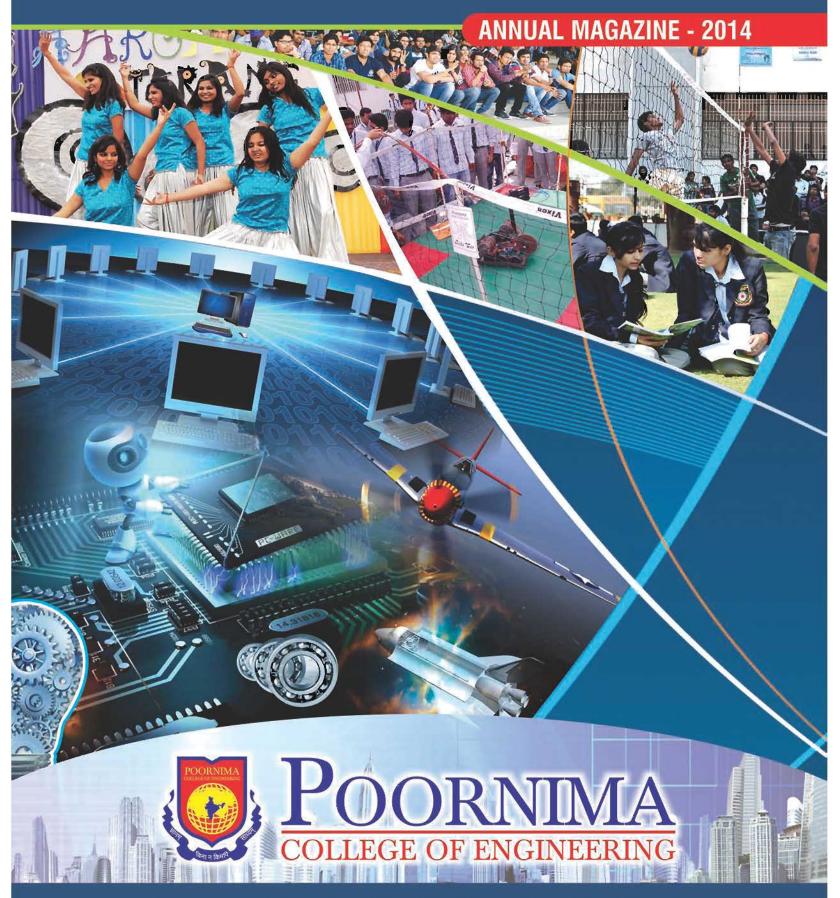# POORNIMA WINNERS

POORNIMA
COLLEGE OF ENGINEERING

(A Constituent College of Poornima Group of Colleges, Jaipur)
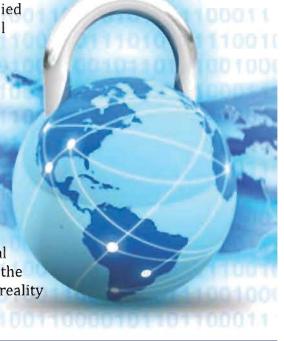
ETHICS IN ENGINEERING

Engineering ethics, closely related to subjects such as the philosophy of science, the philosophy of engineering and the ethics of technology, is the field of applied ethics and system of moral principles that is applicable to the practice of engineering. As National Society of Professional Engineers believes that Engineers shall hold paramount like safety, health, and welfare of the public in the fulfillment of their professional duties. This assigns the engineers with additional responsibility of identifying a specific precedence with respect to the engineer's consideration for the public, clients, employers, and their profession. The Codes of engineering ethics emphasize that engineers should endorse the prestige of engineering profession in order to ensure its proper discharge and to maintain a professional deportment. This demeanor should be deeply rooted in ability, honesty, fortitude, temperance, magnanimity, modesty, honesty, and justice with the consciousness of individual well-being for social welfare. It is relatable to accentuate that an engineer should augment the awareness of the world, his/her interest in the universe and knowledge of reality to make the world fairer and happier.

Vision

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

Mission

"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."

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.......... Pen

I strongly believe in what Potter Stewart said that Ethics is to know the difference between what you have a right to do and what is right to do. The term ethics comes from the Greek word "ethos" which means "character" and the field of ethics involves systematizing, defending and recommending concepts of right and wrong behavior. It's palpable that the more we are progressing, the more we are stepping towards our obliteration as our functioning and life style rest on not the values and ethics but the greed and lust for every comfort of life.

The engineer is one who creates, constructs, builds and turns to his or her imagination into a reality. But the engineering and engineers without ethics is like a threatening of annihilation to the society and humanity. Highlighting the theme "The Ethics in Engineering" through the publication of magazine of Poornima College of Engineering entitled "Poornima Winners" with its thirteenth issue, I feel privileged and overwhelmed for the same. The engineers should follow the ethics using their knowledge and skill for the enhancement of human welfare striving to increase the competence and prestige of the engineering profession. It's a must that they should hold paramount like the safety, health and welfare of the public while performing their professional duties supporting the professional and technical societies of their disciplines.

As PCE believes in quality and quantity of multi dimensional talents, this has led the academic and non-academic sectors of students and faculty members to extreme levels of growth and success. Efficiency & effectiveness are the benchmarks of PCE in implementation of its policies, rules and regulations in terms of regular and timely classes, attendance, course coverage, learning activities, cultural & technical fests and placements. The growth ladder of PCE draws attention to its well organized management and functioning in every field of education, research and technology. The secure, congenial and serene environment of PCE campus makes it a first choice of B.Tech. students creating its market value as a brand in technical education in all over Rajasthan and other states too.

At last, giving an end to my words, I would like to thank all the renowned dignitaries and management of Poornima Group of Colleges who had been a torch bearer with their utmost support and guidance to accomplish this issue of the magazine "POORNIMA WINNERS".

JAI JAI JAI POORNIMA SANSTHAN !

Prince Dawar
Editor-in-chief

Editorial Board

Contents

Message

It is a matter of great pleasure that **Poornima College of Engineering, Jaipur** is bringing out its annual magazine, **POORNIMA WINNERS - 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 College of Engineering, Jaipur** is bringing out the fresh issue of its annual college magazine **POORNIMA WINNERS - 2014.**

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 College of Engineering, Jaipur** is publishing its Annual College Magazine **POORNIMA WINNERS**.
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 WINNERS** 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 College of Engineering, Jaipur** is bringing out its Annual College Magazine **POORNIMA WINNERS** this year. The college has earned high reputation in a short span of time in the field of 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 College of Engineering, 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 WINNERS.** The magazine embodies the lively spirit of **Poornima College of Engineering, 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 College of Engineering, Jaipur,** is bringing out latest issue of its college magazine **POORNIMA WINNERS.** 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 Thirteenth issue of **POORNIMA WINNERS** is dedicated to "Ethics in Engineering". 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 PCE 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 College of Engineering, Jaipur** is going to publish its annual college magazine **POORNIMA WINNERS**. 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 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 WINNERS. With best wishes!

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

It gives me immense pleasure to share that **Poornima College of Engineering, Jaipur** is bringing forth yet another issue of its Annual College Magazine: **POORNIMA WINNERS.** 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.
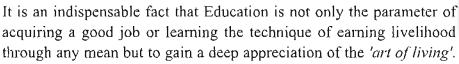
Best Wishes!

JAI JAI POORNIMA SANSTHAN ! JAI HIND.

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

From The Director's Desk...

It is an indispensable fact that Education is not only the parameter of acquiring a good job or learning the technique of earning livelihood through any mean but to gain a deep appreciation of the *'art of living'*.

The philosophy of education is to acquire right knowledge of different aspects and dimensions of the world around us and to disseminate the same for the benefit of the individual, society, nation and the world. But, beyond and above all such fundamentals; earning livelihood is the utmost requirement of each and every individual. In the ancient system, the life span was divided in four equal spans i.e. *Brahmcharya Ashram (Birth to 25 years), Grahasth Ashram (26 to 50 years), Vanprastha ashram (51to75 years) and Sanyas Ashram (76 to 100 years)*. In the very initial span of life education was imparted to an individual not only to earn livelihood for family but to serve the society. And, certainly, right education enables us acquiring a befitting position in handling our social responsibilities as well in arranging bread & butter for our upbringings. Francis Bacon has rightly said, *"Reading maketh a full man; conference a ready man; and writing an exact man."* The present day education though has undergone a radical change, with the development of modern science and technology, especially computers;but much is needed to be done on the holistic approach to education, which can evolve personality. In spite of all these, we are lagging in imparting right education to right people thereby, creating disharmony. It has become a general phenomenon that even after acquiring multiple degrees, the aspirants remain job-less. Therefore, one needs to have proper guidance and an evolved system which will lead to evolution of personality. This system should have a positive impact on thinking process, beliefs and attitudes with its holistic approach, concepts, methods and techniques as the basic aim of education and a true educator is described in the below line-

भअज्ञानतिमिरान्धस्य ज्ञानान्जन्य शलाकया, चक्षुउन्नीलितम् एनंतरस्मैश्रीगुरूवेनमः ।

We Indians are privileged by having a rich educational background since the Vedic age. Vedas are the earliest systematic literature in the entire world existing since thousands of years, which have stood the test of time and continue to challenge the mankind with renewed freshness and vitality. Vedas, which are the fountain head of knowledge and wisdom, are built upon sound structure which is definite, clear, unambiguous, generative and complete. In ancient India, *'Gurukuls'* had a key position in the then society and the all-round education was provided to the disciples. The concept of गुरूर्ब्रह्मागुरूर्विष्णुः गुरूदेवोमहेश्वरः । गुरूः साक्षात्परब्रह्मातरस्मैश्रीगुरूवेनमः । is perfectly scientific which says that the person having multidimensional abilities can be a true teacher. This concept leads to the all-round development of personality. Great Indian poet and a versatile literary figure *Sh. Ramdhari Singh Dinkar* has rightly quoted in *Rashmirathi-*

" जय हो जग में जले जहां भी, नमन् पुनीत अनल को,जिस नर में भी बसे हमारा नमन तेज को बल को ।"

As it has been scientifically proved that brain has two sections- Deep and Shallow. The deep brain is used for aesthetic and permanent retention or the appreciation of knowledge; whereas shallow brain is used for temporary memory based on cramming or mugging up. In ancient and medieval ages deep brain was used as the concept of education was appreciated as a source of happiness and aesthetic pleasure as is said for Valmiki:

" वियोगी होगा पहला कवि, आहः से उपजा होगा गान। निकल कर नैनों से चुपचाप, बही होगी कविता अन्जान।"

The then people had a taste for learning and they obviously had a freedom of selecting their field of interest. But in the present era, vice-versa is prevailing everywhere. Though the world today is touching great heights in each and every field of life but unfortunately losing ethnicity and deep rooted knowledge. Now, students gain or retain something for impermanent gains i.e. to pass some examination or likewise.

But, beyond and above the existing vacuum, here, in Poornima, we still abide to impart education with its core spirit. We develop a budding Engineer (raw material) by pruning him/her perfectly from all aspects and enable him to face all challenges of life by maintaining a sound character and empathetic aspect for society and nation. We train the students to develop the ability of being functional in the *'marshalling of affairs'.* Besides university syllabus, an additional timetable (incorporating soft-skill training, mental ability, reasoning and much more) has been drafted under the banner named *peem, Poornima Professional skills & knowledge Enhancement Programme, on line tests* etc. to prune the professional skills of the students and enabling them seeking selection in campus drive by shaping their multidimensional abilities. We, in fact, are keen to revamp the syllabi of above cited special programs for gaining better outcome in campus drives. Students right from First Year onwards are trained under these programs. Thus, by the time they reach their Final year, these skills are implanted into their deep memories. It makes them versatile to answer questions wisely up to logical depths. We also arrange special lectures on versatile domain for enriching perfection in personality because only an accomplished personality can help the individual thinking and planning high. Someone has rightly said,

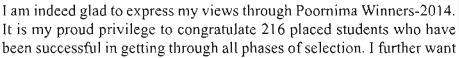भव्यक्तित्व संरचना राष्ट्र संरचना का आधार हैं।

Thus, at Poornima, necessary inputs are planned, developed and given to our students. It further strengthens our brand. We continue to cherish the valuable suggestions which our well-wishers send to us as they critically go through " POORNIMA WINNERS".

Prof. (Dr.) R.P.Rajoria
Director, PCE

From The Principal's Desk...

I am indeed glad to express my views through Poornima Winners-2014. It is my proud privilege to congratulate 216 placed students who have been successful in getting through all phases of selection. I further want to extend my best wishes to all other students whose final selection results are awaited in many renowned National and International Companies & Industries of repute such as Nagarro Software, Indian Navy, IBM India Limited and many more. I convey my best wishes to all students who have cracked GATE- 2013 & very soon will be cracking IES-2014 and those who got admission in Post graduate MS Programme in different foreign Universities.

I specially want to congratulate all the faculty and staff members of Departments of Electronics & Communication Engineering for organizing AICTE Sponsored SEMINAR on 18th & 19th Jan, 2014 on a theme of importance Advancement in Wireless and Optical Applications. I also wanted to convey my best wishes to Poornima University & Poornima College of Engineering for organizing an IEEE INTERNATIONAL CONFERENCE on "Recent Advances & Innovations in Engineering " (ICRAIE-14) on 9th, 10th and 11th May,2014.

Dear Students, Self confidence is the key to success. It has to be generated from within. On the way to the accomplished of your task you may face difficulty but let no difficulty weigh heavy on our mind and confidence. Disbelief in yourself of any kind makes a dent in your personality and you may be diverted from your path of success within a fraction of second. It is well known fact that we judge ourselves by what we feel capable of doing (without checking our limits), other judge us by what we have done. Once you start working towards what you want to achieve with self confidence, your life becomes enjoyable and easier. Do not forget that without confidence nothing is possible and confidence does not come all of sudden. Have confidence that if you have done a little thing well, you can do a bigger thing well too. It is your gradual progression. You alone can realize what you can do. You alone can master the art of doing things left unfinished by others. Self confidence boosts you up and propels you for fulfillment of your wish which is often called your ambition.
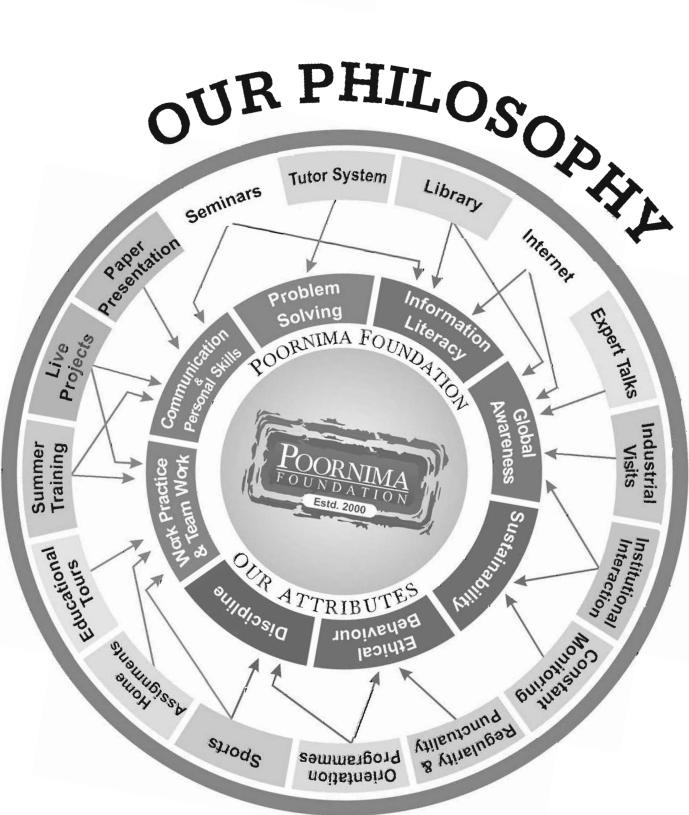
As a good human being, one should keep on doing the right things with strong effort and dedication. People will keep on finding the errors. It is easier to find error than to find truth, for the former lies on surface and is easily seen, while the latter lies in the depth, where few are willing to reach and see.

I hope that Poornima Winners-2014 will be fully educative and will help everyone to understand the mission and the vision of Poornima College of Engineering and on the top Poornima Foundation. I am sure that Poornima Winners will help every one of us to keep the Poornima Flag flying in all aspects of Life.

I extend my greetings to the team of Poornima Winners and all the stakeholders of Poornima College of Engineering, Jaipur.

JAI JAI POORNIMA SANSTHAN! JAI HIND

(Dr. Om Prakash Sharma)
Principal
Poornima College of Engineering, Jaipur

OUR PHILOSOPHY

POORNIMA FOUNDATION

POORNIMA FOUNDATION
Estd. 2000

OUR ATTRIBUTES

Tutor System
Library
Seminars
Paper Presentation
Internet
Live Projects
Expert Talks
Summer Training
Industrial Visits
Educational Tours
Institutional Interaction
Home Assignments
Constant Monitoring

Problem Solving
Information Literacy
Communication & Personal Skills
Global Awareness
Work Practice & Team Work
Sustainability
Discipline
Ethical Behaviour
Sports
Orientation Programmes
Regularity & Punctuality

PCE GOVERNING COUNCIL
Sixteenth Meeting, 2013

Twelfth Meeting of the PJF Advisory Board, 2013

THE THINK TANK OF POORNIMA FOUNDATION

PJF ADVISORY BOARD

CHAIRMAN

Padma Bhushan Shri D.R. Mehta
Former Dy. Governor, RBI and
Chairman SEBI (the chairman of the Board)

Member
Dr. Kanta Ahuja
Former VC, MDS University, Ajmer
Former President, Poornima University

Member
Mr. Indrajeet Khanna
Former Chief Secretary
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Udaipur

Member Secretary
Dr. S.M. Seth
Chairman, PJ Foundation
& Poornima Foundation
Former Director, NH Roorkee

Institutional Heads, Executives & Advisors at Poornima Foundation

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Chairman

R.K. Agarwal, IAS Retd.
Advisor

Dr. K.K.S. Bhatia
President, PU

Shashikant Singhi
Director General

Dr. R.P. Rajoria
Director, PCE

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

Dr. Manoj Gupta
Provost, PU

Prof. Ajay Bansal
Director, PIET

Hari Singh Shekhawat
Director, Infrastructure

M.K.M. Shah
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Dr. O.P. Sharma
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Renu Singhi
Advisor, Poornima Alumni Association

Dr. Mahesh Bundele
Dean, R & D

Dr. Vandana Sharma
Dean, Soft Skills

Dr. Rekha Nair
Dean, Ist Year

Meenu Sharma Saxena
Chief Training & Placement Officer

Rajeev David
Proctor-in-Chief

Ashwini Lata
Warden-in-Chief

Rahul Singhi
OSD

POORNIMA JIET EDUCATION FOUNDATION
Keystone for education, research & development

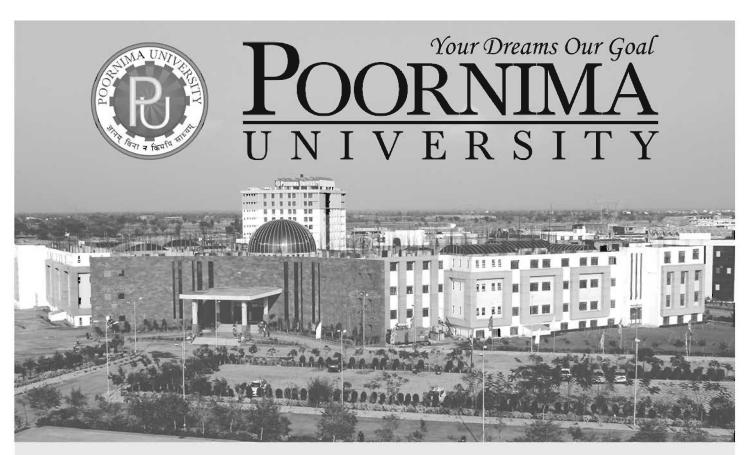Shanti Education Society & Arun Shanti Education Society established Poornima Group of Colleges (PGC) and JIET (Jodhpur Institute of Engineering & Technology) with an aim to change the weakened form of education in Indian scenario and to convert it into a successful parameter for the growth of country 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. Cash 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.
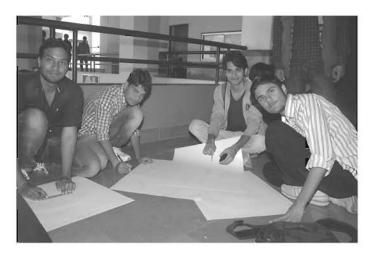
ONLINE-EXAMINATION

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
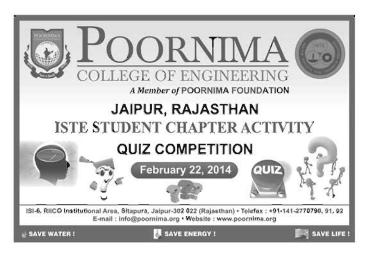
Wipro started MTLC (Mission 10x Technology Learning Centre) with the objective of empowering the employability in engineering education and to ensure the quality of young engineers. It is entirely a nonprofit initiative aiming to improve employability of young Indian engineers. The MTLC was established 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 I E E E 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)
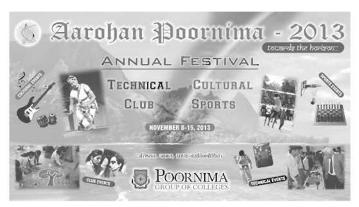
Women in Science & Engineering includes all women of PGC. It is a group which emphasizes on the overall growth of women whether it is their professional or personal life or related to safety measures. PGC does all this through the conductions of different seminars, workshops and lectures etc. This group 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
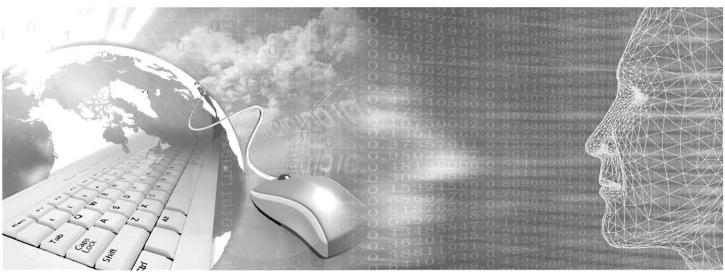
encompasses all the fields of engineering. Aarohan helps the students in excelling them in aspects of academics and non-academics activities that displays their hidden qualities and talents. This talent truly gives a rise to young technocrats from all frontiers to battle and add a jewel to the crown 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:

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.

JAI JAI POORNIMA SANSTHAN, JAI HIND, VANDE MATARAM

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

POORNIMA COLLEGE OF ENGINEERING

—Leading the technocrats towards growth & development

Engineering is the application of scientific, economic, social, and practical knowledge in order to design, build, and maintain structures, machines, devices, systems, materials and processes. PCE, a renowned technical institute of education, knowledge, research & technology, is working to educate the budding engineers leaving no stone unturned in every field. Poornima College of Engineering is a prestigious institute of higher learning & education which has been producing meritorious technocrats with excellent career growth and universal recognition since its establishment. The students get the best opportunities in the form of highly advanced courses, eminent faculty members, well-equipped laboratories, library, hostels and immense facilities to excel in research and development. The selection procedure for students at undergraduate, postgraduate and research level is highly stringent in order to choose the best brains of the society. Highly scientific and innovative technology is used for teaching and carrying out research activities. Every year PCE is enriched by the laurels brought by the faculty members and the students in the form of research publications, projects, fellowships and industrial exposure, academic & extra curricular achievements.

Main Facets of Poornima College of Engineering:

- The first establishment in the legacy of Poornima Group of Colleges working as a catalyst in field of Technical education

- A lush green & easily approachable college with latest infrastcture facilities

- Highly recognized and renowned affiliated Technical institution all over Rajasthan with built up area more than 3.5 lacs sqaure feet

- Recognised by the AICTE , Ministry of HRD, Government of India

- The most preferred NBA Accrediated Engineering College for its four branches Computer Engineering, Electronics& Communication Engineering, Electrical Engineering and Mechanical Engineering

- Fulfilling the needs of budding engineers with running of seven specilaizations of Engineering at UG Level and two at PG level

- The Only institution permitted by RTU to admit FN\PIO\Gulf students & designted as center of excellence by IBM

- An excellent instituion building its rapport in all sectors of education, rersearch and development
- Leading the morale of transparency, quality, quantity creating the high professional technocrats since its establishment
- Accreditated by National Board of Accreditation (NBA)
- More than 200 faculty members and 125 other staff members
- An anti ragging campus with most of the admission through RPET/AIEEE/JEE
- First private engineering college in Rajasthan accredited by Tata Consultancy Services (TCS) for regular campus placements
- Succesfully running the Campus Connect Program having a tie up with Infosys
- A Collaboration with University of Illinois, Chicago, USA to explore global opportunities;
- Multiple innovative learning practical based regular programs in association with IEEE, ISTE, IEE, ISLE, ISHRAE, TCS, REDHAT, MAHINDRA SATYAM, SUNSOLARIS, NASSCOM, etc
- Training the young budding engineers with corporate brands like BARC, ONGC, Nagarro, HCL, Reliance Communication, Mico, Bosch, Pyrotech, Eicher Tractors etc
- Live industrial exposure through industrial visits & live projects
- Every year getting more than 20 student projects sponsored by DST, Government of Rajasthan
- Provides In-House training on PLC, Micro-Controller, Embedded Systems, Robotics, JAVA etc
- STUDENTS cracking TOEFL, GRE, GMAT, CAT, etc every year
- Pre- job interview training through 'Poornima

- Employlibility Enhancement Mission 'program
- Quality production on every threshold imbibed with high vision & mission
- Proper buildings, equipments, facilities and supports
- Multifaceted orientation program PEEM
- A perfect platform for showcasing the hidden talent of students
- Renowned educational institute with leadership in Engineering & Technical education
- Conduction of social welfare activity from time to time
- Organize different guest lectures, seminars and workshop for knowledge enhancement
- Serving the nation through quality education in all sectors of academics & non- academics
- DELNET facility to access DELNET database through World Wide Web
- Completely WI-FI enabled campus
- An extensive library with rich collection of more than 40,000 books and other reading materials
- Equipped with digital language labs for better communication skills
- Specially designed curriculum, P-PROSKEP, for soft skills and grooming the personality of the students
- Counselling of the students to keep the morale on high scales
- Weekly online exam facility for knowledge upgrading & self-evaluation
- Non-syllabus projects & seminars for enhancement of practical knowledge of students;
- Diversified transportation facility for all the corners of Jaipur
- More than 29 International Journal, 34 National Journal & 48 Magazines in hard copy as an asset of the central library

Academic Excellence with Intake & Results

In the recent years frequent changes have occurred related to higher and technical education. The number of engineering institutions increased but PCE has always been different from other institution by adding fame and perfection to its glory by spreading quality education and giving the best RTU results ever and forever. The admission cut offs for this year also stands support of this fact.-

RPET 2013			
Branch	Start	Cut- Off	Filled\Allotted
Civil	3840	10743	63/63
CE	6872	15854	126/126
CE (II)	14234	25777	63/63
EE	3089	13561	189/189
EE (II)	7611	17015	63/63
EIC	9580	59773	63/63
EC	8762	18333	126/126
EC (II)	18385	29510	63/63
IT	17070	34611	63/63
ME	4903	11454	126/126
ME (II)	10611	14111	63/63

UNIVERSITY RESULTS

PCE believes in the performance of students focusing the essentials of education and its parameters which are required to develop the learning environment of its campus. The establishment of PCE is itself a benchmark in the field of education, research and technology. All the students of PCE get benefitted from its peculiar resources of elevated academic which gives its best at all levels of teaching, learning & implementing. PCE has proved that once we have set the objectives, we can achieve them through sincere hard work. PCE centers its all resources and policies for the academic and non- academic growth of the students by initializing the different innovative programs from time to time and concluding them with a great success. PCE focuses on progress to achieve advance knowledge and its application which is of excellent quality & impact.

