and vision. The occasion provided a platform where seniors and freshers were closely acquainted and mixed well with each other.

MANAGEMENT DAY

DMS, PGC celebrates the 'Management Day' on 19 November every year, the birthday of the Internationally recognized Management Guru Peter F. Drucker. On this occasion, various management, sports and extra/co-curricular events were held in competitive mode.

Quarterly newsletter 'DMS DIGEST- September, 2013' was also released by the Chief Guest on this occasion. Academic excellence was also recognized on this auspicious occasion by awarding Gold and Silver Medals. An exhibition of creative arts of students and faculty was appreciated by the Chief Guest and other dignitaries. It was not only an art exhibition but also an exhibition of managerial skills of students by creating some management models.

GESTION – THE MANAGEMENT COLOSSEUM

GESTION-the Management Colosseum, is an annual event to provide a platform to budding managers to showcase their professional talents and skills to meet the challenges of the real world. Gestion upholds the nuances of ethnicity and modernity, keeping in view, the cultural, traditional and the global perspective.

A two day management fest was organized by DMS, PGC on December 09, 2013 - December 10, 2013. The event was lively and interactive with the participation of 11 B-schools. The event covered 19 various management and cultural events like Business Quiz, Ad Making, Mock Parliament, Debate, Idea-factory, Business Plan, Poster Making, T-shirt Designing, Face painting, Tattoo- making, Nukkad-Natak, Group Dance, Solo dance, Antakshari, Fashion Show, Treasure Hunt, Rangoli making, Collage making and Poem Recitation.

FAREWELL FUNCTION

On 20 April, 2013, farewell was organized. The final year students were paid adieu by the first year students with heavy heart wishing them a great future. The celebration provided an opportunity to recall the days spent by the senior MBA students over two academic sessions of their management education at DMS, PGC and moments of joy and experiences shared by them with their colleagues in MBA first year, the faculty and staff. It was also an occasion for bonding of relations and ties and developing mutual love, affection and trust for the rest of their lives.

ACHIEVERS

FACULTY ACHIEVEMENTS FROM DEPARTMENT OF ELECTRICAL ENGINEERING

Mr. Anil Boyal
- Presented a paper on "Wireless Electricity Transmission" in Poornima College of Engineering, Jaipur.
- Presented a paper on "Evaluation of Hydrogen Generator Prototype for Vehicles" in MNIT, Jaipur.
- Published a research paper at IIT, Guhawati on "PHOTONICS 2010".
- Presented a paper on "Telemedicine in Cancer and Heart Diseases" in MBM, Jodhpur.
- Presented a paper on "Renewable Energy-Present Status and Future Prospects in Rajasthan" at IRJISM.

Mr. Rajendra Singh
- Attended conference on "Non-Renewable Energy Sources" in Arya Institute of Engineering & Technology, Jaipur.
- Presented a paper on "Loss Minimization in Radial Distribution System" in National Conference.
- Presented a paper on "Micro grid controlling & their reliability" in Kautilya College, Jaipur.

Ms. Aakansha Deo
- Presented a paper on "Removal of Power Line Interference & Base Line Wander from ECG with Adaptive Filters", in IEEE sponsored conference on Advances in Electrical Power & Energy Systems, Ghaziabad, September 2013.
- Published a paper on "A Review on EEG Signal Pre-Processing & Evaluation of ERP using Wavelet Transform & Soft Computing Techniques", in the Proceedings of IEEE National Conference on Emerging Trends in Engineering & Technology (ETEAT-2013), Noida, 2013.
- "Denoising of ECG Signals with Adaptive Filtering Algorithms & Patch Based Method", Published in IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC), ISSN: 2250-3501 Vol.3, No3, June 2013.
- "Denoising of ECG Signals with Adaptive Filters", in IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC), ISSN: 2250-3501, Vol.3, No3, June 2013.

Ms. Swati Singh
- Published a paper in "National Symposium on Micro Electronics" May, 2012 on "Modern Technology TFT".
- Attended a short-term course based on TCL/TK/GUI Silicotech, Noida in June, 2013.

FACULTY ACHIEVEMENTS FROM DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

Mr. Deepak Moud
- Attended a workshop on "Data Base Management System" at PCE, Jaipur.
- Attended a workshop on "Research Methodology" at Poornima University, Jaipur.
- Got a paper published on "An Analysis of Effective Teaching-Learning Methodology" in IEEE MITE at PIET, Jaipur.

Ms. Shruti Bijawat
- Attended a workshop on "Big Data" at Malviya National Institute of Technology, Jaipur.
- Attended a workshop on "SPSS" at PIET, Jaipur.
- Attended a workshop on "Research Methodology" organized by IIT, Mumbai at PCE, Jaipur.

Don't wait. The time will never be just right--Napoleon Hill

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- Got a paper published on "An Analysis of Effective Teaching-LearningMethodology" in IEEE MITE at PIET, Jaipur.
- Got a paper published on "Data Mining: analysis to predict academic performance of students based on varying factors" in IJERA.

Mr. Manish Bhardwaj

- Attended a workshop on "SPSS" at PIET, Jaipur.
- Attended a workshop on "Wireless Sensor Network".
- Got a paper published on "HTML vs. HTML5".
- Got a paper published on "An Analysis of Effective Teaching LearningMethodology" in IEEE MITE at PIET, Jaipur.
- Got a Paper published on "A Review Paper on Techniques of Watermarking" in IJCST.
- Got a Paper published on "Cloud Computing: a Business Perspective" in IJSER.
- Organised a workshop on HTML/CSS, MS OFFICE Applications, Latex and Foss at PIET, Jaipur.

Mr. Sandeep Tuli

- Attended a workshop on "Pattern Recognition" at Malviya National Institute of Technology, Jaipur.
- Attended a workshop on "SPSS" at PIET, Jaipur.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.
- Got a paper published on "An Analysis of Effective Teaching LearningMethodology" in IEEE MITE at PIET, Jaipur.

Mr. Praveen Kumar Chandilya

- Attended a workshop on "Pattern Recognition" at Malviya National Institute of Technology, Jaipur.
- Attended a workshop on "SPSS" at PIET, Jaipur.
- Attended a workshop on "Hibernate and Struts" at JLC.
- Attended a workshop on "Biometrics and Privacy Protection" at Malviya National Institute of Technology, Jaipur.
- Organised a workshop on "Nagarrow Paper Solution" at PIET and PGI.

Ms. Ekta Arora

- Attended a workshop on "Data Base Management System" at PCE, Jaipur.
- Attended a workshop on "SME SECTOR" at JIMT.

- Attended a workshop on "Building Technology Ventures" at PIET, Jaipur.

Mr. Amitesh Kumar

- Attended a workshop on "SPSS" at PIET, Jaipur.
- Attended a workshop on "Research Methodology" at Poornima University, Jaipur.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.
- Got a paper published on "The Impact of LINUX (Free Open Source Software) in spoken tutorial a part of MOOC" in IEEE MITE at PIET.
- Got a paper published on "A Proposed Model to Prevent Attacks of SQL INJECTION" in IJCST.
- Got a paper published on "A Review Paper on Techniques of Watermarking" in IJSER.
- Organised a workshop on "PHP and MYSQL, C/C++, LINUX, MSOFFICE Applications, FOSS (FDP)" at PIET and PCE, Jaipur.

Mr. Pradeep Natani

- Attended a workshop on "Wireless Sensor Network" at PIET, Jaipur.
- Attended a workshop on "SCADA" at Poornima University, Jaipur.
- Organised a workshop on "IBM DB2" at PGC, Jaipur, "WIRELESS SENSOR" at PIET, Jaipur.

Ms. Madhuri Gupta

- Attended a workshop on "Data Base Management System" at PCE, Jaipur.
- Attended a workshop on "Biometrics and Privacy Protection" at Malviya National Institute of Technology, Jaipur.

Ms. Kanika Phutela

- Attended a workshop on "SPSS", "IBM DB2" at PIET, Jaipur.
- Attended a workshop on "Principles and Practices for Effective Teaching", "Exploring Engineering Education Research" organized by INFOSYS at PIET.
- Attended a workshop on "Wireless Sensor Network" at PIET, Jaipur.
- Got a paper published on "The Impact of LINUX (Free Open Source Software) in spoken tutorial a part of MOOC" in IEEE MITE at PIET.
- Got a paper published on "A Review Paper on Techniques of Watermarking" in IJSER.

Ms. Sneha Sharma

- Attended workshop on "Principles and Practices for Effective Teaching", "Exploring Engineering

Education Research" organized by INFOSYS at PIET.

- Presented a paper on "An Analysis of Effective Teaching Learning Methodology" in IEEE MITE at PIET.

Mr. Avinash Kumar

- Attended a workshop on "Wireless Sensor Network and Qualnet" at PU, Jaipur.

Ms. Deepika Jangid

- Attended a workshop on "Building Technology Ventures" at PIET, Jaipur.

Mr. Dheeraj Vadhwani

- Attended Faculty Induction Program organized by NITTTR, Chandigarh at SGI,

Sikar.

- Attended WIPRO MISSION 10x Faculty Empowerment Program at SGI, Sikar.
- Attended a workshop on "Wireless Communication Network" at PU, Jaipur.

Mr. Nishant Singh

- Attended Faculty Induction Program organized by NITTTR, Chandigarh at PU, Jaipur.

Ms. Neha Srivastava

- Got a paper published on "The Impact of LINUX (Free Open Source Software) in spoken tutorial a part of MOOC" in IEEE MITE at PIET.
- Attended workshop on "SPSS" at PIET, Jaipur.

FACULTY ACHIEVEMENTS FROM DEPARTMENT OF FIRST YEAR

Ms. Mahima Kapoor

- Attended a National Conference on Environmental Terrorism: A Challenge for the New Millennium organized by St. Wilfred's PG College, Jaipur.
- Presented a paper titled as "Fluoride Minimizing Capacity of the Potable Water- a newer approach" in the National Symposium on Natural Resources- Conservation and Management.

Mr. Mohit Bajpai

- Attended Faculty Induction Program organized by NITTTR, Chandigarh at Anand International College, Jaipur.
- Attended a workshop on "Research Methodology" at Poornima University, Jaipur.

Ms. Priya Mathur

- Attended a workshop on "Research Methodology" at Poornima University, Jaipur.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.

Ms. Aarshi Sinha

- Attended 3 days workshop on "Building Technology Ventures" organized by National Entrepreneur Network, Bangalore at PIET, Jaipur.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.
- Attended a workshop on Smart Board conducted by Pearson Group at Poornima University, Jaipur.

FACULTY ACHIEVEMENTS FROM DEPARTMENT OF CIVIL ENGINEERING

Dr. Ankita Dadhich

- Dr. Ankita Dadhich & Dr. (Prof.) Kazvo Nadaoka got a research paper published entitled as "Modeling Hydrological response to Land use change in Watersheds of Vitu Levu Island, Fiji" and accepted for 6th International Congress of Environmental Research.

FACULTY ACHIEVEMENTS FROM
DEPARTMENT OF ELECTRONICS & COMMUNICATION

Mr. Sachin Chauhan
- Got a paper published entitled as "A Design of Triangular Sierpinski Gasket Fractal Antenna" in International Journal of Electronics & Communication.

Mr. K.R. Prajapat
- Attended SPSS training at Poornima University.
- Certified for 1 day workshop on "Real estate future planning" by Trimurti group, Jaipur, under Krypton E-cell.

Ms. Rachna Gera
- Presented a paper titled as "Design of Triangular Sierpinski Gasket fractal antenna" in International Conference, ICAIT & published in International Journal of Electronics & Communication.
- Attended 10 days workshop on Analog Electronics organized by MHRD.

Mr. Swapnil Jain
- Presented a paper titled as "SRAM leakage power reduction technique using dual ton-V & threshold" in International Conference, ICAIT 2013.

Ms. Rythm Sisodia
- Presented a paper titled as "Study analysis of Cooperative Spectrum sensing using Cognitive Radio Networks" in National Conference at Arya Group of Colleges, Kukas.

Mr. Kamal Kishor Choure
- Got a paper published entitled as "A survey on free standing phase correcting gain enhancement device", in International Journal of Scientific & Engineering Research (IJSER), vol.4, issue 7, 2013.

Ms. Sumitra Singar
- Attended 10 days workshop on Analog Electronics organized by MHRD.
- Presented a paper titled as "A proposed model for prevention of SQL injection attack" in International Conference.
- Organized a spoken tutorial workshop on 'C' language.

FACULTY ACHIEVEMENTS FROM
DEPARTMENT OF INFORMATION & TECHNOLOGY

Ms. Pooja Sharma
- Got a paper published in IEEE MITE 2013 held at Poornima Institute of Engineering & Technology, Jaipur entitled as "Improving performance level of students by implementing Self Help Groups".
- Got a paper published entitled as "New & Efficient Low overheads Algorithm for Mobile Distributed system" in the Proceedings of International Conference and Workshop on Emerging Trends in Technology (ICWET, 2011) Mumbai, India uploaded in ACM Digital Library 978-1-4503-0449-8/11/02.
- Got a paper published entitled as "A Survey of Checkpointing Algorithms in Mobile Ad Hoc Network" in the Global Journal of Computer Science and Technology Network, Web & Security (USA) Volume 12 Issue 12 Version 1.0 Year 2012 Online ISSN: 0975-4172 & Print ISSN: 0975-4350.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.

Ms. Swati Mathur
- Got a paper published in IEEE MITE 2013 held at Poornima Institute of Engineering & Technology, Jaipur entitled as "Improving performance level of students by implementing Self Help Groups".
- Presented a paper in ICAIT 2013 on "Feature extraction in content-based image retrieval- a review".
- Attended a workshop on "Pattern Recognition" at Malviya National Institute of Technology, Jaipur.
- Awarded with Masters of Technology.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.

Mr. Puneet Mathur
- Got a paper published in IEEE MITE 2013 held at Poornima Institute of Engineering & Technology, Jaipur entitled as "Improving performance level of students by implementing Self Help Groups".
- Attended 2 days International Workshop on

"Mobile and Cloud Computing (IW-MCC)" at Techno India NJR Institute of Technology.

- Attended III IEEE International Advance Computing Conference (IACC-2013) at Ajay Kumar Garg Engineering College, Ghaziabad (AKGEC).

Mr. Paras Bassi

- Attended a workshop on "Biometrics and Privacy Protection" at Malviya National Institute of Technology, Jaipur.
- Got a Paper published on "Performance Analysis of Ad hoc On-Demand Distance Vector Routing and Dynamic Source Routing using NS2 Simulation" in Springer's LNCS proceedings of Second International Conference on Advances in Information Technology and Mobile Communication, AIM-2012, Bangalore, India.

- Got a Paper published on "Performance Analysis of TCP & UDP in co-located variable bandwidth environment sharing same transmission links" in Springer's LNCS proceedings of Fifth International Conference on Network Security and Applications, CNSA-2012, Chennai, India.

Mr. Nouman Khan

- Attended a workshop on "Biometrics and Privacy Protection" at Malviya National Institute of Technology, Jaipur.
- Attended WIPRO MISSION 10x Faculty Empowerment Program at PIET, Jaipur.

Ms. Poonam Malpani

- Qualified GATE with 98.1% AIR 4227.
- IBM Certified Associate Developer -- Rational Application Developer.

STUDENT'S ACHIEVEMENTS FROM DEPARTMENT OF ELECTRICAL ENGINEERING

Hitendra Singh Rathore, Gaurav Upadhyay presented a paper on "Micro grid controlling & their reliability" in Kautilya Engineering College, Jaipur Presented a paper on "Performance of coil gun with different energy sources and switching devices" in Arya Engineering College, Jaipur.