The result of students has been commendable since their joining of academic session at PCE. The students have exceeded all performance expectations in respect to output, quality standards, delivery of goals, assignments & R.T.U results as well. This leads the results of students in the best form combined with quality and quantity in context of good marks. The highlights of university results of our students, which make Poornima proud, are as follows:

UNIVERSITY MAIN EXAMINATION RESULT, I SEM. SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	63	73.02	YASHWANT PANWAR	87.7
CS	185	84.86%	SALONI MEHTA	92.1
EC	184	85.33%	MONIKA VIJAY	90.1
EE	246	85.37	TRIPTI GUPTA	88.8
EIC	58	58.62	MITALI PRIYA	89.3
IT	53	87.03	KUMARI BANSIKA	87.1
ME	186	87.03	GAURAV PARMAR	91
Total	**975**	**82.65**		

UNIVERSITY MAIN EXAMINATION RESULT, II SEM. SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	63	71.43	YASHWANT RAJ PANWAR	82.6
CS	182	67.96	SALONI MEHTA	86.9
EC	180	71.67	MEENAL AGARWAL	85.9
EE	244	65.16	TRIPTI GUPTA	85.9
EIC	57	45.61	MITALI PRIYA	84.4
IT	53	58.49	NIHARIKA GUPTA	82.5
ME	181	72.22	SUMIT KUMAR SONI	85.1
Total	**960**	**67.12**		

UNIVERSITY MAIN EXAMINATION RESULT, III SEM. SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	70	60.00	DUNGAR RAM	78.80
CS	188	80.32	SHEETAL KABRA	86.60
EC	189	71.96	MANAS NYATI	82.60
EE	287	78.40	SUMAN	85.20
EIC	59	54.24	RAKESH KUMAR	80.50
IT	54	68.52	ARPANA SWARNKAR	81.00
ME	197	57.87	LOVE CHATURVEDI	88.40
Total	**1044**	**70.59**		

UNIVERSITY MAIN EXAMINATION RESULT, IV SEM. SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	68	66.18	KAMLESH TAILOR	82.00
CS	189	85.64	TRIPTI SHARMA	86.90
EC	189	68.25	SURBHI SHARMA	87.40
EE	283	82.98	SUMAN	85.90
EIC	59	59.32	PRACHI SINGHAL	83.10
IT	54	77.78	AMRITA MEHRA	84.00
ME	196	64.10	LOVE CHATURVEDI	85.20
Total	**1038**	**74.49**		

UNIVERSITY MAIN EXAMINATION RESULT, V SEM.SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CS	202	88.50	POOJA AGARWAL	86.20
EC	206	82.52	VIPUL KUMAR JAIN	87.90
EE	156	78.21	SHASHANK KAPOOR	86.20
EIC	62	69.35	PRIYANKA MODI	80.80
IT	53	67.92	ADITI AGRAWAL	85.10
ME	73	78.08	SIDDHARTH JAIN	85.10
Total	**752**	**80.67**		

UNIVERSITY MAIN EXAMINATION RESULT, VI SEM.SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CS	205	79.41	POOJA AGARWAL	82.10
EC	204	82.84	RITIKA GULATI	87.90
EE	157	87.90	GAJENDRA SINGH	84.30
EIC	61	78.69	PRIYANKA JOSHI	82.90
IT	53	81.13	NIHARIKA SUTHAR	82.60
ME	73	76.71	AJAY JANGID	81.00
Total	**753**	**81.91**		

UNIVERSITY MAIN EXAMINATION RESULT, SESSION 2011-12 (B. TECH IV YEAR-VII SEM)

Branch	Total Students	Result Pass %	Toppers	% of Marks
CS	141	90.87	KHUSHBU MATHUR	82.50
EC	137	94.89	ARTI KUMATH	88.10
EE	35	91.43	PRIYANSHI YADAV	82.40
EIC	35	77.14	CIBA MODI	82.80
IT	62	85.48	SALONI SRIVASTAVA	84.20
ME	69	68.12	AMIT PANDEY	80.90
Total	**479**	**86.85**		

UNIVERSITY MAIN EXAMINATION RESULT, VIII SEM. SESSION 2012-13

Branch	Total Students	Result Pass %	Toppers	% of Marks
CS	138	93.43	AKANKSHA AGARWAL	87.80
EC	137	94.12	SHEFALI GARG	86.90
EE	36	96.97	PAWAN KUMAR	85.90
EIC	34	96.97	CIBA MODI	86.50
IT	62	91.67	SALONI SRIVASTAVA	87.20
ME	70	81.16	AMIT SHARMA	82.90
Total	**477**	**92.09**		

AWARDS & AWARDEES *Congratulations to all performers!!*

GOLD MEDALIST (SESSION 2011-12)

S. No.	Course	Branch	Name of Student	Year	Marks Obtained/ Maximum Marks
1.	M.TECH.	CS	ANUJ BHARDWAJ	I	799/1200
2.	B.TECH.	EC	JHILMIL SHARMA	III	1705/2000
3.	B.TECH.	EC	GARIMA MISHRA	II	1733/2000
4.	B.TECH.	ME-A	BIHANI ANKIT	I	1746/2000
5.	B.TECH.	CS-A	DIVYA	I	1740/2000
6.	B.TECH.	EC-B	MANAS NYATI	I	1749/2000
7.	B.TECH.	EC-B	NIKITA AGRAWAL	I	1747/2000
8.	B.TECH.	CS-C	AYUSHI AGRAWAL	I	1783/2000
9.	B.TECH.	ME-C	LOVE CHATURVEDI	I	1773/2000

GOLD MEDALIST (SESSION 2012-13)

S. No.	Course	Branch	Name of Student	Year	Marks Obtained/ Maximum Marks
1.	B.TECH.	EC	SHEFALI GARG	IV	1731/2000
2.	B.TECH.	EC	RITIKA GULATI	III	1746/2000

SILVER MEDALIST (SESSION 2010-11)

S. No.	Course	Branch	Name of Student	Year	Marks Obtained/ Maximum Marks
1	B.TECH.	CS-A	Amrita Manzari	III	1637/2000
2	B.TECH.	CS-B	Vishakha Khandelwal	III	1613/2000
3	B.TECH.	EC-A	Arti Kumath	III	1670/2000
4	B.TECH.	EC-B	Sanskriti Gangwal	III	1677/2000
5	B.TECH.	EE	Pawan Kumar	III	1568/2000
6	B.TECH.	EIC	Vibhuti Jain	III	1612/2000
7	B.TECH.	IT	Saloni Srivastava	III	1652/2000
8	B.TECH.	ME	Amit Sharma	III	1555/2000
9	B.TECH.	CS-A	Harsha Malik	II	1721/2000
10	B.TECH.	CS-B	Shradha Gautam	II	1679/2000
11	B.TECH.	CS-C	Deepika Vaishnave	II	1667/2000
12	B.TECH.	EC-A	Pragya Arora	II	1706/2000
13	B.TECH.	EC-B	Shweta Sharma	II	1692/2000
14	B.TECH.	EC-C	Vivek Kumar Jha	II	1623/2000
15	B.TECH.	EE-A	Gajendra Singh	II	1647/2000
16	B.TECH.	EE-B	Shivani Sharma	II	1698/2000
17	B.TECH.	EIC	Priyanka Modi	II	1658/2000
18	B.TECH.	IT	Niharika Suthar	II	1645/2000
19	B.TECH.	ME	Setu Sharma	II	1594/2000

20	B.TECH.	CS-A	Aashima Bhootna	I	1679/2000
21	B.TECH.	CS-B	Sheetal Kabra	I	1655/2000
22	B.TECH.	IT-C	Arpana Swarnkar	I	1665/2000
23	B.TECH.	CE-D	Lokesh Kumar Prajapat	I	1647/2000
24	B.TECH.	ME-E	Danish Hoda	I	1716/2000
25	B.TECH.	ME-F	Tanuj Singh	I	1663/2000
26	B.TECH.	EE-G	Apurva Jain	I	1740/2000
27	B.TECH.	EE-H	Hritul Jain	I	1599/2000
28	B.TECH.	EE-I	Vartika Agarwal	I	1703/2000
29	B.TECH.	EC-J	Aishna Sudhanshu	I	1723/2000
30	B.TECH.	EC-K	Satya Prakash Gupta	I	1705/2000
31	B.TECH.	EIC-L	Preksha Salecha	I	1569/2000
32	B.TECH.	EE-M	Mrityunjay Kumar	I	1704/2000
33	B.TECH.	EC-N	Ayushi Gupta	I	1703/2000
34	B.TECH.	ME-O	Manish Kumar Agarwal	I	1692/2000
35	B.TECH.	CS-P	Tripti Sharma	I	1697/2000
Silver Medalist (SESSION 2012-13)					
36	B.TECH.	CS-A	Akanksha Agarwal	IV	1683/2000
37	B.TECH.	CS-B	Pratibha Vijayvargiya	IV	1629/2000
38	B.TECH.	EC-A	Arti Kumath	IV	1723/2000
39	B.TECH.	EC-B	Tanya	IV	1675/2000
40	B.TECH.	EE	Pawan Kumar	IV	1682/2000
41	B.TECH.	EIC	Ciba Modi	IV	1693/2000
42	B.TECH.	IT	Saloni Srivastava	IV	1714/2000
43	B.TECH.	ME	Amit Pandey	IV	1634/2000
44	B.TECH.	CS-A	Pooja Agarwal	III	1683/2000
45	B.TECH.	CS-B	Shradha Gautam	III	1645/2000
46	B.TECH.	CS-C	Neha Kaliya	III	1636/2000
47	B.TECH.	EC-A	Anshul Goyal	III	1712/2000
48	B.TECH.	EC-B	Vipul Kumar Jain	III	1718/2000
49	B.TECH.	EC-C	Shaifali Kumari Bansal	III	1629/2000
50	B.TECH.	EE-A	Kamal Bhatia	III	1686/2000
51	B.TECH.	EE-B	Parvind Agarwal	III	1688/2000
52	B.TECH.	EIC	Priyanka Modi	III	1634/2000
53	B.TECH.	IT	Ankita Kumari	III	1670/2000
54	B.TECH.	ME	Ajay Jangid	III	1653/2000
Basant Kanwar Seth Memorial Award (SESSION 2011-12)					
1	B.TECH.	CS	Ayushi Agrawal	I	1783 / 2000

A Professional Boost-up Through Felicitation

PGC always been grateful and will always be in future to actuate and galvanize the temperament of its hard working faculty members and technical staff members for giving the supreme results and therefore faculty facilitation program is conducted on Independence day and Republic every year in which awards are given to the faculty members in the form of incentive for even and odd semester respectively. The eligibility criterion for the incentive program is as follows:

- A single star [*] is awarded to a faculty member who does not fall in double star category, but is among first two performers of a class [Higher classes] or is among three performers of a class [FIRST YEAR] .

- A double star [**] is awarded to a faculty member whose university result of the theory paper taught by him/her is more than 90%.

- A three star (***) will be awarded to faculty members whose result is the accumulation of following : if 90% result or above or difficulty factor & Difficulty factor +10% & 70% in R.T.U or above.

Tripple Star (***) Faculties (Session 2012-13 Odd Sem.)

S. NO.	NAME OF FACULTY	DEPARTMENT	Designation
1	ANIL PRATAP SINGH	EE	Assistant Professor
2	ANU ARORA	MATHS	Assistant Professor
3	D.S. KUMANI	ME	Professor
4	DR. GIRIRAJ METHI	MATHS	Associate Professor
5	DR. SHILPI JIAN	MATHS (A)	Associate Professor
6	JITENDRA SINGH	EE	Assistant Professor
7	KAPIL SHARMA	EEE (B)	Assistant Professor
8	KUSHAL KUMAR GURJAR	EE	Assistant Professor
9	MANISH SHARMA	EIC	Assistant Professor
10	PANKAJ SHARMA	ME	Assistant Professor
11	RAJKUMAR VASIR	PHY.(A)	Assistant Professor
12	SHIKHA SRIVASTVA	EC	Assistant Professor
13	SUPREET KUMAR SINGH	EEE (A)	Assistant Professor
14	VAIBHAV JAIN	EE	Assistant Professor

Incentive of Session 2011-12 (Even Sem.)

S. NO.	NAME OF FACULTY	DEPARTMENT	Designation
1	Garima Angira*	1 Year (CS)	Assistant Professor
2	Prashant Kalra*	1 Year (CS)	Lecturer
3	Saurabh Mathur*	1 Year (ME)	Assistant Professor
4	Dr. Bina Rani	1 Year (CHEM.) E	Associate Professor
5	Paras Bhardwaj	1 Year (CHEM.) E	Lecturer
6	Riddhi Shrivastava	1 Year (CHEM.) E	Lecturer
7	Astha Malik	1 Year (CHEM.) M	Assistant Professor
8	Dr. Pramod Kumar Awasthi	1 Year (CHEM.) M	Assistant Professor

9	Dr. Priti Kaushik	1 Year (CHEM.) M	Associate Professor
10	Hiamnshi Goel	1 Year (CHEM.) M	Assistant Professor
11	Swati Jain	1 Year (CHEM.) M	Assistant Professor
12	Swati Singh	1 Year (CHEM.) M	Assistant Professor
13	Vedanshu Vashistha	1 Year (CHEM.) M	Lecturer
14	Sanjay Kumar Gupta*	1 Year (CS)	Assistant Professor
15	Sneha Sharma*	1 Year (CS)	Assistant Professor
16	Suresh Kumar Meena	1 Year (EE Deptt.) M	Lecturer
17	Pallavi Joshi	1 Year (EE Deptt.) E	Lecturer
18	Sugreev Choudhary*	1 Year (EEE) M & E	Technical Officer
19	Rakesh Mathur*	1 Year (EEE)-M	Technical Officer
20	Kuldip Sharma	1 Year (ENGLISH) E	Assistant Professor
21	Soni Vijayvergi	1 Year (ENGLISH) E	Assistant Professor
22	Kulsum Bano	1 Year (ENGLISH) M	Associate Professor
23	Ravindra Chouhan	1 Year (ENGLISH) M	Lecturer
24	Yashika Saxena	1 Year (ENGLISH) M	Assistant Professor
25	Akhilesh Kumar*	1 Year (ME)	Assistant Professor
26	Manoj Sharma	1 Year (ME)	Assistant Professor
27	Naveen Kumar Pandey	1 Year (ME)	Assistant Professor
28	Pankaj Pradhan*	1 Year (ME)	Lecturer
29	Pooja Puri	1 Year (ME)	Assistant Professor
30	Ram Kumar Yadav	1 Year (ME)	Lecturer
31	Samandar Singh*	1 Year (ME)	Lecturer
32	Ishwar Singh*	1 Year (PHYSICS) E	Technical Officer
33	Jaisa Ram Lohar	1 Year (PHYSICS) E	Associate Professor
34	Dr. Neeraj Jain	1 Year (PHYSICS) M	Professor
35	Krishankant Sharma	1 Year (PHYSICS) M	Assistant Professor
36	Nagendra Agarwal*	1 Year (PHYSICS) M	Technical Officer
37	Neha Tiwari	1 Year (PHYSICS) M	Lecturer
38	Preeti Yadav	1 Year (PHYSICS) M	Lecturer
39	Rajkumar Vasir	1 Year (PHYSICS) M	Assistant Professor
40	Shourya Gurusharan	1 Year (PHYSICS) M	Assistant Professor
41	Abhishek Jain	CS	Assistant Professor
42	Ajay Khunteta	CS	Professor
43	Amol Saxena	CS	Associate Professor
44	Deepak Baberwal	CS	Assistant Professor
45	Devendra Gupta	CS	Associate Professor
46	Indrajeet Kumar Kaper	CS	Lecturer
47	Krutibash Nayak	CS	Assistant Professor
48	Manish Kumar Sharma	CS	Assistant Professor
49	Neha Jhunjhunuwala	CS	Assistant Professor

50	Nidhi Gupta	CS	Assistant Professor
51	Ranjeeta Bhargava	CS	Assistant Professor
52	Sapna Dargar	CS	Assistant Professor
53	Shirish Nagar	CS	Assistant Professor
54	Sunali Sharma*	CS	Technical Officer
55	Sunil Gupta	CS	Associate Professor
56	Rishi Kumar Jalwal*	CS (ON Line Lab)	Technical Officer
57	Amit Kumar Jain	EC	Lecturer
58	Amit Kumar Prajapati	EC	Assistant Professor
59	Amit Kumar Sharma	EC	Lecturer
60	Bhoopesh Kumar Kumawat	EC	Associate Professor
61	Deepak Paliwal	EC	Lecturer
62	Manish Singhal	EC	Associate Professor
63	Manisha Kumawat	EC	Assistant Professor
64	Megha Bansal	EC	Assistant Professor
65	Monika Surana	EC	Assistant Professor
66	Praveen Agarwal	EC	Lecturer
67	Shikha Srivastava	EC	Assistant Professor
68	Bharat Lal Mali	EE	Assistant Professor
69	Harbeer Singh*	EE	Assistant Professor
70	Neha Jain	EE	Lecturer
71	S.P. Srivastava	EE	Assistant Professor
72	Shivraj Sharma	EE	Assistant Professor
73	Smriti Sachan	EE	Assistant Professor
74	Brijraj Singh	EIC	Assistant Professor
75	Dinesh Kumar Sharma	EIC	Assistant Professor
76	Priti	EIC	Lecturer
77	Rakesh Kumar Goyal*	EIC	Assistant Professor
78	Sandeep Gupta	EIC	Lecturer
79	Archana Phutela	IT	Lecturer
80	Piyusha Tiwari	IT	Lecturer
81	Rahul Gupta	IT	Lecturer
82	Gopal Krushna Panda	MATHS	Associate Professor
83	Himanshu Rathore	MATHS	Assistant Professor
84	Meenakshi Nawal	MATHS	Assistant Professor
85	Neha Gupta	MATHS	Lecturer
86	Rakesh Kumar Bohra	MATHS	Assistant Professor
87	Sunil Kumar Yadav	MATHS	Lecturer
88	Deepak Kumar	ME	Associate Professor
89	Ram Murari Sharma*	ME	Technical Officer
90	Sonu Kumar Singhal	ME	Lecturer

91	Teena Rajawat	ME	Lecturer
92	Ved Prakash	ME	Assistant Professor
93	Daneshwar Sharma*	P-PROSKEP	Assistant Professor
94	Mansih Singal	P-PROSKEP	Lecturer
95	Pratibha Sisodia*	P-PROSKEP	Associate Professor

Incentive of Session 2012-13 (ODD Sem.)

S. NO.	NAME OF FACULTY	DEPARTMENT	Designation
1	DEEPIKA SHARMA	CHEM (A)	Assistant Professor
2	HIMANSHI GOEL	CHEM (A)	Assistant Professor
3	PARAS BHARDWAJ	CHEM (A)	Assistant Professor
4	SWATI JAIN	CHEM (A)	Assistant Professor
5	ASTHA MALIK	CHEM (B)	Assistant Professor
6	KAMOD BHATI	CHEM (B)	Assistant Professor
7	PRAMOD KR. AWASTHI	CHEM (B)	Associate Professor
8	SAMA JAIN	CHEM (B)	Associate Professor
9	BINA RANI	CHEM (C)	Associate Professor
10	MEENA TEKRIWAL	CHEM (C)	Assistant Professor
11	RIDDHI SRIVASTVA	CHEM (C)	Assistant Professor

12	SWATI SINGH	CHEM (C)	Assistant Professor
13	JAGENDRA SINGH	CIVIL	Assistant Professor
14	*RISHI KUMAR JALWAL	CS	Technical Officer
15	ABHISHEK JAIN	CS	Assistant Professor
16	AJAY KHUNTETA	CS	Associate Professor
17	AMOL SAXENA	CS	Associate Professor
18	DEEPAK BABERWAL	CS	Assistant Professor
19	DEVENDRA GUPTA	CS	Associate Professor
20	GANPAT SINGH CHAUHAN	CS	Associate Professor
21	INDRAJEET KAPAR	CS	Assistant Professor
22	KRUTIBHAS NAYAK	CS	Assistant Professor
23	MAHESH BUNDELE	CS	Professor
24	MANISH KUMAR SHARMA	CS	Assistant Professor
25	Md.NAWAID ANJUM	CS	Assistant Professor
26	NEHA	CS	Assistant Professor
27	NIDHI GUPTA	CS	Assistant Professor
28	RAJAT GOYAL	CS	Assistant Professor
29	RAKESH KUMAR JANGID	CS	Assistant Professor
30	RANJEETA BHARGAVA	CS	Assistant Professor
31	SANGEETA KORANI	CS	Assistant Professor
32	SAPNA DARGAN	CS	Assistant Professor
33	SHAKSHI MISHRA	CS	Assistant Professor
34	SUNALI SHARMA	CS	Assistant Professor
35	TARUN MEHTA	CS	Assistant Professor
36	*SNEHA SHARMA	CS/IT (A)	Assistant Professor
37	*SUNIL GUPTA	CS/IT (A)	Associate Professor
38	*SANJAY KUMAR GUPTA	CS/IT (B)	Assistant Professor
39	*GARIMA ANGIRA	CS/IT (C)	Assistant Professor
40	*PRASHANT KALRA	CS/IT (C)	Assistant Professor
41	AMIT KUMAR PRAJAPATI	EC	Assistant Professor
42	AMIT KUMAR JAIN	EC	Assistant Professor
43	AMIT KUMAR SHARMA	EC	Assistant Professor
44	DEEPAK SHARMA	EC	Assistant Professor
45	DINESH KUMAR SHARMA	EC	Assistant Professor
46	GAURAV SAXENA	EC	Assistant Professor
47	GAURAV SONI	EC	Assistant Professor
48	MANISHA KUMAWAT	EC	Assistant Professor
49	MONIKA SURANA	EC	Assistant Professor
50	PRAVEEN AGARWAL	EC	Assistant Professor
51	RENUKA PAREEK	EC	Assistant Professor
52	SANDEEP GUPTA	EC	Assistant Professor

53	SHIKHA SRIVASTAVA	EC	Assistant Professor
54	SMRITI SACHAN	EC	Assistant Professor
55	TARUN MISHRA	EC	Assistant Professor
56	VIKAS MISHRA	EC	Assistant Professor
57	*HARBEER SINGH	EE	Assistant Professor
58	ANAMIKA SATRAWALA	EE	Assistant Professor
59	ANIL PRATAP SINGH	EE	Assistant Professor
60	ASHISH KHAR	EE	Assistant Professor
61	JITENDRA SINGH	EE	Assistant Professor
62	KUSHAL KUMAR GURJAR	EE	Assistant Professor
63	NEELAM GUPTA	EE	Assistant Professor
64	NEHA JAIN	EE	Assistant Professor
65	SHIVRAJ SHARMA	EE	Assistant Professor
66	SUMAN AGARWAL	EE	Assistant Professor
67	TRILOK CHAND SONI	EE	Assistant Professor
68	VAIBHAV JAIN	EE	Assistant Professor
69	*SUGREEV CHOUDAHRY	EEE (A)	Technical Officer
70	NITIN GOEL	EEE (A)	Assistant Professor
71	SUPREET KUMAR SINGH	EEE (A)	Assistant Professor
72	KAPIL SHARMA	EEE (B)	Assistant Professor
73	SWATI JAIN	EEE (B)	Assistant Professor
74	UMA RAJCHANDANI	EEE (B)	Assistant Professor
75	KAVITA KUNTAL	EEE (C)	Lecturer
76	PALLAVI JOSHI	EEE (C)	Assistant Professor
77	PRITAM KUMAR ROY	EEE (C)	Lecturer
78	SHIKHA SHARMA	EEE (C)	Assistant Professor
79	BRIJRAJ SINGH	EIC	Assistant Professor
80	JOGENDRA CHOUDAHRY	EIC	Assistant Professor
81	MANISH SHARMA	EIC	Assistant Professor
82	PRITI SINGH	EIC	Assistant Professor
83	RAKESH KUMAR GOYAL	EIC	Assistant Professor
84	RENU GUPTA	EIC	Assistant Professor
85	KULSUM BANO	ENGLISH (A)	Associate Professor
86	PRATIBHA SISODIA	ENGLISH (B)	Assistant Professor
87	PUNIT SHUKLA	ENGLISH (B)	Assistant Professor
88	YASHIKA SAXENA	ENGLISH (B)	Assistant Professor
89	KULDIP SHARMA	ENGLISH (C)	Assistant Professor
90	SONI VIJAYVERGIYA	ENGLISH (C)	Assistant Professor
91	DINESH CHAND GUPTA	IT	Assistant Professor
92	PIYUSHA	IT	Assistant Professor
93	SAURABH ANAND	IT	Assistant Professor

94	SHAZIA HAQUE	IT	Assistant Professor
95	SHIRISH NAGAR	IT	Assistant Professor
96	ANU ARORA	MATHS	Assistant Professor
97	GIRIRAJ METHI	MATHS	Associate Professor
98	GOPAL KRISHAN PANDA	MATHS	Associate Professor
99	HIMANSHU RATHORE	MATHS	Assistant Professor
100	MEENAKSHI	MATHS	Assistant Professor
101	RAKESH BOHARA	MATHS	Assistant Professor
102	SHILPI JAIN	MATHS	Associate Professor
103	SHUCHI DAVE	MATHS	Associate Professor
104	SUNIL KUMAR YADAV	MATHS	Assistant Professor
105	VANDANA JAIN	MATHS	Assistant Professor
106	*RAM MURARI SHARMA	ME	Technical Officer
107	AMIT KUMAR JHA	ME	Assistant Professor
108	DEEPAK KUMAR	ME	Associate Professor
109	DEVI SINGH KUMANI	ME	Professor
110	DHANANJAY KUMAR	ME	Assistant Professor
111	KALPIT JAIN	ME	Assistant Professor
112	KRISHAN PUROHIT	ME	Assistant Professor
113	PANKAJ SHARMA	ME	Assistant Professor
114	PRAMOD KUMAR JANGID	ME	Assistant Professor
115	SHAILENDRA KASERA	ME	Assistant Professor
116	*LOKESH SHARMA	ME (A)	Technical Officer
117	*RAKESH MATHUR	ME (A)	Technical Officer
118	*PANKAJ PRADHAN	ME (B)	Lecturer
119	*POOJA PURI	ME (B)	Assistant Professor
120	*GHAN SHYAM YADAV	ME (C)	Assistant Professor
121	*PRAMOD KUMAR JANGIR	ME (C)	Assistant Professor
122	*NAGENDRA AGARWAL	PHY.(A)	Technical Officer
123	RAJKUMAR	PHY.(A)	Assistant Professor
124	JITENDRA K. MISHRA	PHY.(B)	Assistant Professor
125	NEERAJ JAIN	PHY.(B)	Associate Professor
126	PREETI YADAV	PHY.(B)	Assistant Professor
127	SHOURYA GURUSHARAN	PHY.(B)	Assistant Professor
128	KRISHAN KANT SHARMA	PHY.(C)	Lecturer
129	PRIYANKA JAIN	PHY.(C)	Assistant Professor
130	*ASHA ACHARYA	P-PROSKEP	Assistant Professor
131	*DANESHWAR SHARMA	P-PROSKEP	Assistant Professor
132	*HAMID UZZAMA KHAN	P-PROSKEP	Assistant Professor
133	*KIRTI RAJPAL	P-PROSKEP	Assistant Professor
134	*MANISH SINGAL	P-PROSKEP	Assistant Professor

Poornima Proud

Outstanding Academicians

Yashwant Panwar (CIVIL) 87.7%

Saloni Mehta (CS) 92.1%

Monika Vijay (EC) 90.1%

Tripti Gupta (EE) 88.8%

Mitali Priya (EIC) 89.3%

Gaurav Parmar (ME) 91%

Kumari Bansika (IT) 87.1%

MITALI PRIYA (EIC) 84.4%

YASHWANT RAJ PANWAR (CIVIL) 82.6%

SALONI MEHTA (CS) 86.9%

SUMIT KUMAR SONI (ME) 85.1%

MEENAL AGARWAL (EC) 85.9%

TRIPTI GUPTA (EE) 85.9%

NIHARIKA GUPTA (IT) 82.5%

DUNGAR RAM (CIVIL) 78.80%

SHEETAL KABRA (CS) 86.60%

MANAS NYATI (EC) 82.60%

SUMAN (EE) 85.20%

RAKESH KUMAR (EIC) 80.50%

ARPANA SWARNKAR (IT) 81.00%

LOVE CHATURVEDI (ME) 88.40%

KAMLESH TAILOR (CIVIL) 82.00%

TRIPTI SHARMA (CS) 86.90%

SURBHI SHARMA (EC) 87.40%

SUMAN (EE) 85.90%

PRACHI SINGHAL (EIC) 83.10%

AMRITA MEHRA
(IT) 84.00%

LOVE CHATURVEDI
(ME) 85.20%

V SEM
Session : 2012-13

POOJA AGARWAL
(CS) 86.20%

VIPUL KUMAR JAIN
(EC) 87.90%

SHASHANK KAPOOR
(EE) 86.20%

PRIYANKA MODI
(EIC) 80.80%

ADITI AGRAWAL
(IT) 85.10%

SIDDHARTH JAIN
(ME) 85.10%

VI SEM
Session : 2012-13

NIHARIKA SUTHAR
(IT) 82.60%

POOJA AGARWAL
(CS) 82.10%

RITIKA GULATI
(EC) 87.90%

AJAY JANGID
(ME) 81.00%

GAJENDRA SINGH
(EE) 84.30%

PRIYANKA JOSHI
(EIC) 82.90%

VII SEM
Session : 2011-12

KHUSHBU MATHUR
(CS) 82.50%

ARTI KUMATH
(EC) 88.10%

PRIYANSHI YADAV
(EE) 82.40%

CIBA MODI
(EIC) 82.80%

SALONI SRIVASTAVA
(IT) 84.20%

AMIT PANDEY
(ME) 80.90%

Session : 2012-13
VIII SEM

AKANKSHA AGARWAL
(CS) 87.80%

SHEFALI GARG
(EC) 86.90%

PAWAN KUMAR
(EE) 85.90%

CIBA MODI
(EIC) 86.50%

SALONI SRIVASTAVA
(IT) 87.20%

AMIT SHARMA
(ME) 82.90%

Poornima Proud

Congratulations

First Merit in Bachelor of Technology (Computer Science & Engineering, 2012)

Gold Medalist

ANUJ BHARDWAJ
(M.TECH) CS-I YEAR
66.58%

AYUSHI AGRAWAL
(B.TECH) CS-I YEAR
89.15%

DIVYA
(B.TECH) CS-I YEAR
87.00%

MANAS NYATI
(B.TECH) EC-I YEAR
87.45%

NIKITA AGRAWAL
(B.TECH) EC-I YEAR
87.35%

BIHANI ANKIT
(B.TECH) ME-I YEAR
87.30%

LOVE CHATURVEDI
(B.TECH) ME-I YEAR
88.65%

GARIMA MISHRA
(B.TECH) EC-II YEAR
86.65%

JHILMIL SHARMA
(B.TECH) EC-III YEAR
85.25%
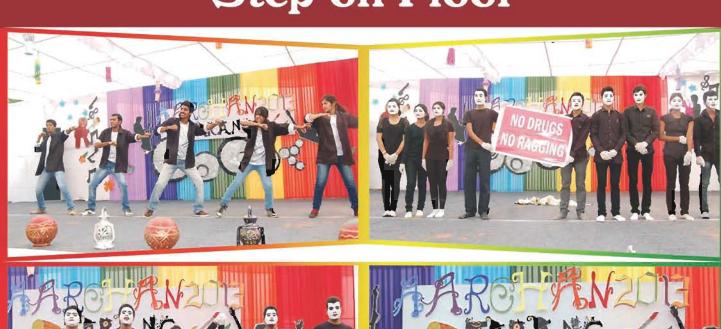
RITIKA GULATI
(B.TECH) EC-III YEAR
87.30%

SHEFALI GARG
(B.TECH) EC-IV YEAR
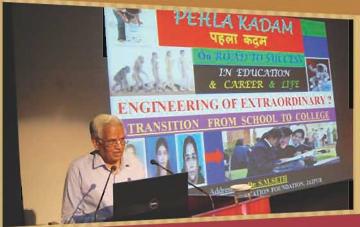86.55%

Step on Floor
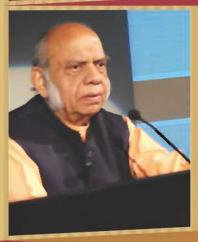
Colourful Reminiscences

Colourful Reminiscences

THRUST AREAS 2014-2015

Poornima Group of Colleges has made strategic plan to accomplish its mission- vision 2013-2014.The planning has been done for the growth of students, faculties, infrastructure, placements, research & development.

STUDENTS:

- Recognition
- Activity
- Clubs & forums
- Tutor system
- Mentor System
- Value Addition
- Essentials of Management for Engineers
- Home assignments
- Labs & Tutorials
- Classroom Teaching
- Self-Help Groups
- P-Proskep Cell
- Group Mail System
- Tutorial work Group System
- Special Lectures
- Seminars & Projects
- Career Counseling
- Psychological counselling
- Industrial Visit & Tours
- International/National Conferences
- Online Eligibility Test
- Extra Support Classes
- Students Faculty Excahange Program
- Campus Recruitment Training
- Open Book Test
- Internet-Library-Writing skills

FACULTY

- Recognition
- Self Assessment
- Higher Studies
- Industry Interface
- Mentoring by Seniors
- Internet based Upgradation
- Pre/Post Lecture Delivery Preparation
- PGC Planning of Teaching Program
- Orientation/ Training Program

- DELNET
- Dresscode
- WISE
- International/National Conferences
- Workshops/ Seminars
- Publication Incentives
- ISTE/ISLE/NEN Membership
- Centralized Academic administration
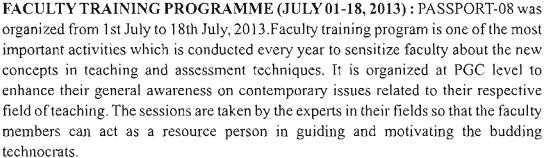
INFRASTRUCTURE

- Digital Language Lab
- Book Bank & Nucleus library
- Organized library & Display
- Best Practice Labs
- Internet Labs with WI-FI
- Centralized Management
- Information System
- Efficient Physical Facilities
- Best Transportation
- Phased Development of Infrastructure
- Adequate Hostels

RESEARCH & PLACEMENT

- Competition
- In House Training
- Industrial Visit
- Centralized Campus
- Consistent Placements
- Live Industry Interface
- Exclusive Platform for NASSCOM Activities
- Essentials of Management for Engineers
- Allumni Cell
- Research Digest
- P-Proskep Cell
- Exchange Program (National / International)
- R & D Cell
- Entrepreneur Development Cell

EVENTS & HAPPENINGS at PCE

FACULTY TRAINING PROGRAMME (JULY 01-18, 2013) : PASSPORT-08 was organized from 1st July to 18th July, 2013.Faculty training program is one of the most important activities which is conducted every year to sensitize faculty about the new concepts in teaching and assessment techniques. It is organized at PGC level to enhance their general awareness on contemporary issues related to their respective field of teaching. The sessions are taken by the experts in their fields so that the faculty members can act as a resource person in guiding and motivating the budding technocrats.

TRAINING FOR LIBRARIAN AND LIBRARY STAFF (JULY 11-13, 2013) :A training program was organized for Librarian and Library Staff from July 11 to 13, 2013. The topic for training program was "Library Extension Services and Security". More than forty faculty and students participated in the training program. The aim of the training program was to encourage reading, to convert non reader into readers, to create and stimulate the desire for good reading and to make maximum use of library resources.

ORIENTATION PROGRAMME (JULY 29-AUGUST 10, 2013) : The orientation program, the legacy of our esteemed organization was successfully celebrated for two weeks. The session started on 29th July, 2013.This sacred tradition helps the students to acclimatize themselves to the new environment and to familiarize them with the culture and the working system of the organization. The faculty members prepared different lectures of acute importance. The registration of the students was done under the guidance of tutor and the supporting tutor of the respective classes. The inaugural function "Pehla Kadam" was celebrated on the First of August with all vibrant and enthusiastic faces. They were constructively guided and motivated by the brain-magnets and the dignified dignitaries. AIEEE/RPET merit holders were awarded by Dr R.P Rajoria Campus Director PCE. Students were very happy to receive the awards on the very first function in the college.

73rd DEATH ANNIVERSARY OF SHRI RABINDRANATH TAGORE (AUGUST 07, 2013): To give a tribute to Sh. Rabindranath Tagore on his 73rd death anniversary, the department of 1st year organized one hour activity on 7th August, 2013. During this Activity many students gave speeches, recited poems, songs etc. At the end of the activity, all the students sang our National Anthem to show reverence to Sh. Rabindranath Tagore.

INTERNATIONAL YOUTH DAY (AUGUST 12, 2013) : First Year Group B, PCE celebrated International Youth Day on 12th August, 2013. A Poster making competition was conducted to motivate the budding technocrats of our college so that they can do wonders in the field of technology and also to make them realize their potential. The topic of Poster was "Role of Youth in Technology". Students of all the section of group B actively participated. The competition was judged by our Honorable Principal Dr O.P Sharma. His gracious presence boosted up the morale of the students and they also learnt many things from principal sir's valuable guidance.

NATIONAL SPORTS DAY (AUGUST 12,2013) : National Sports Day was celebrated in first year as Sports play a pivotal role in the makeup of a young athlete. It is rightly said that "A healthy brain resides in a healthy body" therefore it is very important for youth to exercise and make themselves fit for performing well in every field To make the students aware about sports and its importance, sports such as Chess competition and Tug of War were organized to motivate the budding technocrats of our college. Students of first year actively participated and enjoyed the day.

INDEPENDENCE DAY CELEBRATION (AUGUST 15, 2013) : The Independence Day was celebrated on 15th August with full zeal and enthusiasm. This day, after hosting of the national flag, everyone saluted and remembered the heroic deeds of all freedom fighters. March past was conducted with great patriotism and vehemence by the students. The students filled the air of arbuda convention centre with patriotism by singing and performing on various patriotic songs. The faculty members were also applauded during the celebration for giving 90% result in their respective subjects.

INTERNATIONAL PHOTOGRAPHY(AUGUST 19,2013) : The Photography Day was celebrated in I year. A presentation competition was organized in which the participants were asked to give presentations on original photographs on the theme- 'Nature, The Aesthetic Beauty'. The students felt highly motivated in the enlightening appearance and guidance of Dr. Rekha Nair, Dean 1st year PGC. Fourteen students participated in the event and it was judged by Honorable Ms. Shazia Haque, Associate Professor, IT department and Mr. Rakesh Mathur, Mechanical.

TEACHER'S DAY CELEBRATION (SEPTEMBER 05, 2013) : As the teachers are reigns of the academic scenario, so to pay gratitude Teachers Day was celebrated on September 5, 2013. Highly excitement was being observed among the students. To make this day memorable the college organized quiz competition and Essay writing on the topic "The Teacher as a nation Builder."The students were also asked to tell something about their favorite teacher. Students enthusiastically grabbed this opportunity and shared their experiences with their teacher in the class. Some students recited poem also to show their gratitude towards their teacher.

WORLD LITERARY DAY (SEPTEMBER 09, 2013) : To enhance the vocabulary and writing skills among the students, Spell Bee and Précis writing Competitions on "World Literary Day "was organized . An active participation was observed among the students. A set of 50 questions based on leveled spellings and one question to be précised was provided. Some students were also asked to prepare charts of the words which they find difficult.

WORKSHOP FOR DEBATERS (SEPTEMBER 09, 2013) : One day workshop for debaters was organized at Arbuda Convention Center. The short listed students on the basis of intra college debate competition were asked to attend the workshop to hone their debating skills. Dr Needhendra Dwivedi spared his valuable time to explain the do's and don'ts of debate competition to our students.

ENGINEERS' DAY CELEBRATION (SEPTEMBER 15, 2013) : In remembrance of Sir Mokshagundam

Visvesvaraya, the most outstanding Engineer of all times, the Engineering fraternity of India celebrates "World Engineers Day" every year on 15th of September. It was this day 147 years ago that this great contributor to Growth and engineering was born. Every year the College celebrates Engineers day to pay homage and acknowledge such a great personality of India. On this very special day "MANTHAN" an inter college debate competition was organized at Arbuda Convention Center. The topic for debate was "India can be a global leader by 2020". Students from 40 different colleges & universities were invited and 26 teams actively participated in the event. It was decided to give cash prize of Rs. 5100/- for winner team Rs. 3500/- for first runner up and Rs. 2500/- for second runner up team.

TRAINING PROGRAM FOR POORNIMA GAAN (SEPTEMBER 20,2013) : The promote and carry forward the belief and philosophy of Poornima Group, an orientation and training Program for Poornima Gaan was organized by PGC at Arbuda Convention Centre. Selected students participated in the activity and learnt the correct rhyme and rhythm of Poornima Gaan.

KALANIDHI (OCTOBER 02, 2013) : Annual prize distribution celebration ceremony was conducted in Arbuda Convention Center. In this event the best performer students who comes out with flying colors in the RTU exams are awarded. The students eagerly wait for this day as it fills their heart with the feeling of pride when their names are called out for the prize. Not only engineering students but also management students were awarded under 35 categories of Best Student Award, Best Hostler Award, Best Attendance Award ,Best Seminar Award etc.

HINDI VAD -VIVAD PRATIYOGITA (OCTOBER 12, 2013) : Hindi Vad- Vivad Pratiyogita on the topic "Pashchatya Sanskriti Ka Anukaran Rashtra Vikas Ke Liye Aavshayk hai" was organised to make the students fluent in speaking their mother tongue. 35 teams participated & Three top winners were given away the prizes in I, II & III ranks from PCE campus.

WORLD POSTAL DAY(OCTOBER 09,2013) : "World Postal day" was celebrated on Oct. 9, 2014 & the Students participated in All India Essay Writing Competition. The topic for participation was "Letter to an athlete".

AAROHAN POORNIMA'13 (NOVEMBER 08 –NOVEMBER 15, 2013) : AAROHAN is Annual Tech-Cult-Sports Fest which is organized for a week in which students get a chance to display their creativity and talent . In this fest various activities technical , cultural and sports were organized to provide a recreational environment for balanced growth of personality along with the busy and hectic academics and study schedule. 197 Students of PCE campus were awarded with prizes for various events under different categories as per their performance. The list of prizes and winners is as follows:

FINAL PRIZE LIST OF AAROHAN POORNIMA'13

S.NO.	STUDENT NAME	YEAR	BRANCH	EVENT NAME	PRIZE
1	HARDIK PATEL	I	CIVIL	SUDOKU	WINNER
2	ANEESH RASTOGI	I	CS	BANNER DESIGN & PRODUCT BROCHURE	RUNNER UP
3	ANJALI SONI	I	CS	BANNER DESIGN & PRODUCT BROCHURE	RUNNER UP
4	ALISHA KHAN	I	CS	BASKETBALL	RUNNER UP
5	ISAHAN ARORA	I	CS	BANNER DESIGN & PRODUCT BROCHURE	RUNNER UP
6	KRITI GOYAL	I	CS	BANNER DESIGN & PRODUCT BROCHURE	RUNNER UP
8	TRIPTI JAISWAL	I	CS	SALAD ART	RUNNER UP
9	VRINDA AGARWAL	I	CS	WEB PAGE MODELING	RUNNER UP
10	VRINDHA AGARWAL	I	CS	SALAD ART	RUNNER UP
11	ADITI JAIN	I	ECE	BASKETBALL	RUNNER UP
12	ARADHANA BHARDWAJ	I	ECE	PHOTOGRAPHY CHALLENGE	RUNNER UP
13	ARUN KUMAR	I	ECE	BASKETBALL	RUNNER UP
14	CHOUDHARY MUNESH	I	ECE	4*100 METER RELAY	RUNNER UP
15	CHOUDHARY MUNISH KUMAR	I	ECE	800 METER RACE	WINNER
16	DEEPIKA PRAKASH	I	ECE	MIME	RUNNER UP
17	GARVIT	I	ECE	DUET SONG	RUNNER UP
18	GARVIT SHARMA	I	ECE	MIME	RUNNER UP
19	KARTIKA SINGH	I	ECE	MIME	RUNNER UP
20	KARTKA SINGH	I	ECE	BASKETBALL	RUNNER UP
21	NARAYAN SINGH RATHORE	I	ECE	4*100 METER RELAY	RUNNER UP
22	RASHMI KUMAWAT	I	ECE	FACE PAINTING	WINNER
23	ROHIT ARORA	I	ECE	BASKETBALL	RUNNER UP
24	SHOUMYA DIWEDI	I	ECE	DUET SONG	RUNNER UP
25	SIMRAN ROHILLA	I	ECE	SOLO CLASSICAL DANCE	RUNNER UP
26	VAISHALI JAIN	I	ECE	CROSSWORD	WINNER
27	VAISHALI JAIN	I	ECE	MIME	RUNNER UP
28	VARTIKA SRIVASTAVA	I	ECE	MIME	RUNNER UP
29	VINAYAK MISRA	I	ECE	BASKETBALL	RUNNER UP
30	GARIMA BIYANI	I	EE	BASKETBALL	RUNNER UP
31	SHILPA DANDODIA	I	EE	BASKETBALL	RUNNER UP
32	SURBHI GUPTA	I	EE	BASKETBALL	RUNNER UP
33	VANDNA NUNIA	I	EE	400 METER RACE	RUNNER UP
34	VANDNA NUNIA	I	EE	BASKETBALL	RUNNER UP
35	AAYSHI	I	EIC	FACE PAINTING	WINNER
36	AISHWARYA LODHA	I	EIC	BEST OUT OF WASTE	RUNNER UP
37	KM PRAGATI	I	EIC	BASKETBALL	RUNNER UP
38	BHAVYA	I	IT	BASKETBALL	RUNNER UP
39	BHUMIKA SANI	I	IT	BASKETBALL	RUNNER UP
40	ADITYA PAREEK	I	ME	4*100 METER RELAY	RUNNER UP
41	AMANDEEP SINGH	I	ME	BASKETBALL	RUNNER UP
42	GAUTAM JHA	I	ME	MIME	RUNNER UP
43	KAILASH	I	ME	MIME	RUNNER UP

44	KUSHAGRA JAIN	I	ME	BASKETBALL	RUNNER UP
45	SAURABH KUMAR SHEKHAR	I	ME	4*100 METER RELAY	RUNNER UP
46	SHARAD GUPTA	I	ME	MIME	RUNNER UP
47	SHUBHAM DADHICH	I	ME	BASKETBALL	RUNNER UP
48	SHWETANK VATS	I	ME	BASKETBALL	RUNNER UP
49	SIDDHARTH GIDWANI	I	ME	BASKETBALL	RUNNER UP
50	SOURABH KUMAR	I	ME	BASKETBALL	RUNNER UP
51	SOURABH SHEKHAR	I	ME	BASKETBALL	RUNNER UP
52	SURYA PRAKASH	I	ME	MIME	RUNNER UP
53	VISHVENDRA SINGH	I	ME	CARROM	WINNER
54	SACHIN BALAHEDI	II	CS	EXTEMPORE (HINDI)	RUNNER UP
55	ABHILASH CHIPPA	III	CS	ADVERTISEMENT DESIGN	WINNER
56	ABHISHEK JHA	III	CS	ADVERTISEMENT DESIGN	WINNER
57	ANKITA BISHWAS	III	CS	BEST OUT OF WASTE	WINNER
58	ANKUR GUPTA	III	CS	ADVERTISEMENT DESIGN	WINNER
59	ANSHUL GUPTA	III	CS	DODGE BALL	WINNER
60	ARCHANA GUPTA	III	CS	BEST OUT OF WASTE	WINNER
61	ARPIT ARORA	III	CS	DODGE BALL	WINNER
62	ARSH BHAGAT	III	CS	DODGE BALL	WINNER
63	ASHISH KUMAR	III	CS	DODGE BALL	WINNER
64	ASHISH SONI	III	CS	BEST OUT OF WASTE	WINNER
65	BHARAT KOTHARI	III	CS	TREASURE HUNT	WINNER
66	DEEPTI UPADYAYA	III	CS	ADVERTISEMENT DESIGN	RUNNER UP
67	DIPAK SHARMA	III	CS	TREASURE HUNT	WINNER
68	DIVYENDU SAXENA	III	CS	DODGE BALL	WINNER
69	GAGANDER KUSHWAHA	III	CS	TREASURE HUNT	WINNER
70	HARSHITA SHARMA	III	CS	ADVERTISEMENT DESIGN	WINNER
71	PALAK ABROL	III	CS	ADVERTISEMENT DESIGN	RUNNER UP
72	PARAS JAIN	III	CS	PROGRAMMING CHALLENGE	WINNER
73	PIYUSH SHARMA	III	CS	AAROHAN NEWSPAPER DESIGN	WINNER
74	PRASHANT UPADHYAY	III	CS	TABLE TENNIS	WINNER
75	PRATEEK SINGH CHOUHAN	III	CS	AAROHAN NEWSPAPER DESIGN	WINNER
76	PREETI SHARMA	III	CS	SPELL BEE	WINNER
77	RAJAT JAIN	III	CS	DODGE BALL	WINNER
78	REKHA KHATRI	III	CS	AAROHAN NEWSPAPER DESIGN	WINNER
79	SAMBHAV AGARWAL	III	CS	AAROHAN NEWSPAPER DESIGN	WINNER
80	SAMRIDHI	III	CS	VOLLEYBALL	WINNER
81	SHIVAM KHANDELWAL	III	CS	AAROHAN NEWSPAPER DESIGN	WINNER
82	SHUBHAM SHARMA	III	CS	DODGE BALL	WINNER
83	SUGANDHA PAREEK	III	CS	ADVERTISEMENT DESIGN	RUNNER UP
84	SURBHI GUPTA	III	CS	ADVERTISEMENT DESIGN	RUNNER UP
85	UMESH KHANDELWAL	III	CS	DODGE BALL	WINNER
86	YOGESH SINGH CHOUHAN	III	CS	AAROHAN NEWSPAPER DESIGN	WINNER
87	SAURABH PALIWAL	IV	CS	ME AGAINST MYSELF	RUNNER UP

88	SOURABH PALIWAL	IV	CS	EXTEMPORE (HINDI)	WINNER
89	SURBHI OJHA	IV	CS	SALAD ART	WINNER
90	VARTIKA	IV	CS	SALAD ART	WINNER
91	YOGESH CHATURVEDI	IV	CS	CRACK THE CODE	WINNER
92	ANANYA PAREEK	II	ECE	LONG JUMP	RUNNER UP
93	ARPIT MATHUR	II	ECE	CROSSWORD	RUNNER UP
94	DAKSHYA SINGH	II	ECE	200 METER RACE	RUNNER UP
95	HEMAKSHI	II	ECE	DUET SONG	WINNER
96	KING RAM	II	ECE	DUET SONG	WINNER
97	KING RAM SINGH	II	ECE	BASKETBALL	WINNER
98	MANILA JUGGAM	II	ECE	TABLE TENNIS	RUNNER UP
99	NIKHIL SHARMA	II	ECE	BASKETBALL	WINNER
100	SHASHANK ARORA	II	ECE	BASKETBALL	WINNER
101	SUMIT SINGH BHANDARI	II	ECE	BASKETBALL	WINNER
102	BEENA TAILOR	III	ECE	HEENA CREATION	WINNER
103	DAKSHATA	III	ECE	VOLLEYBALL	WINNER
104	DEEKSHA MITTAL	III	ECE	VOLLEYBALL	WINNER
105	HIMANSHU NAGPAL	III	ECE	CARROM	RUNNER UP
106	HIMANSHU NAGPAL	III	ECE	STAIRCASE CLIMBING ROBOT	WINNER
107	KIRTI MUDGAL	III	ECE	BASKETBALL	WINNER
108	KRITIKA JAISWAL	III	ECE	VOLLEYBALL	WINNER
109	KUNAL MITTAL	III	ECE	BASKETBALL	WINNER
110	KUSH SWARNKAR	III	ECE	STAIRCASE CLIMBING ROBOT	WINNER
111	LOVE SWARNKAR	III	ECE	STAIRCASE CLIMBING ROBOT	WINNER
112	MEGHA SINGHAL	III	ECE	VOLLEYBALL	WINNER
113	NAZUK AGARWAL	III	ECE	VOLLEYBALL	WINNER
114	PALAK JAIN	III	ECE	BASKETBALL	WINNER
115	RATAN MALAV	III	ECE	STAIRCASE CLIMBING ROBOT	WINNER
116	SATYESHU SHARMA	III	ECE	800 METER RACE	RUNNER UP
117	SHWETA CHOUDHARY	III	ECE	VOLLEYBALL	WINNER
118	SURESH KR. GOYAL	III	ECE	BASKETBALL	WINNER
119	SURESH KUMAR GOYAL	III	ECE	200 METER RACE	WINNER
120	UDIT SHARMA	III	ECE	VOLLEYBALL	WINNER
121	VIKAS SHARMA	III	ECE	BASKETBALL	WINNER
122	ANNIE BHASKER	IV	ECE	ANTAKSHARI	WINNER
123	ASHOK KUMAR DAGUR	IV	ECE	LONG JUMP	WINNER
124	DINESH KUMHAR	IV	ECE	CIRCUIT DEBUGGING	WINNER
125	JASPREET KAUR	IV	ECE	BASKETBALL	WINNER
126	KHUSHBOO BOTHRA	IV	ECE	LONG JUMP	WINNER
127	LAKSHITA SHARMA	IV	ECE	BASKETBALL	WINNER
128	MAYANK SIKERWAR	IV	ECE	BASKETBALL	WINNER
129	MOHIT VAIDYA	IV	ECE	BASKETBALL	WINNER
130	NIDHI YADAV	IV	ECE	BASKETBALL	WINNER
131	PINKI KUMARI	IV	ECE	BASKETBALL	WINNER

132	PRAGYA ARORA	IV	ECE	BASKETBALL	WINNER
133	RAHUL	IV	ECE	ANTAKSHARI	WINNER
134	RAJEEV	IV	ECE	ANTAKSHARI	WINNER
135	RAKESH KEJRIWAL	IV	ECE	BASKETBALL	WINNER
136	RITIKA GULATI	IV	ECE	BASKETBALL	WINNER
137	SAURABH TANEJA	IV	ECE	ME AGAINST MYSELF	WINNER
138	SHAILJA NUPUR	IV	ECE	BASKETBALL	WINNER
139	SHAKTI SINGH	IV	ECE	LAN GAMING	WINNER
140	SUKHMEEN KAUR	IV	ECE	BASKETBALL	WINNER
141	UTAKARSH SAXENA	IV	ECE	LAN GAMING	WINNER
142	VISHAL PANDEY	IV	ECE	LAN GAMING	WINNER
143	VIVEK KUMAR JHA	IV	ECE	LAN GAMING	WINNER
144	YASHASH MAHESHWARI	IV	ECE	LAN GAMING	WINNER
145	ABHISHEK	III	EE	IQ METER	WINNER
146	HITESH GUPTA	III	EE	TREASURE HUNT	RUNNER UP
147	RIYA AGRAWAL	III	EE	VOLLEYBALL	WINNER
148	SHIFALI GUPTA	III	EE	TREASURE HUNT	RUNNER UP
149	TRIPTI CHANDRA	III	EE	TREASURE HUNT	RUNNER UP
150	NITIN SINGH	IV	EE	GROUP DISCUSSION	WINNER
151	PANKAJ KUMAR	IV	EE	EXTEMPORE (ENGLISH)	WINNER
152	ATUL KUMAR SINHA	III	EIC	CHESS	WINNER
153	NISHA KANWAR	III	EIC	VOLLEYBALL	WINNER
154	TUSHAR SINGH	III	EIC	CHESS	RUNNER UP
155	KAILASH	II	IT	VOLLEYBALL	WINNER
156	NANDRAJ PATIDAR	II	IT	200 METER RACE	RUNNER UP
157	NANDRAJ PATIDAR	II	IT	VOLLEYBALL	WINNER
158	PREKSHA SINGH	II	IT	GROUP DANCE(WESTERN)	WINNER
159	SHREYA JOSHI	II	IT	GROUP DANCE(WESTERN)	WINNER
160	SONALI AGARWAL	II	IT	GROUP DANCE(WESTERN)	WINNER
161	ABHIJEET RAJAWAT	III	IT	VOLLEYBALL	WINNER
162	ISHAN NAGAL	III	IT	VOLLEYBALL	WINNER
163	ISHANK CHOUDHARY	III	IT	GROUP DANCE(WESTERN)	WINNER
164	KAVITA SHARMA	III	IT	T-SHIRT PAINTING	WINNER
165	KUMARI PRITI	III	IT	SHOT PUT	RUNNER UP
166	MANISH KUMAR RAHAR	III	IT	VOLLEYBALL	WINNER
167	MUKESH KUMAR	III	IT	VOLLEYBALL	WINNER
168	PRISHA SHARMA	III	IT	GROUP DANCE(WESTERN)	WINNER
169	PURVA SWAMI	III	IT	T-SHIRT PAINTING	WINNER
170	RAHUL TANWAR	III	IT	VOLLEYBALL	WINNER
171	RAJENDRA CHOUDHARY	III	IT	VOLLEYBALL	WINNER
172	SUNIL SAINI	III	IT	VOLLEYBALL	WINNER
173	AASHITA GUPTA	IV	IT	DODGE BALL	WINNER
174	AKASH	IV	IT	ANTAKSHARI	RUNNER UP
175	ANKITA KUMARI	IV	IT	DODGE BALL	WINNER

176	ANUKRITI AGARWAL	IV	IT	BROWSE THE NET	WINNER
177	GOVIND BAJAJ	IV	IT	VOLLEYBALL	WINNER
178	MEGHNA	IV	IT	ANTAKSHARI	RUNNER UP
179	MONIKA JAIN	IV	IT	DODGE BALL	WINNER
180	NIHARIKA SUTHAR	IV	IT	DODGE BALL	WINNER
181	NISHTHA SHARMA	IV	IT	DODGE BALL	WINNER
182	POOJA TOMAR	IV	IT	DODGE BALL	WINNER
183	RAKHI KHANDELWAL	IV	IT	BROWSE THE NET	WINNER
184	SHIVANI JHA	IV	IT	DODGE BALL	WINNER
185	SHRUTI BHARADWAJ	IV	IT	DODGE BALL	WINNER
186	VIJAY BHARTI	IV	IT	ANTAKSHARI	RUNNER UP
187	VIJAY BHARTI SHARMA	IV	IT	NAIL ART	WINNER
188	ABHIJEET SONI	III	ME	LAN GAMING	RUNNER UP
189	CHANDRA PRAKASH MEENA	III	ME	DOCUMENTARY COMPETITION	RUNNER UP
190	DEEPAK SUTHAR	III	ME	DOCUMENTARY COMPETITION	RUNNER UP
191	GIRIRAJ VAISHNAV	III	ME	DOCUMENTARY COMPETITION	RUNNER UP
192	JATIN KHANDELWAL	III	ME	LAN GAMING	RUNNER UP
193	KAPIL DUGGAR	III	ME	LAN GAMING	RUNNER UP
194	KETAN BIRLA	III	ME	DOCUMENTARY COMPETITION	RUNNER UP
195	LALIT KUMAR	III	ME	LAN GAMING	RUNNER UP
196	SHUBHAM	III	ME	LAN GAMING	RUNNER UP
197	PARSANT BHAVSAR	IV	ME	CAD MODELING	WINNER

PRAYOGAM (NOVEMBER 11- NOVEMBER 13, 2013) : Prayogam is an annual event which is organized every year to give the Poornimites a platform where they can showcase their talent in the form different working projects. To provide an exposure and a platform to the engineering students for show casing their hidden talents. PGC organized prayogam 2k13, an annual project exhibition program. It was inaugurated at Poornima University Campus by the chief guest Dr. P.S. Sharma, the Chairman, Board of Secondary Education Rajasthan and Mr. Praveen Agarwal, the Secretary, Board of Secondary Education , Rajasthan. More than 400 projects were displayed with the following objectives:

- • To make the students aware about eco-friendly products .
- • To focus on the dealings with technicalities of a particular branch .
- • To generate the importance of engineering and its inventing .
- • To explain the importance of non syllabus projects .
- • To provide a platform to the students for exposure.

7300 students visited the exhibition from different schools of Jaipur. Total 372 students of PCE participated in this programme.

Year/Dept.	No. of Projects
I	33
ME (II, III, IV)	30
Civil	10
CS/IT	**28**

Year/Dept.	No. of Projects
EE	20
ECE & EIC	20
Total	**141**

Head Coordinator : **Dhananjay Kumar (ME)**
Coordinator : **Sugreev Choudhary (I Year)**

WIPRO MISSION 10X (DECEMBER 18-20, 2013) : It is a distinctive traininng program which is conducted for the faculty members so that they can create a quantum improvement in the situation by bringing about a systematic change in the existing teaching and learning paradigms in engineering education. This training program was conducted for three days in which 32 expert faculty members trained the educators by incorporating different interesting activities.

ISTE CHAPTER ACTIVITY (NOVEMBER 19-12, 2013) : Poornima College of Engineering Jaipur organized ISTE CHAPTER ACTIVITIES in 2013 & 2014. The renowned Dignitaries of PGC graced the occasion with their esteem presence .They motivated the students to expand the arena of their knowledge in every field.

The following ISTE Chapter activities took place:

- August 19-26, 2013 (Green Earth Week Program) :Poster Competition, SPL, Industrial Visit, Technical Paper Presentation, Tree plantation ,Delivery of lectures by distinguished faculties of RTU, MNIT, SKIT & other universities.

- November 19-21, 2013 : Special Lecture on Corporate Culture & Motivational Talk

- February 22, Saturday 2014 : A Quiz Competition: Top 3 winners were awarded with cash prize and certificates.

ALUMNI MEET (JANUARY 05, 2014) : Alumini meet was organized on 5th of January 2014 at Poornima University. It is the most awaited event in which the passed out students get a chance to meet their friends after a very long time .The ex students eagerly wait for this event and take out some time from their hectic schedule and enjoy, have fun play games and depart with each other heavy heartedly and wait for the next Alumini meet .This time the theme for the meet was sports & more than 50 alumni participated.

REPUBLIC DAY (JANUARY 26, 2014) : To raise patriotic feel in Poornimites republic day was celebrated with great fervor and zest. The function started with flag hoisting ceremony by Dr S.M Seth, Chairman PGC & Chairperson PU, followed by cultural and faculty felicitation program at Arbuda Convention Centre to accolade the faculty members for giving best RTU result.

BASANT PANCHAMI (FEBRUARY 04, 2014) : Basant Panchami is a famous festival that marks the end of the winter season and ushers in the springtime. Maa Sarasvati is the Hindu goddess of the Basant Panchami festival. She is the goddess of intellect and learning. She embodies the different facets of learning such as the Sciences, arts, crafts and skills. She is said to be calm and collected.Therefore the festival was celebrated and Saraswati puja was performed for her endless showers of blessings. Havan was performed from 6.00 am to 8.30 am on this way at PCE campus.

BLOOD DONATION CAMP (FEBRUARY 24, 2014): The Poornima Group of Colleges organized a blood donation camp in collaboration with Jain Social Group (Emrald) and Rotry Club on Monday 24th Feb, 2014 with assistance of Santokba Durlabhji Memorial Hospital, Mahaveer Cancer Hospital, SMS Hospital & Swathya Kalyan Blood Bank. All students, faculty, and staff members donated blood for the noble cause of humanity. Over all 1025 unit blood was collected during the camp and the students and staff of PCE donated 503 unit blood.