Avantika Sharma presented a paper on "A review on STATCOM voltage controller design using different control techniques" at PCE, Jaipur.

Bheem Singh presented a paper on "Carbon Taxes" at PIET, Jaipur.

Piyu Purohit presented a paper on "Generation of Electricity using Solar Paint" at Kautilya Engineering College, Jaipur.

Anand Kumar awarded with Gold Medal for being the college topper in I Year; also selected as "Outstanding Student" from III Year. He was also declared as the winner in "Tech Charades" at VIT, Jaipur.

Anand Kumar and Aniket Suman presented paper on "Wireless Communication in Industrial Applications"; "Integrated PLC & SCADA in water resource management" at PCE, Jaipur.

Piyu Purohit, Anand Kumar, Aniket Suman, Bheem Singh presented a paper on "How Smart Grid can Energize the world?" at VIT, Jaipur.

STUDENT'S ACHIEVEMENTS FROM DEPARTMENT OF FIRST YEAR

Parth Oberoi, student of CS branch, I Year, participated in ROBO WAR at BITS, Pilani and secured II position. He also participated in Apogee Event at BITS, Pilani.

Abhinav Srivastava, Deeksha Marwari, Anil Choudhary, Alka Kumari, Parth Oberoi, students of CS branch, I Year, participated in Aeromodelling Workshop at Poornima College of Engineering, Jaipur.

Gaurav Shekawat, Aditya Srivastava, Khushal Gupta, students of EC branch, I Year, participated in Aeromodelling Workshop at Poornima College of Engineering, Jaipur.

Utkarsh Sharma, student of CS branch, I Year, participated in Instill Design Workshop at Malviya National Institute of Technology, Jaipur.

STUDENT'S ACHIEVEMENTS FROM DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

- **Manoj Kumar Mali, Mamta Choudhary, Abhinav, Kiran Kumawat, Rohit Shrimal, Ritesh Aggrwal, Sahil Pareek and Karan Sharma** participated in Project Presentation at VIT, Jaipur.

- **Nitika** awarded with Outstanding Student on Kalanidhi, Annual Day, on October 02, 2013 at Arbuda Convention Centre, PIET.

- **Sameer Negi, Rohit Shrimal, Ritesh Agarwal and Shashank Mundhra,** awarded for making Best Non-Syllabus Project on Kalanidhi, Annual Day, on October 02, 2013 at Arbuda Convention Centre, PIET.

- **Rohit Shrimal, Shashank Mundhra, Sahil Pareek and Karan Sharma** participated in Project Presentation at GIT, Jaipur.

- **Rohit Shirmal, Ritesh Agarwal, Karan Sharma, Shashank Mundhra, Sahil Pareek, Sher Singh Choudhary, Vijay Lachwani,** **Rohit Mittal, Yatendra Sharma, Karishma Sharma, Versa Ladhani, Vaidehi Bharti and Surbhi Pandey** participated in National Level Economic & Environment Test at Gyan Vihar University, Jaipur.

- **Karishma Kapoor** participated in Inter and Intra College Debate Competition, Manthan-2013 held at Arbuda Convention Centre, PIET.

- **Prerna Kaushik** and **Sumedha Kaushik** participated in Debate Competition at St. Xavier's College, Jaipur.

- **Gargy, Kishore, Nicky Gupta, Parth Gupta** and **Mansi Atolia** participated in TGMC Project Exhibition at Maharshi Arvind College, Jaipur.

- **Devendra Sharma** participated in National Level Project at Rajasthan College of Engineering for Women.

- **Arpita Rathore** attended National Camp of National Cadet Corps, Raj Naval Unit.

STUDENT'S ACHIEVEMENTS FROM DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Sunil Rajora awarded with outstanding student award on KALANIDHI 2013.

Sunil Rajora, Amit Kumar Singh presented a Paper in JNIT on "Novel Quard Designing and Construction using UAV".

Sunil Rajora, Amit Kumar Singh & Sunil Saini received second prize in Project Presentation at JK Lakshmipat University.
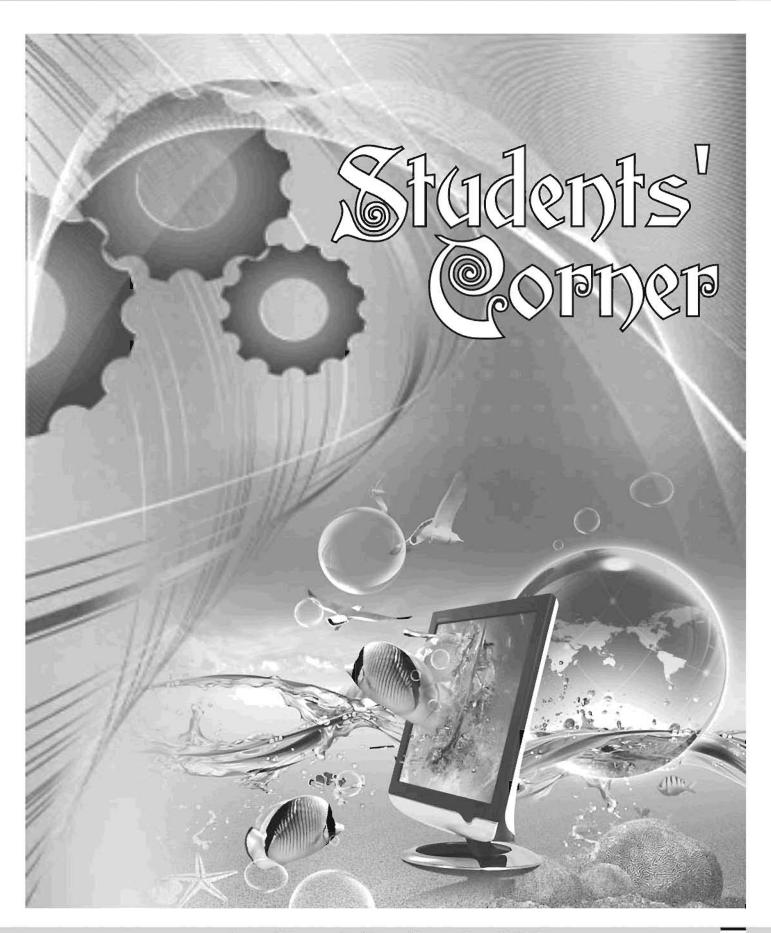
Amit Kumar Singh attended a workshop on "Network Implementation and Security" at IIT Delhi.

Nikhil Kumar, Arvind Kumar Saini & Sharad Mathur won I Prize at Punjab University in North India Robotics Competition,

Nikhil Kumar, Arvind Kumar Saini, Nishant Kumar Agarwal, Sharad Mathur & Nikhil Suthar participated in Asia level Robotics tech fest-2013-14 at IIT, Mumbai, also attended a workshop on B –plan at JK Lakshmipat University.

Mukesh Saraswat & BhanuPratap Singh Rajpurohit received II Prize in All India Tata First Dot Competition by NEN.

Nishant Kumar Agarwal & Nikhil Suthar received I Prize in Mobile Controlled Robot (Wired/Wireless) competition.

Students' Corner

ENGINEERING: A Tool of Scientific Discovery

Rightly said by Theodore Von Ka'rm'an, "Scientists study the world it is, Engineer create the world that has never been."

Engineering is the professional and systematic application of science to efficient utilization of natural resources to produce wealth. Engineering has existed since ancient times as human devised fundamental inventions such as pulley, lever and wheels and now engineering can be seen in every walk of life. It plays a crucial role in the progress of nation. Some recent discoveries are a power pen which can be used to light up the room, an eye ball camera with large zooming capacity, 3-D printers, super scanner.

Engineers developed a new source of power i.e. solar power, cuts energy costs and helps to create eco friendly devices. They discovered the concept of virtual nurse and vacation in space.

Engineering proved to be a breakthrough in medical field also. In medical, a new kind of imaging could detect melanoma earlier and provide a better road map for the surgeon to remove it. Engineers are working on the way to mimic the human skin to cut down infections. This is called nano skin. Scientists have also created virtual reality surgery and alternative to open heart surgery.

There is a satisfaction of watching a figment of imagination emerging with the aid of science to a plane of paper. Then it moves to realization in stone or metal or energy. It then brings home and then it elevates the standard of living and adds comforts to life.

Navya Bhatia
I Year, CS

CIVIL ENGINEERING EDUCATION

As the technological revolution expands, the world's population increases, and environmental concerns mount, Civil Engineering skills are needed throughout the world. Whatever area one chooses, i.e. design, construction, research, planning, teaching or management, Civil Engineering offers a wide range of career choices. And there is no limit to the personal satisfaction one will derive from helping to make the world a better place to live. Civil engineering technologists function as part of the engineering team and perform duties that focus on measurement and analysis, design, supervision of field, installations and quality control. Civil Engineering technicians perform similar work that is less complex but highly specialized. Civil Engineers play very significant role as they build the quality of our life. With creativity and technical skill, civil engineers plan, design, construct and operate the facilities essential for modern life, ranging from bridges and highway systems to water treatment plants and energy- efficient buildings. Civil Engineers are problem solvers, meeting the challenges of pollution, traffic congestion, drinking water and energy needs, urban redevelopment and community planning.

Today engineers must continue their education long after their bachelor's degree. Whether through continuing education and professional development programs or master's degree programs, engineer will need to increase their knowledge base to face growing challenges. In addition, more and more employers are encouraging employees to earn higher degrees and become licensed professional engineers. More and more, those entering the Civil

Strive not to be a success, but rather to be of value--Albert Einstein

Engineering field are normally required to have skills in communication, computers, management and foreign languages, as well as advanced knowledge in a specialty within Civil Engineering. Students increasingly need to have knowledge of foreign languages or cultures, because many civil engineering mega projects are now overseas. Due to rapidly changing technology in this field, people in these occupations are desired to plan on periods of retraining and professional development. New entrants with cooperative experience and highly developed computer expertise are likely to enjoy the best employment opportunities.

Beyond the cycle of design and construction, there is software designed for planning, maintaining and operation building, transportation systems, and many other forms of civil engineering works. Web- based servers for engineering over the internet, object technology for CAD systems and information databases, new standards, and multimedia technology are all emerging as trends that will increasingly impact the way civil engineers work and interact with others. Trends represent vision, and exist for those with the ability to see beyond the computer screen and the elaborate and complex construction of customized applications to the freedom that current technology offers. Civil Engineering, which belong to oldest discipline of our civilization have evergreen scope for popularity among masses.

Rishika Nagar
I Year

ENGINEERS: The Potential Economists

An engineer is such an educated personality on the earth that executes the brilliant ideas invented or given by some knowledgeable person. Our Indian economy that is getting worsen day- by-day is not only a matter of panic for government but now has become a major problem of the common people.

As we all know, India is producing maximum number of engineers. It is a plus point for our country which can immensely help the Indian economy to rise.

Think of 50% of youth of India of working age group, out of which 37% are engineers and can alarmingly affect the economy, government, GDP and condition of our country. Imagine of a robot that is easily accessible at each and every house, SLV, Agni 2 reaching up to SLV5 and Agni 10 and many more "Vikrants" walking on our water bodies making every Indian proud.

We have found engineers as one of the greatest strength of UK and we are even pleased to say that Indian engineers are globally regarded.

For a tremendous economy, the country needs a better government, effective ways to stop migration of engineers and give them the same respect and pleasure that they deserve.

Engineers are the upcoming youth of our country and a country without its youth is handicapped.

"Think of 38% of Indian workers in Microsoft, running an Indian Microsoft...!"

It's time for the budding engineers to come up and make our country rise by making it a "Global Power".

For an optimist: it's half full, for a pessimist: it's half empty

But for an engineer: glass is twice than what is needed!

Prerna Kaushik
III Year, CS

Engineers Creating A New World Every Hour:

What A Mind Perceives Is Turned Into Reality By An Engineer!

The workforce of engineers are not just developing technology but rather doing so in a resource management way. The twentieth century focused on physics, electronic, high-speed communications and high-speed long distance transportation. It was an age of speed and power.

The twenty first century appears to be quite different, dominated by biology and information, but also by macro scale issues like energy, water and sustainability.

The increasing production of engineers all over the globe justifies that the ever increasing and ever developing globe requires these able minds to run the world in harmony with resources.

It is of great notice that engineering is now becoming one of the most prudential and effective field of profession that interests women. This revolution is the outcome of long run struggle. The numerous branches and fields available give the freedom to experiment life on different scales that includes lavish cabins to hard sunny field jobs.

With the changing world, the profession has evolved. From early days to till date, it has focused to provide best of services to mankind fulfilling its dreams and desires. From Moon, till core of earth and finding the existence of life on other planets engineers have left no stone unturned. But in view of the broadening and rapidly shifting scope of the engineering profession, it is imperative to shift the focus of engineering curricula from transmission of content to development of skills that support engineering thinking and professional judgment. Future engineers will need to adapt to rapidly changing work environment and technology, direct their own learning, broaden an understanding of impact, work across different perspectives and continuously revisit what it means to be an engineer.

To the engineers and scientists of India, January 05, 2014 brought with it a historical moment. With the blast-off GSLV-D5, Geosynchronous satellite launch vehicle powered by an indigenous cryogenic engine, from the Satish Dhawan Space Centre in SriHarikota, ISRO became sixth space agency in the world after US, Russia, Japan, China and France to taste success with indigenous cryogenic engine. This has put India in the list of nations that can launch heavy satellites.

This grand success gives us another opportunity to be proud of being an Indian and also reminds us towards our responsibilities for the nation and world, being the upcoming engineers. Each one of us needs to realize our true potential and the proper use of our knowledge so that our existence can make difference in the living conditions of the world. We are the tools of upcoming future discoveries… Come; let us realize the dreams of individuals into reality!!!!!

Hina Azad
III Year, IT

DECENTRALIZED INTELLIGENT LOADS IN POWER-SYSTEM FREQUENCY & STABILITY CONTROL

Modern power systems are based on the principle that the load is uncontrollable and that system voltage, frequency and stability are primarily maintained through control of the generation. But recent studies in this arena, propose a much more active role for intelligent loads specifically related to frequency control and dynamic stability. In modern systems, the load is typically controlled only under severe stability conditions via load shedding. Many loads could cost-effectively become intelligent, allowing for the potential of the loads to more actively participate in system operation and control. The potential benefits of active load control, reliability and implementation issues are explored. Fundamental analysis and multi-machine system simulation examples are used to demonstrate many of the issues.

A majority of interconnected power systems operate on the premise that the load is uncontrollable. System voltage, frequency and stability are primarily maintained through the real-time control of the generation. For example, system frequency is controlled through adjustment of the mechanical power of the generators using speed governor feedback and Area Generation Control (AGC). Similarly, dynamic stability enhancement is conducted through adjustment of the generator's excitation voltage via the Power System Stabilizer (PSS) loop and transmission level FACTS devices. Typically, load is only controlled under severe stability conditions such as under-frequency load shedding. Traditionally, it was considered that the demand of load was variable, uncontrolled and the generation must constantly adjust to reliably meet the demand. Eighty-five years of regulatory efforts have focused exclusively on supply to empower consumer demand, to help stabilize electric systems, while creating a more flexible economic environment.

Anand Kumar
III Year, EE

ENGINEERING: Transforming the World

We're surrounded by inventions. There are so many things around us that we take for granted but make our lifestyle possible. For instance, Could you imagine living a day without checking emails on your computer or walking around without your Smartphone? No. These inventions are the results of engineering. Thus, we define engineering as the creative application of science to design, construct and/or use structures, machines, software etc for practical purposes.
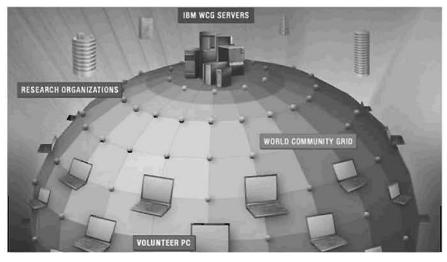
Throughout history, engineering has been able to create a variety of technologies and solve diverse problems created to health and hygiene, treatment and cure of diseases, education, agriculture, households, transportation and many other fields. The outcome has been the provision of greater comfort and amenities for societies. Just as the telescope allowed Galileo to peer into space and magnetic compass helped Chinese explorers traverse the ocean, similarly engineering leads to scientific discoveries which are critical to innovations and developments in the world. From the earliest stone tool to the latest digital advances, engineering has resulted into new inventions and technologies that have shaped civilizations and transformed life on earth.

When we think of technology innovations, the few examples that come to mind are those that have solved

longstanding problems. Engineering ushered in significant developments in the field of mass production, transportation, industries, communication, electronics, computers, internet, automobile, airplane, water supply and distribution, agricultural mechanization, infrastructure, space flight, imaging, household appliances, health technologies, petrochemical technology, laser and fiber optics, nuclear technologies etc. These influential inventions have made things incrementally better and forever changed the way we live.

For instance, invention of telescopes and microscopes led to the scientific method of observation. Access to clean water through various water purification methods and devices has perhaps saved more lives than any other technology in the history of the world. Coal power gave rise to iron and steel, the basic materials of the industrial revolution. This has led to the invention of several huge machineries. Advances in transportation have continuously transformed the way human live, work and travel. The advent of the automobile, airplane and metro trains have revolutionized the transportation. ATM machines, net banking has changed the complete scenario of banking. After the invention of printing press and modern newspapers, the successive invention of the telegraph, telephone, radio, television, computer and internet transformed the communication landscape, making individual connections more immediate and access to news and other information more efficient than ever before. Today information flows almost instantaneously around the globe. In the realm of technology, the integrated circuit opened the floodgates for our world of modern electronics. Recent decades have seen a trend towards developing increasingly compact electronic devices that are affordable and convenient for a growing segment of the world's population.

These are likely to be some of the inventions that still resonate with us to this day and in the future, when we will think of the 21st century in retrospect.

At present, engineers are focusing on the burning topics of the 21st century which entails Artificial Intelligence, interfaces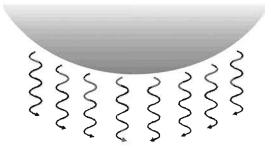 and robotics, safety and health concerns, space exploration and "Green Inventions", i.e., eco-friendly inventions and that involve energy efficiency, recycling, renewable resources, vicinity of energy conservation and sustainable development and more.
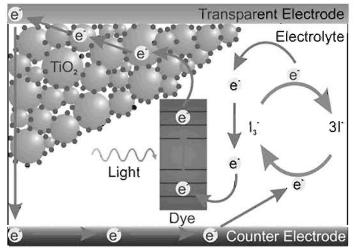
Great inventions have marked a number of key turning points in human history, transforming society and our daily lives. Engineering can solve a real problem, fulfill a burning need or make a user's life infinitely simpler. It safeguards the interests of societies and ensures the health of the environment. Engineering may well be considered a harbinger of a brighter future for the generations to come. The world depends on great engineering now more than ever.

"You'll never look at the World the same way again!"

Manasvi Patel
III Year, CS

SOLAR CELL TECHNOLOGY

From ancient Greek homes built to face the warm winter sun to advanced thin-film photovoltaic, which generate electricity from the sun, humans have used the sun's rays to meet their energy needs. The sun showers the earth every hour with enough energy to meet world demand for a year. And the best part: this energy is pollution free, inexhaustible and accessible to many.

The development of solar cell technology begins with the 1839 research of French Physicist Antoine-Ce'sar Becquerel. He observed the photovoltaic effect while experimenting with a solid electrode in an electrolyte solution when he saw a voltage develop when light fell upon the electrode.

The mere thought of converting sunlight into electricity in a cheap, efficient way has had researchers salivating for years. Energy hungry world is rapidly flipping the switch on solar energy projects.

A solar cell is any device that converts the energy of sunlight directly into electrical energy through the process of photovoltaic such as solar panels and solar cells, while the term photovoltaic cell is used when the light source is unspecified. Assemblies of cells are used to make solar panels, solar modules, or photovoltaic arrays. Photovoltaic is the field of technology and research related to the application of solar cells in producing electricity for practical use. The energy generated this way is solar energy.

Photovoltaic effect involves the creation of voltage in a material upon exposure to electro-magnetic radiations. Though the photovoltaic effect is directly related to the photoelectric effect, the two processes are different and should be distinguished. In the photoelectric effect, electrons are ejected from a material's surface upon exposure to radiation of sufficient energy. Photovoltaic effect differs in that the generated electrons are transferred from different bands (i.e. from the valence to conduction bands) within the material, resulting in the build-up of a voltage between two electrodes.

In most photovoltaic applications, the radiation is sunlight and for this reason the devices making use of the photovoltaic effect to convert solar energy into electrical energy are known as solar cells. In the case of a p-n junction solar cell, illumination of the material results in the creation of an electric current as excited electrons and the remaining holes are swept in different directions by the built-in electric field of the depletion region.

Recently there have been several solar power advances worth noting from the evolutionary to the revolutionary. The world's first solar airplane just took flight- which just goes to show that solar cells aren't only destined to be planted on the ground and Japan is sending a solar powered "sail craft" into space.

The only thing limiting the application of solar cells, we can say, is our imagination.

Komal Sharma
II Year, EE

DIGITAL UNIVERSE:
A Universe of Opportunities and Challenges

Looking for the next technology advancement in this world, let's get introduced with the new technology "Digital Universe".

The world's information is doubling every two years. Digital Universe, a free online information service, was founded in 2006, with the aim of creating a network of portals designed to provide high quality information and services to the public.

Digital Universe is a measure of all the digital data created, replicated, and consumed in a single year. It is made up of images and videos on mobile phones uploaded to YouTube, digital movies on High definition televisions, banking data swiped in an ATM, security footage at airports and major events such as the Olympic games, subatomic collisions recorded by LHC at CERN, transponders recording highway tolls, voice calls zipping through digital phone lines and texting as a widespread means of communications.

IDC's sixth annual study of the digital universe reveals that by 2020 the world will generate 50 times the amount of information and 75 times the number of information containers. It is also estimated that in the coming eight years, the amount of digital data produced will exceed 40 zetta bytes, which is the equivalent of 5,200 GB of data for every man, woman and child on earth. Majority of data will be produced by machines and not humans, as they talk to each other over data networks i.e., machine sensors and smart devices communicating with other devices.

The number of servers (virtual and physical) worldwide will increase 10 fold and the amount of information managed directly by enterprise data centers will grow by a factor of 14. IDC estimates that in the coming 10 years, 40% of the information in the digital universe will be touched by cloud computing, i.e., a byte will be stored or processed in a cloud from originator to disposal.

About one third of the data in the digital universe is unprotected, adhering to regulations or theft. The level of security varies by region, with much less protection in emerging tech markets like Brazil, Russia, India, Malaysia and the United Arab Emirates.

The digital universe is rapidly expanding and incredibly diverse, with vast regions just like our own physical universe.

Sunil Rajora
III Year, ECE

ONE TIME PAD CRYPTOGRAPHY

One Time Pad also called as Vernam- cipher or the perfect- cipher is a crypto algorithm where plain text is combined with a random key and is the only known method to perform mathematically unbreakable encryption, if used correctly. It is a binary additive stream cipher, where a stream of truly random keys is generated and then combined with the plain text for encryption or with the cipher text for decryption by an 'Exclusive OR' (XOR) addition.

First described by Frank Miller in 1882, was re-invented in 1917. This method was used by special operation teams and resistance groups during Second World War and is also popular with intelligence agencies. Intelligence agencies use one time pads to communicate with their agents in the fields, where security is the top most priority, example, Tapir procedure used by the East Germany intelligence agency.

One time tapes were widely used to secure telex communication until the 1980's. A famous example is Washington/Moscow hotline with the ETCRRM II, which provided absolute security and unbreakable communications with disclosing any secret. Some other cipher machines that used the same principle are Telekrypton, Rockex, Sigsaly.

One time pads are information theoretically secure in that the encrypted message provides no information about the original message to a cryptanalyst, except the maximum possible length of the message. Without knowing the applied OTP, the eavesdropper has no way of finding out which meaningful string is the original plain text. Thus, trying all possible keys doesn't help the attacker at all, since all possible plain texts are equally likely decryptions of the cipher text.

The random noise source derives its random bits by sampling a set of parallel ring oscillators, a reliable technology for obtaining truly random bits. This technique uses timing jitter and oscillator drift found in free running CMOS ring oscillators as a source of randomness. Timing jitter is a random phenomenon caused by the thermal noise and local voltage variations present at each transistor of a ring oscillator.

Local variations in voltage and temperature will cause each ring to oscillate faster (or slower) over time resulting in a random drift relative to the other rings. As the frequency of each oscillator randomly drifts with each cycle, the output stream becomes random relative to the lower frequency sampling rate.

One time pad system is an absolute secrecy system unmatched by today's modern crypto algorithms and provides real long term message secrecy. It is easy to learn to work with one-time pads. The system is transparent and one does not need any special equipment or any knowledge about cryptographic technique. Also, it is possible to integrate various other security techniques to strengthen the system.

Amit Kumar Singh
III Year, EC

DISSOLVABLE ELECTRONIC DEVICE:
New wave of the future

Imagine a world where an electronic device disappears after it's no longer needed. Though not a reality yet, this scenario isn't too far off!

The transient electronics are in experimental stages. These new electronics could be used for a range of devices, from cell phones to medical devices injected to relieve pain or fight an infection, or producing products with a pre-engineered service life. Devices are expected to perform as they do in conventional electronics and function normally until the encapsulating layer disappears. After use, the chips disintegrate or dissolve in the bloodstream or the tissue in case of medical use.

Transient electronics could monitor and prevent infection at surgical sites, then reabsorb into the body on a predetermined schedule. The biggest benefit is that there is no need for an additional extraction surgery.

They could also be used as environmental sensors, monitoring an oil spill or chemical contamination site, for instance, and then dissolving once the disaster is cleaned up; saving recovery teams the ordeal of collection. They could also be used to produce water quality sensors to monitor the quality of water resources like rivers.

Transient electronics would also be valuable to the military, enabling devices carrying them to collect sensitive information, then disappearing. Not only the transient devices dissolve into the environment, they are also harmless when they do.

The new wave electronics can also be made to operate without an external electricity source just by using zinc oxide which is piezoelectric. They can also be built with temperature sensors, solar cells and digital cameras.

Magic behind these biodegradable devices lie in their ingredients. Most ingredients in this device are similar to those listed on a bottle of daily vitamins. The circuits are made of silicon, magnesium, and other biocompatible metals which are layered thinly enough to dissolve within few days or weeks. Scientists started with a film of purified silk, which is bendable and extremely soluble in water. For making electrodes that serve as sensors, instead of aluminum or copper, magnesium, a nontoxic metal that is highly conductive and dissolves in water, was used. Silicon layers, just 50 nanometers thick, were used for transistors and diodes, enabling the components to dissolve in a couple of weeks. Finally, the entire device was coated in magnesium oxide, which is a nontoxic compound, often given as an antacid and that works as an insulator in electronics. The thicker the layer of magnesium oxide, the longer it takes for water to get through, and so the more slowly the device dissolves. Testing the devices in a solution with a pH and temperature similar to that of the human body, it was found that depending on the thickness of the coating, the devices worked for as little as 40 minutes or as long as five days and disappeared entirely within two weeks. That range could make the devices suitable for applications as diverse as postoperative antibacterial and extended medical monitoring.
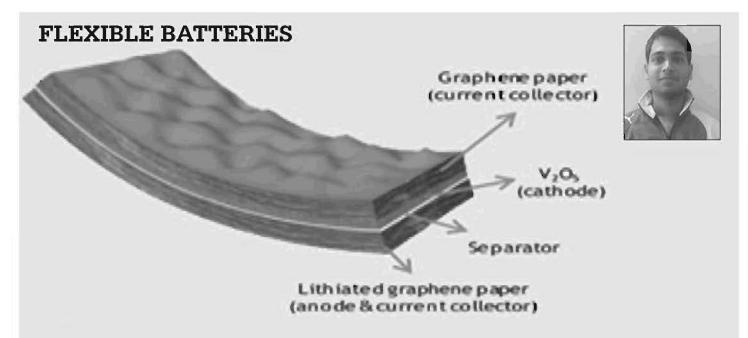
So far, researchers have developed several dissolvable devices like diodes, wireless power coils, temperature and strain sensors, photodetectors and 64 pixels digital camera. In one application, they even devised a transient, flexible film to kill bacteria using electricity instead of drugs. The device's electricity kills pathogens with heat, or thermal sterilization. In a recent test, the device successfully killed microbes both in a petridish and when implanted under the skin of a rat; it lasted about two weeks, the amount of time surgery patients are most at risk for post-operative infections. Thus, this transient dissolvable electronic device is of great use in the field of science and medicine. It can prove to be a boon for the society.

So if you lose a cellphone, you won't have to worry about the data being picked up. With remotely-triggered transience, it'd just dissolve away!

Rashi Jain
1 Year, CSE

FLEXIBLE BATTERIES

Graphene paper
(current collector)

V_2O_5
(cathode)

Separator

Lithiated graphene paper
(anode & current collector)

We've been talking about flexible devices for years. Imagine a world full with flexible electronic devices. Imagine treating your phone like a piece of paper. Roll it up! Drop it! Squish it in your backpack! Step on it-without any damage!

NJIT researchers have presented a solution to bendable energy sources that is not only more powerful than standard lithium-ion batteries, but also potentially cheaper to produce using the wonder material, grapheme.

The rechargeable battery contains a vanadium-oxide cathode, grown on a sheet of graphene paper, an unidentified separator, and an anode made of lithium-coated graphene.

The base of the battery is a flexible plastic and the carbon nanotubes and other nanoparticles are the other active components of the battery. This flexible lithium-ion battery was developed by LG Chem. Studies reveal that it has higher energy and power density, as well as a better cycle life.

Coating copper wires with nickel-tin and coiling them briefly around a rod results in a hollow anode that acts like a strong spring. Joining the anode with a lithium-ion cell forms a battery that works even when it's twisted up in knots.

It is still an initial stage in the development of flexible batteries and a lot more has to be done to improve flexible batteries as parasitic chemical reactions and mechanical breakdown hampers its performance. But the advent of a high performance flexible thin film battery will accelerate the development of next generation fully flexible electronic systems in combination with existing flexible components like display memory, interactive user interfaces and LED.

Nikhil Kumar
III Year, EC

ENGINEERING:
A Scientific Tool in the Field of Technology

Engineering has given a lot of contribution in field of technology from a long time. Engineering is behind everything from mobile phones and make-up to the car you travel in and the shoes on your feet.