AADHAR-2014 : AADHAR-2014, a Project Exhibition & Competition, was organized by Poornima Group of Colleges on 29th March, 2014 at PGC level with the esteemed presence of Chief Guest Dr. S.M Seth , The Chancellor ,Poornima University & Chairman , Poornima Group of Colleges. The competition took place through the leadership of Dr. Rekha Nair (Dean, 1st year, PGC) as the Organising Head with a team of Project Co-ordinators ; Mr. Sugreev Choudhary ,Mr. Supreet Kr Singh & Mr.Rakesh Mathur, PCE. This Project Exhibition & Competition comprised of multiple categories of projects like STATIC PHISYCAL MODEL, HARDWARE ELECTROICS PROJECTS, HARDWARE MECHANICAL PROJECTS and ROBOTICS (FIGHTING ROBOT, LIFTING ROBOT, ROBO FIFA, & DUAL MODE ROBOT). Over all 300 Projects were listed from Poornima Group of Colleges   and 120 projects were shortlisted under Hardware Electronics Projects for which an initial round was conducted at Poornima College of Engineering . 45 Electronics project were selected for final round whereas the final round of exhibition consisted of 225 Projects with different categories. At last 16 projects were awarded with I & II rank. The list of winners from PCE campus is as follows:

S. No	PROJECT CATEGORY	PROJECT NAME	NAME OF STUDENTS	COLLEGE	RANK
1	STATIC PHYSICAL MODEL	POORNIMA CITY	Ankit Jain, Himanshu Agarwal, Gaurav Gupta Aman Bandil	PCE (B)	I
2	HARDWARE ELECTRONICS PROJECT	EDGED DETECTOR AND AVOID VEHICLE	Abhishek Sarah, Anish Kumar, Anirudh Dubey, Abhishek Garg, Bhuvneshwar Kumar, Abhishek Panchal, Arun Dadhich	PCE (A)	I
3	HARDWARE ELECTRONICS PROJECT	MIKE + SPEAKER	Ishan Arora, Kushboo, Himanshu Mamodiya, Diksha Gupta	PCE (B)	I
4	HARDWARE ELECTRONICS PROJECT	AUTOMATIC PLANT IRRIGATION SYSTEMA	Aakansha Agarwal, Ishwarya Lodha, Amisha Joshi	PCE (A)	II
5	HARDWARE MECHANICAL PROJECTS	SOLAR DRIER	Amit, Rajat, Shivraj	PCE	I
6	FIGHTING ROBOT	ROBO WAR	Nitesh Sharma, Hemant Soni, Prateek Pandey	PCE (A)	I
7	FIGHTING ROBOT	ROBO WAR	Mausam Rariya, Navneet Roy, Manish Kumar Jain, Himanshu Jamini, Harjit Singh, Nikita Sharma	PCE (A)	II
8	LIFTING ROBOT	LIFT IT UP	Jitendra Kumawat, Mahindra Chaudhary, Hemraj Gurjar	PCE	I
9	LIFTIONG ROBOT	LIFT IT UP	Mausam Rariya, Manish Kumar Jain	PCE (A)	II
10	ROBO FIFA	ROBO FIFA	Deepanshu Jain, Deepanshu Jain, Saurabh Jain, Siddharta Chaurasiya, Vandna Sharma,Somya Dwivedi	PCE	I

11	ROBO FIFA	ROBO FIFA	Poonam Rajawat, Saloni Manaktala ., Simran Kaur, Balkrishan Verma, Preeti Jindal, Deepesh Kumawat	PCE (B)	II
12	DUAL MODE ROBOT	DUAL MODE	Bhavya Mehta, Ankit Maan, Neha Anand, Shilpa Sogarwal	PCE (B)	I
13	DUAL MODE ROBOT	DUAL MODE	Balchand Saini, Aditya Bhatt, Aditi Jain, Akash Goyal	PCE (C)	II

CONFERENCES, SEMINARS & WORKSHOPS

TWO DAYS WORKSHOP ON AERO MODELLING (SEPTEMBER 7-8, 2013) : Family of Zircon Club, organized a Two days workshop on Aero Modeling on September 7-8 2013. Student coordinators of Radio Control Club BITS, Pilani were invited to make the students aware about aero modeling. About Hundred students of 1st year PGC were benefited by this workshop and learnt to prepare working models of aero-planes. Students were highly motivated in the enlightening appearance & guidance of Dr. R. P. Rajoria(Campus Director PCE), Dr. O. P. Sharma(Principal PCE), Dr. Rekha Nair(Dean 1st year PGC), Mr. S.K. Jain(HOD 1st year Group A), Ms. Himanshu Rathore(HOD 1st Year Group B), Dr. Sama Jain(HOD 1st Year Group C), Mr. G. K. Panda(HOD 1st Yaer PGI) and Mr. Mohit Vajpai(Dy. HOD 1st Year PIET).The workshop was coordinated by Mr. Sugriv Choudhary and Mr. Rakesh Mathur. Student Coordinators are Ronak Maheshwari, Shashank Goyal, 2nd year EC PCE.

ENERGY EFFICIENCY IN BUILDINGS (SEPTEMBER 16-17, 2013) : A two days workshop on ENERGY EFFICIENCY IN BUILDING was organized in association with ISHRAE to celebrate Engineer's day (September 15), birthday of Sir M. Visvesvaraya. The vision behind organizing the workshop was to introduce the necessity and implementation of energy efficiency in buildings along with practical case studies and sustainability factors that enhance the knowledge and scope of professionals as well as students. With the fast development of infrastructure throughout the world, it is evident that the requirement of energy is increasing

in a multifold way than the production of energy. Hence, it is essential to keep abreast of the knowledge about the energy efficiency strategies (both conventional and non-conventional), implement it in our day to day practices and be an active part of the movement either voluntarily or career wise. Our focus is to bridge the gap between what the current world expects and where we are in terms of growing energy potential.

RALTFS (SEPTEMBER 28, 2013) : One day seminar on RECENT ADVANCEMENT IN LIGHTING TECHNOLOGY AND THEIR FUTURE SCOPE was organized by Electrical department in sponsorship of INDIAN SOCIETY OF LIGHTING ENGINEERS(ISLE), Rajasthan State Centre (RSC) , Jaipur for the 2nd year students. The overall objective of the seminar was to promote art science and practice of illumination engineering services as associated with built and open environment for the benefit of public and to provide guidance to young engineers for career improvement in illumination engineering.The seminar was attended by students of 2nd year EE Dept. Through the seminar, students were witted by experts

about energy conservation and there was also an interactive session and a motivational speech delivered by Shri B.M Chandana. The session focused on how to visualize life with Positive attitude and how to motivate ourselves. Students were also made aware about the ISLE by Shri R.S Saxena. Shri Prashant Vajpayee talked about "Recent Lighting Traits" and about the efficient use of lighting system.

WINDOWS PHONE APPLICATION DEVELOPMENT (OCTOBER 26, 2013) : One day workshop on WINDOWS PHONE APPLICATION DEVELOPMENT was organized by the department of computer engineering. The workshop focused on introduction to windows 8 app store, software/hardware and tools required to develop app, app ideas, design and development guidelines for developing app, writing code, testing and debugging the app, process of app submission. It was conducted by Mr. Gaurav Swaroop Mathur, Technology Architect (Assoc. Manager), Accenture, Gurgaon.

DATABASE MANAGEMENT SYSTEMS (MAY 21-31, 2013) : Two-week ISTE workshop on DATABASE MANAGEMENT SYSTEMS was conducted by Indian Institute of Technology (IIT), Bombay. The basic aim of this workshop course was to expose those who have taught, or may be teaching, a course on databases to the way IITs do, with an emphasis on hands-on work through assignments, tutorials and projects. During the workshop Live lectures were delivered by Prof. S. Sudarshan, IIT Bombay. All the participating teachers attended Lecture session, and also attended tutorial and lab sessions conducted. The lecture transmission and live interaction took place through distance mode using the AVIEW technology and the Internet.

"NSAWOA-2014" (JANUARY 18-19, 2014) : A two days AICTE sponsored National Seminar on "Advancement in Wireless & Optical Applications-2014" was organized by Department of Electronics and Communication Engineering at Poornima College of Engineering, Jaipur on January, 18th & 19th, 2014.

The main objective of the seminar was to invite different ideas from technocrats of various regions on the theme and discuss the technologies of mutual interest. In total 96 papers were received from various institutions such as IITs, NITs, LNMIIT, Engineering Colleges of Rajasthan and other states. Around 66 papers out of 96 were selected for the final presentation. Technical Session of seminar started with the technical talk delivered by Dr. Sandeep Sancheti, President, Manipal University, Jaipur. The second key note address was given by Prof. O.P.N Calla, Director, ICRS Jodhpur. The valedictory function was organized on 19th Jan, 2014. The concluding remarks were accentuated by Dr. Om Prakash Sharma, Programme Chair, NSAWOA-2014 and vote of thanks was delivered by Mr. Tarun Mishra, Convener of the seminar.

SAKSHAM~2K14 : A yearly Entrepreneurship Week program "SAKSHAM~2K14" was celebrated by Entrepreneurship Development Cell of Poornima College of Engineering. It, equipped with plethora of entrepreneurship activities, took place for the third time to motivate and improve entrepreneurship skills of engineering students .Total 197 students of all the branches and all the years participated in the program with lot of zeal and enthusiasm. The following activities were conducted during the program.

ACTIVITIES:
- A workshops of 15hrs named as DAKSHTA-2K14 was conducted on Entrepreneurship Skills and Business Modeling.
- 5 Entrepreneurs with technical background, average 200 employees or more then Rs.100 crore turnovers.
- 13 video Lectures on Entrepreneur related topics.
- Top B-Plan were awarded for Excellence.
- All Students participated with zeal & 16 winners were awarded

IETE STUDENT DAY CELEBRATION (FEBRUARY 1, 2014) : IETE Student Forum of Poornima College of Engineering celebrated IETE Student Day on "Importance on Wireless Communication & Recent Advancements in Technologies .A Quiz competition & a Paper Presentation Competition on the topic of "Recent Trends and Technologies in Wireless Communication on Technical, Aptitude and General Knowledge sections. The top three students are selected in both of

the conductions. On 1st Feb, 2014, National IETE Student Day, Award Ceremony was organized to motivate the winners for their active participation and hard work. The chief guest, Sh. Sanjay Kumar, Chairman, IETE, Guest of Honor, Dr. R. P. Rajoria, Campus Director, PCE and Special Guest, Dr. Shuchi Dave were welcomed & felicitated by Dr. Om Prakash Sharma and Ms. Smriti Sachan respectively. Sh. Sanjay Sharma, Chairman of IETE addressed the students and gave away the awards. He encouraged the students in an exquisite manner and crystallized various new technologies like wireless mobile charging technology under research and their importance. A Technical Documentary and Presentation was given to aware the PGC Group with the recent technicalities. Dr. R.P. Rajoria inspired the students by his Words of Blessing. Dr. Shuchi Dave also gave her kind feedback on the Presentation.

GUEST LECTURES ON WEB SERVICES (FEBRUARY,13,2014:

One day seminar "GLOWS 2014" was organized by Department of Information Technology of Poornima College of Engineering with the gracious presence of Guest and key speakers Mr. Baldev Sharma, Mr. Lakshay Kumawat and Ms. Mallika Kumari from Dzire Infosoft Pvt. Ltd. and Mr. Moninder Singh, Mr. Gajendra Badra from MG Techno Savvy Pvt. Ltd. Dr. R.P Rajoria, Dr. Om Prakash Sharma and Sh. Shirish Nagar welcomed the renowned dignitaries & guests. An interesting session on Search Engine Optimization was taken by Mr. Baldev Sharma and Mr. Lakshay Kumawat from DZire Infosoft Pvt. Ltd. to guide the students about its importance and the job opportunities available for the

budding technocrats in this field.

Mr. Moninder Singh from MGTechnosavvy Pvt. Ltd. mentored the students about the necessity of life skills in corporate world. The session was then carried forth by

Mr. Gajendra Badra from MGTechnoSavvy Pvt. Ltd. Mr. Gajendra Badra emphasized on the technical concepts related to web services as well as its practical implementation

WOIP (28 MARCH -29 MARCH 2014): The I.T department of PCE conducted a two days Workshop On Image Processing for the students of III rd year. Over all 46 students participated in which the renowned expertise of MATLAB , Mr. Ajay Sharma ,DKOP, Noida enlightened the students with his precious thoughts . The workshop went on with success

under the guidance of Dr. R.P Rajoria ,The Campus Director & Dr. Om Prakash Sharma, The Principal ,PCE.

NSTAIE-2014 (APRIL 22, 2014) : A National Seminar on "Technology Advancement & their Impact on Environment" was organized by Poornima College of Engineering, Sitapura, Jaipur on the occasion of Earth Day Celebration. The vision of organizing the National Seminar on thought provoking theme was initiated by Dr. S.M. Seth, The Chairman,

Poornima Foundation and Poornima University. It was further excelled by the logistics and financial support given by Mr. Shashikant Singhi, The Director General, Poornima Foundation. Addressing the gathering ,the guest of honour ,V.K Shrivastava ,Former Dean, Industrial R & D Dept.of Chemical Engineering,IIT,Delhi , delivered a vibrant speech highlighting the subthemes of seminar along with the positive & negative impact of technological advancement on environment. The valedictory function was organized and participants were given away the certificates. The concluding remarks were accentuated by Dr. Om Prakash Sharma, The Program Chair, NSTAIE -2014 and vote of thanks was delivered by Dr. Bina Rani, Convener of the National Seminar.

PCE Library-Placing the knowledge in technocrats

It is noted that the basic characteristic of a good academic library is its total identification with its institution because the measure of its excellence is determined by the extent to which its resources and services support the academic pursuits of the institution. The aim of PCE library is to contribute to the realization of the institution goals and objectives. PCE library is spread over three storied building and having more than 200 seating capacity in its reading rooms.

The digital resources available in a library play prominent role in facilitating access to the required information to the user are an expediency manner. Further one need not go to the library to make use of print formats as the digital resources can be made use of by any user through On-line access via networks or authentication methods at any time by comfortably .Now web-based electronic resources have become most popular tools in academic research. Electronic Resources is one of the emerging environment in libraries & Information communication in the competitive service.

E-Resources usually consist of e-books, e-Journals, articles, newspaper, thesis, dissertation, databases and CD-ROMs, which are likely to be the alternative to the print media. Emerald, Ebsco, Scopus, INSPEC, are some of the examples of online databases. All updated information is published in these e-resources. The familiarity and use of electronic information resources in the libraries for rapid development is necessary and important.

At present 30 PCs are available in the library for browsing all the e- resources made through DELNET. Apart from this PCE library is also having 1572 digital publications in the form of CDs/DVDs. the academic library exists mainly to contribute to the realization of the institution goals and objectives.

SERVICES OFFERED BY DELNET

DELNET provides the under mentioned services to its member libraries. Union Catalogue of Books

b. Union List of Current Periodicals
c. Union Catalogue of Periodicals
d. Database of Periodical Articles
e. CD-ROM Database
f. Union List of Video Recordings
g. Union List of Sound Recordings
h. Database of Theses and Dissertations
i. Union List of Newspapers
j. Database of E-books
k. Profile of Member-LibrariesII

DELNET also provides access to

a. Cambridge Dictionaries online
b. Networked Digital Library of Theses and Dissertations
c. ODLIS : Online Dictionary of Library & Information Science
d. GISTNIC Databases
e. MEDLINE & other databases of NLM
f. U.S. Patents: Full Text
g. Full Text Medical Journals
h. Open Access Journals
i. Engineering & Technology E-Journals: Table of Contents
j. Full-Text Medical Books
k. Full-Text Engineering & Technology E-journals
l. Learning Resources for LIS Professionals
m. Digital Libraries of the World

Highlights of PCE Library

- Total Area – 1350 sqm with 3 floors
- Total No. of Books : 40,900
- No. of books added during the current year: 3,398.
- No. of Journals & Magazines subscribed during the current year: 113
- No. of daily news papers available : 13
- No. of students visited per day: 485 average
- No. of books issued per day: 190 average
- No. of PCs available in E-Library : 30
- Sitting capacity available in reading rooms : 200+

Services and facilities available to users

- Borrowing facility
- Reading room facility
- OPAC search
- DELNET facility
- Interlibrary loan

- News paper clipping service
- Online journals service
- Digital library
- Reference service
- Open book test
- Xerox services

List of Books obtained from DELNET, Delhi on ILL

S.No.	Name of Faculty	Details of books obtained
1.	Girraj Methi (Maths)	Sheldon M. Ross: Introduction to Probability and Statistics for Engineers and Scientists (3rd Edition). Academic Press

List of Research Articles obtained from DELNET, Delhi on ILL

S.No.	Name of Faculty	Received
1.	Mahesh Bundele (CE)	4
2.	Amit Mandal (ME)	5
3.	Omprakash Sharma	19
4.	Himanshu Rathore	13
	Total	**41**

BG Sharma
Chief Librarian, PGC

FACULTY ACHIEVEMENTS AND
THEIR RESEARCH CONTRIBUTION

PAPER PUBLISHED

- Dr O. P. Sharma: (Principal PCE)Published a paper on *"Analysis of Coded and Uncoded Digital Modulation Techniques"*, in International Journal of Electronics and Communication Technology (IJECT), ISSN: 2230-7109 (online), ISSN:2230-9543 (Print), vol. 4, Issue 4, pp.46-48, June 2013.

- Brijraj Singh: (HOD EIC) Published a paper on *"Analysis of Coded and Uncoded Digital Modulation Techniques"*, in International Journal of Electronics and Communication Technology (IJECT), ISSN: 2230-7109 (online), ISSN:2230-9543 (Print), vol. 4, Issue 4, pp.46-48, June 2013.

- **Dr. Bina Rani(Assoc. Prof. I year Chemistry):** Published paper on **"Green Chemistry towards Sustainability of Environmental Perspectives"** in Journal of Biological and Chemical Research Volume 30 (2) 2013 ,page no.776-800.

- **Dr. Bina Rani(Assoc. Prof. I year Chemistry) :** Published paper on **"Environmental Conservation and Management of Water for Future Perspectives"** in Book 2013 at page no. 133-159 Environmental Management by Daya Publishing House, New Delhi.

- **Mr. Kuldip Sharma (Asst. Prof. I year English Dept):**-Published two papers on " **21" Century Learners: Learning Styles and Strategies & Rural Learners and Urban Learners "** in proceedings of 8th International Conference in the collaboration of 'English Language Teachers Association of India' and SRM University, Chennai with ISBN no.978-81-908397-9-2

- **Mr Radhey Shyam (Asst. Prof. I year mechanical Dept.):**- published paper on **"proceeding of national conference on Advanced Trends in Mechanical Engineering & Applied Science organized"** on Dec. 6, 2013 conducted by Jaipur Institute of Engineering & Management Gadota, nh-8 Jaipur Rajasthan.

- **Ms. Kusum Sharma(Asst. Prof. I year Chemistry Dept.):**-Published paper on **"Photoinduced [4+2] cycloaddition reactions of benzo[b] thiophene-2,3-diones with alkenes"** *Res. Chem. Intermed.*, 38, 2012, 723.

- **Ms. Kusum Sharma(Asst. Prof. I year Chemistry Dept.):**-Published paper on **"Synthesis , computational study, configurational analysis and biological activity of imidazolidinone, thiazolidinone and isoxzolone derivatives of 1,2 naphthoquinone"** in *Indian J. Chem.* B , NISCAIR.

- **Ms. Kusum Sharma(Asst. Prof. I year Chemistry Dept.):**-Published paper on **"Stereoselective synthesis , computational study and antimicrobial activity of spiropyrrollidines derived from 1,2 naphthoquinone and thiazolidine- 4-carboxylic acid accepted for *Helvetica Chemica Acta (accepted")*in Indian J.

- **Ms. Pooja Tiwari (Asst. Prof I year C.S. Dept.):**-Published paper on **"Biologically Inspired Computing Technique for Optimizing Discontinuous Mathematical Functions"** in GJEIS volume 5, issue 2, July-Dec 2013.

- **Mr. Abhishek Jain** published a research paper on **"New Algorithm for Multiplication of Two 3-D Sparse Matrices using 1-D Array & Linked Lists"** in IJMECE (International Journal of Modern Electronics and Communication Engineer-ing) journal in May-2013 Volume 1, Issue 2.

- **Mr. Manish Kumar Sharma** published a paper on **"Design and Implementation of Cognitive Fatigue Detection System for Vehicular Drivers"** in 8th Biyani International Conference (BICON-13) on **"Amplification of Futuristic Technology by an Integrated Approach of Computing, Engineering and System Science"** at **Biyani Group of Colleges** on **22nd Sep-tember, 2013.**

- **Mr. SP Srivastava** Published a paper on

"Energy Conservation in Petroleum Conservation Research Association" on 16th Sept. 2013.

- Mr. Manish Kumar Sharma (Dept CSE, PCE) published a paper on the topic "Component Design of Cognitive Fatigue Detection System for Vehicular Drivers" in national seminar on Advancement in Wireless and Optical Applications organized on 18th & 19th January, 2014 at Poornima College of Engineering, Jaipur.

- Mr. Deepak Agarwal (Dept CSE, PCE) published a paper on the topic "A Mathematical Approach towards Mitigating the Effects of Wormhole Attack" in International Journal of Electronics Communication and Computer Technology (IJECCT) ISSN No. 2249-78-38 Volume 4 Issue 1 (Jan-2014).

- O.P. Sharma and Anjali jain, "Evaluation of MFCC for Speaker Identification on Various Windows", is Accepted in IEEE International Conference On Recent Advances and Innovations in Engineering (ICRAIE-2014), IEEE Conference Record # 32104, 09-11, May –2014.

- O.P. Sharma and Anjali jain, "A Comparative Analysis of Speaker Identification on English and Hindi Database", International Journal of Computer Applications (IJCA), (0975 – 8887) Volume 84, No. 12, pp. 53-56, December 2013.

- O.P. Sharma and Anjali jain, "Feature Extraction from Dual Tone Voice for Speaker Recognition by Combining MFCC and VQ", will be published in IFRSA's, International Journal Of Computing (IIJC), ISSN (Print):2231:2153, ISSN (Online):2230:9039, Volume 4, Issue 1, in Jan 2014.

- O.P. Sharma and Richa Goswami, "A Review on Character Recognition Techniques", International Journal of Computer Applications (IJCA), (0975 – 8887) Volume 83, No. 7, pp. 19-23, December 2013

PAPER PRESENTED

- Neha Jain(Asst. Prof. Deputy HOD, E.E.):- Presented a paper " Hydrological Aspects Of Rain Water Harvesting" in national level conference on Hydrology with Special emphasis on Rain water Harvesting (NCHRWH-2013) held at pgi jaipur on 15-16th November 2013.

- Neha Jain(Asst. Prof. Deputy HOD, E.E.):- Presented a paper "Reactive Power Management Using FACTS Devices" in national level conference "Trends And Innovations In Electrical Engineering"-2013"(NCTIEE-2013) held at PCE, Jaipur on 15march 2013.

- Neha Jain(Asst. Prof. Deputy HOD, E.E.):- Presented a paper "Prepaid energy meter using tariff indicator" in national level conference "Recent Advancement In Power System Engineering"-2013"(RAPSE-2013) held at VIT Jaipur.

- Neha Jain(Asst. Prof. Deputy HOD, E.E.):- Presented a paper "Factors And Ways To Reduce And Improve Power Factor" in national level conference "Trends And Innovations In Electrical Engineering"-2013"(NCTIEE-2013) held at PCE Jaipur on 15 march 2013.

- Mr Radhey Shyam (Asst. Prof. I year Mechanical Dept.):-Presented paper on " Integration Issues in Conventional and Renewable Power Generation" Presented in National Conference on Advanced Trends in Mechanical Engineering & Applied Science organized on 6-12-13 by Jaipur Institute of Engineering & Management Gadota, NH-8 Jaipur Rajasthan

- Dr. Bina Rani(Assoc. Prof. I year Chemistry):- Presented paper in All India Seminar on the topic "Methodologies for Air Pollution Control" organized at MNIT Jaipur on August 30-31, 2013.

- Dr. Bina Rani(Assoc. Prof. I year Chemistry):- Presented paper on the topic "Waste Management in Annual Convention on Climate Change" on November 19, 2013.

- Ms. Himanshu Rathore(HOD I year Group B):- Presented a paper in a two days national seminar on the "Econometrics Applications" organized by Central University, Ajmer on 20th and 21st November 2013.

- Mrs. Pratibha Sisodia(Asst. Prof I year English Dept):-Presented a paper presentation entitled "Rural Learners and Urban Learners" at international conference conducted in the

collaboration of ELTAI and SRM university, Chennai from July 18-20, 2013.

- **Ms.Megha Modani (Asst. Prof EE Dept.)** Stood 1st in presentation competition on **"Green Energy"** organized by ISTE.
- **Mr. Jaldeep Yadav(Asst. Prof. I year EE)** stood 2nd in presentation competition on **"Green Energy"** organized by ISTE.
- **Dr. Bina Rani** presented a paper on "Natural Antioxidants and their Intrinsic worth for well being published in Global Journal of Medical Research Pharma, Drug Discovery Tuxicology

and Medicine (USA) Volume 13, Issue VII, Version I 2013 & delivered invited talk at IIQM Jaipur on Environmental Management System on January 15, 2014.

- **Ms. Bhawna Booti** got published a book of Circuit Analysis for Electronics and Communication branch.
- **Mrs. Kulsum Bano** got published a book on "Communicative English" in 2013.
- **Mrs. Kulsum Bano** got published a book on "Communication techniques" in 2014

Prominent Achievers

I Year

- Rishika Rao, Section I (CS) participated in Tech Fest (Exhibition) held on 14th September 2013 at VIT, Jaipur and got 4th prize.
- Rishika Rao, Section I (CS2) have selected in top 50 project list of India at ISEED, Hedrabad for workshop of robotics for the project idea. Due to some reason she could not attend the workshop.
- Abhinav Sharma, Sectin I (CS2) has participated in Tech Fest at NIT.
- Arround 15 students of Group B have participated in Tech Fest at LMNIT, Jaipur.

Electronics

- The Second year students : Ronak Maheshwari, Shashank Goyal, Monika Upadhyay, Sumit Singh Bhandari of got II rank in Robots at War held at Bits Pilani on March 29, 2014.
- The Second year Students: Ronak Maheshwari, Shashank Goyal, Monika Upadhyay, Neelam Gupta were selcted in top five finalist in Prototype Project held at Bits Pilani on March 30, 2014.
- The Fourth year Rakesh Kr. Kejriwal, Rahul Sharma, Anni Bhasker, Karanveer Singh & Dinesh Kumhar got I prize in Dual Mode

Vehicle Challenge held at Bits Pilani on March 28, 2014.

- The Fourth year students : Rakesh Kr. Kejriwal, Rahul Sharma, Anni Bhasker, Karanveer Singh, Rajeev Dixit, Sandesh Jain got II prize in Prototype Project Expo at War held at Bits Pilani on March 30, 2014.
- Ashish Varshney (IV year) got selected in top 10 in Linar Rover Challenge held at IIT Madras in January, 2014.

Civil

- Ravi Dutt and Mukesh Kumar (B.Tech VII Sem) attended workshop on "Frontiers on Materials" during August 12-17, 2013 at MNIT Jaipur.
- Praveen Kumar, Rajeev Saraswat, Rajat Singhal and Tushar Rupela (B.Tech V Sem) got 1st position in 2nd round of "APEXO" event organized by IIT Bombay at Indore Zone.

CS

- SaurabhPaliwal(IV year) & Divanshu Jain (III year), got 1st prize in Toastmaster a debate competition at VIT Jaipur on September 07, 2013.

COMMENDABLE TEAM WORK BY POORNIMITS

A team to BITS Pilani Hyderabad contest was sent to participate in rob-war event which was held from October 10, 2013 to October 13, 2013. 47 teams came to participate from all over the country. The team from Poornima College of Engineering won the 2nd prize as runner up. The team members were

1) Kshitij Sharma (EE, I Yr.)	2) Abhinav Singhi (CS, I Yr.))	3) Narayan Singh (EC, I Yr.)	
4) Saurabh Jain (EC, I Yr.)	5) Saurabh Jain (EC, I Yr.)	6) Siddarth Churasia (EC, I Yr.)	
7) Sumit Bhandari (EC, II Yr.)	8) Ravindra Singh Rathore (EE, I Yr.)		

TRAINING & PLACEMENTS: *A GROWTH LADDER TO SUCCESS*

Placement is an important part of engineering discipline giving an opportunity to learn about workplace dynamics, important skills and practice them efficiently. It is the placement which develops and consolidates interpersonal skills elaborating the culture in the context of workplace. It's pertinent to all that at present top companies look for those candidates who are quite efficient in academic and non-academic sectors. The basic requirements for placement in good companies are Bachelor's degree in Engineering with a good academic record, good knowledge in internet & the relevant areas of the concerned subject, good written, verbal and interpersonal communication skills and ability to communicate clearly and efficiently.

The placement is the captivating standard of any educational institute, Poornima College of Engineering always strives for the placements of its students providing them the platform in campus or off campus. PCE organizes different seminars, workshops, learning activities and other personality development programs in order to make the students more dexterous for the job profile. The students of PCE are made acquainted with the scenario of corporate world & its functioning through the industry interaction & industrial visits from time to time. The Training and Placement Cell of PCE is abounded with many resources to make the students placed at better profile. At present, it seems a hard nut to crack to find a better job fulfilling all the basic requirements in such a cut-throat competition but PCE is the college which not only provides the platform to the students but also make them competent enough to face the hardships which they may confront during the job at certain organization. The students of Poornima College of Engineering get opportunity of job at recognized and renowned multi-dimensional companies during their academic at PCE. More than 30 companies visited PCE campus during 2013 & 2014 for placement drive and some of them are Indian Navy, Infosys Technologies, L&T Infotech, Indian Army, IBM, Wipro, etc. The highlights of placements at multiple companies are listed below:

Selection for SSB - Indian Navy (2014 Batch)

02-04 Sep. 2013   **PACKAGE : 7.92 Lac Per Annum**

S. No.	Name of Student	Branch	Reg. No.
1	ANIKET JAIN	CE	CE/10/21
2	GAURAV KELWA	CE	CE/10/42
3	KOSTUBH TOMAR	CE	CE/10/1170
4	KUMAR SHIVAM	CE	CE/10/02
5	SAURABH PALIWAL	CE	CE/10/137
6	ZAIN SIDDIQUI	CE	CE/10/114
7	AKSHAT BHATIA	EC	EC/10/129
8	ANUJ SINGH	EC	EC/10/1161
9	GOPAL SINGH	EC	EC/10/1120
10	KARAN TAMRA	EC	EC/10/153
11	MADHAV SHARMA	EC	EC/10/137
12	PRATYUSH VYAS	EC	EC/10/117
13	ROHIT AAHUJA	EC	EC/10/88
14	VIPUL JAIN	EC	EC/10/128
15	NITIN SINGH	EE	EE/10/79
16	PANKAJ KUMAR	EE	EE/10/04
17	NITIN SHARMA	ME	ME/10/33
18	RACHIT YAGNIK	ME	ME/10/37

Final Selection - Infosys Technologies (2014 Batch)

17-18 Nov. 2013   PACKAGE : 3.25 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ABHISHEK SHARMA	CE	CE/10/1110
2	DHEERAJ CHHABRA	CE	CE/10/1155
3	DIVYA GANDOTRA	CE	CE/10/1123
4	DIVYANK SHARMA	CE	CE/10/1124
5	DIVYARAJ SINGH SISODIA	CE	CE/10/40
6	HARSHA MALIK	CE	CE/10/45
7	HIMANSHU NANDWANA	CE	CE/10/48
8	ISHITA DHAR	CE	CE/10/1128
9	ISHITA VISHNOI	CE	CE/10/147
10	KSHITIZ KUMAWAT	CE	CE/10/117
11	KUMAR SHIVAM	CE	CE/10/02
12	POOJA MANDELIA	CE	CE/10/1138
13	PRAGYA KHANDELWAL	CE	CE/10/76
14	PUSHPENDRA SINGH .	CE	CE/10/1161
15	SHIVALI KHARIWAL	CE	CE/10/95
16	SHRADHA GAUTAM	CE	CE/10/96
17	SHREYA SHARMA	CE	CE/10/136
18	SNEHA KUMARI	CE	CE/10/100
19	VARTIKA DHUPAR	CE	CE/10/106
20	ZAIN SIDDIQUI	CE	CE/10/114
21	DIVYA GUPTA	EC	EC/10/46
22	HARSHITA SINGH RATHORE	EC	EC/10/1154
23	KARAN TAMRA	EC	EC/10/153
24	MADHAV SHARMA	EC	EC/10/137
25	MOHD FAIYAZ	EC	EC/10/03
26	NEERAJ KUMAR SHARMA	EC	EC/10/68
27	NEHA VATS	EC	EC/10/69
28	NIDHI SHARMA	EC	EC/10/70
29	PRAGYA ARORA	EC	EC/10/78
30	PRAKHAR JAIN	EC	EC/10/79
31	PRASOON MATHUR	EC	EC/10/1155
32	SHOBHIT TIWARI	EC	EC/10/95
33	SHWETA SHARMA	EC	EC/10/99
34	SUKHMEEN KAUR	EC	EC/10/101
35	TANIYA SHARMA	EC	EC/10/103

36	VIJAYA SINGH	EC	EC/10/109
37	VIVEK KUMAR JHA	EC	EC/10/1101
38	BHUMIKA GUPTA	EE	EE/10/121
39	BHUMIKA MAHESHWARI	EE	EE/10/37
40	PARVIND AGARWAL	EE	EE/10/139
41	SHASHANK KAPOOR	EE	EE/10/100
42	VISHVENDRA VIJAY	EE	EE/10/128
43	VIVEK KUMAR GARG	EE	EE/10/146
44	DIVYAM JAIN	EIC	EIC/10/21
45	PRIYANKA JOSHI	EIC	EIC/10/39
46	SANJEEV BENIWAL	EIC	EIC/10/47
47	SURBHI JAIN	EIC	EIC/10/80
48	SURBHI MATHUR	EIC	EIC/10/67
49	ADITI AGRAWAL	IT	IT/10/12
50	AMIT KUMAR	IT	IT/10/14
51	ANKITA KUMARI	IT	IT/10/16
52	ANUKRITI AGARWAL	IT	IT/10/05
53	DEVYANI ROHIRA	IT	IT/10/21
54	NIHARIKA SUTHAR	IT	IT/10/36
55	SHIPRA PANWAR	IT	IT/10/66
56	SHIVANI JHA	IT	IT/10/07
57	ABHIJAT GUPTA	ME	ME/10/71

Final Selection - L&T Infotech (2014 Batch)

05-08 Dec. 2013   PACKAGE : 3.00 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	AKHILESH MISHRA	CE	CE/10/1112
2	ANKIT VIJAY	CE	CE/10/23
3	ARUSHI MITTAL	CE	CE/10/27
4	DEEPIKA VAISHNAVE	CE	CE/10/1120
5	KRITIKA SHARMA	CE	CE/10/54
6	MADHURIMA SAXENA	CE	CE/10/1130
7	NAMRATA MISHRA	CE	CE/10/65
8	NEHA KALIYA	CE	CE/10/1134
9	SHAGUN BHARGAVA	CE	CE/10/90
10	SHIVANI VYAS	CE	CE/10/1145
11	AKASH AGNIHOTRI	EC	EC/10/152
12	AKSHAT BHATIA	EC	EC/10/129

13	ANSHUL GOYAL	EC	EC/10/26
14	ANUJ SINGH .	EC	EC/10/1161
15	APURV BHINDA	EC	EC/10/118
16	GARIMA MISHRA	EC	EC/10/48
17	KARTIK INANI	EC	EC/10/54
18	MOHIT VAIDYA	EC	EC/10/1132
19	NIDHI YADAV	EC	EC/10/71
20	PRATYUSH VYAS	EC	EC/10/117
21	SHAILJA NUPUR	EC	EC/10/17
22	SILKY SUDERSHAN	EC	EC/10/145
23	VISHAL PANDEY	EC	EC/10/112
24	KAVYA N NAIR	EE	EE/10/01
25	PANKAJ KUMAR	EE	EE/10/04
26	PRIYANKA MODI	EIC	EIC/10/40
27	ANANNYA SAXENA	IT	IT/10/73
28	MEGHNA BHARGAVA	IT	IT/10/30
29	MONIKA JAIN	IT	IT/10/33

Selection for SSB - Indian Army (2015 Batch)

15th Dec. 2013   **PACKAGE : Govt. Package**

S. No.	Name of Student	Branch	Reg. No.
1	DIVANSHU JAIN	CE	PCE/CE/11/047
2	LOKESH KUMAR	CE	PCE/2CE/11/061
3	UTKARSH VIJAY	CE	PCE/CE/11/086
4	AMAR SINGH CHOUHAN	EC	PCE/EC/11/099
5	ARUN KUMAR	EC	PCE/EC/11/079
6	BISHAL ROY	EC	PCE/2EC/11/058
7	MEHUL KUMAR	EC	PCE/EC/11/004
8	ABHINAV RAWAT	EE	PCE/EE/11/130
9	ADITYA KHATRI	EE	PCE/2EE/11/023
10	ANIL	EE	PCE/2EE/11/014
11	ANKIT JOSHI	EE	PCE/EE/11/195
12	ASHISH PAREEK	EE	PCE/EE/11/097
13	HEMANT SINGH	EE	PCE/EE/11/117
14	MRITYUNJAY KUMAR	EE	PCE/2EE/11/006
15	NEERAJ SHARMA	EIC	PCE/EIC/11/083
16	SHREYANSH SHAH	EIC	PCE/EIC/12/602/D
17	DEEPAK KUMHAR	ME	PCE/2ME/11/068

18	FAIYAZ AHMED	ME	PCE/ME/11/301
19	GAJENDRA SINH CHHASATIA	ME	PCE/2ME/11/041
20	KETAN BIRLA	ME	PCE/ME/11/089
21	SHAILESH KUMAR	ME	PCE/2ME/11/009

Final Selection - Meditab Software Inc. (2014 Batch)

25th Dec. 2013   PACKAGE : 3.60 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	UDIT JINDAL	CE	CE/10/18

Final Selection - Cognizant Technologies (2014 Batch)

17th Dec. 2013   PACKAGE : 3.10 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ISHITA DHAR	CE	CE/10/1128
2	JYOTI CHAUHAN	CE	CE/10/1106
3	MADHURIMA SAXENA	CE	CE/10/1130
4	MAYANK SAXENA	CE	CE/10/58
5	NIKITA GOYAL	CE	CE/10/1160
6	POOJA AGARWAL	CE	CE/10/75
7	PRATIBHA CHOUDHARY	CE	CE/10/77
8	PRIYANKA JHALANI	CE	CE/10/80
9	RAJAT PRAJAPATI	CE	CE/10/88
10	SAXENA MRIGANK	CE	CE/10/1168
11	SHEFALI MITTAL	CE	CE/10/93
12	SHRADHA GAUTAM	CE	CE/10/96
13	SOHIT JAIN	CE	CE/10/101
14	SUMIT SETH	CE	CE/10/158
15	ZAIN SIDDIQUI	CE	CE/10/114
16	ASHUTOSH GOYAL	EC	EC/10/36
17	CHARANJEET SINGH	EC	EC/10/1116
18	HITESH KARMANI	EC	EC/10/1122
19	KARTIK INANI	EC	EC/10/54
20	KHUSHBOO BOTHRA	EC	EC/10/56
21	MRINAL BAGHERWAL	EC	EC/10/66
22	NEERAJ KUMAR SHARMA	EC	EC/10/68
23	RAHUL SHRIWASTAV	EC	EC/10/1140
24	VIPUL KUMAR JAIN	EC	EC/10/128
25	VIVEK SHARMA	IT	IT/10/55

Final Selection - IBM India Limited (2014 Batch)

10th Jan. 2014   PACKAGE : 3.75 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	SURABHI BANSAL	CE	CE/10/159
2	SEEVAN RANKA	IT	IT/10/83

Final Selection - RPH Industries (2014 Batch)

16th Jan. 2014   PACKAGE : 1.44 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ABHISHEK KUMAR	ME	ME/10/05
2	ANKIT CHOUDHARY	ME	ME/10/17
3	MUHAMMED UMAR	ME	ME/10/65
4	ROHIT SINGH	ME	ME/10/58

Final Selection - Wipro BPO (2014 Batch)

24-25 Jan. 2014   PACKAGE : 1.88 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	RISHABH BHARDWAJ	EC	EC/10/142
2	SAURABH CHOUDHARY	EC	EC/10/91

Final Selection - Triveni Turbines (2014 Batch)

30th Jan. 2014   PACKAGE : 3.86 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	NITIN SHARMA	ME	ME/10/33

Final Selection - In Open Technologies Pvt. Ltd. (2014 Batch)

11-12 Feb. 2014   PACKAGE : 2.50 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	CHIRAG BHARGAVA	CE	CE/10/32

Final Selection - Kuhu Industries Pvt. Ltd. (2014 Batch)

4th Feb. 2014   PACKAGE : 1.80 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	KAILASH KUMAR	ME	ME/10/24
2	MUKESH KUMAR JANGID	ME	ME/10/28
3	YOGESH KUMAR KUSUM	ME	ME/10/80

Final Selection - Universal Autofoundry (2014 Batch)

18th Feb. 2014   PACKAGE : 1.80 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ABHISHEK KUMAR SINGH	EE	EE/10/10
2	SAKET ANAND	EE	EE/10/05
3	ANSHUL GUPTA	ME	ME/10/63
4	KUNAL .	ME	ME/11/161/D
5	MAYANK KASHLIWAL	ME	ME/10/62
6	NARENDRA AJMERA	ME	ME/10/29

Final Selection - NIIT Technologies (2014 batch)

21-22 Feb. 2014   PACKAGE : 2.10 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	POOJA TOMAR	IT	IT/10/64

Final Selection - VIT Infotech (2014 Batch)

21-22 Feb. 2014   PACKAGE : 2.50 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	YOGESH CHATURVEDI	CE	CE/10/113

Branch wise Placements

S.N.	Name of company	Date of visit	Selections	Eligible Branches	Package (P.A.)	CE	EC	EE	EIC	IT	ME	Venue
1	Indian Navy	02 Sep. to 04 Sep. 2013	18	CE, EC, EE, EIC, IT, ME, Civil	7.92 Lac	6	8	2	0	0	2	PGC, Jaipur
2	Infosys Technologies	17th & 18th Nov. 2013	57	CE, EC, EE, EIC, IT, ME, Civil	3.25 Lac	20	17	6	5	8	1	PGC, Jaipur
3	Nagarro Software	3rd Dec. 2013	Result Awaited	CS, IT, EC	3.00 Lac							PGC, Jaipur
4	L&T Infotech	5th-8th Dec. 2013	29	CE, EC, EE, EIC, IT, ME, Civil	3.00 Lac	10	13	2	1	3	0	PGC, Jaipur
5	Indian Army (Pre-final year)	15th Dec. 2013	21	CE, Civil, EC, EE, EIC, IT & ME	Govt. Package	3	4	7	2	0	5	PGC, Jaipur
6	Meditab Software Inc	25th Dec. 2013	1	CE & IT	3.60 Lac	1	0	0	0	0	0	JNU, Jaipur
7	IBM India Limited	10th Jan. 2014	2	CE, EC, EE, EIC, IT, ME, Civil	3.75 Lac	1	0	0	0	1	0	Arya, Jaipur
8	Wipro BPO	24th-25th Jan. 2014	2	CE, EC & IT	1.88 Lac	0	2	0	0	0	0	PGC, Jaipur
9	Cognizant Tech.	17th December, 2013	13	CE, EC & IT	3.00 Lac	7	6	0	0	0	0	LPU, Chandigarh
10	Vardhman Group	Jan. 2014	Result Awaited	Civil	1.50 Lac	0	0	0	0	0	0	PGC, Jaipur
11	RPH Industry	16th Jan. 2014	4	ME	1.44 Lac	0	0	0	0	0	4	PGC, Jaipur
12	Arihant Group	23rd Jan. 2014	Result Awaited	Civil	1.44 Lac	0	0	0	0	0	0	PGC, Jaipur
13	Mphasis Technologies	28th Jan. 2014	2	CE, EC & IT	2.50 Lac	2	0	0	0	0	0	Sharda Univ., Greater Noida
14	Triveni Turbines	30th Jan. 2014	1	ME	3.86 Lac	0	0	0	0	0	1	UDML, JECRC
15	Vivacity Infotech	1st & 2nd Feb. 2014	Result Awaited	CE, EC & IT	1.50 Lac	0	0	0	0	0	0	JEC, Kukas
16	Oil Field Warehouse & Services Limited	3rd - 4th Feb. 2014	1	ME	2.16 Lac	0	0	0	0	0	1	PGC, Jaipur
17	AgileCube Tech. Pvt. Ltd.	7th-8th Feb. 2014	1	CE & IT	1.80 Lac	1	0	0	0	0	0	MAIET, Jaipur
18	Logic Spice Consultancy	7th-8th Feb. 2014	Result Awaited	CE & IT	1.44 Lac							MAIET, Jaipur
19	Cape Electric & OBO Bettermann India Pvt. Ltd.	10th-11th Feb. 2014	3	EC, EE, EIC	1.80 Lac	0	0	3	0	0	0	PGC, Jaipur
20	In Open Technologies Pvt. Ltd.	11th-12th Feb. 2014	1	CE, EC & IT	3.50 Lac	1	0	0	0	0	0	RIET, Jaipur
21	Kuhu Industries Pvt. Ltd.	4th Feb. 2014	3	ME	1.80 Lac	0	0	0	0	0	3	PGC, Jaipur
22	NIIT Technologies	21-22nd Feb. 2014	1	CE & IT	2.10 Lac	0	0	0	0	1	0	JNIT, Jaipur
23	VIT Infotech	21-22 Feb. 2014	1	CE & IT	2.50 Lac	1	0	0	0	0	0	PGC, Jaipur
24	Collabera Technologies	28th Feb. 2014	Result Awaited	CE, EC, EE, IT	2.16 Lac	0	0	0	0	0	0	JNU, Jaipur
25	Cognizant Technologies (II Phase)	9th Feb. 2014	12	CE, EC & IT	3.00 Lac	8	3	0	0	1	0	Galgotia Univ., Noida
26	Cognizant Tech. (Raj.)	26th Feb. 2014	5	CE, IT, EC, EE & EIC	3.00 Lac	3	0	1	0	1	0	SKIT, Jaipur
27	Tech Mahindra	4th March, 2014	19	CE, IT, EC, EE	3.00 Lac	12	5	2	0	0	0	JECRC, Jaipur
28	Universal Autofoundry	18th Feb. 2014	6	EC, EE & ME	1.2 to 1.8 Lac	0	0	2	0	0	4	PGC, Jaipur
29	Josh Technology	28th Feb. 2014	Result Awaited	CE, IT	6.00 Lac							PGC, Jaipur
30	APTEAN Technologies	9th March, 2014	Result Awaited	CE, IT	3.00 Lac							Arya, Jaipur
31	TCS	9th March, 2014	14	CE, EC, EE, EIC, IT, ME, Civil	3.18 Lac	5	8	0	0	0	1	Arya, Jaipur
32	Kamal Cogent Pvt. Ltd.	8th March, 2014	3	ME, EE	2.00 to 2.40 Lac	0	0	1	0	0	2	Company Office
33	KVG High Tech Auto Com	4th - 5th March, 2014	Result Awaited	ME	1.2 - 1.80 Lac	0	0	0	0	0	0	PGC, Jaipur
34	Tega Industries Limited	10th - 11th March, 2014	Result Awaited	ME	3.10 Lac							JECRC, Jaipur
35	e-Procurement Tech. Ltd.	12th March, 2014	2	EC, EIC	1.80 to 2.00 Lac	0	2	0	0	0	0	RIET, Jaipur
36	Anupam Electricals & Engineering Pvt. Ltd.	22-23 March, 2014	2	ME, EE	1.68 Lac	0	0	1	0	0	1	JEC, Kukas
37	Mangal Group	25th - 28th March, 2014	1	ME, EE	1.20 Lac	0	0	1	0	0	0	PGC, Jaipur
38	Girnar Technologies	30th March, 2014	1	CE, IT, EC	1.50 Lac	1	0	0	0	0	0	Company Office
39	Metacube Software	5th April, 2014	Result Awaited	CE, IT, EC	2.00 Lac							PGC, Jaipur
40	Globussoft Tech. Pvt. Ltd.	14th - 15th April, 2014	Result Awaited	CE, IT, EC, EIC	2.99 Lac							YIT, Jaipur
41	Nagarro Software (II Phase)	22nd April, 2014		CE, IT, EC	3.00 Lac							JECRC, Jaipur
	Total		**226**			**82**	**68**	**28**	**8**	**15**	**25**	

Final Selection - Oil Filed Warehouse & Services Limited (2014 Batch)

3rd - 4th Feb. 2014   PACKAGE : 2.16 Lac per annum

S. No.	Name of Student	Branch	Reg. No.
1	ASHOK KUMAR	ME	ME/10/18

Final Selection - Agilecube Technologies (2014 Batch)

7th - 8th Feb. 2014   PACKAGE : 1.80 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	SURBHI OJHA	CE	CE/10/160

Final Selection - Cape Electric & OBO Bettermann (2014 Batch)

10th - 11th Feb. 2014   PACKAGE : 1.80 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ABHIJEET KUMAR	EE	EE/10/02
2	ANKIT YADAV	EE	EE/10/120
3	ARUN KUMAR GUPTA	EE	EE/10/34

Final Selection - Cognizant Technologies (2014 Batch)

26th Feb. 2014   PACKAGE : 3.00 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ANIKET JAIN	CE	CE/10/21
2	DHARMVIR SINGH RATHORE	CE	CE/10/1121
3	SHWETA JAIN	CE	CE/10/99
4	KAMAL BHATIA	EE	EE/10/59
5	NISHTHA SHARMA	IT	IT/10/39

Final Selection - Tech Mahindra (2014 Batch)

4th March, 2014   PACKAGE : 3.00 Lac Per Annum

S. No.	Name of Student	Branch	Reg. No.
1	ADITI KOTHARI	CE	CE/10/143
2	AMBARISH KUMAR	CE	CE/10/13
3	ANIKET JAIN	CE	CE/10/21
4	DEVENDRA BHAVSAR	CE	CE/10/35
5	NIKITA AGARWAL	CE	CE/10/152
6	PRITI VERMA	CE	CE/10/11
7	SANCHI JAIN	CE	CE/10/134

8	SHWETA JAIN	CE	CE/10/99
9	SOHIT JAIN	CE	CE/10/101
10	SURBHI GUPTA	CE	CE/10/104
11	AKSHIT KOOLWAL	CE	CE/10/1154
12	KHUSHBOO GOYAL	CE	CE/10/1166
13	ASHVANI DADHICH	EC	EC/10/37
14	PRATISH GUPTA	EC	EC/10/115
15	SHAKTI SINGH CHAUHAN	EC	EC/10/144
16	AAKASH BANSAL	EC	EC/10/1110
17	ANNI BHASKER	EC	EC/10/1106
18	BANSHI PATEL	EE	EE/10/36
19	RICHA CHOUDHARY	EE	EE/10/93

Final Selection - TCS (2014 Batch)

9th March, 2014　　　　　　　　**PACKAGE : 3.18 Lac Per Annum**

S. No.	Name of Student	Branch	Reg. No.
1	ANKIT VIJAY	CE	CE/10/23
2	DEEPIKA VAISHNAVE	CE	CE/10/1120
3	KRITIKA SHARMA	CE	CE/10/54
4	SOHIT JAIN	CE	CE/10/101
5	SURABHI BANSAL	CE	CE/10/159
6	AAKASH BANSAL	EC	EC/10/1110
7	AKSHAT BHATIA	EC	EC/10/129
8	ANKIT AGRAWAL	EC	EC/10/23
9	ANKIT NATHANI	EC	EC/10/05
10	AVINASH KUMAR	EC	EC/10/11
11	MOHIT VAIDYA	EC	EC/10/1132
12	NEHA VATS	EC	EC/10/69
13	VIVEK KUMAR JHA	EC	EC/10/1101
14	RACHIT YAGNIK	ME	ME/10/37

Final Selection - Kamal Cogent & Engergy Pvt. Ltd. (2014 Batch)

8th March, 2014　　　　　　　　**PACKAGE : 2.0 to 2.40 Lac Per Annum**

S. No.	Name of Student	Branch	Reg. No.
1	VISHESH AGARWAL	EE	EE/10/127
2	AJAY JANGID	ME	ME/10/12
3	SIDDHARTH JAIN	ME	ME/10/48

Final Selection - e-Procurement Technologies (2014 Batch)

12th March, 2014   **PACKAGE : 1.68 Lac Per Annum**

S. No.	Name of Student	Branch	Reg. No.
1	ANKIT UPADHYAY	EC	EC/10/131
2	BHAWNA MISHRA	EC	EC/10/132

Final Selection - Anupam Electricals (2014 Batch)

22nd - 23rd March, 2014   **PACKAGE : 1.68 Lac per annum**

S. No.	Name of Student	Branch	Reg. No.
1	RAVI BHUSHAN SINGH	EE	EE/10/11
2	PULKIT VIJAY	ME	ME/10/76

Final Selection - Mangal Group (2014 Batch)

25th -28th March, 2014   **PACKAGE : 1.2 Lac per annum**

S. No.	Name of Student	Branch	Reg. No.
1	DHARNIDHAR PRASAD	EE	EE/10/17

Final Selection - Girnar Technologies (2014 Batch)

30th March, 2014   **PACKAGE : 1.50 Lac Per Annum**

S. No.	Name of Student	Branch	Reg. No.
1	UDIT JINDAL	CE	CE/10/18

MHRD's QEEE PILOT PROJECT AT PCE

Poornima College of Engineering has been shortlisted among top 93 model colleges of India to run QEEE program of MHRD by IIT Madras. Quality Enhancement in Engineering Education (QEEE) program enhances the quality of Indian engineering education and bridge the quantity-quality gap. This pilot project is designed to improve the quality of education delivered to students by making available high quality pedagogical resources to all students through technology – Direct to Student Program and empowering teachers/educators. This program was implemented from January 27, 2014 at all remote centers. Dr. Om Prakash Sharma (Principal, PCE) represented the college in a pre-workshop cum Principals' Meet at Indian Habitat Center, New Delhi while a Training Workshop for Coordinators and System administrators was attended by Mr. Deepak Agarwal and Mr. Manish Kumar Jangid (CS Department, PCE) on 6-7 December 2013 at IIT Madras. A Review and Progress Meeting was also organized at India International Center, New Delhi on 13 March 2014 which is attended by Mr. Deepak Agarwal. Our college opted and successfully conducted four courses in Engineering Mechanics, Fluid Mechanics, Operating Systems and Statistics and Probabilities in different branches of even semesters. Local Faculties were identified and assigned the responsibility to ensure the proper and regular conduction of classes in all the courses. We are also running one open courseware in CS department in Design and Analysis of Algorithm for certification with the collaboration of Microsoft Research under QEEE program.

PLACEMENTS

PRAYOGAM

AADHAR-2014

A Project Exhibition

&

Competition
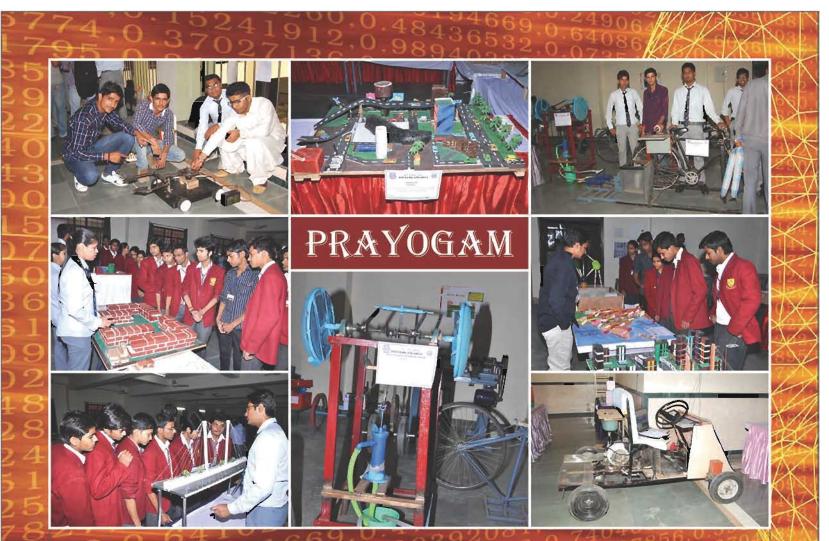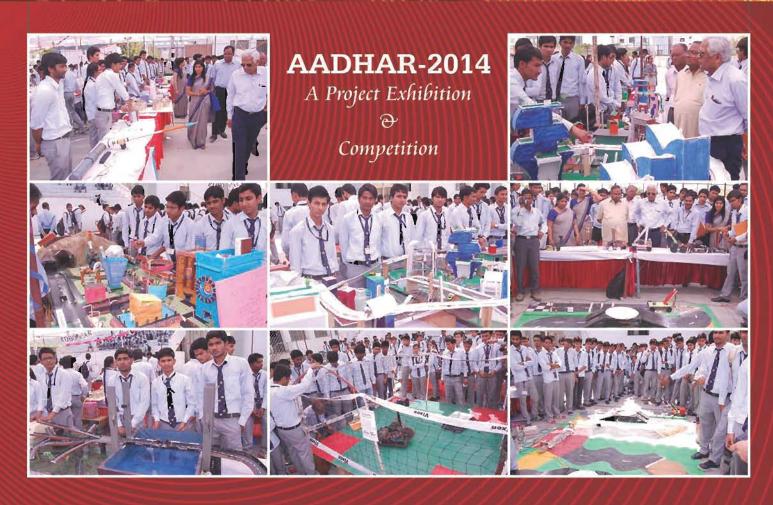
Poornima in News

स्टूडेंट्स को मिले मेडल

जयपुर। एमबीए के प्रतिभावान स्टूडेंट्स को उनकी उपलब्धियों के लिए मेडल, अवार्ड व प्रमाण पत्र प्रदान कर सम्मानित किया गया। अवसर था, पूर्णिमा ग्रुप ऑफ कॉलेजेस में शनिवार को एमबीए 2012-14 बैच के स्टूडेंट्स के लिए आयोजित अवार्ड समारोह का।

एसआरसीसीएल ग्रुप के चेयरमैन व सिंथेटिक एंड रियॉन टेक्सटाइल्स एक्सपोर्ट प्रमोशन काउंसिल के वाइस चेयरमैन बीके लढिया समारोह में मुख्य अतिथि थे। इस अवसर पर पूर्णिमा ग्रुप के चेयरमैन डॉ.

एसएम सेठ ने सभी स्टूडेंट्स को उज्ज्वल भविष्य की शुभकामनाएं दीं और लेखा सिंह को बेस्ट मोस्ट टैलेंटेड स्टूडेंट गोल्ड मेडल प्रदान किया गया। इसके अलावा एकेडमिक परफॉर्मेंस, एटीकेट, सेल्फ हेल्प ग्रुप टीम, आउटरीचिंग परफॉर्मेंस व स्पोर्ट्स व दूसरी अन्य गतिविधियों में उल्लेखनीय प्रदान करने वाले मैनेजमेंट स्टूडेंट्स को पुरस्कार प्रदान किया गया। इस अवसर पर एनुअल बुक 'सिनर्जी-14' का विमोचन भी किया गया। अंत में जूनियर स्टूडेंट्स की ओर से रंगारंग सांस्कृतिक कार्यक्रम आयोजित किए गए।

टैलेंटेड विद्यार्थियों को मैडल व अवार्ड

जयपुर। राजस्थान के प्रतिभावान विद्यार्थियों के लिए मेडल, अवार्ड व प्रमाण पत्र प्रदान कर सम्मानित किया गया। अवसर था पूर्णिमा ग्रुप ऑफ कॉलेज में एमबीए 2012-14 बैच के विद्यार्थियों के लिए आयोजित अवार्ड समारोह का...

टेक फेस्ट में छाए जयपुर के प्रोजेक्ट

सिटी रिपोर्टर. बिड़ला इंस्टीट्यूट ऑफ टेक्नोलॉजी (बिट्स) पिलानी की ओर से आयोजित टेक फेस्ट 'अपोजी-2014' में जयपुर के इंजीनियरिंग स्टूडेंट्स के बनाए प्रोजेक्ट ने विभिन्न कैटेगरी में प्रथम व द्वितीय स्थान हासिल किया। कॉलेज के स्टूडेंट्स अनुभी भास्कर, दिनेश कुमार, करणवीर सिंह, राहुल शर्मा, राजीव दीक्षित, संदेश जैन और राकेश केसरवानी ने इस फेस्ट में ड्यूल मोड व्हीकल चैलेंज में 'रोबो कार' बनाई थी। इस कार की खास बात है कि वह जमीन के साथ-साथ पानी पर चलने में भी सक्षम थी। इसी प्रकार प्रोटोटाइप प्रोजेक्ट प्रेजेंटेशन कॉम्पिटीशन में इन स्टूडेंट्स ने 'लो कॉस्ट ऑटोमैटिक फ्लोरिस्टिंग एंड वाटर सेविंग गाइड' डिस्प्ले किया थी।

आरोहण में विद्यार्थियों ने दिखाई प्रतिभा

इंटरनेशनल टेकफेस्ट के ग्रैंड फिनाले में जयपुर के छात्र

दिखे विज्ञान के प्रयोग

विज्ञान और तकनीक के आविष्कार देखे शहर के 1800 स्टूडेंट्स ने

मेट्रो रिपोर्टर

जयपुर ■ 11 नवंबर

इंजीनियरिंग स्टूडेंट्स के बनाए मॉडल्स और प्रोजेक्ट्स की तीन दिवसीय एग्जिबिशन 'प्रयोग-2013' सोमवार को पूर्णिमा यूनिवर्सिटी में शुरू हुई। एग्जिबिशन में पूर्णिमा यूनिवर्सिटी और पूर्णिमा ग्रुप ऑफ कॉलेजेस के स्टूडेंट्स के बनाए करीब 400 प्रोजेक्ट शामिल किए गए हैं।

प्रयोग के पहले दिन शहर के पिंकर, आदर्श विद्या मंदिर, रयान इंटरनेशनल, एक्सप्रायर, इंडिया पब्लिक, कपिल ज्ञानपीठ, एसबीएस, भारतपुरम और जयपुर किंडर मिडटाउन समेत 13 स्कूलों के करीब 1800 स्टूडेंट्स ने इन प्रोजेक्ट्स को देखकर तकनीकी संभावनाओं का अंदाजा लगाया...

'बदली वायरलैस की डेफिनेशन'

जयपुर नई टेक्नीक्स के चलते वायरलैस की डेफिनेशन बदल चुकी है। रविवार को यह विचार सामने आए पूर्णिमा कॉलेज ऑफ इंजीनियरिंग में आयोजित नेशनल सेमिनार के समापन पर। चेयरमैन डॉ. एस.एम. सेठ ने स्टूडेंट्स को बताया कि अखिल भारतीय तकनीकी शिक्षा परिषद के सहयोग से 'एडवांसमेंट इन वायरलैस एंड ऑप्टिकल एप्लिकेशंस' विषय पर आयोजित सेमिनार के अंतिम दिन कुल 35 पेपर प्रजेंट किए गए।

ई-वेस्ट बन गए हैं बड़ी समस्या

जयपुर। पर्यावरण के संदर्भ में कुछ समय पहले तक सिर्फ मशीनराई जमीन की ही खराबी बड़ी समस्या मानी जाती थी, लेकिन तकनीक के विकास के साथ अब्बल-वेस्ट के रूप में अत्यधिक गंभीर समस्या सामने आ गई है। यह जानकारी दी विचार 'अर्थ' के माध्यम से पूर्णिमा कॉलेज ऑफ इंजीनियरिंग में आयोजित सेमिनार में सामने आए।

रेड एक्सीडेंट पर लगाएगा लगाम

जयपुर। सड़कों पर सवार दिन होने वाली दुर्घटनाओं पर कभी अंकुश नहीं लगाया जा सकेगी। इंजीनियरिंग स्टूडेंट मनोज कुमार, मनीष कुमार, आरोही सिंह के आशुतोष पुरी ने रोड एक्सीडेंट रोकने के उद्देश्य से 'रेटिजेंट ट्रांसपोर्ट सिस्टम' प्रोजेक्ट तैयार किया है...