Engineers use the knowledge they have in a specific field to make things work and to solve problems. Engineers exist in all walks of life: transport, medicine, entertainment, space exploration, environmental management. Name it, engineers have worked on it. Engineering has generated many scientific tools to make life easier, faster, and easy to spread information in wider range within a fraction of second. Automobiles, social media, health technology, highways are the some of greatest inventions of Engineering.

Social media is a phrase being tossed around a lot these days. It is designed to communicate and spread information through social interaction. Social media runs on a two way street that gives you the ability to communicate too. For example, some internet websites not only gives you the information but also interacts with you in the form of asking for comments or voting on a particular article. Just opposite is the case of a regular media where you can read a newspaper or listen to a report on television and there you have a very limited scope to share your thoughts on that particular matter. Its beginning was followed by the development of the technology. From July 2006, the term social media rose steadily. These kinds of media are not published by the reporters, editors or other media organizations. It's published by everyone in the world.
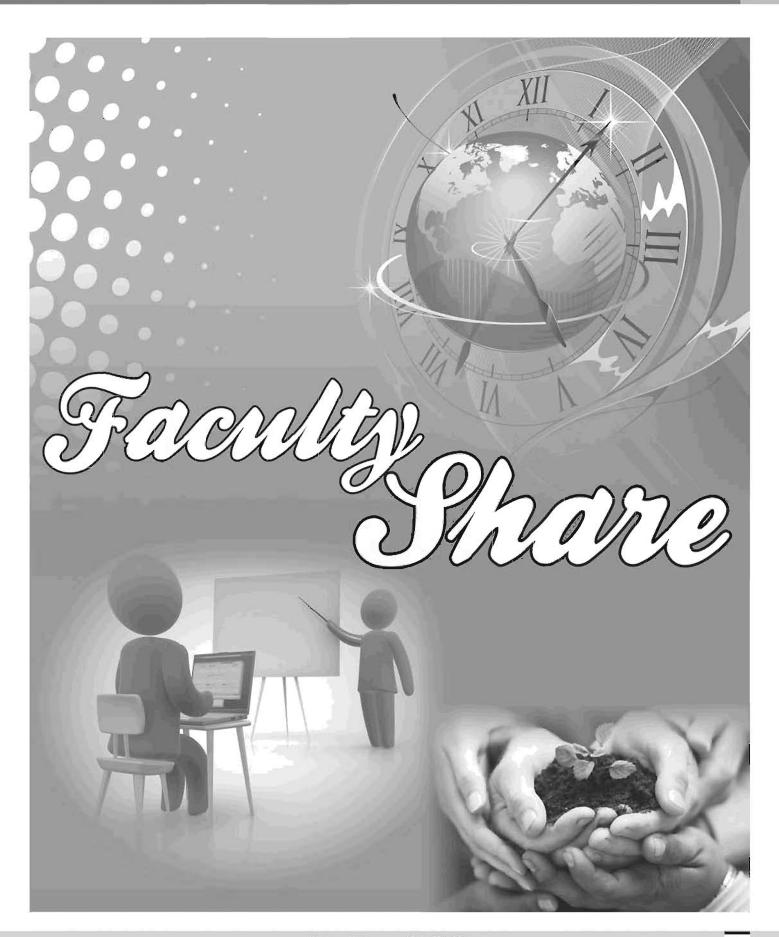
The invention of automobiles was not done in a single day or by a single inventor. The history of the automobile reflects an evolution that took place worldwide. It is estimated that over 100,000 patents created the modern automobiles. The history of automobile production is marked by technological innovation and inventions that have been applied and adapted throughout the manufacturing and service sectors of the world economy.

A reliable network of roads, bridges, and tunnels is fundamental need of any country's economic and social well-being. Some of greatest examples of engineering in this area are yellow traffic lights, numbering system for interstate highways, bridges which are connecting many cities from one end to another.

For most of the 19th century, doctors cared for their patients much as they had in prior eras. Most medical tools fit easily into the doctor's little black bag, and diagnoses were based more on instinct than on science. But then in 1895, German physicist Wilhelm C. Roentgen accidentally discovered a form of electromagnetic radiation that could pass through the body and leave an image of the bones or organs on a photographic plate. The birth of the X-ray ignited a spark in the field of medical science leading to further discoveries like electrocardiograph, CAT scan, MRI, development of artificial and transplanted organs and joints and myriad. These advancements and the discovery of antibiotics and other life-saving drugs contributed to increasing the life span of people throughout the world.

It is rightly said that, A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few original ideas as possible.

Tarun Banthia
I Year, ECE

Faculty Share

A CENTURY OF ISOTOPES

Past one hundred years has brought the incredible field of nuclear chemistry into all of our lives. Have you ever wondered how we know the age of dinosaur bones? Have you ever had an x-ray to look for a broken bone or a cavity? All of these beneficial applications are due to scientific research, discovery and development of nuclear chemistry.

But there is also a darker side of this nuclear chemistry that had brought great disasters to the society in the form of Three Mile Island and Chernobyl leaving many questions on the continued use of this energy. Whenever newspapers use the word isotope, they mean trouble. Radioactive isotopes leach inexorably from the shattered nuclear reactors at Fukushima in Japan to the whirring centrifuges in Iran, enriching Uranium235 with the fear ending up in nuclear weapons to the claims of poisoning former Palestinian leader Yasser Arafat by a dose of Polonium 210, the same isotope that killed KGB agent Alexander Litvinenko.

Isotopes were introduced to the world in a letter to the journal Nature; on December 04, 1913 i.e. the year 2013 celebrates the century of isotopes. Let's move back to 1913, when the existence of isotopes was first suggested by the chemist Frederick Soddy, based on the studies of radioactive decay chains that indicated about 40 different species described as radioelements. He did much of his work on the products of radioactive decay. By the early 1900s, he and other scientists had learned that radioactive substances such as radium and thorium transmuted into other elements as they decayed. But some of these new substances proved impossible to separate, even though they clearly had different half-lives. Soddy realized that they were variants of the same elements; chemically identical but with different nuclei. Margaret Todd, a local physician and friend, suggested him the name, isotopes, because they occupied the 'same place' in the periodic table. Almost 20 years passed before James Chadwick actually discovered the neutrons that differentiate the nuclei of isotopes.

Soddy was hopeful that radioactive isotopes might be tapped as a source of energy. But the First World War made him pessimistic. He died in 1956, disillusioned that radioisotopes had been used to kill on an atrocious scale, without fulfilling their promise in peaceful applications.

Soddy's discovery made many benefits to the other areas of science like isotopic substitution is now commonly used for chemical reactions, use of radiometric dating in geology. Nuclear medicine also began to blossom in the 1950s in the form of medical isotopes such as Technetium 99m and Thallium 201 illuminating the working of our internal organs with their gamma rays, while positrons from Fluorine18 enable Positron Emission Tomography. Since 1970s, Americium 241 had emerged as a life saver in smoke detectors. There are now more than 400 nuclear power stations around the world, meeting about 11% of global electricity demand.

Isotopes will undoubtedly find more uses over the coming years. Although the periodic table now boasts 118 elements, there are around 3300 known nuclides. Still there is a lot more to come.

Dr. Gautam Singh
Chief Proctor, PIET

Success is a science; if you have the conditions, you get the result--Oscar Wilde

ADVANCEMENTS IN URBAN GROWTH MONITORING

As the technological revolution expands, the world's population increases and environmental concerns mount, civil engineering skills are needed throughout the world. Whatever area one chooses, i.e. design, construction, research, planning, teaching or management, civil engineering offers a wide range of career choices. And there is no limit to the personal satisfaction one will derive from helping to make the world a better place to live. Civil engineering technologists function as part of the engineering team and perform duties that focus on measurement and analysis, design, supervision of field, installations and quality control. Civil Engineering technicians perform similar work that is less complex but highly specialized. Civil Engineers play very significant role as they build the quality of our life. With creativity and technical skill, civil engineers plan, design, construct and operate the facilities essential for modern life, ranging from bridges and highway systems to water treatment plants and energy- efficient buildings. Civil Engineers are problem solvers, meeting the challenges of pollution, traffic congestion, drinking water and energy needs, urban redevelopment and community planning.

Today engineers must continue their education long after their bachelor's degree. Whether through continuing education and professional development programs or master's degree programs, engineer will need to increase their knowledge base to face growing challenges. In addition, more and more employers are encouraging employees to earn higher degrees and become licensed professional engineers. More and more, those entering the civil engineering field are normally required to have skills in communication, computers, management and foreign languages, as well as advanced knowledge in a specialty within the branch. Students increasingly need to have knowledge of foreign languages or cultures because many civil engineering mega projects are now overseas. Due to rapidly changing technology in this field, people in these occupations are desired to plan on periods of retraining and professional development. New entrants with cooperative experience and highly developed computer expertise are likely to enjoy the best employment opportunities.

Beyond the cycle of design and construction, there is software designed for planning, maintaining and operation building, transportation systems, and many other forms of civil engineering works. Web- based servers for engineering over the internet, object technology for CAD systems and information databases, new standards, and multimedia technology are all emerging as trends that will increasingly impact the way civil engineers work and interact with others. Trends represent vision, and exist for those with the ability to see beyond the computer screen and the elaborate and complex construction of customized applications to the freedom that current technology offers. Civil Engineering, which belong to oldest discipline of our civilization have evergreen scope for popularity among masses.
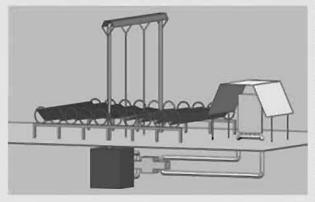
Dr. Ankita Dadhich
Professor
Department of Civil, PIET

ELECTRICITY GENERATION ON THE MOON AT NIGHT

Electricity is one of those discoveries that have changed the daily life of everybody on the planet. It is the basis of most modern inventions and without it; the 21st century would be comparable to 19th. As long as the electricity is available, no one thinks about it. The importance is realized when the power cut-off occurs.

With tremendous growth of science and technology, humanity is now trying to expand its colonization to earth like planets especially moon and as a modern man cannot survive, even for a fraction of second in discomfort or without latest gadgets or modern amenities that usually run on electric power. So the scientists have developed a system for producing electricity on the planet like moon. It is a system of mirrors, processed lunar soil and a heat engine to provide energy to vehicles and crew during the lunar night, which lasts approximately 14 days and the temperature drops down to as low as -150 °C making the vehicle movement and equipment functioning on the lunar surface difficult.

Researchers had developed two possible options for storing energy on the moon during the daytime which could be utilize at night. The first method consists of fragments of regolith or lunar soil, comprising of elements like aluminium, forming a thermal mass. When the sun's rays hit the surface, mirrors reflects the light to heat the thermal mass, which can transmit heat during lunar equipments at night.

Another option consists of a series of mirrors, i.e., Fresnel reflectors, and a heat engine. Fresnel reflectors concentrate solar rays upon a fluid-filled tube and the heat converts the liquid into a gas, heating the thermal mass. During the long lunar night, the heat is transferred to a stirling engine to produce electricity.

This system is comparatively better than the previous model serving greater energy needs. It would also preclude the need of batteries and other nuclear power sources.

Mr. Simranjeet Singh Sudan
Proctor, PIET

ROLE OF ENGINEERS IN NATION BUILDING

The word "Engineer" has many synonyms like creator, builder, developer, architect because it is he, who imagine the future and make it happen. The work of engineers forms the links between scientific discoveries and their subsequent applications to improve the quality of human life by fulfilling all their needs. The mind of an engineer is that versatile mind which creates links between science, technology and society. They are one of the most important assets of a nation.

Engineering has now become one of the most sought- after profession in the society. Back in industrial revolution, the introduction of technologies, transportation and manufacturing had a deep impact on the social, economic and cultural conditions of times. Inventors defined the wealth of a nation while engineers played a role in building and upholding a nation, and together both, pushing the world forward.

In this technological age, the power of the engineers in shaping the society and the environment is all pervading and profoundly affects the lives of many members of the society. Engineers are virtually builders of the country and they should play their role in overcoming the prevalent crisis and pave way for a strong, stable and prosperous society.

As engineering rose to a distinct profession after the industrial revolution, engineers see themselves as either independent professional practitioners or technical employees of large enterprise. At that era, ethics was of personal

concern rather than professional. It is nice to know that a group of talented engineers from national institutes of technology like, IITs' have got together with the objective of repairing the damages that has been done to the fabrics of our politics. Apparently, they have chucked lucrative jobs and, with an eye on social service, have embarked upon this noble mission. An example has been set by Mr. Arvind Kejriwal, CM of Delhi, the nation's capital, who defeated the so called strong iron pillars of well known national political parties.

Today, we only have politicians and not leaders who can take the world in their stride, anymore. Since, politics has become a full time occupation, politicians are growing more powerful and disjointed from the common people.

My best wishes to fearless group of young Engineers who have embarked on a dangerous mission of joining politics and decided to build the nation.

Mr. Deepak Moud
HOD
Department of CS, PIET

INVISIBILITY CLOAK: A REALITY

Remember the famous Indian movie "Mr. India" where the lead used invisibility bracelet to fight for the rights of common people. Invisibility is often used in fantasy or science fiction, where objects are literally made unseeable by magical or technological means. J.K. Rowling may not have realized just how close Harry Potter's invisibility cloak was to, becoming a reality when she introduced it in the first book of her best-selling fictional series in 1998. Scientists, however, have made huge strides in the past few years in the rapidly developing field of cloaking.

A paper published in the March 2009 issue of SIAM Review presents an overview of the theoretical developments in cloaking from a mathematical perspective. One method involves light waves bending around a region or object and emerging on the other side as if the waves had passed through empty space, creating an "invisible" region which is cloaked. For this to happen, however, the object or region has to be concealed using a cloaking device, which must be undetectable to electromagnetic waves. Invisibility cloaks rely on man made metamaterials, which can bend electromagnetic radiations, such as light, around an object, giving the appearance that it isn't there at all. An invisibility cloak, made from retro reflective material, enables optical camouflage to work. A retro reflective material is covered with thousands and thousands of small beads. When light strikes one of these beads, the light rays bounce back exactly in the same direction from which they come.

Mathematics is essential in designing the parameters needed to create metamaterials which ensures invisibility. But there are still some loopholes in the mathematical model of cloaking.

Some possible applications for cloaking via electromagnetic wormholes include the creation of invisible fiber optic cables, in security devices and scopes for MRI-assisted medical procedures for which metal tools would otherwise interfere with the magnetic resonance images. The invisible optical fibers could even make three-dimensional television screens possible in the near future. The effectiveness and implementation of cloaking devices in practice, however, are dependent on future developments in the design, investigation, and production of metamaterials.

Admit it. You'd love to own an invisibility cloak in your wardrobe. But the "muggle" world will have to wait on further to bring the concept of invisibility cloak to a reality.

Mr. Anil Boyal
HOD
Department of EE, PIET

WEARABLE TECHNOLOGY: The future is unlimited

Move aside fashionable accessories, wearable technology is here now! Forget about giant tellies or bendable smart phone. Of all the trends in fashion, wearable technology stands out. The term refers to gadgets and devices worn on by the person rather than tucked into a pocket, wallet or handbag. As the devices are worn on the body, innovations in this space are known as 'wearable's, and they are a key driving force behind the Internet of Things (IoT). Wearables include smartwatches, fitness devices, sports accessories and other advanced electronic technologies. Imagine a device the size of a band aid that is capable of collecting your biological data and connecting with your smartphone to alert you when you require medical attention, a GPS device embedded in your pet's collar to help you locate it, if it goes missing! Even the fusion of fashion and technology has given a new line of Bluetooth smart jewellary in the form of pendant style necklaces that can connect to other mobile devices so that the user can customize the color and brightness according to their own choice. While this might seem far-fetched and futuristic but innovators around the globe are working hard to achieve the dream.