परफॉर्मेंस के साथ जानी कथक की बारीकियां

स्पिक मैके की ओर से सनी खानम की परफॉर्मेंस

कैंप में 1025 यूनिट ब्लड एकत्र

सिटी रिपोर्टर. पूर्णिमा ग्रुप ऑफ कॉलेजेस 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 मिडटाउन 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।

पृथ्वी दिवस पर पूर्णिमा कॉलेज में नैशनल सेमिनार आयोजित

जयपुर। पर्यावरण के संदर्भ में कुछ समय पहले तक सिर्फ मशीनराई जमीन की ही खराबी बड़ी समस्या मानी जाती थी...

स्टूडेंट्स को मिले टिप्स

जयपुर। पूर्णिमा कॉलेज ऑफ इंजीनियरिंग में सेमिनार का आयोजन किया गया...

'प्रयोगम' में दिखे साइंस और टेक्नीक के इनोवेशंस

जयपुर। इंजीनियरिंग स्टूडेंट्स के बनाए मॉडल्स और प्रोजेक्ट्स की तीन दिवसीय एग्जिबिशन 'प्रयोग-2013' सोमवार को पूर्णिमा यूनिवर्सिटी में शुरू हुई...

सॉफ्टवेयर्स का डेमो
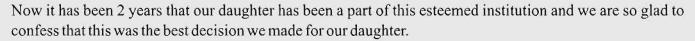
Parents'
&
Alumni
Views
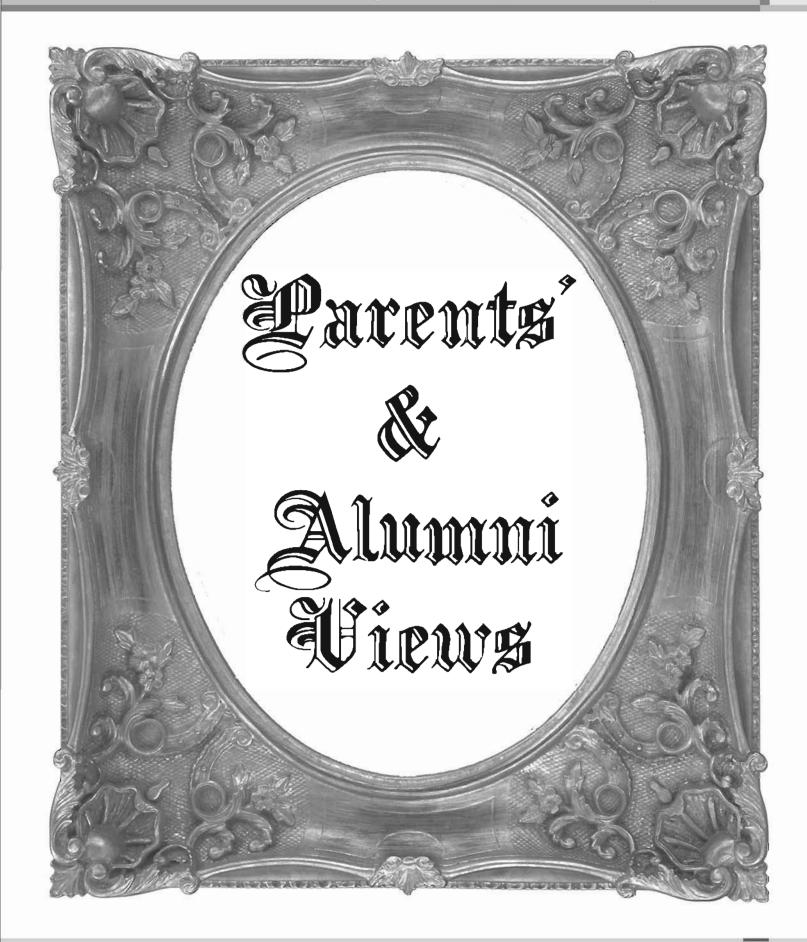
Parents' Message

Whenever one talks about the finest colleges we proudly say that our son is studying in one of those. The news of his placement was like a cherry on a cake. When our son was allotted the college, we till then had only heard about it from our colleagues who had their sons or daughters studying there. Coming here we found that Poornima stands firm on the standards for which it is famous. We got to know from our son that hostellers are not allowed to stay in hostel during college hours and there is a strict attendance system failing which the students are debarred. Moreover Poornima keeps us informed about our son's performance through mails and SMS. Besides zero tolerance for ragging was a big relief. All work and no play make jack a dull boy and we are pleased to know about the various events being organized besides regular classes. We are thankful to poornima for providing a sound environment for growth and development.

Prabhash Pandey
Vibha Pandey
Parents of Pankaj Kumar, IV year EE

We still remember the day when RPET examination results were out and being the parent we were anxious to seek for a college which could bring out the best in our daughter and then out search ended with Poornima College of Engineering.

Now it has been 2 years that our daughter has been a part of this esteemed institution and we are so glad to confess that this was the best decision we made for our daughter.

The uniqueness of the college lies in its teaching method which is traditional yet innovative and aims at nurturing the students and making them realize their true potential and caliber.

Poornima is amongst the top institutions of Jaipur. We can sense the change in our daughter too, from a happy-go-lucky girl; she has changed into a responsible, academic oriented girl. To every part, who would aspire for a better future for their child, we would recommend to opt. for Poornima.

We hope that Poornima rise to a great height.

Dr. Ashok Moondra
Mrs. Shikha Moondra
Parents of Kanika Moondra, II year, EE

First of all, we want to congratulate Poornima Group of Colleges for releasing another sculpture of creativity. As a mother I have always been concerned with my son and his performance in various activities. It is now getting to everyone that this era speaks about education but more than that it enchants about the personality development of the candidates to become an efficient engineer. Poornima not only provides platform to students but also encourage them to endeavour on. I can see lot of changes in my son's life as even in home time he keeps himself disciplined. Poornima institution has been fulfilling its onus of steering the students to the right path. More importantly the institution keeps us wired with the student's academic performance. All the faculties are very cooperative keeping their eyes always open for the welfare of the students. With the colossal group of experts, students have too many options to consult with. Department oriented newsletter keeps us informed about the workshops, competitions e.t.c. I will be failing in my duties if do not appreciate the college all-round fest "aarohan" where even the laziest ones avidly participate. Prayogam is another runway for these young planes to take-off to the new heights. Poornima actively invites students to celebrate auspicious events like teacher's day, women day, and engineer's day and off-course national festivals. Seeing my son cherishing in the learning atmosphere of this institution, I am very confident of my son and all the young bullets being trained in this powerful barrel. Once again a deep thanks to all the veteran members of Poornima Group of Colleges.

Mr. Dilip Srivastava
Mrs. Navita Srivastava
Parent's of Shubhashish Srivastava, II Year, ME

Education is not only propounding young minds with lots of knowledge but also it should arouse the sense of oneself in the individual. Individual should be able to realize their best of caliber and potential to carry out themselves in every sort of situation in their lives.

Engineering education being a challenging profession is being carried out by Poornima College Of Engineering, Jaipur with the epitome of great hard work and intellects. It's not only about my ward, but we can ensure that every student is able to groom his or her personality besides gaining knowledge from this educational institution. And the results wide popular regarding projects undertaken, placement activities, social services and various other programmes regarding soft skill development have set examples of success in various domains.

We appreciate and congratulate the faculty and staff for their hard work and remarkable achievements. We wish Poornima College Of Engineering, Jaipur, a grand success in their endeavour.

Mr. Anil Kumar Sharma
Mrs. Alka Sharma
Parents of Shewta Sharma, IVth Year, ECE

What Alumni Says

Well, as per PCE is concerned, it for me in not only a platform of higher and technical education only but my second home. I honestly have learnt to live life and gained the confidence of taking the crucial decisions of my life after joining the organization. I can never forget the first day of my college life when I was left alone in the college premises by my parents; though my hand was waiving in the air for saying them adieu but with the departing car and diminishing vision of my mother, I felt tears in my eyes. Anyhow, by collecting all my courage, I entered into the campus for facing new challenges of my life. I must say, it was only the concern of the faculty and the other staff which supported me to continue without my parents. The kind of training a student seeks by being here equips him to cope in the corporate world. The rigorous schedule of the day throughout the year with multidimensional tasking works as an armor for the individual facing the corporate challenges. On educational aspect, the institute is very good; rest is up to the student to utilize the facilities and experience of the faculties available. In terms of teaching methodology, PCE has very good faculties. The organization keeps a quite good balance of junior and senior faculties in all departments. I could say Dr.O.P.Sharma and Dr Rekha Nair who served excellent teaching and as well as the way they guided students for research projects was amazing.......there are many professors who are really student friendly to clear the students doubts nicely and smart enough to extract the work from students. There are students from different parts of the country which enables each and every member in improving the communication skills especially the acute focus is paid to the global language. The time to time conduction of various workshops, seminars, symposiums and other competitions in the college helps the students to gain knowledge in different technologies. I feel proud to admit that as the first hand experience the entire system seems very strict and honestly saying that the students start feeling suffocated and even frustrated but by the completion of course when an individual seeks selection, he appreciates the secret of the strictness which was mistaken as a brunt at the first hand experience.

The excellent placement facility in campus helps each and every student to seek a boast through placement at a minimum package of 2.8 and maximum package is 9lacs/annum and all the big and product based companies like, Intel, Microsoft, TCS, Wipro, Infosys, Indian Navy are the regular visitors of PCE. PAT cell is very sincere and they are playing a very vital role behind our placement right from the beginning.PCE has state of the art infrastructure. U would be proud to be a part of the institute. Students are advised to fully utilize the facilities of computing centers, sport, swimming, library, on line tests and gym, AL-Mart the retail outlet and the clean & hygienic food served at its various eating points. PCE's library is the biggest in all over Rajasthan in the queue of private engineering colleges incorporating more than 45 thousand different books are there all types of journals- national and international journals. Hostels are awesome separate hostels for boys and girls and moreover inside hostel all kinds of facilities are there, pure water, wi- fi , round the clock security system. Security is the major aspect in PCE everywhere you will find tight security. Campus is perfectly echo friendly. In addition to this the eco-friendly smart pro class rooms, all time available computer labs to work out our programs in our free times, clean n neat, pollution free, greenish campus, Fully secured. Well equipped library also digital library is available, fantastic hostels wit no. of blocks and 1000's of staffs to furnish us with good knowledge n so on. You will feel it when you're the student there! I, being your senior and obviously super senior boss would definitely like to advise you to follow each and every rule and regulation very positively for a promotional beginning and an awesome career. Wish you all the best and a rocking future in Poornima Sansthan.

Gaurav Bansal
CRM Solution Consultant, IBM India Pvt. Ltd., Noida

From Personal to Technical

(Students' Articles)

SOCIAL SERVICE: BEING AN HELPING HAND

The best way to find yourself is to lose yourself in the service of others. Keeping this quote in mind the Social work coordinators at PCE also do various distinguish work. As to help people when they need money for health care, food, heating, etc, but cannot afford it on their own is Social service. Here apart from the academic activities much importance is given to Social service in Poornima College of Engineering, I myself noticed that students are also engrossed in various social activities at Poornima so that they row to serve. Several clubs are run by students of Poornima for various purposes. After few weeks of getting admission in Poornima College of Engineering, I came across a social club named Friends Club which collects the used things , clothes and funds from the students and faculty and provide them to those people who are in much need.Poornima College of Engineering also organises a Blood Donation Camp at certain times in a year in which students donate their blood which is used for the people in need. Besides these activities I noticed that an environment of social service resides here as no one denies if asked for any type of help . Instead everyone helps with a smile which tells us about the healthy environment at Poornima. Thus Poornima College of Engineering not only makes us better Engineers but also better humans.

Abhimanyu Trika
I year, IT

P-PROSKEP

The acronyms stands for " POORNIMA PROFESIONAL SKILLS KNOWELEDGE ENHANCEMENT PROGRAM". This program helps in enhancing effective communication and interpersonal skills that play a crucial role in gaining employment opportunities in the business environment and to successfully complete in the business environment. It is this activity which helps us to put our domain knowledge into effective practice. PROSKEP curriculum with soft skills training provides a unique opportunity for all the students to develop their personality and upgrade their communication and presentation skills. This training benefits the students both in early professional careers and in their social interaction in the students in careers visioning and planning, effective resume writing and dealing with placement consultants and head hunters.This training is conducted in a very interesting and interactive manner which gives ample scope for the students to interact with each other and face a wide variety of issues, topics and situations that they are likely to come across as entry level managers.Soft skills provide students with a strong conceptual and practical framework to build, develop and manage teams. It also provides strong practical orientation to the students and helps them in building and improving their skills in communication, the effective use of English, presentation team building, leaderships, time management, GD, interviews and interpersonal skills.

Kanika Moondra
II Year, EE

GURUSHIKHAR HOSTEL: SWEET EXQUISITE RESIDENCE

"Hostel" a word that scares the living daylights of most students. The first thought that comes to students and parents minds' when they hear the word hostel is "ragging". But what an environment provided here, where juniors and seniors live in harmony, where the concept of anti-ragging is strictly imposed and where there is an atmosphere of coordination, co-operation and socio-living. What would you call such a place? We, the students of boys hostel, would definitely call it Gurushikhar. A place where, all the festivals including Christmas to Diwali and Eid to Dussera, are celebrated with great enthusiasm and spirit. And not to forget the live telecast of most watched events such as IPL finals etc being shown on projector screens. The regular sports events such as Tug-of-War, carom, chess and table tennis tournaments add the much needed respite to our daily monotonous life. To top it all of the annual hostel fest "Aayam" is literally the time to let go and enjoy fully during the evenings. With basketball, volleyball and LAN gaming tournaments apart from the grey cell juggling IQ meter, Quiz, Treasure Hunt and a long list of other events, the students almost forget to visit the mess. Gurushikhar does not lag behind in the food department as well. The mess has wholesome and homely food serves meals 4 times a day. The menu of the items is designed in consideration with requirements of the students and nutrition is added to make it healthy and complete. The hostel also has clubs and mentorship system designed to develop the students' personality and to help him with his academics as well. . Mentorship, an intensive concept of 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.

Gurushikhar teaches us how to be self-dependent, self-sufficient and above all the quality of bonding and making friends. The team of wardens and guards headed by Mr.Ashwini Lata do a fantastic job of allowing the students to develop and discover themselves while keeping a check on their habits. The daily availability of newspapers-DNA and Times of India- help students stay up-to-date with the worldly events. Services like laundry, gym, T.V room etc ensure that students do not face any difficulties. Coupled with 24 hrs Wi-Fi connection and a separate NET lab for 1st year students, it is a complete "Home Away From Home". I believe that every student should have stayed in a hostel at least once in his life and I am happy to have spent that time in a hostel where we are able to develop our own selves. The stay in Gurushikhar gives a sense of camaraderie and fraternity amongst the students

Ankit Dalal
III Year, Mechanical

GAYATRI- GIRLS HOSTEL

HOSTEL…When one hears this word…Lots of mischievous things come to their mind.

If one is tolerating her roommate, then on the other side someone is living her whole life with her so called "ROOMATES".

It's just not about living in a hostel… it's just not about sharing a room….it's all about making it a "beautiful" part of your life.

Can't forget how we relieved ourselves from the tensions of the entire world when we step into our room…, how we keep on gossiping in the garden & laugh out louder…, how we sit together on the same table of mess & have our meal.

It was more fun when we participate in the activities organised in the hostel. I remember how we compete with the girls in the same hostel whether it's a volley ball, kho-kho, dodge the ball or it may be a dance, singing. Every festival is celebrated here with full enthusiasm.

Wardens are responsible for creating a safe aura around us.

Best part of the hostel life is the one's birthday. I can say this with full confidence that one must not had a better birthday celebrated at other place. Decorating the room…. Calling everyone to your room……shouting , laughing and dancing on loud music … leaves an everlasting impact on your heart.

Sleeping at 2 or 3…not a big deal but a daily routine.., studying in groups…in fact sort of coaching classes goes on during exams…

May be these days, these chit chats, these nights of hostel will never come…but what we've with us are the "Memories" which we'll bring a great laughter on our face with tears in eyes.

Deepika Vaishnav
IV Year, CS

ARBUDA

In addition to excellent academic program, outstanding facilities are provided by Poornima Group of Colleges and one such facility is having an auditorium with seating capacity of approx 500 students. The Arbuda Convention Centre is the jewel of PIET which is equipped with state-of-the-art technologies such as 3-way Dolby sound, disco lights, front and back screen projectors. It has the feature of lights that animate the stage with music.

It is operated in an efficient and professional manner by friendly and well-trained staff making every occasion memorable one for all guests, participants and audience. It is in fact, the nerve centre as it is the place of performances for all literary, cultural and academic activities. The auditorium is centrally air-cooled with a fully sound of set up and equipped with latest technology for all types of video/audio presentations. It has witnessed many seminars, workshops, conferences, debates, cultural programs like plays, dances, skits and will continue to do so.

Above the Arbuda, there is one Examination Hall that comprises of six GD rooms and a very large hall with a seating capacity of around 400 students. Many companies seek this hall for the purpose of training and placement activities.

Aditi Agarwal
IV Year, IT

UNIFORM : A FEEL OF ONENESS

Uniform is a distinctive outfit intended to identify those who wear it as a member of a specific group. It defines unity and a common idea for the students to endeavour with. The wearing of uniform emphasizes membership and group identity, fostering a community spirit. In the mob of thousand one can easily distinguish its own member belonging to the same group with same set of thought and with same purpose. The wearing of uniform helps student to realise that a person's unique gifts and personality traits go deeper than their apparel and aren't diminished by uniform. Uniform also showers respect to the institution apart from common point of view towards institution. As far as today's scenario is concerned, the youth's enthusiasm and personal freedom is been rapidly interfered by such clothing. It also interferes with students' right for self expression. Many of institution prepare those uniform which are rather cumbersome than simply being motivated. Although uniform has many questions yet it answers them justifiably giving equal skin to all the colours of human races. As per my opinion the uniform in poornima family a sense of belongingness and also eliminates the differences between students coming from different backgrounds. We look elegant in our uniform and represent the most prestigious Poornima College. The valour of college is so majestic that not only students but the faculty, the management and administration and even staff members are provided with assigns dress code. It presents a splendid example of equality that is " Poornima Sansthan"

Irrespective of who we are, from where we belong to, uniform provides a common eyes to see the world.

Saket Verma
II Year, ME

TRANSPORTATION: THE CAPTIVATING FEATURE

The invention of wheel is not just something man came across in time. It is a phenomenon, a yield of man's need to save time and from that instance man unknowingly discovered the process of mobility- Transportation. And in that sector of facilitating students, the ace holds Poornima Foundation on its frontage. Transportation facility is one of entrancing features of our college. College has a fleet of XX Swaraj Mazda Buses ready to escort and drop students from every nook of the city. The college also runs separate faculty buses. The gleaming yellow buses bearing the Poornima brand on themselves can be seen anywhere running high and low in the city; with the small battalion of the drivers ever ready to perform their duty.   Moreover, the college runs a regular shuttle service through college buses; circulating among the member institutions of the Poornima Group i.e. Poornima College of Engineering (PCE), Poornima Institute Of Engineering And Technology (PIET), Poornima Group Of Institutions (PGI) and Poornima University (PU). Transportation facilities are available round-the-clock to the students for emergencies. All industrial visits, college trips, or any other event needs quick transportation service; and that is also accomplished through college buses. All buses are serial numbered and have been named on rivers of India and World. The buses are regularly checked and the college has a workshop for service and maintenance of the buses. Home to college and then back home is a considerably long time, which is curtailed by the college buses and again shortened by them too as it is time spent with our friends chatting, discussing, enjoying music and also completing our assignments and tutorials (seriously; those people not just say, they actually cut our marks!). I believe that without transportation facility a college is like a skyscraper with no elevator. And our college has those efficient elevators which let us ascend to great heights.

Abrar Ahemad Warsi
I Year, CS

AUTOMATIC METER READING

Automatic meter reading (AMR) is the technology of automatically collecting data from energy metering devices (water, gas and electric) and transferring that data to a central database for billing and/or analyzing. This spares the employee from making trips and the billing is based on actual consumption rather than on an estimate based on previous consumption, giving customers a better control on their use of electric energy , gas usage or water consumption.

A Transmitter is connected to the meter and it counts the pulses from it and displays it over the seven segment display. The data is transmitted over radio frequency. At the receiver end, the data is received by a receiver module and the microcontroller displays it over the seven segment display.

Pratyush Raj
II Year, EC

GESTURE TECHNOLOGY

Gesture recognition is a topic in computer science and language technology with the goal of interpreting human gestures via mathematical algorithms. Gestures can originate from any bodily motion or state but commonly originate from the face or hand. Gesture recognition can be seen as a way for computers to begin to understand human body language, thus building a richer bridge between machines and humans than primitive text user interfaces or even GUIs (graphical user interfaces), which still limit the majority of input to keyboard and mouse. In com-puter interfaces, two types of gestures are distinguished namely: Offline and Online gestures. Depending on the type of the input data, the approach for interpreting a gesture could be done in different ways. Models/Algorithms used are namely: 3-D Model based, Skeleton based and Appearances based. Some of the input devices used are wired gloves, Stereo Cameras, Single Cameras etc. Uses of this technology are too many whether in Remote control, Robotics, Immersive game technology, Virtual Control-ler etc.

Shivam Khandelwal
III Year, CS

GOOGLE GLASS

Google Glass (styled "GLASS") is a wearable computer with an optical head-mounted display (OHMD) that is being developed by Google in the Project Glass research and development project, with a mission of producing a mass-market ubiquitous computer. Google Glass displays information in a Smartphone-like hands-free format that can communicate with the Internet via natural language voice commands. Google Glass is a camera, display, touchpad, battery and micro-phone built into spectacle frames so that you can perch a display in your field of vision, film, take pictures, search and translate on the go. Google Glass uses display technology instead to put data in front (or at least, to the upper right) of your vision courtesy of a prism screen. This is designed to be easily seen without obstructing your view. The embedded camera obviously does not need a view-finder because it is simply recording your first-person perspective, allowing you to take snaps or footage of what you are actu-ally seeing. Any function that requires you to look at a screen could be put in front of you.Controlling this data is the next neat trick. With a microphone and touchpad on one arm of the frame, you can select what you want to do with a brief gesture or by talking to the device, and Google Glass will interpret your com-mands.Google Glass can also provide sound, with bone-induction technology confirmed. This vibrates your skull to create sound, which is both more grisly sounding and much less cumbersome than traditional headphones.

Vinit Kumar Kumawat
IV Year, EIC

GOOGLE T. V.

Google has been eager to get into television for a while now. First there was Google TV, which fell flat after content owners blocked it and consumers complained about the quality. It died before it ever had a chance.

Chromecast is little device that plugs into the back of a television, allowing users to send video to their TVs from the Chrome Web browser, and it has a lot going for it. At $35, it's cheap. It's also compatible with any device that can run apps and a Web browser, unlike Apple TV, which was designed for people using Apple (APPL) laptops, phones, and tablets.

Google said in a statement that it "would like to support all types of apps, including those for local content. It's still early days for the Google Cast SDK, which we just released in developer preview for early development and testing only."This summer, deals between content providers and Internet companies seem to be heating up. Any such changes, though, are going to happen on the content companies' terms. And the best way to scare away companies such as HBO would be to build Internet-connected television devices that make it easy to watch pirated content.
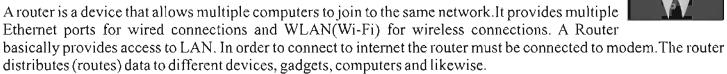
As it stands, mobile apps can work with Chromecast only if the developer writes that ability into the app itself. It's telling that pretty much the only apps it works with are YouTube and Netflix (NFLX) and that means giving control to the people who make shows, rather than to those who watch them.

Bhavneet Agrawal
III Year, EE

MODEM VS ROUTER

The modem encodes and decodes data so that it can pass between our home network and the ISP (Internet Service Provider).The modem brings the information in i.e.it is a bridge between our system and ISP.

A router is a device that allows multiple computers to join to the same network.It provides multiple Ethernet ports for wired connections and WLAN(Wi-Fi) for wireless connections. A Router basically provides access to LAN. In order to connect to internet the router must be connected to modem.The router distributes (routes) data to different devices, gadgets, computers and likewise.

We see modems as 3G USB modems, Express data card, internal modem, Radio modem, Mobile broadband modem(GPRS,UMTS,HSPA,EVDO) , but we won't find ADSL modem(asymmetric digital subscriber line).In the market we generally find routers, routers with built in modem features, wireless routers and 3G routers.

Kartik Modi
II Year, CS

PORTABLE WINDMILL MULTIPURPOSE CHARGER

This is an ordinary application of an invention for charging of mo-bile and other devices through windmill in trains, buses and in that places where wind energy can be converted into electrical energy. This device comprises of a small fan(which can be portable) made of a light material like a simple fiber and a dynamo (dc mo-tor) of 12 volt which can provide ampere of current. The fan is fit-ted to the dynamo and a voltage regulator with current division circuit is also fitted to the dynamo which will simultaneously charge the device and the remaining charge will be stored in the battery. The fan is covered to the square structure of some light material like a fiber by their sides which will increase the lifespan of fan and will keep the user safe. A strong clamp is provided to this structure .This clamp can be fitted to the window railing (towards outside) of the train attached to the dynamo. It is used to support the dynamo against the pressure of air when the train is in motion.
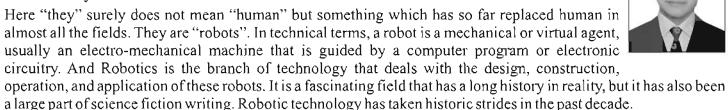
Harshul Balani
Bharat Jain
II Year, EC
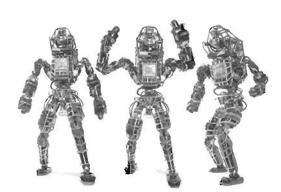
ROBOTICS

"They" record our shows, cook our food, play our music, and even run our cars. We just don't see it because "they" don't have a face we can talk to or a skin we can touch!"

Here "they" surely does not mean "human" but something which has so far replaced human in almost all the fields. They are "robots". In technical terms, a robot is a mechanical or virtual agent, usually an electro-mechanical machine that is guided by a computer program or electronic circuitry. And Robotics is the branch of technology that deals with the design, construction, operation, and application of these robots. It is a fascinating field that has a long history in reality, but it has also been a large part of science fiction writing. Robotic technology has taken historic strides in the past decade.

The future of robotics can be influenced with the aspect of cooperation between robots with different capabilities .These technologies deal with automated machines that can take the place of humans in dangerous environments or manufacturing processes, or resemble humans in appearance, behavior, and/or cognition. Though a significant percentage of robots in commission today are either human controlled, or operate in a static environment, there is an increasing interest in robots that can operate autonomously in a dynamic environment. These robots require some combination of navigation hardware and software in order to traverse their environment. Some highly advanced robots such as ASIMO, and Meinü robot have particularly good robot navigation hardware and software. Also, self-controlled cars, Ernst Dickmanns' driverless car, are capable of sensing the environment well and subsequently making navigational decisions based on this information.

Robotic technology also gave rise to one of the major phenomena that is "Artificial Intelligence". It is the science and engineering of making intelligent machines and a branch of computer science which aims to create it. Artificial intelligence and robotics are often utilized together in efforts to create "smarter" robots. And these robots can and will change our lives in the near future. Right now all modern technology is designed to bring the world to us; phone, radio, television, internet, but if trends continue, robots will soon bring us to the world, everywhere, and at the speed of thought.

Saloni Manaktala
I Year, CS

SAVE ENERGY

Why do we need to save Energy? In the past few years, the consumption of energy was not high. But with increasing development, change in lifestyle, growing population and depleting resources, the consumption has increased significantly. In case of petrol, the prices have increased abruptly and are still increasing. In case of Electricity, some places have seen an increase in tariffs, but most of the houses in the country are still protected by subsidies. But the status cannot be maintained for long as the power companies are under huge losses because of increase in coal prices (most of the electricity is still generated on coal).The alternative source of electricity generation has still not reached a state where they can replace coal. As per the World Coal Association with current rate of production, Coal will last for only 118 more years. Increasing population will bring that down further and thus price of coal is set to increase many folds. Another major reason for saving electricity is that burning of coal produces emission of gases that are linked to weird climate change. Sufficient supply of energy is the highest need for developing a country. We are in such a phase in this world where energy crisis is looming large on us. For India to achieve sustainable growth, we need to make sure that we do not suffer from energy crisis. So it is very important that we should start saving energy or electricity. Even a small effort from all of us collectively will help our country to develop in a sustainable manner. Everyone should save and pass this habit of saving energy to our next generation for a better present and future.

Siddharth Dadich
III Year, EE

SEARCH ENGINE OPTIMIZATION

Search engine optimization deals with enhancing the visibility of a website or a web page in a search engine's un-paid search results. It is a required skill for a website to be visible in the search results as that will bring more users to it. Webmasters and content providers began optimizing sites for search engines in the mid-1990s, as the first search engines were cataloguing the early Web. Early versions of search algorithms relied on webmaster-provided information such as the keyword Meta tag, or index files. The meta tags and the keywords in them were provided by the webmasters and thus the process was less reliable because keywords provided maybe potentially inaccurate representation of the site's content. This caused pages to rank for irrelevant searches. The various techniques used for SEO are Getting In-dexed, Preventing Crawling, and Increasing Prominence. Certain unethical techniques are also used which may result in permanent ban of the site or web page as it may violate the policies of the search engine.

Nitin Pamnani
II Year, CS

THE TRENDS OF TECHNOLOGY

The people are today living in the world, where technology and gadgets have far exceeded the tag of being just a necessity. It is an integral part of life. Going beyond the boundaries and talking more than just of our nation, we would land up in an Eldorado where every single thing is done by devices which can generally fit into spaces nothing more than the pockets and carry the capacity of high manpower. Not many of us know that the internet, which has become our best buddy, is older than the old man walkman; or that the mouse is older than the average person using it. Many people bemoan the fact that we spend a large share of our lives being dependent on this wired or the more advancing wireless era. We find majority of the people spending times with their interest rather than their closest friends. The definition of basic necessities just got advanced to four-food, shelter and gadgets.

Let us start with the common cell phones for instance, that has just turned 40 years older. It was invented on 17th October, 1973 by researcher Martin Cooper. The walkman too turned 34 as it was invented on 1st July 1979. From being a matter of luxury for the rich to being an absolute necessity for common man, these gadgets have come a long way. We can equate them to an extension of human body now. The mouse that turned 41 years was invented in 1968, by Douglas Engelbart whereas the internet is a little younger, being born in the year 1969, it completes 40 years of royalty.

This actually shows that the technology isn't as young as we thought it to be. But what does the future hold for Microsoft's business model?

In Microsoft's 36 year history Window has been the key sales driver for the IT giant. It remains to be seen how the IT giant will change its business model to ensure another 36 years in the industry. Let's see this year proves to be a landmark to some of the greatest inventions in the history of mankind. It seems like the technology has just started emerging, however has got a long way to go.

These gadgets above all perk us up and give a helping hand in times of adversity. For example, if I would be extremely upset, and my cell phone or my e-mail inbox shows some new updates from my immemorial friends, the same tears in my eyes would be metaphoric to happiness. Friends or foes? The answer differs for different minds, but one thing is for sure, we can hardly think for spending our lives omitting technology.