Wearable's revolution first started with fitness devices, watches and wirelessly-enabled sports shoes, but has since morphed into health and location monitors and activity trackers. A company, Dairy master, in the United States, markets a number of smart products for farmers, including a cloud-based Moo Monitor that determines a cow's readiness for pregnancy. Fit Bit and Nike Fuel band are two activity trackers worn on the wrist that allow a person to monitor their own physical activity in real time. In India, budding companies such as Diabeto are working towards monitoring and managing our health. Analysts predict that roughly 100 million wearable devices will have been sold by 2014 and in the coming 4-5 years, it will cross 485 millions.

Wireless technologies like Wi-Fi, Bluetooth Smart, Near Field Communications (NFC), GPS, etc. have helped a lot in the development of IoT applications and wearable devices. Enhancement in size, heat dissipation, and battery requirements has made better and smaller devices possible. Ongoing innovation in process and power consumption will further enable manufacturers to introduce IoT products and wearable with more functionality and mass appeal. Bluetooth Smart (Bluetooth Low Energy) enables devices to consume energy at very low rates and can run for months, or even years, on just a single coin-cell battery. Apple makes the use of Bluetooth Smart and its impact on the wireless industry. Nearly all of its devices now serve as Bluetooth Smart ready hubs, allowing them to connect easily to Bluetooth Smart-enabled sensor devices. Microsoft, BlackBerry, Google (Android) and Samsung are also in line for launching their series of wearables.

This remarkable technology can seamlessly sync a wireless smart phone or tablet to a vehicle's audio and display system for communication with pedestrians, other vehicles and even road infrastructure. It also has the potential to connect wearable technology and medical sensors on the body to the vehicle. Google is currently testing driverless cars that can talk to traffic signals and other vehicles on the road. The day is not far when the emergency vehicles may even be fitted with sensors allowing them to change traffic signals to 'green' for easier passage in times of need.

When it comes to the IoT and wearable technology, the possibilities are too numerous to count. Their only limitation is our imagination.

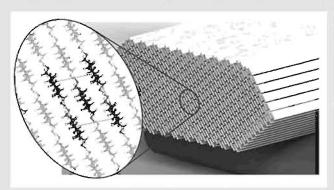**Ms. Pooja Sharma**
HOD
Department of IT, PIET

CELLULOSE: A Green Wonder Material

Cellulose, the main component of plant cell walls, and the basic building block for many textiles and for paper, is a long chain of linked sugar molecules that gives wood its remarkable strength. It may be hard to believe that the cellulose crystals that give trees and plants their high strength, light weight and resilience, also have been shown to have the stiffness of steel, i.e. 206 giga pascals.

Cellulose crystals can be used for strengthening construction materials, automotive components. It is abundant and renewable and produced as a waste in the paper industry. The property of these tiny crystals was studied experimentally for the first time by quantum mechanics.

The cellulose nano crystals are about 3 nanometers wide by 500 nanometers long -- or about 1/1,000th the width of a grain of sand -- making them too small to study with light microscopes and difficult to measure with laboratory instruments. Studies establish a milestone in understanding the fundamental mechanical behavior of the cellulose nanocrystals. The cellulose nanocrystals represent a potential green alternative to carbon nanotubes for reinforcing materials such as polymers and concrete. Applications of this green wonder material include biodegradable plastic bags, textiles and wound dressings; flexible batteries made from electrically conductive paper; new drug-delivery technologies; transparent flexible displays for electronic devices; special filters for water purification, new types of sensors and computer memory.

Ms. Mahima Kapoor
Dy. HOD
Department of I Year, PIET

FASTEST WIRELESS TECHNOLOGY

Radio waves, a form of electromagnetic waves, travels at the speed of light, make the world go around. Even the internet you access without wires is possible only through radio waves. Radio traffic can flow in only one direction at a time on a specific frequency, hence the frequent use of "over" by pilots and air traffic controllers, walkie-talkie users and emergency personnel as they take turns speaking. But now, Stanford researchers have developed the first wireless radios that can send and receive signals at the same time. This immediately makes them twice as fast as existing technology, and is likely lead to even faster and more efficient networks in the future. The new system completely reworks our assumptions about how wireless networks can be designed. Cell phone networks allow users to talk and listen simultaneously, but they use a work-around that is expensive and requires careful planning, making the technique less feasible for other wireless networks, including Wi-Fi. The main roadblock to two-way simultaneous conversation was the overwhelming of incoming signals by the radio's own transmissions, making it impossible to talk and listen at the same time. When a radio is transmitting, its own transmission is billions of times stronger. According to the researchers, if a radio receiver could filter out the signal from its own transmitter, weak incoming signals could be heard. It is based on the fact that each radio knows exactly what it's transmitting, and hence what its

receiver should filter out. The process is analogous to noise-cancelling headphones. Researchers had demonstrated the device at MobiCom 2010. The most obvious effect of sending and receiving signals simultaneously is that it instantly doubles the amount of information you can send which means much-improved connectivity. Current system has many pitfalls as two aircrafts could not contact at the same frequency at same time leading to aircraft collisions and the researchers are trying to increase both the strength of the transmissions and the distances over which they work, with the new system.

Once hardware and software are built to take advantage of simultaneous two-way transmission, there's no predicting the scope of the results.
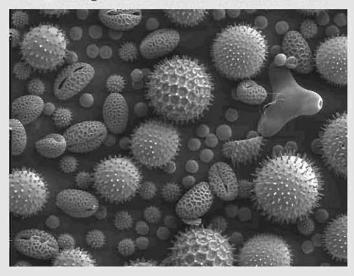
Mr. Sachin Chauhan
HOD
Department of EC, PIET

MAGNETIC POLLEN GRAINS

Pollen goes unnoticed by most of us. Let us first have a brief look about what is pollen? Pollen grains are outrageous invention of the seed plants, which first appeared over 300 million years ago. It is produced in the male organs of the flowers i.e. anthers. The transfer of pollen grains to the female reproductive structure, i.e. pistil, is called pollination.

This natural process had now gained scientific attention. A team of researchers in US have converted grains of spiky sunflower pollen into magnetic particles that are capable of sticking to the surfaces with both magnetic and van der Waals interactions.

A team of Research Scholars at Georgia Institute of Technology, US, coated the pollen grains with several layers of iron oxide by reacting an iron (III) isopropoxide precursor with the sporopollenin outer coating of the pollen. The coated grains were then heated up to a temperature range of 600°C to burn off the original pollen template, and used additional thermal treatments to convert the iron oxide from haematite (Fe_2O_3) to magnetite (Fe_3O_4). The replica particles are identical in shape to the original pollen grains, which allow them to stick to surfaces like polystyrene using van der Waals forces. Due to their magnetic nature, they are also capable of getting attached to metallic surfaces like nickel.

Studies reveal that by converting pollen into iron oxide replicas could pave way to manufacture adhesive microparticles, to be used for drug delivery, catalysis and sensing.

Ms. Anurika Mehta
Assistant Professor
Department of I Year, PIET

DIGITAL WATERMARKING

Think of a multimedia data that is being distributed over the internet. Someone downloads it, claims it that he has the copyright, and sells it. In these kinds of situations, digital watermarking techniques can be used for establishing ownership rights, ensuring authorized access, preventing illegal reapplication and facilitating content authentication.

More information is transmitted in a digital format now than ever, and the growth in this trend doesn't seem to cease in the foreseeable future. With this increasing demand, need of digital watermarking has also increased. Like a coin has two sides, this advancement also has two flips. Having improved storage, transfer and processing of digitized data while on the other hand suffering from serious issues like duplication and exploitation of digital contents enabling rapid and error-free movement of any unauthorized digitized data. It has, in a way, increased the security concerns over copy-right protection of digitized multimedia data.

How to Design a Good Digital Watermark?

Information Technologies for IPR Protection

Digital watermarking technique makes use of the fact that the human eye has only a limited ability to observe differences. Minor modifications in the colour values of an image are subconsciously corrected by the eye, so that the observer does not notice any difference. The purpose of digital watermarks is to provide copyright protection for the data in digital format. It works by hiding information within digital data, such that it is not detectable without the use of specially designed software. Thus, making sure that the concealed data is present in all copies of the data that are made.

Digital watermarking has emerged as a promising tool for protection of the multimedia data from copyright violation. It is a way for embedding watermark with predefined property rights into images, audios, videos etc implemented by different algorithms. This watermark scheme contains the ownership and the user information, which could be any image as the owner's logo, any serial number for verification or something else as control information.
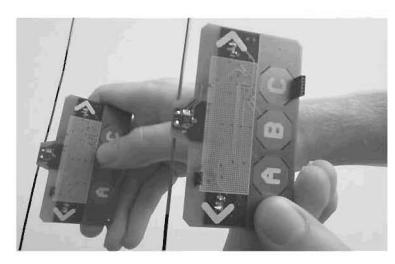
Digital Watermarking is very common in our everyday lives. The main use of watermarking is to provide a level of certainty about the authenticity and or ownership of a document. Just have a look at the currency note, say, a thousand rupee note or a five hundred rupee note, you can very easily distinguish between a fake currency which is either without such watermark or having a watermark with some distortion. Similarly, government documents, stamps, passport and many other such documents can be verified with the original watermark.

Classification of watermarking techniques depends upon nature of data as text, image, audio or video, working domain (spatial or frequency) domain and human perception (robust or fragile). Like for images, we can classify watermarking into three ways, viz, visible watermarking, invisible fragile watermarking and invisible robust watermarking. These all can be implemented using hardware or software or both.

If the problems associated with this useful technique are resolved, it would surely become a viable option for secure transmission and copy protection of the confidential and important data.

Mr. Manish Bhardwaj
Assistant Professor
Department of CS, PIET

BATTERY FREE WIRELESS DEVICES

The modern world as we know, it wouldn't exist were it not for batteries and the unique, utterly essential ability to store electrical energy that they provide. This humble and surprisingly ancient technology has done far more for human civilization than most people realize.

Now just for a minute, think about the devices going battery less. Is it possible? Yes, of course! Rapid advancement of technology has made everything possible in this world. Just dream it and it's there.

Engineers have now made possible the communication between two battery free devices. A new "Ambient Backscatter" wireless communication technology has been devised by the scientists that allow communication between two devices by reflecting ambient TV and cellular transmissions. It's hopefully going to have applications in a number of areas including wearable computing, smart-homes and self-sustaining sensor networks. This device forms a network out of thin air. Signals can be reflected to create a Morse code of communication between battery-free devices. Smart sensors could be built and placed permanently inside, then set to communicate with each other. For example, sensors placed in a bridge could monitor the health of the concrete and steel, then send an alert if one of the sensors picks up a hairline crack. The technology can also be used for communication – text messages and emails, for example – in wearable devices. Researchers tested ambient backscatter technique with credit card-sized prototype devices placed within several feet of each other. For each device, antennas were built into ordinary circuit boards that flash an LED light on receiving a communication signal from another device.

Further testing in a variety of settings in the Seattle area, inside an apartment, on a street corner and on the top level of a parking garage with locations ranging from less than half a mile away from a TV tower to about 6.5 miles away gave exciting results, showing that the devices were able to communicate, even the ones farthest from a TV tower. Receiving devices were able to pick up signal from their transmitting counterparts at a rate of 1 kilobit per second when up to 2.5 feet apart outdoors and 1.5 feet apart indoors, which is enough to send information such as a sensor reading, text messages and contact information.

It is also feasible to build this technology into devices that do rely on batteries, such as smart phones. It could be configured so that when the battery dies, the phone could still send text messages by leveraging power from an ambient TV signal.

Applications are endless and the efforts of the scientists are also endless as they plan to continue advancing the capacity and range of the ambient backscatter communication network.

<div align="right">

Mr. Ankur Saharia
Assistant Professor
Department of EC, PIET

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SQL INJECTION

Human beings are very good creators and Internet is one such greatest creation. Internet is rapidly becoming a repository of information but with this, security threats have also become a growing concern for the data on the websites. SQL Injection is one such weapon, which is most commonly used by hackers for attacking the websites or sending malicious commands to the database by sneaking through unauthorized channels.

SQLI is a technique in which malicious SQL statements are supplied into a web form fields, in web applications, with an intention to hack into the database and dump the database contents to the attacker. The attacker influences the queries passed to the database. An SQL Injection attack can even give access to your sensitive information like passwords or social security numbers, credit card number or other financial data. Even a small change in a URL will allow the user to log in into the database without knowing the actual username and password and access all the data as per the need.

SQL Injection attacks can be made in many ways like tautologies, illegal/logically incorrect queries, union query, piggy-backed query, stored procedure and alternative encodings.

Tautologies inject code in conditional statements so that they are always evaluated as true. Wherein the attacker either bypass an authentication or insert injectable parameters or extract data from the database of which one may not even be aware. Illegal or logically incorrect queries aim to gather the information about the back end database of the web application and this type of attack is considered as the basis step for all the other techniques. Union query focuses to trick the database to return the results from a table different to the one intended. Here the attacker exploits the vulnerable parameter to change the data set returned for a given query. Piggy-backed query is done when the attacker wishes to execute remote command or add or modify data. A stored procedure performs privilege escalation and tries to execute the SQL procedures. In alternate encodings, the injected text is modified to avoid detection by defensive coding practices and also many programmed prevention techniques. These are only a few techniques which makes cyber criminals capable of attacking your system.

Instead of living in fear, why not, we try to protect our system, acquiring a better understanding of SQLI!

Mr. Amitesh Kumar
Assistant Professor
Department of CS, PIET

Life isn't about finding yourself. Life is about creating yourself--George Bernard Shaw
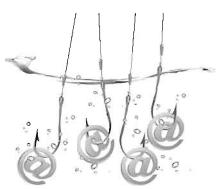
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PHISHING : *Internet surfers better watch out!*

The number of fake website links that could extract your bank account details, your personal information or your password seems to be on a rise. This game is named Phishing, a form of internet fraud, and hence, an illegal practice.

It is a fraudulent attempt to acquire information such as usernames, passwords, credit card details and other useful information by masquerading as a trustworthy entity in an electronic communication. Communications that purport to be from popular social web sites, auction sites, online payment processors or IT administrators are commonly used to lure the unsuspecting public.

Phishing is typically carried out by e-mail spoofing and it often directs the users to enter their extremely useful details at a fake website whose look and feel are almost identical to the legitimate one. The act of sending an e-mail to a user falsely claiming to be an established legitimate enterprise is an attempt to scam the user into surrendering private information that will be used for identity theft. The e-mail directs the user to visit a website where they are asked to update personal information, such as passwords and credit card, social security and bank account numbers. Networking sites are becoming a new face of phishing now-a-days.

According to the data, India is the 5th most targeted country for such attacks facing over 12, 00 phishing attacks every month. Worldwide the hackers are using this method to make a quick buck.

Cyber criminals can attack by installing malicious software on the victim's computer or stealing personal information from the computer. They can also use social-engineering to convince one to install malicious software or hand over the personal information under false pretenses, can also fool someone by e-mail or calls.

There is a need to create awareness among the people to deal with the growing attempts of phishing. Phishing messages can be recognized easily because of their spelling and bad grammar as professional companies or organizations has a staff of copy editors that do not allow a mass email and also proof-read any email or article before sending it to the users. Even the links in the suspicious email message should be taken care of. Links might lead to .exe files, known to spread malicious software.

Cyber criminals often use threats regarding the bank accounts, where even a minute mistake can compromise one's security. Scam artists often use graphics in email that appear to be connected to legitimate websites or entities but actually divert the user to phony scam sites or legitimate-looking pop-up windows.

Very well said, "An ounce of prevention is worth more than a million pounds of cure". To protect oneself from becoming a victim of phishing, certain precautions while surfing net should be used like using digitally-signed documents, use of dedicated systems for payment requests and approval processes using tools available in email client, use of anti-virus and anti-malware software including regular updates and scans. Microsoft Office Outlook has the ability to help filter potentially harmful links. Not responding to suspicious emails, not clicking on the links or entering confidential details through links provided in emails. Always verifying the address of the website as a secure website always starts with "https".

So the next time you get an alert showing a spoofed copy of g-mail login page with a message claiming, "Congratulations! You won $500!" make sure that where this URL leads you to is authentic. There's a possibility that you may end up giving your confidential information to a phishing website.

Always remember "To keep every cog and wheel is the first precaution of intelligent tinkering."

Ms. Sumitra Singar
Assistant Professor
Department of EC, PIET

INVENTION OF ZERO

Counting is an essential part of our life. Our day begins with counting and ends with counting. We count the number of apples we eat and liters of milk we buy. We count the money to buy a chocolate and kilometers we need to travel to reach the city. Human beings are well aware of the concept of nothing or having nothing and the invention of zero took place in the fifth century A.D. Before then, the mathematicians struggled to perform even the simplest arithmetic calculations. But the introduction of the concept of zero - both as a symbol or numeral and a concept meaning the absence of any quantity, allowed to perform calculus, do complicated equations, and numerous other tasks. Zero was invented independently by the Babylonians, Mayans and Indians. The Babylonians got their number system from the Sumerians, the first people in the world to develop a counting system. In the Sumerian system, the value of a symbol depended on its position relative to other symbols. Robert Kaplan in his "The Nothing That Is: A Natural History of Zero" suggested that an ancestor to the placeholder zero may have been a pair of angled wedges used to represent an empty number column. It was later proved by the Babylonians that a symbol appeared that was clearly a placeholder, a way to tell 10 from 100 or to signify that in the number 2,025, there is no number in the hundreds column.

The concept of zero first appeared in India around A.D. 458. Mathematical equations were spelled out or spoken in poetry or chants rather than symbols. Different words symbolized zero, or nothing, such as "void," "sky" or "space." In 628 A.D., Brahmagupta, an Indian Mathematician developed a symbol for zero, i.e. a dot underneath numbers. He also developed mathematical operations using zero, wrote rules for reaching zero through addition and subtraction, and the results of using zero in equations. This was the first time in the world that zero was recognized as a number of its own, as both an idea and a symbol. According to French mathematician Georges Ifrah the knowledge of zero was implicit in Aryabhata's place-value system as a place holder for the powers of ten with null coefficients. However, Aryabhata did not use the Brahmi numerals as he traditionally used letters of the alphabet to denote numbers, expressing quantities, such as the table of sines in a mnemonic.

Brahmasputha Siddhanta (The Opening of the Universe) written in 628 AD by Brahmagupta revealed the following rules for the use of zero:

- The sum of zero and a negative number is negative.
- The sum of zero and a positive number is positive.
- The sum of zero and zero is zero.
- The sum of a positive and a negative is their difference; or, if their absolute values are equal, zero.
- A positive or negative number when divided by zero is a fraction with the zero as denominator.
- Zero divided by a negative or positive number is either zero or is expressed as a fraction with zero as numerator and the finite quantity as denominator.
- Zero divided by zero is zero.

In saying zero divided by zero is zero, Brahmagupta differs from the modern position. Mathematicians normally do not assign a value to this, whereas computers and calculators sometimes assign NaN, which means "not a number." Moreover, non-zero positive or negative numbers when divided by zero are either assigned no value, or a value of unsigned infinity, positive infinity, or negative infinity.

Denise Schmandt Besserat has rightly said in "The History of Counting" that we do not bother about counting but the method of counting that we use today took centuries to take the present form.
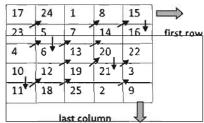
Ms. Priya Mathur
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Department of I Year, PIET

Mathematical Puzzles

It's my great pleasure to put before you this mathematical puzzle which will enlighten your brain to think more and more about its solution.

I am going to put two types of magic squares which are usually given in various newspapers to solve them. These are as under:

1. Odd number magic square say 5,7,9....etc. as explained below:

17	24	1	8	15
23	5	7	14	16
4	6	13	20	22
10	12	19	21	3
11	18	25	2	9

first row

last column

- Rules to complete the above odd no. magic square:-
a) First of all place a (e.g. 1to25, 2to26, 3to27....) 1st no. in middle of 1st row i.e. 1
b) If any no. is kept in 1st row then next no. will be placed in next column's last place (i.e. Where 2 is kept)
c) If any digit falls other than 1st row and last column which are darkened then the next digit will be as directed by arrow i.e. no. 3
d) If any digit falls in last column's any position then the next digit will be placed in that digit's upper rows in starting place as 4 is kept.
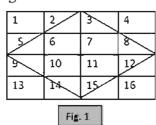
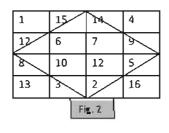Hence you can complete the square as directed by arrows.

You can try for any other odd no. square i.e. for 7(7x7=49); 9(9x9=81).....etc. and you will enjoy by doing such exercise.

You will see that each row's, each column's & diagonal will have the same sum i.e. 65.

2. a) Even no. magic square i.e. 4x4=16.

For this you have to prepare two squares and then according to line given – will be changed as given in fig. 1 & 2.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

Fig. 1

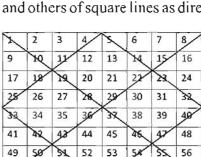| 1	15	14	4
12	6	7	9
8	10	12	5
13	3	2	16

Fig. 2

Each row, column and diagonal will have the same sum i.e. here it will be equal to 34.

b) Magic square for 8x8=64.

In this you have to prepare two magic squares and you have to change the digits in opposite side of diagonals and others of square lines as directed in figure 3 & 4.
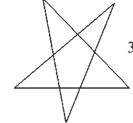
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64

If you add either any row, any column or any diagonals you will see that every sum comes to be 260 of square (8x8).

I think you will not get bore but enthusiastically you will carry on doing such puzzles.

64	2	3	61	60	6	7	57
9	55	54	12	13	51	50	16
17	47	46	20	21	43	42	24
40	26	27	37	36	30	31	33
32	34	35	29	28	38	39	25
41	23	22	44	45	19	18	48
49	15	14	52	53	11	10	56
8	58	59	5	4	62	63	1

=260

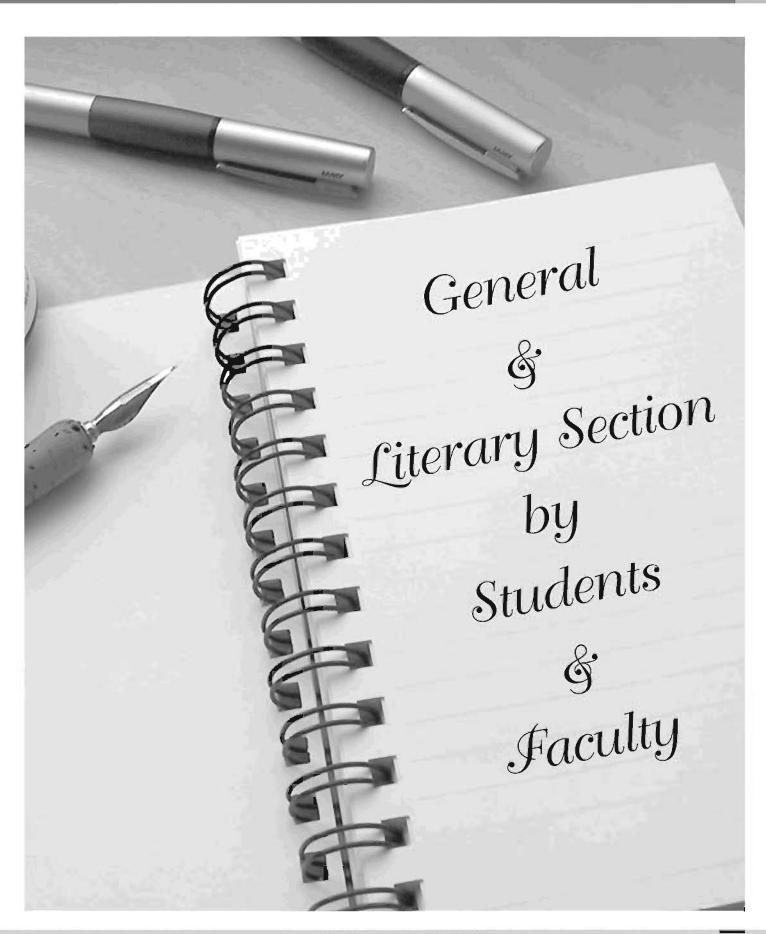3. It is of another nature puzzle – In this star there are 10 points where you have to put your 9 (nine) coins.

- Rules to put the coins are as given below-
a) You have to count one, two and three and in 3rd place you have to put your coin after moving in a straight path.
b) Next coin can be put as instructed earlier .You can jump the coin, which is already placed there, but you can't start from a place where one coin is already placed that point.

If you have follow the instructions, then after putting nine coins one place will be remain empty at any point which has illustrated below:

You are given a 'star' as drawn below:

Mr. J.R. Lohar
HOD, Department of I Year, PIET

Pain is inevitable. Suffering is optional-- Haruki Murakami

General
&
Literary Section
by
Students
&
Faculty

MENTORSHIP- Engage, Experience & Empower

Mentorship Program is an intensive concept of the Hostels of Poornima, a humble yet intrepid step to bring closer the junior & senior in order to answer to all such needs of a fresher in which newcomers are paired with seniors. With each passing year here, the students stand at the thresholds of limitless possibilities, poised for a promising start to their careers but equally baffled as to how to tread the paths ahead. Keeping this in mind, promoting its initiative "Hostel as a campus Program" is being dealt under two categories, Academics & Non-Academics cell, which offers the students the unique opportunity of interacting on a personal level with the well-experienced faculty experts & seniors of the hostel.

The first year of college life is the most crucial and demanding part of the whole course. A transition from school to college is accompanied with a wide range of dilemma related to intellect as well as one's outlook towards life.
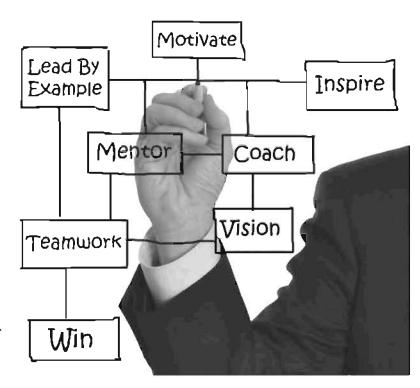
It aims at a healthy teaching-learning process between mentors & mentees and eager protégé, thus fostering and nurturing senior-junior relationship. The regular proactive and candid communication between the mentor and protégé on issues related to career path, academic interfaces, goal setting, focus on the mentee's total development, facilitates the mentee's growth by sharing resources and networks and work/family enables the protégé to streamline his priorities and goals whilst gearing him/her up to confront the ground realities of the world today.

Mentoring Benefits: Talent Retention

Mentorship Cell has been instrumental in forging these ties between the mentees and the mentors ensuring smooth communication between them. Students will undoubtedly get benefit from the valuable advice and perspective of their mentor that goes beyond the realm of textbooks as a hierarchy is maintained wherein the fourth year senior group mentors lead the team followed by third year group mentors who guide the mentors of second year to fulfill their responsibilities.

Thus providing students the opportunity of fostering a strong and lasting relationship with the people whose hindsight can become their foresight.

Amit Kumar Singh
III Year, EC

INSIDE THE WOMB

A precious pearl is grooming in the shell,

Inside the womb of her mother with a story to tell.

She is god's beautiful creation,

So delicate, so innocent & worthy of appreciation.

The nine months of a new life,

The journey she'll walk through with no fright.

She enjoys in her own small world,

Awaiting for the child she would.

She feels the walls of her room,

With a tiny touch inside the womb.

A safe home she is in, with a shell around,

But unknown to the earthly external ground.

Not knowing the twists & turns of life.

The way she has to walk along around some with negative vibes.

To give her thoughts the right direction in every case,

Unaware of the challenges she has to face.

The busy roads of life with deceptions around,

Unknown to the struggle to survive in crowd.

Shubhra Vyas
III Year, CS

LIFE

Taking is not life, giving is life,

Lying is not life, living is life,

Lying is not life, using is life,

Giving is not life, trying is life,

Crying in difficulties is not life,

Fighting against trouble is life.

Life is something-God's gift.

In troubles one should not shift.

Life is the most beautiful moment of spring.

Life is the precious diamond of a ring.

Life is the sweet calming rain.

And it is not to be lived like a running train.

Life is the treasure of ocean of affection,

Life is shine and glamour of sun,

Life is the glow and the beauty of moon,

Life is beautiful sunset of noon.

In life, there is not only success to achieve,

Life is to enjoy and not to leave.

Life is something different from all,

Enjoy it fully, it is too small.

Life is not lasting forever,

Life is to live, to laugh, to smile.

Life is journey, complete the mile.

Life is not to be wasted in greed.

Help the needy and fulfill their needs.

Life is a game, life is a race,

That has to be won in any case.

Live life fully before it ends,

Decision of living it is now in your hands.

Priyanka Baijal
III Year, CS

HAPPINESS

According to science "Happiness is a prolonged or lasting emotional or affective state that feels good or pleasing."

It seems as though people are always trying to achieve total happiness in life. Some factors that are associated with happiness are health, family, friends, money, and love. Mistakes and let downs are supposed to cause people to be upset, and therefore not happy. I agree with those factors and I am also trying to achieve happiness, but use my mistakes as potential happiness builders. I believe that if I live my life every day to the fullest, I am always happy.

What I mean by using my mistakes as potential happiness builders is that when something goes wrong in my life, it makes me appreciate the good things. If everything was perfect and I was always 100% happy, would I truly be happy? I don't believe that perfection means happiness.

Just being alive and being surrounded with those whom I love, makes me happy every day. It is known that if one is satisfied emotionally, they will feel better on the outside physically and vise-versa. Magazines and other media are always telling us how to be happy on the inside and out, but we have to learn how to do so on our own in order for true happiness. I like to learn for myself and experience the good and bad parts of life.

"If you're going through hell keep on going, don't slow down. If you're scared don't show it. You might get out before the devil even knows you're there." This is my favorite verse of a Rodney Atkins song called "If you're going through hell." It isn't my favorite because he is a very good singer, but because it is true. If someone were to give up during a hard time, things may just get worse. Instead of giving up, it would be best to keep going through life with the best possible attitude and in the end; happiness could be achieved from the experience.

Life is a cycle and in order to keep a positive cycle, one needs to be happy. If the happiness were to break, a bad attitude comes in and things can end up going downhill. Happiness matters to me a lot because it is a simple word, but very complex situation. There are so many ways to achieve happiness and so little time to live every day to the fullest; therefore, I like to follow the song and live everyday as if it were my last.