Kalpana Modi
II Year, IT

VARIABLE RESISTANCE NONVOLATILE STORAGE DEVICE

It's a device way to build what many see as the next generation memory storage devices for portable electronic devices including smart phones, tablets, laptops and digital cameras. The device is based on the principles of resistive memory, which can be used to create memory cells that are smaller, operate at a higher speed and offer more storage capacity than flash memory cells, the current industry standard. Terabytes, not gigabytes, will be the norm with resistive memory The key advancement is the creation of a zinc oxide nano-island on silicon. It eliminates the need for a second element called a selector device, which is often a diode.

Flash memory has been the standard in the electronics industry for decades. But, as flash continues to get smaller and users want higher storage capacity, resistive memory has a simple structure, high-density integration, fast operation and long endurance. Resistive memory usually has a metal-oxide-metal structure in connection with a selector device. They invented a self-assembled zinc oxide nano-islands on silicon..
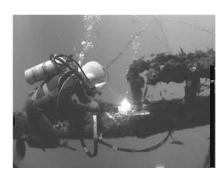
Shobhana Bhardwaj
II Year, EC

UNDERWATER WELDING

Underwater welding can be performed under wet or dry conditions. Dry underwater welding refers to underwater welding which is performed under hyperbaric conditions (an underwater habitat is displacing the water with a gas at the prevailing pressure), and wet underwater welding refers to welding which is performed in fresh- or salt-water without a protecting habitat.

Wet underwater welding will hereafter be referred to as —wet welding, and wet/dry underwater welding will simply be referred to as —underwater welding. The most commonly used wet welding technique is shielded metal arc welding (SMAW), also known as manual metal arc (MMA) welding or informally as stick welding. Wet underwater welding is performed by using a (usually motor generated) power source generating DC current only (for wet welding AC is not used on account of electrical safety and difficulty in maintaining a welding arc underwater), the inclusion of a single or dual pole knife switch (circuit breaker), which protects a welding diver from electrocution, and the use of double insulated cables. Both the power source and knife switch (capable of breaking the full wet welding current) are secured above water (grounded) and controlled (on the diver welders command) by an operator. The cross section of the welding cable is adjusted to the length of the cable and should be highly wear resistant (marine growth) and sufficiently flexible; special welding electrode holders are used with extra insulation against the ingress of water.

Siddharth Jain
IV Year, ME

ENGINEERING ETHICS

ENGINEER, the three E's of the word itself are sufficient enough to define the life on the earth. The three E's explain the effectiveness of the evolved creature engineer on the life surviving on the earth. The three E's i.e., EASY EASIER EASIEST is what the life became with every next step of development by them.

Being a disciplined professional competent job there was a need of specific tier of education specialization to excel in the field and the outcome was "ENGINEERING". But alone engineering did not solve the problem. Further the problem was observed for need of set of values and guidelines which would help the engineers to utilize their resources in fruitful manner.

Sooner the problem was solved with the help of concept of "ENGINEERING ETHICS". It is a field of applied ethics and system of moral principles that apply to the practice of engineering. This concept explains an engineer should serve all member of the community in enhancing their welfare, health and safety by creative process utilizing the engineer's knowledge, expertise and experience. The ethics encourages engineer to abide by the broad principle of truth, honesty, justice, trustworthiness, respect and safeguard of human life and welfare, competence and accountability.

The major outburst for the need of engineering ethics took birth in view of globalization, concern for the environment and the concept of sustainable development.

Never the less, the Energetic Nurtured Generation Indulge for Newest Edification of Earth Resource have mange to abide by the Engineering Ethics but the over use of technology is a greater concern for mankind and the mother land.

Vaibhav Mishra
I Year, EC

ETHICS IN TECHNOLOGY

Ethics in technology is a subfield of ethics addressing the ethical questions specific to the technology age.It is often held that technology itself is incapable of moral or ethical qualities, since technology is merely tool making.

But many now believe that each piece of technology is endowned with and radiating ethical commitments all the time, given to it by those that made it and those that decided how it must be made and used. Technology is socially constructed. Technological designs express what we want and they shape who we are. People in allwalks of life are involved in demanding, making, marketing, using, maintaining, regulating and disposing of technology.

As, we design technology, so we design our lives, realise our needs, create opportunities and establish constrains. It all needs ethics and moral rules so applied in technology.

Virtually, all current systems have been rendered obsolete by tech developments of last 15 years. We race with these obselete systems down the path towards a truly broken world with each passing day; politics, media and entertainment, education, security and economics and more. All of these in the current form arose in the past era, and of "mordern" industrial technology.

The technology changes of our day have altered the power,independence and the range of the individuals, they have realigned the locus and structure of power and have dissolved between hostile or competitive entities.

Each one of us knew the constant impulse in human beings to be exploitive, vile, greedy, lustful and pursuing base vices? It abounds, and now upon us will be people in our midst to magnify, intensify and enhance degrees with instanteneous range and reach, precisely what they are as peoples.

The very most important technological development of the many that warrant deep concern, are unnamed instruments of war, battlefield robots and drones.

Drones operate in the enormously dangerous zones in which human presence to the taking life is removed, deadening the conscience and anesthetizing experience of harm and even of evil. These developments already crossed a line that threatens not only the history but threatens our very humanity. So, these ethics do we are moving on?

Simran Sharma
I Year, CS

"BRAIN GATE –TURNING THOUGHTS INTO ACTION"

Brain gate is a brain implant system and previously owned by cyber kinetics currently under development and clinical trials designed to help those who have lot their limbs orany other bodily parts.

Research on Brain Computer Interface (BCI)s has been going on for more than 30 years, but from the mid-1990s and there has been a dramatic increase in working experimental implants.

Brain gate was originally developed by researchers in the department of Neuroscience at Brown University in conjugation with Cyber kinetics, Inc.

At first, rats were implanted with BCI. Signals recorded from there cerebral cortex of rat to operate BCI to carry out the movement

Brain gate is an electrode chip which can be implanted in the brain. When it is implanted in brain then electrical signal exchanged by neurons within the brain.

The signals are sent to the brain and it executes body movement. All the signaling process is handled by special software. The signals send to the computer and then the computer is controlled by patient.

The system consist of a sensor that is implanted on the motor cortex of the brain and a brain gate neural interface device that analyze the brain signal and then it is connected to external decoder device which decodes the neuro signals and converts them to electrically charged signals. And then from these signal we can control an external device, such as robotic arm, a computer cursor, or even a wheel chair.

In essence, Brain gate allows a person to manipulate objects in the world using only his or her mind. The sensor is 6mm long and fitted in brain. The software algorithms are written in C, JAVA, and MATLAB.

Brain Gate can help paralyzed people moved by controlling their own electric wheelchairs, communicate by using e-mail and Internet-based phone systems, and be independent.

Suerly its like a blessing for paralyzed people.

Rajat Kumar Yadav
I Year, CS

ELECTRO-MECHANICAL MACHINE

Robotics is the branch of technology deals with the construction, operation, and application of robots. These technologies deal with automated machines that can take the place of humans in dangerous environment or manufacturing processes, or resemble humans in appearance, behavior, and cognition. Many of today's robots are inspired by nature contributing to the field of bio-inspired robotics. These robots have also created a newer branch of robotics i.e. Soft robotics.

Basically a robot is an electro-mechanical machine that is guided by a computer program or electronic circuitry which, by its appearance or movements, conveys a sense that it has intent of its own. Today robots have replaced humans[in the assistance of performing those repetitive and dangerous tasks which humans are unable to do due to size limitations, or even those such as in outer space or at the bottom of the sea where humans could not survive the extreme environments. As robots become more advanced, eventually there may be a standard computer operating system designed mainly for robots. Robot Operating System is an open-source set of programs being developed at Stanford University . ROS provides high-level commands for items like image recognition and even opening doors.

In today's scenario, Robotics is an essential component in many modern manufacturing environments. Here are some main components of robotics-

1.Manipulation- Robots must work in the real world therefore it needs some way to manipulate objects; pick up, modify, destroy or otherwise have an effect.

One of the most common effectors is the gripper. It consists of just two fingers which can open and close to pick up and let go of a range of small objects.

Vacuum Grippers-Pick and place robots for electronic components and for large objects like car windscreens, will often use very simple vacuum grippers. These are very simple, but can hold very large loads, and pick up any object with a smooth surface to suck on to. General purpose effectors: Some advanced robots are beginning to use fully humanoid hands, like the Shadow Hand (right), or the Schunk hand.

2.Locomotion- It is also a component and deals with mobile robots."Ballbot" is a self-contained, battery-operated, omnidirectional mobile robot that balances dynamically on a single urethane-coated metal sphere. It weighs 95 pounds and is the approximate height and width of a person. There are some tracked, spherical ob and walking applied to robots also that comes in this category.

3.Human- robot interaction- It includes speech reorganization, robotic voice, facial expression, gestures & artificial emotions etc. All these things will help people to communicate with robots.

Arti Sharma
II Year, EC

TECHNOLOGY- A BOON OR BANE...

"This is not the age of pamphleteers. It is the age of engineers. The spark gap is mightier than the pen." rightly said by Lancelot Hogben. The world has changed; all credit goes to our engineers and their technologies. What you see something technically sweet, you go ahead and do it and you argue about what to do about it only after you had your technical success. Yes!! "Technical success", this is what, which is changing the world. "Gutenberg made everybody a reader; Xerox makes every body a publisher." Yes!! This is how much technology has advanced. When we talk about first computers, it reminds us about a whole city block and now if we talk about computers, it is hardly a microchip, smaller than size of our nail. Today we are surrounded by machines; from nip of the pen to the tip of rocket; from sunlight to moonlight. Our day begins with technology and ends with technology. And now it does not limit itself till we do not sleep, it is now able to capture our dreams and modify them. Dear technology, please leave our dreams DREAMS. "Necessity is the mother of invention". This is the quote which we are listening from our very childhood. We used to practice cursive on this but now as ENGINEERS we are actually practicing on what it literally means. Technology has advanced so much that it gas captured our lives; not partially but wholly. If we take a glance at latest technology, people are now able to print 3-D objects and make stem cells. I think it will not take a long time when we will be able to create a new kind of animal who will work as per our needs without nothing or only something to eat; and the new human will be SUPERHUMAN. One can easily understand how dangerous it would be. Person will become GOD and would be able to control death or birth. I suppose this was not what Newton and Einstein meant. Everyday I see the huge material, intellectual and nervous resources of thousands op people being poured into the means of total destruction, something which is capable of annihilating al human civilization. I notice that the control levers are in the hands of people who, though talented in theirs own way, but are cynical.

Technology has advanced so much that it captured our lives but it is not yet able to capture the natural deeds. The nature, in her own way, marks her presence and this can be destructing too-as we see many a times. Technology is about making life simpler not about making people its slave or MASTERS OF THE WORLD. What all the world desires is to have-POWER, but make sure this power do not lead you towards your destruction. Otherwise, Engineers you all are smart enough to understand what I mean. For a successful technology you should know NATURE CANNOT be FOOLED or WON.
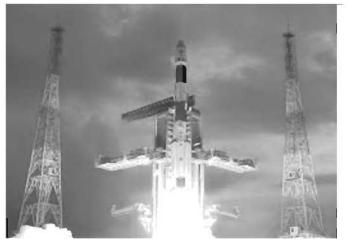
Vaidehi Sharma
I Year, EC

INDIAN MOM IS THE BEST....

Before sending an obvious signal to your brain that this article comes with another stereotype homology, just let your eyes to have a patience reading. You will get the reason why topic of such article is been put in technical section. India although never have been a pioneer in aeronautical engineering, but the whole world rely on India as this country have always shown a great enthusiasm. India's mars mission by ISRO (Indian Science and Research Organization) is well-known to everyone but well-understood to fewer ones. 5th November 2013, India's Mars Orbiter Mission (M.O.M.), launched PSLV-XL that will reach mars in September 14 next year. If we think India have used foreign segments to get their work done, then have a look to production cost and observe the reason. India's pocket has suffered only 4.5 billion rupees which is world's cheapest Spacecraft that have ever been made. Reason comes out to be the most genuine as all the

materials used in making are indigenous. Mangalyaan would stretch 690 million km but in actual Mars and Earth are only 55 million km away but such trajectory of the craft will cost lot of energy. Face book page of ISRO's Mars Obiter Mission tells us: "Kashmir to Kanyakumari! Imagine throwing a peanut from an express train, speeding out of Jammu Tawi railway station, in such a way that it should land in the pocket of a captain steering a ferry zipping into the jetty at Kanyakumari. That's simpler than making MOM orbit Mars!" If you think that's an exaggeration, you are so wrong. But this is not science fiction. This is science at its most glorious, allowing Indian scientists to do what they do best: find solutions to challenges they only dreamed of before. This is India's first interplanetary mission means before that we were living in the era Aryabhata! Mars Colour Camera (M.C.C.) will provide images of Martian surface. Lyman Alpha Photometer (L.A.P.) is equipped to measure the amount of hydrogen and deuterium in the Martian upper atmosphere. M.O.M. matters a lot to all the common Indian people, our future is now on the wheels of missions like this one. Where would we working tomorrow depend on our country's technical growth? One 'simple' thing that is worrying Indian geniuses a lot is it must also be able to correct itself autonomously should anything go wrong, because as it gets further away from Earth, you will no longer be able to control it in real time. We have to pull our socks now not becoz time has come but it is actually running, world has already been woken up.

Shubhashish Srivastava
II Year, ME
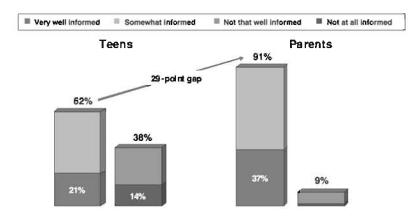
COMMUNICATION GAP BETWEEN PARENTS AND CHILDREN

When a child begins speaking words and sentences parents use 'baby babble', they help the children develop their natural skills by speaking proper language to them. The bond between the parents and children grows to different height one they have this ability to communicate their thoughts and feelings. With the passage of time as the children grow up this "communication bond" becomes "communication gap". These children that is the teenagers feel that their parents do not understand what their lives are like on their need to be independent and make their own decision and finally they feel that their parents are too hard to talk to because they do not have time for them.

The teenagers face so many new issues in their lives which they want to share with their parents, but mostly fail to do so for their parents in difference. They feel more comfortable to share their feeling with their peers, who also sail in the same shoat and, more often than not, put pressure on then to do things such as tasting drugs, alcohol, smoking etc which they would not like to do normally.

It is a proven fact that youngster is inspired and motivate from their parents but at the same time they easily get annoyed from them. Sometimes when parents pressuring their children to perform a task, they do not take into account their likes and dislikes, and as a result they may fail to handle the pressure. the pressure sometimes leads to the formation of this gap.
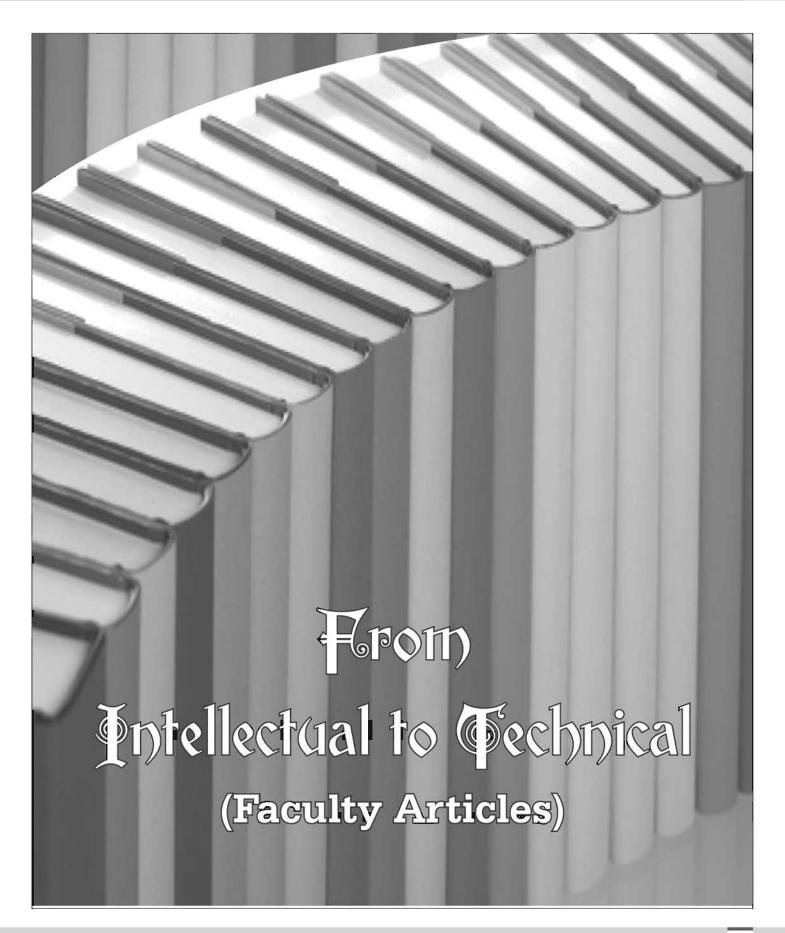
A teenagers feels that he is now grown up enough to take independent division on his own. He does not need his mamma to pick out his clothes for him or show him how eat food with manners. Daddy des not need to take him by the hand and show him the way. This feeling of becoming grownup, rats a distance between him and the parents. Now he spends less time with them that weakness the bond between them.The feeling of independence and close proximity with the peers prompts him to do things on his own without taking advice of parents. in fact, he does to like their unnecessary interference in his work. Thus the distance between them increase leading to communications gap.

Who is to be held responsible for this the parents need to groom the child properly and inculcate in him a positive way of thinking and when the child grows up they should spend some quality time with him to show his personal problem. The close the parents are with him, he will feel secured. The youngster should also understand the need of parent's timely advice in all their endeavours to achieve something. Parents love him and will go to any extent to solve his problem and make him happy.

So, to create and cement to close bonding it is necessary that both parents and children should bring the positive love energy into their conversation that will ultimately bring both parents and children close to each other.

Deepika Prakash
I Year, EC

From
Intellectual to Technical
(Faculty Articles)

CHARACTER RECOGNITION: UPCOMING TOOL FOR AUTHENTICATION

Character Recognition (CR) is a method, which correlates a symbolic meaning with objects (letters, symbols and numbers) drawn on an image, i.e., character recognition process relates a symbolic identity with the image or picture representation of a character. Handwritten Character Recognition (HCR) is the capability of the computer to intelligible obtains the handwritten input. It has fascinated voluminous research in recent times and received widespread attention in academic and production fields. CR is an important area in image processing and pattern recognition.

Pattern recognition is the study of how machines can examine the situation, learn to distinguish patterns of interest from their background, and make sensible and reasonable decisions as regards to the categories of the patterns [1]. A complete pattern recognition system consists of a sensor that gathers the observations to be classified or described, a feature extraction method that finds numeric or symbolic information from the observations and a classification scheme or classifier that does the actual job of classifying or describing observations, relying on the extracted features [1, 2]. Character recognition (CR) is a sub-field of pattern recognition in which images of characters coded are returned, these when rendered give the text image are recognized and as a resultof recognition respective character codes are returned, these when rendered give the text in the image. The problem of character recognition is the problem of automatic recognition of raster images as being letters, digits or some other symbol and it is like any other problem in computer vision.

Image processing is a method to convert an image into digital from and perform some operations on it, in order to get an enhanced image or to extract some useful information from it. It is a type of signal dispensation in which input is image, like video frame or photograph and output may be image or characteristics associated with that image. Usually Image Processing system includes treating images as two dimensional signals while applying already set signal processing methods to them. It is among rapidly growing technologies today, with its applications in various aspects of a business [3]. Image Processing forms core research area within engineering and computer science discipline too.

Character and handwriting recognition has an immense potential in data and word processing like, automated postal address code and pin code reading, reading data entered in forms, data acquirement in bank checks, processing of archived institutional accounts, automatic validation of passports etc. A text recognition system has variety of commercial and practical applications in reading forms, manuscripts and their archival etc. Such a system facilities a keyboard less user computer interaction. Also the text which is either printed or handwritten can directly transferred to the machine. It is a great help to the visually handicapped when interfaced with the voice synthesizer. An elaborated list of the applications has been compiled in [4]. The challenge of building a text recognition system which can match the human competing performance also provides a strong motivation for the research in this field.

The mechanism of HCR involves extraction of some distinct characteristics called features to classify an unidentified character into one of the known classes. And at first view, handwriting recognition does not appear to be complicated problem. A recognition system should just choose the correct character, usually the one that most resembles the written one, form a limited set of character however the task of handwritten recognition is very challenging due to many inter-class variations.

Some key areas of applications are Task-specific Readers, Address Readers, Form Reader, Check Reader, Bill

Processing System, Passport Readers and General Purpose Page Readers. Although CR has many merits, there are certain demerits Such as, Difficulty in recognition for Stained, crumpled, or colored paper; Images received through a fax server or via low quality scanners; Images with very small, grainy, faded, skewed or warped text cannot be recognized; Images with very limited white space around the text to be extracted are difficult to segment

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Om Prakash Sharma
Principal, PCE

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THE TRUE CAUSE OF MAGNETOSTRICTION

Magnetostriction is generally described as the deformation of a body in response to a change in the direction of magnetization through application of a magnetic field. The general perception is that the true crystal structure is somewhat distorted by strains caused by the magnetic and exchange forces. We will define magnetostriction as the change of shape of a ferromagnetic body as a result of its magnetization. It is to exclude the word "deformation", for, as will be seen, the magnetostriction itself is not a deformation, even though it usually causes it.

The magnetostriction effect is practically important. It should be minimized in some technical applications and maximized in others. Its physical origin remains unknown, considering that no refer-ences to its explanation given in 2001 can be found. The status of the problem was described in as follows: "Despite the tremendous advances in modern electronic structure theory for studies in material science, magnetostriction has been rarely attacked until very recently, due to its intrinsic complexity". The purpose of the present article is to make the explanation of the physical cause of magnetostriction easily available. It will be shown that the seeming "intrinsic complexity" of the phenomenon resulted from the looking for the answers in wrong direction. The electron structure may be relevant, but only indirectly. It is the crystal structure that had to be carefully analyzed.

The Fe simple crystal structure and the simple pattern of its spontaneous magnetization were very helpful to analyze and illustrate the cause of magnetostriction. The key to examination of magnetostriction in other ferromagnetics is provided. One might notice, for example, that Ni ferromagnetic phase is also believed to be truly cubic. We can predict that it is not. Nature is thrifty with its mechanisms; the origin of magnetostriction 0.00is not universal.

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Mr. S.P. Srivastava
Associate Professor
EE Department

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E-WASTE, A FUTURE MENACE

E-waste covers almost all types of electrical and electronic equipment that could enter the waste stream. During recent past, information technology (IT) and telecommunication (TC) have shown a record progress resulting into a huge accumulation of e-waste comprising dead and obsolete instruments of IT and TC like TVs, computers, mobile phones, white goods (e.g. fridges, washing machines, dryers etc), home entertainment and stereo systems, toys, toasters, kettles – almost any household or business item with circuitry or electrical components with power or battery supply. The studies have shown that there is e waste accumulation from 88,831 units in 2003 to 15,16,459 units in 2009, i.e., nearly 25 percent growth. Of these e-wastes, large household appliances constitute 42 percent, IT and TC appliances 34 percent and others 14 percent, respectively. According to International TC, by 2015 about 90 percent of global population will use cellulars for communication which indicates a further increase of e-waste. Some of their components contain hazardous substances.

In fact, about 60 elements from the periodic table can be found in complex electronics. If we consider a computer (PC) - a normal Cathode Ray Tube (CRT) computer monitor contains many toxic substances like cadmium (Cd), which is used in rechargeable computer batteries and switches in older CRT monitors. Cadmium can bio-accumulates in the environment and is extremely toxic to humans. It adversely affects kidneys and bones and is also one of the six toxic substances that have been banned in the European Restriction on Hazardous Substances (RoHS) Directive. Beyond CRT monitors, plastics, including polyvinyl chloride (PVC) cabling is used for printed circuit boards, connectors, plastic covers and cables. When burnt or land-filled, these PVCs release dioxins that have harmful effects on human reproductive and immune systems. Mercury (Hg), which is used in lighting devices in flat screen displays, can cause damage to the nervous system, kidneys and brain, and can even be passed on to infants through breast milk.

One can clearly grasp and understand that the e-waste problem is of global concern because of the nature of production and disposal of waste in a globalized world. Although it is difficult to quantify global e-waste amounts, we do know that large amounts are ending up in places where processing occurs at a very rudimentary level. As such, there is no adequate policy regulating their safe disposal. This raises concerns about resource efficiency and also the immediate concerns of the dangers to humans and the environment. Increase of e-waste is certainly dangerous and need immediate attention. Engineers must work for the solution requiring special treatment and recycling practices to avoid adverse environmental impact and harmful impact on human health.

Dr. Rekha Nair
DEAN, I Year

GREEN BUILDINGS

The buildings in India are growing at a rapid pace and are contributing immensely to the growth of the economy. According to the World Business Council for Sustainable Development, building block accounts for 40% of total energy consumption. Now there is an imminent need to introduce some new concepts in this sector that covers healthy facilities designed and built in a resource-efficient manner. The buildings in which we live, work, and play protect us from nature's extremes.

A new concept called "green building" is gaining momentum as the environmental impact of buildings becomes more significant. A green building utilize less water, optimizes energy efficiency, generates less waste, conserves natural resources and provides healthier spaces for occupants, as compared to a conventional building. Green building is also known as sustainable building or high performance buildings.

These are also addressed in the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) program. LEED is a suite of rating systems for the design, construction, operation, and maintenance of green buildings, homes and neighborhoods. LEED is a third party certification program developed by the U.S. Green Building Council in 2000 through a consensus based process. LEED serves as a tool for buildings of all types and sizes. LEED certification is available for all building types including new construction and major renovation; existing buildings; commercial interiors; core and shell; schools and homes. LEED is a point based system where building projects earn LEED points for satisfying specific green building criteria. The number of points the project earns determines the level of LEED Certification the project receives.

LEED India Certification Level		
S.No	Ratings	Credits Required
1.	LEED certified	23–27
2.	LEED silver	28–33
3.	LEED gold	34–44
4.	LEED platinum	45–61

Shailendra Kasera(HOD)
ME Department

PLASTIC THAT CHANGES SHAPE WITH MAGNETIC FIELD

Transforming an object form one shape to another simply by heating it, illuminating it or exposing it to certain chemicals sounds like an alchemist's dream , but it is a very real and very active area of research for among other things, making medical devices like stents. Researchers have expected the possibilities for shape memory effect materials with a plastic that changes shape when exposed to magnetic field. The materials can be formed into a permanent shape when hot, then cooled and formed into a different temporary shape. Once the material is set up this way it can be switched to its permanent state by exposing it to an alternating magnetic field. This heats the plastic above the temperature needed relax it into its permanent shape. This type of material is useful for making medical devices because it is easy to trigger a shape change in the body using the magnetic fields.

Prashansa Soni
Assistant Professor
Physics Department

SMARTPHONE PHOTOGRAPHY TO DIAGNOSE EYE DISEASES

Researchers find that eye diseases can be studied and easily detected through means of photos taken by Smartphone. Smartphone's are now being used more routinely in ophthalmology to document patients' ocular conditions. Technique provides a simpler and higher quality method to more consistently produce excellent images of a patient's fundus.

This technique has been extremely helpful for us in the emergency department set-ting, in-patient consultations, and during examinations under anesthesia as it pro-vides a cheaper and portable option for high-quality fundus-image acquisition for documentation and consultation.

This technique is well tolerated in awake patients most likely since the light intensity used is often well below that which is used in standard indirect ophthalmoscopy. Using the described technique of fundus photography with the use of smartphones, the app Filmic pro, and a 20D lens with or without a Koeppe lens, researchers were able to capture excellent, high-quality fundus images in both children under anesthesia and in awake adults.

The best results were achieved in the operating room when a Koeppe lens was used in addition to the 20D lens; however, excel-lent images were acquired with the 20D lens alone in the clinic and emergency room setting as well as in the operating room. This technique is relatively inexpensive and simple to master, and takes advantage of the expanding mobile-telephone networks for telemedicine.

Mr. Deepak Baberwal
Assistant Professor
CE Department

SCIENTISTS HAVE BUILT THE SMALLEST PETROL ENGINE TINY ENOUGH TO POWER A WATCH

SCIENTISTS have built the smallest petrol engine, tiny enough to power a WATCH. The mini-motor, which runs for two years on a single squirt of lighter fuel, is set to revolutionize world technology. It produces 700 times more energy than a conventional battery despite being less than a centimeter long not even half an inch. It could be used to operate laptops and mobile phones for months doing away with the need for recharging. Experts believe it could be phasing out batteries in such items within just six years. The engine, minute enough to be balanced on a fingertip, has been produced by engineers at the University of Birmingham. Dr Kyle Jiang, lead investigator from the Department of Mechanical Engineering, said: "We are looking at an industrial revolution happening in peoples' pockets. The breakthrough is an enormous step forward. "Devices which need re- charging or new batteries are a problem but in six years will be a thing of the past." Other applications for the engine could include medical and military uses, such as running heart pacemakers or mini reconnaissance robots. At present, charging an ordinary battery to deliver one unit of energy involves putting 2,000 units into it. The little engine, because energy is produced locally, is far more effective. One of the main problems faced by engineers who have tried to produce micro motors in the past has been the levels of heat produced. The engines got so hot they burned themselves out and could not be re-used. The Birmingham team overcame this by using heat-resistant materials such as ceramic and silicon carbide. Professor Graham Davies, head of the university's engineering school, said: "We've brought together all the Engineering disciplines, materials, Chemical Engineering, Civil Engineering, and Mechanical Engineering. "What better place to have the second industrial revolution in nano-technology than where the first took place, in the heart of the West Midlands.

Sanjay Kumawat
Associate Professor
ME Department

ROLE OF TARIFF IN REGULATION OF INDIAN POWER SYSTEM

The generation, transmission and distribution of electrical energy involves a huge amount of money thus, tariff and rules for recovery of appropriate amount of return plays very important role. In electrical paradigm tariff refers to the rate at which different types of consumers are required to pay for being facilitated with electrical services. Generation, transmission and distribution of the electrical energy involve a huge amount of money. Thus, tariff and rules for recovery of appropriate amount of return for provided service plays a very important role in the life, health and growth of the organization. The criteria for deciding the tariff of end users is quite different from the tariff of the power plants for supplying power to utilities. Electricity is included in the concurrent list under the constitution. Thus, the end user tariff is decided by socio-techno-economic principles whereas the power plant tariff is purely a matter of techno-economics.

Due to the above reasons, Indian power market was formulated as a cost based power market. The generation, transmission and distribution were under same utility company. The term tariff was normally restricted to the rate at which the energy was sold to different end users. There was monopoly of utility companies at each level from generation to the premises of the consumers. The State Electricity Boards (SEBs) were empowered to fix retail tariff and they used it very sincerely up to late sixties. In the mid sixties some SEBs on the direction of State Governments introduced flat rate tariff and unmetered supply for agriculture and some even decided to give free power to agricultural consumers. To obviate its effect, the SEBs had to resort to cross subsidization to fix substantially higher tariff for other categories of consumers (especially industrial and commercial) thus creating an unbalanced tariff structure. The physical and financial health of SEBs continued to deteriorate over the years, as the tariff structure was not realistic to generate adequate surplus fund. Thus, the further growth of the sector hindered badly whereas demand continued to increase with growth of population and other sectors.