Abhishek Jain
I Year, EC

SUCCESS

Never get disappointed

Always try,

Success will be yours

You always think high

Now is yours

Forgot about the past

The future is your dream

You live in your

Present at last

Remember always

Achieve something greater than you think

Success and achievement are together they link

Success is achievement; and

Achievement and success

Make god feel proud of having you

Life is short

But that much not

To make one most achieve one's god

The goal always is achieved by them who

Have the quality of perseverance in them.

Manasvi Patel
III Year, CS

PAPA

I never forget that day, when you hold me in your arms,

I never forget that day, when your tear drops on my cheek because of happiness of getting me in your life,

I never forget that day, when I hold your hand and put my first step ahead and that day I got my supporter in my life, and that day I came to know that now I don't need anyone's support because I am having you in my life.

I never forget that day, when I came to you with some tears in my eyes and a lot of complaints in my words, and you suddenly hug me tight and I don't know how to but you are the one who solves all my problems like a magician.

Whenever I am thinking about all these moments, I silently smile and feel like I am in heaven in a dreamy world with full of colors and lots of love.

But…But…But…

I am not able to hold my tears.

When I think about that day when I hold you last time in my arms.

Today, I am also crying but these tears are not of happiness, it's of sadness; it's of emptiness that I have to live in now.

Today, no one is there to hold my hand, no one is there to support me, no one is there to hug me, no one is there to worry about me.

Today, no one is there to wipe my tears, no one is there to solve my problem, no one is there who will find their happiness in my happiness.

Now, no one is there to who can take your place in my life, "PAPA".

Priyanka Baijal
III Year, CS

EVERYTHING LEFT BEHIND

When I came, got surprised,

Something was missing, something wasn't right

Then I realized that my mother's womb was left behind.

When I played with friends,

Coral sands containing all hands,

Then a voice called "Grow up!"

Your enjoyment time is left behind!

I was shouldered with burden of books,

Just like dirty clothes hanged on the hooks,

I was disturbed when my thoughts were packed,

Then I realized, my childhood was left behind.

Some said Doctor, some said Philosopher,

Some said Engineer; no one realized that my dreams are also there.

Science has better scope, in arts there's no hope.

I obeyed what my parents said and,

Realized that my feelings were left behind.

Then came a hectic life,

With parents, children and wife.

I managed time for all.

And devoted my time as whole,

Then I realized, my time was left behind.

Azhar Khan
I Year, CS

CAN ANTS PREDICT NATURAL DISASTERS?

Disasters or emergencies like earthquake, flood, fire etc. can strike at any time. Disasters never notify their arrival. What will you do when a disaster strikes? Most of us panic in such situations. In such a situation, we never ever bother to care about others except our kins and family members. Have you ever wondered what happen to the small insects like ants in such a difficult situation? How they escape such disasters?

We, humans, can very easily get out of a room or building if disaster like an earthquake or a fire strikes but it depends on where the exit doors are located. Researchers at Monash University, Australia studied the behavior of ants, enthusiastically social insects, having some unique capabilities.

The global trend towards mass urbanization, and increasing incidence of mega-events, terrorism and natural disasters, it is important that public infrastructure such as office buildings, railway stations and sports arenas are designed to facilitate smooth emergency evacuations. The increased effectiveness of the corner exit could be due to the minimization of conflict points at the evacuation point. It was also found that with the middle exit, ants escaping along both sides of the wall had to change their direction at the exit in order to evacuate. This created conflict with the ants moving straight towards the exit. However, with the corner exit scenario, there were comparatively fewer conflicts with the ants moving straight towards exit and those escaping from the side walls.

Researchers simulated a human evacuation scenario and found that the ant model prediction accurately predicted human traffic flow. In the future, there is need to further examine the physical and behavioral similarities and dissimilarities among these different biological entities and how they may help to develop clever design solutions to enhance crowd safety.

Ms. Kiran Dyarakoti
Assistant Professor
Department of Civil, PIET

PAY ATTENTION TO YOUR ATTENTION!

At times all of us have come across that super active power puff girl or mighty spider man who gets on our nerves, jumping and running around, kicking dirt, throwing toys all around creating a complete mess of the place, not listening to instructions, not paying attention at all. Yet others might have an acquaintance or a co-worker, who just cannot sit still, fidget almost all the times, is absolutely oblivious to small details, forgets things, lost in day dreams and makes you wonder if the person in question is paying any attention at all or not?

Consider "attention" in both cases. We have all been inattentive at so many times in entire course of lives that we don't seem to pay attention to it at all because we realize that this is under our control, which is even correct to a large extent. However some people do not exercise similar control on what is the most important aspect of learning and living. These are the people who are suffering from ADHD, Attention Deficit Hyperactivity Disorder, a neurologically based condition characterized by problems with attention, impulse control, and hyperactivity that are not appropriate for a person's age.

Common symptoms of ADHD attention and hyperactivity are:

ADHD: Predominately Inattentive Type
- fails to give close attention to details, makes careless mistakes in assignments, office work and other activities;
- is easily distracted, has difficulty paying attention in tasks, especially on tasks that are long and tedious;
- does not seem to listen when spoken to directly, may daydream, mind seems to be elsewhere even in the absence of any obvious distraction;
- struggles to follow through on instructions and to finish assignments, chores, or duties in the workplace;
- has difficulty with organization;
- avoids or dislikes activities that require sustained mental effort;
- often loses things;
- is frequently forgetful.

ADHD: Predominately Hyperactive Impulsive Type
- fidgets with hands or feet or squirms in seat;
- often leaves seat in situations where remaining seated is expected, may feel restless during activities or situations in which remaining seated is expected;
- runs around or climbs excessively in situations in which it is inappropriate;
- has difficulty engaging in activities quietly;
- is often "on the go" or acts as if "driven by a motor," is uncomfortable being still for an extended time;
- hyper-talkative;
- hyper-reactive, may act without thinking, such as starting on tasks without adequate preparation or blurting out answers before questions have been completed;
- uncomfortable doing things slowly and systematically;
- often has difficulty awaiting turn, impatient;
- interrupts or intrudes on others, butts into conversations or games;
- make impulsive decisions without thinking through consequences, impaired ability to stop, think, inhibit, plan and then act.

Although its' still not clear to the scientists as to what exactly causes ADHD but the possibility of genetic influences cannot be denied. In addition, environmental factors, effects of brain injuries, nutrition and social environment also play a role in this.

Treatment involves medication, various types of psycho therapy and most importantly, training and guidance of parents whose children suffer from ADHD. Behavioral therapies are recommended as first line treatment in those having mild symptoms or are preschool-aged. Psychological therapies include psycho-educational input therapy, cognitive (CBT), interpersonal psychotherapy, family therapy, school-based interventions, social skills training, parent management training, and neuro feedback. Most important factor in reducing ADHD and other

psychological problems, such as major depression, criminality, school failure, and substance use disorders is formation of friendships with people who are not involved in delinquent activities.

Like most problems, ADHD can also be treated and people suffering from it can lead a purposeful and fulfilling life too. But efforts are made by both who suffer from ADHD and those who are related to such people.

Ms. Ruchi Joshi
Counselor, PGC

MATHEMATICS: A Matter of Life or Death!

Mathematics is use in every facet of our life. It is a subject of calculation and is totally based on practical implementations. Each series and formula in math is the part of an event occurring in this universe. Some people aren't even out of bed before encountering mathematics. Setting an alarm and hitting snooze, one may quickly need to calculate the time they will arise. Whether using measurements in a receipe or deciding if half a tank of petrol will make the destination, we all use math. Even those suffering from math-related anxieties or phobias cannot escape its presence in their everyday lives.
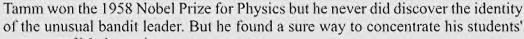
Many of us rarely give math a credit but Igor Yevgenyevich Tamm, definitely had. During the Russian revolution, Igor Y. Tamm, a Soviet physicist, mathematician and a Nobel Laureate, was seized by anti-communist vigilantes at a village near Odessa where he had gone to barter for food. They suspected him to be an anti-Ukrainian communist agitator and dragged him off to their leader. Asked what he did for a living, he said that he was a mathematician. The sceptical gang-leader began to finger the bullets and grenades slung around his neck.

"All right", he said, "calculate the error when the Taylor series approximation of a function is truncated after n terms. Do this and you will go free; fail and you will be shot". Tamm slowly calculated the answer in the dust with his quivering finger. When he had finished, the bandit cast his eyes over the answer and waved him on his way.

Tamm won the 1958 Nobel Prize for Physics but he never did discover the identity of the unusual bandit leader. But he found a sure way to concentrate his students' minds on the practical importance of Mathematics.

Precisely we can say that each stream of science and technology, i.e. electronics, electrical, civil, chemistry and so on, is the design of different practical approaches. So, engineers should emphasize on practical knowledge.

Mr. Mohit Bajpai
Dy. HOD, Department of I Year, PIET

PRONUNCIATION MATTERS

Everything teachers speak (and do) in front of student matters. Teachers who are aware of the importance of their own language- grammar, pronunciation, choice of words, levels of formality, colloquial expressions, idiomatic expressions, etc.- and its influence on their students' English cannot afford to ignore the value of continuing professional development (CPD). One of the major areas of concern in personality development is pronunciation. It is worth considering how a teacher's pronunciation influences student's overall command of English, and in turn the effectiveness of English in his or her professional and personal life.

Why does a teacher's pronunciation matter? Well, although it may sound hackneyed, it is worth stating that language is primarily speech as a potentially powerful means of communication. Good pronunciation enhances intelligibility and

effectiveness of the contents of speech. Indeed, in most Indian schools, 'teacher talk' is the only exposure to English for students. Therefore, the more effective a teacher's pronunciation, the greater his effectiveness and utility. With improved speech models,

1. Student's listening comprehension will improve.
2. Improved listening comprehension will improve their English.
3. They will want to imitate the teachers and to improve their pronunciation.
4. They will be better attuned to English television or radio programmes.
5. They will become autonomous learners of English: for they will control their own performance better.
6. Their overall command of English will improve because they receive and deliver greater content when they communicate.
7. They will reap benefits of good language command both professionally and personally.
8. They are more likely to develop a liking for English.

How will the English classroom have to operate to bring about this positive change? Enthusiastic and situational appropriate performance models of voice and accent will make classes and learning enjoyably dramatic. Such English classes will be more 'pronounced'! Students' efforts to improve their pronunciation will be sweet music to their ears, and their pronunciation will sound 'English' or stylistically appropriate and rich to the discerning ear in time. Encouragement of student's effort to improve pronunciation will boost their confidence and provide fresh impetus to continued effort. Even at the end of one such intensive and effective year, students will be on their way acquiring and managing more effective and naturally varied communication in English.

Those students who pronounce words, phrases, sentences and even longer speech sequences correctly and effectively will attract attention and admiration of members of the general public as well as educated and articulate members of society. They will reap benefits in future life when facing interviews or participating in group discussions as in other acts of persuasion and other kinds of interaction. Their language will help them make their presence felt. Other things being equal, such students will be better able to carve out niches for themselves in their chosen fields of adult life.

With the passage of time, a few batches of such students in a school, college or university department will set the benchmark for language acquisition. Genuinely effective spoken communication will become the driving force for continued success in the teaching of speech.

So long as a teacher is willing to improve his or her own speech and to make the studied and careful effort to present effective models to students, and begins to teach effective speech once he or she has achieved a respectable standard, the process ought to be self-perpetuating.

Dr. (Prof.) Urmil Talwar
Government Girls College, Shahpura

MEMORIES

Between the has been and will be
Between the end of the earlier
& the beginning of another.....
A moment, adrift in time
A moment of reckoning....
The flutter of a few pages documents
Of what goes unrecorded
Between recorded histories.....
Fleeting, yet felt.....
To become a wisp of memory!

Ms. Shreshtha Bohra
Assistant Professor,
Department of I Year, PIET

TODAY'S CONFIDENCE BUILDERS TOMORROW'S CAREER ACHIEVERS

Self confidence is one of the best values. It is valuable asset of students. To become great in life and career, there are a few attributes which may be either mental qualities or the qualities of heart, body or soul. As an attribute, self confidence is merely based upon our previous performance. It depends upon how other people feel or acts towards

us. So, self-persuasion, control, smartness, motivation, high goal setting and firm conviction are absolutely necessary values to build up self confidence. When students want to inculcate a quality or an attribute, they need strong desire, untried effort, lofty ideas, continuous practice, positive approach and regular improvisation.

It arises in everybody's mind whether students are molded as confidence builders in educational institutions. There are engineering and polytechnic colleges where students have opportunity to improve themselves in personality and education. Academic excellence and self confidence have good significance for student's career growth. So they must believe in themselves, motivate themselves and activate themselves to achieve in life and career. Fluency in English also adds glamour for the academic proficiency.

Cultivating self confidence is result of failures and complexities. Not only finding success at attempt but also getting rid of complexities, youth must be brought up with a sense of equality for all. No doubt, students can attain self confidence if at all parents, teachers and elders as role models have achieved something through self confidence. Certainly winning lies at self confidence. In fact, students experience that mental courage and confidence always make them face any struggle. They should be encouraged to adopt personality traits of great people. Although all great people have many traits in common, students can find and follow traits in their inborn qualities and attributes extremely well.

Hard and smart work is the benchmark of self confidence. Success comes from fruitful attempt. Positive thinking is not merely a wishful thinking but it rests upon powerful and confident phenomena to achieve and attain and desired results.

Now-a-days students who are hired in industrial sectors face many problems in their chosen careers. Confidence builders who take the role of decision makers and solution finders can enable themselves to set right their complications. Both knowledge and skills back up confidence of the students.

Ms. Rekha Singhal & Ms. Deepika Agarwal
Assistant Professor
Department of I Year, PIET

AUSTERITY IN SPEECH---Watch What You Say!

Some of us make ass of ourselves by speaking off the cuff and then regretting and clarifying as to what we did not intend to say. This is what happened when some important persons first spoke in excitement and had later to clarify their position. Similarly another important person spoke in retaliation, when he got angry over charges of corruption leveled against him, words which he would not have spoken in calm moments. Speak when you are angry and you will make the finest speech you will ever regret.

Many a friendships break over words spoken in unguarded moments. Likewise many a relationships get wrecked over the precipitous of silly words. Words can tear and inflict permanent injuries.

Lord Krishna has advised austerity of speech in Gita. He says "Speech which causes no excitement is truthful, pleasant and beneficient and the study of the Vedas is called austerities of speech". It means that the words spoken must be such that they are neither irritating nor obscene, but express the truth in an agreeable manner for the benefit of those to whom these are spoken, and also with full knowledge of what the speech is meant to convey. In other words, it means that the speech which causes hurt is untruthful, unpleasant, non-beneficial and lacking in knowledge is wasteful of energy. Be austere in your speech.

There are three types of people. Those who think before they speak (ideal), those who think while they speak (somewhat okay) and those who think after they speak (bad). Your speech (or words) can win you friends or foes, victory or defeat. So, watch what you say!

Mr. Ashok Choudhary
Assistant Professor
Department of I Year, PIET

वर्तनीय सृजन

लग रहा है मानो!

लग रहा है मानो, गहरी नींद से जागी हूँ,
कितने लोग आये और चले गये,
सब कुछ सपना दिखाई देता है।
पर उनके वजूद का रंग अभी
हकीकत में मौजूद है,
बंद करते ही पलकें,
कुछ धुँधला सा दिखाई देता है,
मुस्कुराते पलों का महल था जो,
कभी आज खण्डहर सा दिखाई देता है।
प्यार को बहुत खूबसूरत माना,
गहराई से देखने पर सब कुछ,
खोखला सा दिखाई देता है,
इसलिये शायद इंसान से जुड़ा इंसान भी,
तन्हा दिखाई देता है।
न जाने कब, कहाँ, कैसे
रिश्तों के मायने बदल जाते हैं,
बदलतें हैं मौसम,
बेशक बदलें,
पर यहाँ तो लोग बदल जातें हैं,
आते हैं जो करीब बन के अपने
बहुत,
दर्द के साये से लौट जाते हैं,
देते हैं नसीहतें सबको संभलने की हम भले ही,
पर सच तो ये है कि 'धोखा' अकसर हम भी खाते हैं।

प्रिया माथुर
सह–प्राध्यापक

उड़ती है पतंग तो उड़ने दो

उड़ती है पतंग तो उड़ने दो,
छूट गयी डोर तो छूटने दो।
ख्वाहिशों के आसमान में उसे जाने दो,
ऊँचाईयों पर उसे लहराने दो।।
माँजे से कट कर गयी है वो,
मंज़िल अपनी ढूँढ़ने कहीं को।
कई धागों में उलझी थी वो,
चली है दूर आज सबसे वो॥
पहुँचेगी किस पार ना जाने वो,
शायद वहाँ, जहाँ मिल जाये कोई छोर।
हवा का झोंका है पुरज़ोर,
ले जाता है पतंग को अपनी ओर।
ना जाने कौन थामेगा इस पतंग की डोर॥
उड़ती है पतंग तो उड़ने दो,
छूट गयी डोर तो छूटने दो।
बादलों की धुँध में कहीं गयी है वो,
खुद को खोकर खुद को कहीं पाने वो॥
माँजे में फिर ना बँध जाये वो,
जाने दो उसे जहाँ जाये वो॥
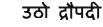उड़ती है पतंग तो उड़ने दो,
छूट गयी डोर तो छूटने दो।।

**रिद्धि श्रीवास्तव
एवं पल्लवी जोशी**
सहायक–प्राध्यापक

क्षितिज तक

आँधियां आती हैं, और चली जाती है,
रेत के कण उड़कर आते हैं, और
आँखों की परतों पर जम जाते हैं,
जहाँ कोई नया अंकुरण नहीं होता,
दूर लहरों पे सजते दिए टिमटिमाते हैं,
बस, कुछ पल और बुझ जाते हैं,
शायद, जलते भी हों,
पर ये बोझिल आँखें-
बुझ जाने का अनुमान लगा लेती हैं,
आँधियाँ आती हैं और चली जाती हैं,
पेड़ हिलते रहते हैं- बाद तक, या अन्त तक
जड़ से ठहनियों या फागनियों तक,
मैं और बस मेरी दो आँखें,
जिन्हें मैं खुद भी नहीं देख सकता,
और ये जो देखती हैं,
उन्हें भी स्पष्ट नहीं देख सकता, क्या कहूँ??
वातास की विडम्बनाओं में जी रहा हूँ,
कभी धूप और कभी छांव, जो आँख मिचौली करते हैं,
और बरसात अनायास ही, भिगो देती है,
अहसास होने से पहले, धूप तपा देती है,
आँधियाँ आती हैं और चली जाती हैं,
अपने साये को-
साथ लेकर दौड़ता है हर सुबह, शाम होने से पहले ही,
छोड़ देता है मुझे, सुबह फिर ढूँढता हूँ उसे,
साथ लेकर क्षितिज तक जाना चाहता हूँ,
राह को, बीच में ही मोड़ देता है,
हर दिशा मे दौड़ता हूँ, अपने दम तक,
उन उम्मीदों के साथ कि कल, पहुँचूँगा क्षितिज तक।

भानुप्रताप सिंह
सहायक–प्राध्यापक

उठो द्रौपदी

सुनो द्रौपदी, लज़्जा-वसन बचाना है तो स्वयं जागना होगा,
अपने ही हाथों से अपना भाग्य बनाना होगा।
आशा से मत देखो इनको, स्वयं खड़ी हो जाओ,
डटकर इनसे लड़ो अकेले, अपनी लाज बचाओ।
बिके हुए इन सभासदों से,
रक्षा की गुहार कर अपना समय मत गॅवाओ।
सुनो द्रौपदी, लज़्जा-वसन बचाना है तो स्वयं जागना होगा,
अपने ही हाथों से अपना भाग्य बनाना होगा।
देख रहे सब मौन बैठकर लुटती लाज तुम्हारी,
सूख गया इन बूढ़ों की आँखों का निर्मल वारि।
सत्ता-लोलुप इन वृद्धों को, आज हटाना होगा।
सुनो द्रौपदी, लज़्जा-वसन बचाना है तो स्वयं जागना होगा,
अपने ही हाथों से अपना भाग्य बनाना होगा।
अँधों से शासित शासन में, कौन सुनेगा अपनी
इनके अपने राग निराले और निराली दपली।
सत्ता मद में चूर हो रहे , इन्हें हिलाना होगा।
सुनो द्रौपदी, लज़्जा-वसन बचाना है तो स्वयं जागना होगा,
अपने ही हाथों से अपना भाग्य बनाना होगा।
आसाराम सरीखे ढ़ोंगी, निर्मल बनते बाबा,
इनके पैरों तले न जन्नत ना कशी काबा।
केश खोल कर इन्हें ध्वस्त करने का बीड़ा आज उठाना होगा।
सुनो द्रौपदी, लज़्जा-वसन बचाना है तो स्वयं जागना होगा,
अपने ही हाथों से अपना भाग्य बनाना होगा।
कोई कृष्ण नहीं कलियुग में, आकर चीर बढ़ाए,
लाज बचाकर द्रुपदसुता की, उसका मान बढ़ाए।
छाती चीर दु:शासन की, खुद केश बाँधना होगा।
सुनो द्रौपदी, लज़्जा-वसन बचाना है तो स्वयं जागना होगा,
अपने ही हाथों से अपना भाग्य बनाना होगा।

रेखा गुप्ता
सह–प्राध्यापक,
कनोडिया महिला महाविद्यालय (अतिथि लेखक)

प्रवाह

कलकल निनादित
जीवन प्रवाह
भूत वर्तमान और
भविष्य से परे
निरन्तर गतिशील
दिशाओं को समेटे
अनादि अनंत
अनंत दूरी के पार
बिंदुओं से जुड़कर
बनाती है रेखा
उलझाव को बदलकर
सरलता में
जलरंग से भरें
निहावत खूबसूरत
दृष्टिपटल पर
प्रतिपल बदलते
क्षणों के अबोध बिम्ब
भूत से वर्तमान को
सजाते क्षण
भविष्य के सन्नाटे को तोड़ता
कोई प्रेमगीत
त्रिकाल की दूरियों को सकेरता
बूँद बूँद झरते
रस को सहेजता जीवन।

ओ.पी. माली
उप–रजिस्ट्रार

नदी

रोज क्षितिज पर बनते देखा मैंने बिम्ब तुम्हारा,
स्वच्छंद वेग एक अविरल धरा,
निर्मल अमृत जीवन तुम्हारा,
तुम बह रही हो,
यह है भावनाएँ आवेग तुम्हारा,
रूक कर जहाँ ठहर जाती है बस्तियाँ,
क्यों उन्हें जोड़ रहा छोर तुम्हारा,
निर्मम कलुषित मनुष्य प्रतिफल,
हाँ क्यों सहेज रहा है अंक तुम्हारा,
है उद्विग्न मन, एक प्रश्न कम,
क्यों है स्वच्छंद ऐ अविरल धारा,
रोज क्षितिज पर बनते देखा,
मैंने बिम्ब तुम्हारा,

नरेन्द्र यादव
सहायक रजिस्ट्रार

हाथ से हाथ

हाथ से हाथ
कंधे से कंधा
कदम से कदम
मिलाकर आगे बढ़ें।
समानता, स्वतंत्रता
लोकतंत्र, गणतंत्र
किताबों से निकाल
साथ लेकर आगे बढ़ें।
जोश व उत्साह से
सत्य व विश्वास से
कुछ करने की चाह
साथ लेकर आगे बढ़ें।
अधरों पर हास
ह्दय में मिठास
जीवन आनंद से उमगती रह साँस
प्रतिपल साथ लेकर आगे बढ़े
आओ, हम सब मिलकर आगे बढ़ें।

मनीष यादव एवं नंद गणेश शर्मा
सहायक प्राध्यापक

दे दे आसमां

दे दे आसमां, तू मुझे दो पल
मैं उड़ लूँ जरा,
पंखों को फैलाकर देखूँ तो सही,
क्या है उड़ान का मजा फिर,
बँध जाना होगा एक दिन
किसी की उम्मीदों के
भवँर जाल में मुझे,
दे दे आशियां, तू मुझे दो पल
जो सिर्फ मेरा अपना हो
अहसास कर के तो देखूँ
क्या होता है जीने का मजा फिर,
छोड़ जाना होगा उसे,
बचपन से अपना समझा जिसे,
दे दे आँचल की छाँव मुझे दो पल
महसूस कर लूँ, रिश्तों की गर्मी जरा,
ज़िंदगी के कठोर धरातल पर अकेले ही
चलना होगा मुझे!!

प्रिया माथुर
सह–प्राध्यापक

कन्या भ्रुण हत्या

कोख में तेरी जीवन पाया
माँ तुझे पाकर मन हर्षाया
दिल में उठी तरंगें जगने लगी उमंगें
संजोने लगी सपनें जब मुझे सब लगे अपने
प्यार मिला दुलार मिला
ममता का अहसास मिला
पर माँ मैंने यह क्या सुना
कन्या का रूप जो मैंने पाया
तो मारने का पैगाम है आया
टूट गई आशाएँ बढ़ी मेरी निराशा
जब अपनों को ही मैंने अपना खूनी पाया
पर माँ! क्यों दिया तूने ऐसा सिला
तुझे भी तो है नारी ने जाया
फिर क्यों न तुझे तरस आया
क्यों तूने मुझे मरवाया
माँ आज जो मैं दुनिया में आ जाती
तो घर में खुशियाँ छा जाती
पर तुमने ये सब ना सोचा
अपने किस मतलब को देखा
अपनी ख्वाहिशों को पूरा करने की तमन्ना में
क्यों सबने बेटी को कोसा।
माँ मुझे जीने दो।

नव्या भाटिया
प्रथम वर्ष, कम्प्यूटर साइंस

अध्ययन से प्रीत

जीवन मे महत्व है पढ़ाई का जैसे रणभूमि मे महत्व है सिपाही का,
जीवन को करना है अगर सफल, शिक्षा के क्षेत्र मे पाना हो मीठा फल!
कठिन मेहनत लगन तथा परिश्रम, सफलता देगा जीवन मे यही श्रम!
मनुष्य प्राणी है जानों, लक्ष्य पाना है मूलमंत्र मानो!
मुश्किलों पर पानी है 'गर' जीत तो, अध्ययन से कर लें हम प्रीत तो!!

संजय मीणा
द्वितीय वर्ष, सिविल

खोता बचपन

यूँ खुशी की आस में खोता बचपन, सड़कों और गलियारों के मध्य पिसता बचपन। ये रोती बिलखती ज़िंदगी और इस ज़िंदगी के बीच सपनों में खोता बचपन॥

भूखा पेट, फटे वस्त्र और खाने को तरसती आँखें और यूँ उम्मीदों में खोता बचपन। कभी पुस्तकें, कभी फूल और गुब्बारे बेचने की जुगत में खोता बचपन॥

यूँ खुशी की आस में खोता बचपन, सड़कों और गलियारों के मध्य पिसता बचपन। ये रोती बिलखती ज़िंदगी और इस ज़िंदगी के बीच सपनों में खोता बचपन॥

कभी लाचारी, अपंगता,नशा और चोरियों के बीच खोता बचपन। नन्हीं ओस की बूँदों के जैसे पल भर में समाप्त होता बचपन॥

यूँ खुशी की आस में खोता बचपन, सड़कों और गलियारों के मध्य पिसता बचपन। ये रोती बिलखती ज़िंदगी और इस ज़िंदगी के बीच सपनों में खोता बचपन॥

क्यूँ कुछ कर गुज़रने की ख्वाहिशों और प्रयास के बीच मैला होता बचपन। क्यूँ कोल्हू के बैल की तरह सब काम करता बचपन॥

यूँ खुशी की आस में खोता बचपन, सड़कों और गलियारों के मध्य पिसता बचपन। ये रोती बिलखती ज़िंदगी और इस ज़िंदगी के बीच सपनों में खोता बचपन॥

कभी सिगरेट की कश, कभी मालिक के थप्पड़ और मालकिन की बेदर्दी के बीच खोता बचपन। बालश्रम अपराध के नियम के बीच खोता बचपन, यूँ भूख- प्यास से पीड़ित होता बचपन॥

यूँ खुशी की आस में खोता बचपन, सड़कों और गलियारों के मध्य पिसता बचपन। ये रोती बिलखती ज़िंदगी और इस ज़िंदगी के बीच सपनों में खोता बचपन॥

वो मेरे पास आया और बोला बाबूजी! एक रुपया दे दो। मैंने पूछा इस एक रुपये से क्या होगा? तो बोला ये एक-एक रुपया जोड़कर अपनी भूखी माँ को खाना खिला दूँगा, मैं बोला कि ये ले मेरा टिफिन, खुद भी खा लेना और अपनी माँ को भी खिला देना, तब वो बोला कि मैं भिखारी नहीं हूँ साहब!!! मैं निरुत्तर!!!

फिर मन में ख्याल आया कि चेहरे पर स्वाभिमान के मोती और पेट में भूख की चादरें पसारे यूँ क्यों खोता बचपन??? यूँ क्यों खोता बचपन???

यूँ खुशी की आस में खोता बचपन, सड़कों और गलियारों के मध्य पिसता बचपन। ये रोती बिलखती ज़िंदगी और इस ज़िंदगी के बीच सपनों में खोता बचपन॥

विवेक अग्रवाल, तृतीय वर्ष, ई.सी.

Art Cradle

Krati Bhatnagar
I Year, CS

Krati Bhatnagar
I Year, CS

Parth Oberoi
I Year, CS

Raghav Maheshwari
I Year, CS

Hemant Gupta
I Year, EC

Excellence is an art won by training and habituation. We do not act rightly because we have virtue or excellence, but we rather have those because we have acted rightly. We are what we repeatedly do. Excellence, then, is not an act but a habit.

—*Aristotle*

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|| पूर्णिमा गान ||

जय जय जय पूर्णिमा संस्थान,

मरुभूमि अभिनन्दन करती, अरावली देता मुस्कान || 1 || जय जय .....

उन्नत शिक्षा आदर्शों पर, आधारित जिसकी संरचना,

ज्ञानम् बिना न किमपि साध्यम्, जिसका जीवन व्रत महान् || 2 || जय जय .....

युवा शिल्पी रहते रचनारत, यन्त्र कला कौशल अपनाकर,

विद्युत, सूचना, संगणक से, अंतरिक्ष तक भरें उडान || 3 || जय जय .....

मानवता से करें प्रकाशित, ज्ञानदीप की लौ जलाकर,

तारागण सम सदा चमकते, जनमानस का करे कल्याण || 4 || जय जय .....

करें वन्दना, सरस्वती माँ की, पूर्ण हो मन की अभिलाषा,

सृजन हित दृढ़ नित परिश्रम, ध्येय राष्ट्र का नव निर्माण || 5 || जय जय .....

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