The government formulated policy in 1991 to encourage greater participation by privately owned enterprises in generation. But, the promoters failed to get their financial closures as the SEBs who were supposed to make payment of purchase of power were financially sick and running in heavy losses. By incorporating Electricity Laws (Amendment) Act 1998, the government created Central Electricity Regulatory Commission (CERC) vested with jurisdiction inter-alia, to regulate the tariff of Bulk Electric Power i.e. Generation and inter-state transmission of power with effect from 15th May, 1999. It has been followed by setting up of 24 other State Electricity Regulatory Commissions (SERCs) in the states with power to decide intra-state transmission and distribution/retail tariff. To address the various issues and launch major reforms in the power sector, Electricity Act 2003 came into effect. The SERCs have shown a trend towards rationalization of tariff, greater transparency and involvement of stakeholders while fixing the consumer tariff with the ultimate aim of reduction and phasing out of subsidies in a time bound manner. There was very big difficulty in grid operation caused by indiscipline in the prevailing system. Grid was experiencing very low frequency down to 48Hz during peak hours caused by over drawl of power and very high frequency up to 50.50 to 51Hz due to under drawl of power by SEBs. Power plants were not backing down generation during off-peak hours several hours every day. Also there was rapid and wide change in frequency for many hours a day. This was causing frequent grid disturbances e.g. cascaded tripping of generators resulting in complete blackout, interruption of supply to large blocks of consumers etc. The tariff structure was playing important role behind this indiscipline. The previous tariff was energy tariff rather than power tariff. It was allowing loads to overdraw power without any additional payment during peak hours by under drawing of power during off-peak hours. Also power plants used to get same rate of return on generation 24hrs irrespective of the system operating condition. The above tendency of the different payers was checked by CERC by introducing a new concept called Availability Based Tariff (ABT) in 2002, which rationalized the tariff structure of the bulk power supply.

Jaldeep Yadav
Assistant Professor
EE Department

RECYCLE OF ELECTRONICS WASTE

Electronic equipment is everywhere in modern life. Both per capita ownership and discards of TVs, computers, tablets, smart phones and other electronics will likely increase rapidly for the foreseeable future. Unwanted electronics should be recycled to recover and reuse the product itself or materials like copper, steel, glass that the product contains. Other materials like lead (in the solder on circuit boards; in the glass cathode ray tube (CRT) found in many televisions and computer monitors; in the batteries in uninterruptible power supplies) and mercury (in the fluorescent backlights in many flat panel displays) can be recycled to reuse the materials and to reduce the chance that these toxic materials could be released to the environment. As more electronics recyclers open or expand their businesses in Florida, recycling is becoming more convenient and cheaper. Some businesses even buy unwanted computers and cell/smart phones for reuse or recycling.

Dr. Shuchi Dave
Assistant Professor
Electronics Department

COMPUTATIONAL MATERIALS DISCOVERY GOES PLATINUM

Metal alloys consisting of a platinum group metal—ruthenium, rhodium, palladium, osmium, iridium or platinum—and one or more transition metals are important for catalytic reactions in automobiles, chemistry, and petroleum production. Many of the alloys used in aeronautics and electronics contain platinum group metals. Alloys beyond those currently used in these industries could be of value for many applications, but discoveries have been slow because the costs of trial and error—both in human time and materials—are prohibitive. and most comprehensive computational study of binary metallic platinum group metal alloys predict the thermodynamic stability of 28 compounds that haven't been reported in the literature experimentally. They also predict a few dozen configurations for other alloys, also as yet unreported, that may be experimentally accessible at the nanoscale. The results could thus point to binary phases that might otherwise be overlooked and perhaps lead to a more cost effective use of precious materials.
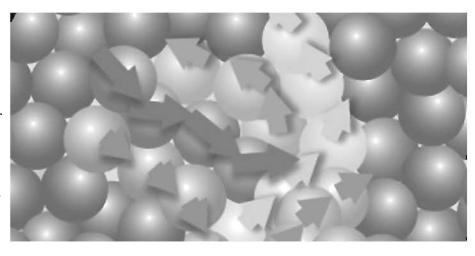
But the process to discover, develops, and deploys new materials and related technologies is lengthy, largely because it requires a combination of serendipity, scientific intuition as to which elements to combine, and painstaking experimentation. Typically, a decade or two elapses from the time a new material is discovered to when it can be incorporated into a practical application.

A significant time saving comes from relying more heavily on powerful computers to search for new and improved functional materials. Modern computers can explore the properties of thousands of potentially useful chemical combinations of elements and structures in a fraction of the time that real experiments would take. By organizing the results in a database, researchers can analyze the relationships between multiple materials and discover what are called "property descriptors." These are quantities that link calculated microscopic parameters (such as formation

enthalpies and entropic temperatures) to macroscopic properties (such as stability and formability) and they are the compasses with which researchers navigate the complexity of a multidimensional database .The goal of this approach, called high-throughput materials modeling, is to significantly accelerate the pace of discovery and development of new materials and their assimilation into technology.

High-throughput modeling has a number of benefits. First, scientists can more effectively search for the ideal material for a particular application. Second, since the expected crystal structure and morphology of the materials may be known ahead of time, synthesis is less of a guessing game. Third, researchers can, by comparing large numbers of materials with similar macroscopic properties (such as thermal or electrical conductivity or electromechanical response), discover unexpected descriptors and clarify the origin of emergent functionalities in complex systems. Finally, high-throughput data repositories allow scientists and engineers to easily search for materials as new needs arise: materials found of little promise for applications today may became key to those of tomorrow.

In their new work, binary combinations of platinum group metals and transition metals, with the help of software called AFLOW, which several of the authors designed for high-throughput computations, and calculated the energies of 250 different possible crystal structures. The calculations allowed the authors to estimate the competition between energy, which favors an ordered compound, and entropy, which favors disordered alloys. AFLOW streamlines the setup of all the input files needed to perform first-principles calculations, controls sources of errors as the calculations are performed on a supercomputer, and facilitates the post-processing and analysis of the data. . But what is more interesting is that they pinpointed 28 new, so far unexplored, alloys that could potentially lead to new or improved functionalities. The authors don't explore these functionalities directly, so they remain to be found experimentally.

An important feature of the authors' work is that they carefully check their calculations against the accessible experimental literature and find agreement in nearly every case. In addition, their predictions are backed by solid thermodynamically analysis. They give detailed information on why certain compounds might have different structures and energies and why they might have been overlooked in the past. In my opinion, approach of providing extensive information across theoretical and experimental research is the best way to lower the communication barrier between subfields and efficiently accelerate the discovery process.

One long-term goal for high-throughput modeling is to design database searches that automatically develop new descriptors for new functionalities. Greater standardization in how materials are cataloged in various databases should be pursued in order to achieve this goal.

Preeti Yadav
Assistant professor
Physics Department

ARE PESTICIDES OSTENTATIOUS ON FRUITS & VEGGIES?

Various investigations and concerning research reports reveal that although a Pesticides Act exists to safeguard consumer interest, there is no MRL (Maximum Residue Level) in place or regulations to enforce it. Nearly every food item from rice to veggies and fruits available in the market are contaminated with poisonous pesticides, authorities caution. Pesticides and insecticides could be detrimental to people's immune and reproductive systems. It can even lead to infertility. Developmental toxins' in these chemicals may adversely affect the development in children. They may also act as endocrine disrupters, leading to hormonal imbalances. These chemicals are also not biodegradable(able to decompose naturally). As such, they persist for a long time and get transferred into the food chain. This means that overtime, they get deposited in the human body. Probably it's time to take a closer look at what's on your platter. Cypermethrin, heptachlor, quinalphos, aldrin, chlorodane, dichlorvas, cypermethrin — these banned pesticides could well be a part of your regular diet. Okras, leafy green cabbages and other veggies, bananas or oranges and apples that you so relish may be overloaded with some of these harmful pesticides.

A study by the FSSAI (Food Safety and Standards Authority of India) under the UAM (Union Agriculture Ministry) threw up some unpalatable facts. Common food items contain banned pesticides in quantities a thousand times more than the permissible limits. The findings are based on random samples collected from across the country. From the vegetable basket, brinjal tops the chart with the level of banned pesticide at 860 % above legal limits, followed by cauliflower and cabbage. Wheat and rice too had these dangerous pesticides. While the level of aldrin in wheat is 21,890 times more than the permissible level, that of chlorfenvinfos in rice was measured at 1,324% above the allowed limit. In accordance with the reports of health experts, if consumed for a prolonged period, these pesticides can prove fatal. Pesticides are neurotoxins and can affect vital organs like the kidney and liver as well as the endocrine system. Some can cause food poisoning or allergic reactions. They're even more dangerous for pregnant women, passing through the placenta and causing genetic alterations.

An apple a day needn't always keep the doctor away. According to the survey, both apples and oranges were found to have banned pesticide level of 140% above permissible limits. The fruit are waxed with chemicals and pesticides to give them a longer life. Vegetables like cabbage and cauliflower, which are supposed to be very important for women's health, are dipped in 2 to 3 levels of pesticides to keep them fresh. Farming techniques like crop rotation have become a thing of the past. The solution lies in cleaning them thoroughly and buying from small vendors rather than supermarkets. Small vendors grow vegetables and fruit on a small scale and not well-versed with the use of chemicals. Smaller the vegetable is in size, more organic it is. Kitchen gardening is the best solution to keep pesticides at bay. Vegetables can be grown easily in pots, even if you live in an apartment.

Though the survey findings by Times News Network ring alarm bells, it's practically impossible to do away with fruit and vegetables. Therefore, the next best option would be to exercise as much caution as possible. Simple things like washing them adequately before cooking could remove a lot of the chemical coating, if not all. Kitchen gardening is another option to explore. Also, customers must be wary of getting carried away by glossy packaging. Those spotless apples and oranges may not be as healthy as they appear. For all you know, the rough and rugged ones on the roadside could be a better bet. Regulating authorities should have checks in place to track such gross violation of permissible limits and take necessary action.

Dr Bina Rani
Associate Professor
Chemistry Department

NEAR FIELD COMMUNICATION (NFC) TECHNOLOGY

Your credit cards: gone. Bus pass and train tickets: vanished. You've been the victim not of theft, but of the future – a future where the wallet, purse, paper ticket and pocket have all gone digital and live solely on your phone.

Welcome to Near Field Communications (NFC), a contactless, Wi-Fi-lite style tech that could already be in your smartphone, and could soon be a regular feature of your commute. The NFC communication is based on an inductive RF link on 13.56 MHz. Operating distance typical up to 20 cm. Backward compatibility with RFID systems. Data exchange rate up to 424 Kbps.

It uses magnetic field induction to enable communication between two devices.The host device generates a low-frequency radio-wave field and waits for another NFC device to get close enough to the contact field. Magnetic inductive coupling transfers energy and data from one device to the other. Most new Barclaycard, American Express, MasterCard Pay Pass and Visa Europe cards have NFC contactless tech within. Such cards can be used to make small purchases in shops – and, since last week, on London buses. And with 30 million already in circulation in the UK this is where the 'digital wallet' exists for now. If NFC identifies you, you can use your Smartphone instead of a passport. Toulouse-Balgnac Airport has already successfully trialed NFC secure boarding passes with BlackBerry devices, which acted as their security pass for a dedicated, priority path through the airport. NFC could help users work with other wireless protocols. PCs, TVs, and other devices besides cell phones and PDAs may become NFC enabled. Vendors using trial results to determine how best to design devices and user interfaces to work with NFC. Adoption to be driven by mobile commerce.

Ms. Swati Singh
Assistant Professor
EE Department

MODERN MICROPROCESSORS

A set of characteristics is fairly common across most aerospace and defense applications, whether an airborne platform, tactical radio, radar, or munition, yet, the value, or priority, of these characteristics can vary significantly. Performance-including through-put, interrupt latency, and cache size and speeds-is an important consideration, as is the board support package (BSP) for real-time operating systems (RTOSs) and device driv-ers.BAE Systems 3U and 6U boards sport the company's radiation-hardened processors, which are employed on a variety of satellites.

"Maintaining the integrity of the data, through the use of technology, such as error-correcting code (ECC) or processor lockstep operation, throughout the processing subsystem is important across many applications, such as avionics and military communicate. It is important to differentiate between dynamic power and static power when considering power consumption. Static power and sleep modes are also critical in military communications, like tactical radios, where battery life is critical.

Airborne application A broad range of aerospace and defense applications and platforms require rugged microprocessors. The Apache helicopter employs the company's COBALT with an onboard 8-port GigE switch, as well as an 80-gigabyte, solid-state drive and a Kontron Core2Duo single-board computer. COBALT is a small, lightweight computing device based on Kontron's COM Express single-board computer offering fan less operation and a Gigabit Ethernet interface. Demand for optimized SWaP-C products is also growing, along with the UAV market. "The need for small, lightweight, fanless products will drive the development of microprocessors over the next several decades.
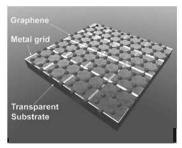
Ms. Bhawana Booti
Assistant Professor
EE Department

MODERN ELECTRONICS COMPONENT COOLING SYSTEMS USING GRAPHENE

A layer of graphene can reduce the working temperature in hotspots inside a processor by up to 25 percent -- which can significantly extend the working life of computers and other elec-tronics. This discovery opens the door to increased functionality and continues to push the boundaries when it comes to miniaturising electronics.Modern electronic systems generate a great deal of heat, above all due to the constantly increasing demand for more and more functionality. It is impor-tant to be able to remove the heat generated in an efficient way to maintain the long life of the system. One rule of thumb is that a 10-degree Celsius increase in working temperature halves the working life of an electronics sys-tem. During the study, the researchers focused on reducing the temperature in the small area where the electronics work most intensively -- such as inside a processor, for instance. These tiny hotspots are found in all electronics. Size wise, they are on a micro or nano scale, in other words a thousandth of a millimetre or smaller."The normal working temperature that we have cooled with a graphene layer has ranged from 55 to 115 degrees Celsius.
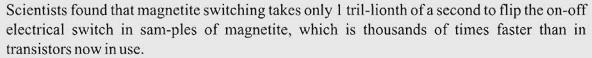
Monika Surana
Associate Professor
EC Department
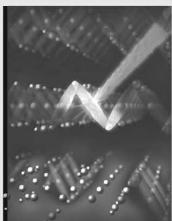
MAGNETITE SWITCHING

The fastest-possible electrical switching in magnetite, a naturally magnetic mineral. Their results could drive inno-vations in the tiny transistors that control the flow of elec-tricity across silicon chips, enabling faster, more powerful computing devices.

Scientists found that magnetite switching takes only 1 tril-lionth of a second to flip the on-off electrical switch in sam-ples of magnetite, which is thousands of times faster than in transistors now in use.

Scientists first hit each sample with a visible-light laser, which fragmented the material's electronic structure at an atomic scale, rearranging it to form the is-lands. The laser blast was followed closely by an ultrabright, ultrashort X-ray pulse that allowed researchers to study, for the first time, the timing and details of changes in the sample excited by the initial laser strike.

The magnetite had to be cooled to minus 190 degrees Celsius . Future experi-ments will aim to identify exotic compounds and test new techniques to induce the switching and tap into other properties that are superior to modern-day sili-con transistors. The researchers have already conducted follow-up studies fo-cusing on a hybrid material that exhibits similar ultrafast switching properties at near room temperature, which makes it a better candidate for commercial use than magnetite.

Amit Kumar Jain
Assistant Professor
EC Department

INTERNATIONAL THERMONUCLEAR EXPERIMENTAL REACTOR

ITER, meaning the way in Latin, is an experimental Fusion Reactor being constructed presently at Cadarache, in the South of France. ITER is a step towards future production of electricity from fusion energy. Nuclear Fusion is the process in which the Sun and the stars produce the energy by fusing light nuclei of hydrogen. ITER will produce at least ten times more energy than the energy required to operate it. In future demo or commercial reactors based on fusion, this energy can be converted to electricity.

An unprecedented international scientific and technological collaboration representing more than half the worlds human population is presently involved towards construction of ITER. The ITER partners are presently the People's Republic of China, the European Union, India, Japan, the Republic of Korea, the Russian Federation and the United States of America.
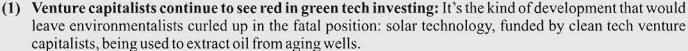
Kalpit Jain
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6 GREEN TECHNOLOGIES FOR 2014

Information technology can play a big part in helping to eliminate wasted energy, wasted space, and wasted natural resources/materials. New technologies are available that can help organizations become more energy efficient, implement new ways to source, manufacture and distribute goods and services in a more sustainable manner, and enable safe and renewable sources of energy. It's the time of the year again when green tech analyst are looking steadily into their recycled crystal balls and predicting what's coming down the track of the year 2014.

(1) **Venture capitalists continue to see red in green tech investing:** It's the kind of development that would leave environmentalists curled up in the fatal position: solar technology, funded by clean tech venture capitalists, being used to extract oil from aging wells.

(2) **The solar and wind farm building boom slows:** For both wind and solar power the global rate of expansion is likely to slow down to 10 per cent or even less annually.

(3) **Clean coal comes back:** The Clean Coal Technology Program began in 1985 when the United States and Canada decided that something had to be done about the "acid rain" that was believed to be damaging rivers, lakes, forests, and buildings in both countries. The clean coal can be generated by simply crushing the coal into small chunks and washing it. The Clean Coal Technology Program tested several new types of scrubbers that proved to be more effective, lower cost, and more reliable than older scrubbers.

(4) **Electric cars get ICEd:** ICE'ing is when a gasoline car is parked at an electric car charging station, blocking access to the station for those who need it the most, the EV driver. Rather than the flat-out nasty gram an angry electric car driver might want to put on the gas car, these are educational and friendly.

(5) **Mining goes green:** Shutting down illegal and unregulated mines Shutting down illegal and unregulated mines ,Choosing environmentally friendly general mining processes, Implementing recently discovered green mining technologies, Cleaning up the sites of shut-down mines, Revaluating Cut-off Grades, Research and Development of Green Mining Technology.

(6) **Big Ag gets green Tech:** BioAg Alliance, they are calling it, a venture to use microbes and fungi to enhance crop growth and yield, help with pest resistance, and reduce inputs like water.If we start using such technologies we can generate a sustainable environment with more efficient energy.
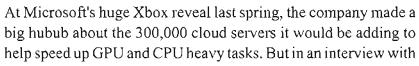
Neha Mathur
Assistant Professor, CS

How Xbox Live's Cloud Computing Could Make Games That Last Forever

At Microsoft's huge Xbox reveal last spring, the company made a big hubub about the 300,000 cloud servers it would be adding to help speed up GPU and CPU heavy tasks. But in an interview with Gizmodo, Xbox Live Lead Programmer John Bruno detailed how it could change the way we think about gaming in the future. Powerful cloud computing lets developers offload tasks like graphics processing and AI computation from Xbox One's local resources. "There is s thrust to turn more things server-side," Says Bruno. "Looking for ways to expand the power of the box." As we've noted before, this lets game developers build games bigger than what the hardware can support on its own. But it could be so much more.

1.) Dedicated servers for all:

In large measure, Xbox Live is about multiplayer gaming, and in effort to make its offering competitive, Microsoft is offering the benefits of its scalable dedicated server resources to all developers for free. This sounds like a lot of techno-babble, but it's a big deal. "You can play Xbox Live to be the best place to play multiplayer games".

How does the Xbox Live cloud help? As the developer, you should have scalable, dedicated server resources vastly improve gaming experiences. They make multiplayer more reliable by preventing disconnects, and they also make sessions fair by eliminating any advantages a player hosting a game might have.

Big game studios can pay for their own server resources that are allocated regionally depending on who is logging on to play games where. Microsoft's offer of free cloud computing allows all developers to take advantage of big-ticket resources, even if they're not that big.

2.) Games that evolve:

The lofty potential of Xbox Live's Cloud Computing is that it allows developers to evolve games and experiences over time. You're driving style over time to evolve its AI.
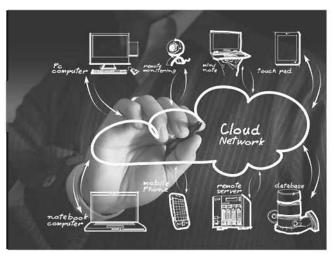
"It could change the way developers think about their franchises and their intellectual property." What if a game purchase was a constantly evolving experience that grew over time—more like what we're used to from software these days. We're talking about more than just patches and stability improvements. Bruno declined to comment on the future of business models, but he did note that it would be interesting to see developers grow their games over time. Imagine a world without expansion packs.

3.) Where does that leave us?

All of the benefits of Xbox Live's cloud in an effort to lure in both developers and customers. It remains to be seen how many people will actually take advantage of the possibilities on Xbox One. What' pretty certain, is that there's an opportunity, and that's always a good thing.

Pramod Kumar Ram
Department of Mechanical (CS/IT)

"CLOUD COMPUTING AND INFORMATION POLICY: COMPUTING IN A POLICY CLOUD..."

Cloud computing is a computing platform that resides in a large data center and is able to dynamically provide servers with the ability to address a wide range of needs, from scientific research to e-commerce. The provision of computing resources as if it were a utility such as electricity, while potentially revolutionary as a computing service, presents many major problems of infor-mation policy, including issues of privacy, security, reliability, access, and regulation. This article explores the nature and po-tential of cloud computing, the policy issues raised, and research questions related to cloud computing and policy. Typically, the cloud computing infrastructure resides in a large data center and is managed by a third party, who provides computing resources as if it were a utility such as electricity accessible by anyone, anywhere with an Internet connection. For the "cloud pro-vider,"this consolidation of computing resources yields many benefits deriving from centralized management and economies of scale; for the "cloud user,"1 the ability to gain rapid access to computing capacity not only reduces overall cost, but also low-ers the barrier to entry for many processing-intensive activities, since it eliminates the need for up-front capital investment and the necessity of maintaining dedicated infrastructure. Not only does cloud computing raise major issues regarding privacy, secu-rity,Tele -communications capacity, liability, reliability,and gov-ernment surveillance, relevant existing laws do not appear to be applicable to this new idea. Like most technologies, cloud com-puting evolved from a need. The natural response of technology companies has been to build increasingly large data centers to handle the ever-growing load. Currently, the best-known exam-ple of commercial cloud computing is Amazon's Elastic Com-pute Cloud, which allows customers to "rent" compute cycles in Amazon's data center.

BRIDGING OPPORTUNITIES AND POLICIES IN CLOUD COMPUTING

Cloud computing is likely to present many policy questions and raise many issues as it becomes more common place. However, it will also likely serve to further highlight the ever widening gaps between the capacity of technology and the focus of policy.

Neelam Gupta
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EC Department

"Biologically Inspired Computing Technique for Optimizing Discontinuous Mathematical Functions"

In recent years, optimization algorithms have received increasing attention by theresearch community as well as the industry. In the area of evolutionary computation(EC), inspiration for optimization algorithms originates in Darwin's ideasof evolution and survival of the fittest. Such algorithms simulate an evolutionaryprocess where the goal is to evolve solutions by means of crossover, mutation, andselection based on their quality (fitness) with respect to the optimization problemat hand. Evolutionary algorithms (EAs) are highly relevant for industrial applications,because they are capable of handling problems with non-linear constraints,multiple objectives, and dynamic components-properties that frequently appearin real-world problems. This articleexploressuch an algorithm called PSO and demonstrates its potential on real-world mathematical problems.

Swarm Intelligence (SI) is an innovative distributed intelligent paradigm for solving optimization problems that originally took its inspiration from the biological examples by swarming, flocking and herding phenomena in vertebrates. Particle swarm optimization has roots in two main component methodologies. Perhaps more obvious are its ties to artificial life (A-life) in general, and to bird flocking, fish schooling, and swarming theory in particular. It is also related, however, to evolutionary computation, and has ties to both genetic algorithms and evolutionary programming.

The initial ideas of James Kennedy (a social psychologist) and RusselEberhart (an engineer and computer scientist) were essentially aimed at producing computational intelligence by exploiting simple analogues of social interaction, rather than purely individual cognitive abilities. Their simulations were influenced by Heppner's works, which involve analogues of bird flocks searching for corn.

Particle Swarm Optimization (PSO) incorporates swarming behaviors observed in flocks of birds, schools of fish, or swarms of bees, and even human social behavior, from which the idea is emerged. PSO is a population-based optimization tool, which could be implemented and applied easily to solve various function optimization problems or the problems that can be transformed, to function optimization problems.

Swarm system is a rich source of novel computational methods that can solve difficult problems efficiently and reliably. When swarms solve problems in nature, their abilities are usually attributed to swarm intelligence; perhaps the best-known examples are colonies of social insects such as termites, bees and ants. One of the best-developed techniques of this type is Particle Swarm Optimization.
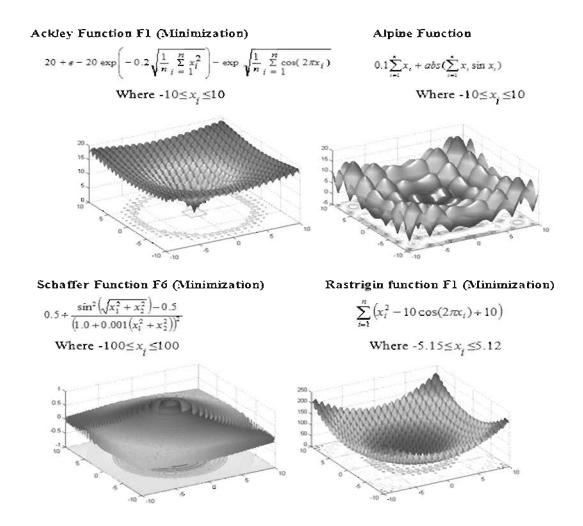
It requires only primitive mathematical operators, and is computationally inexpensive in terms of both memory requirements and speed. Early testing has found the implementation to be effective with several kinds of problem. As an algorithm, the main strength of PSO is its fast convergence, which compares favorably with many global optimization algorithms like Genetic Algorithms (GA), Simulated Annealing (SA)and other global optimization algorithms.

For applying PSO successfully, one of the key issues is finding how to map the problem solution into the PSO particle, which directly affects its feasibility and performance. It became obvious during the simplification of the paradigm that the behavior of the population is more like a swarm than a flock. The term swarmhas a basis here. Millonas developed a model for application in artificial life, and articulated five basic principles of swarm intelligence:

1) First is the proximity principle: the population should be able to carry out simple space and time computations.

2) Second is the quality principle: the population should be able to respond to quality factors in the environment.

3) Third is the principle of diverse response: the population should not commit its activities along excessively narrow channels.

4) Fourth is the principle of stability: the population should not change its mode of behavior every time the environment changes.

5) Fifth is the principle of adaptability: the population must be able to change behavior mode when it's worth the computational price.

The principles four and five are the opposite sides of the same coin. The particle swarm optimization concept and paradigm presented in this article seem to adhere to all five principles. This technique is tested on functions with many local minima like Ackley function, Rastrigin's function, Alpine function and Schaffer's F6 function.

Ackley Function F1 (Minimization)

$$20 + e - 20 \exp\left(-0.2\sqrt{\frac{1}{n}\sum_{i=1}^{n} x_i^2}\right) - \exp\sqrt{\frac{1}{n}\sum_{i=1}^{n}\cos(2\pi x_i)}$$

Where $-10 \leq x_i \leq 10$

Alpine Function

$$0.1\sum_{i=1}^{\cdot} x_i + abs\left(\sum_{i=1}^{\cdot} x_i \sin x_i\right)$$

Where $-10 \leq x_i \leq 10$

Schaffer Function F6 (Minimization)

$$0.5 + \frac{\sin^2\left(\sqrt{x_1^2 + x_2^2}\right) - 0.5}{\left(1.0 + 0.001\left(x_1^2 + x_2^2\right)\right)^2}$$

Where $-100 \leq x_i \leq 100$

Rastrigin function F1 (Minimization)

$$\sum_{i=1}^{n}\left(x_i^2 - 10\cos(2\pi x_i) + 10\right)$$

Where $-5.15 \leq x_i \leq 5.12$
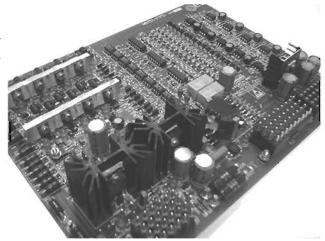
Numerical simulations show that the proposed algorithm is very effective to deal with the multi objective optimization problems. The comparison between the test results shows the effectiveness of the PSO algorithm. Simulations show that the test results obtained are as good as those by using the SPEA(Strength Pareto Evolutionary Algorithm). The choice of the population size influences the effectiveness of the algorithms strongly in SPEA, i.e., it needs enough population size to enable the iterations to converge towards the Pareto front; whereas, it is not the case in the PSO algorithm, only a small population size is needed to obtain the desired results. In addition, the PSO algorithm can be understood and performed easily because there is no operation such as "crossover" and "mutation" used in other evolutionary algorithms solving multi-objection problems.

Ms.Pooja Tiwari
Assistant Professor
CS Department

10 GOOD REASONS TO STUDY ELECTRICAL ENGINEERING

1. **It's Easy To Get Your First Job :** Electrical engineering students fairly easy find their first job because most employers in electrical field search for fresh mind, with fresh knowledge and at the same time they get young people they can mold to their own specific needs and make experts out of them.

2. **You Can Work In Another Country :** Working as electrical engineer opens you lots of opportunities in other countries. Laws of math, electricity and physics are universal and your gained knowledge doesn't limit you to only the country you studied in. There are a lot of international companies that need electrical engineers, also most of them are willing to employ people form other countries, and most of them operate on international level that offers you additional options of traveling while working. Besides, you are usually getting payed well for it!

3. **Student Praxis Can Be Extended To Employment :** Most INDIAN universities demand students of electrical engineering to get short praxis with companies before they graduate and usually, if you perform well you can extend your praxis into employment after graduation. The employer already knows you already, they know your skills and work ethics and also they usually start to mold you in their "specific needs" profile during your praxis.

4. **You Gain A Wide Range Of Knowledge During Your Studies :** Thinking that electrical engineering is just one dimensional is wrong. The range of knowledge gained during studies is amazingly broad and versatile. Even just basic studies gives you wide range of skills - from programming to writing reports; lets face it, reports are required on every step of electrical engineering studies and every employer will demand writing reports on different fields you work on. Even though you are studying a specific part of electrical engineering you will get basics of almost all aspects of electrical engineering and it shouldn't be a big problem to find solutions to a problem that is not strictly in your specific field of expertise.

5. **Computer Skills :** Modern world is run by computers. Most of the people use it on regular basis, but some still struggle with some operations that demand knowledge, that goes just a little bit beyond "Click an icon". Electrical engineers are faced with computer problems on every step of their studies and also every day on a job, that's why we usually gain computer skills during studies, when we have to install different programs for our studies, run analysis and tweak components or electrical circuits. Computers become parts of us and we know that hitting them won't make them run faster but fixing might...

6. **Adrenaline :** Maybe adrenaline isn't first thing that pops in your mind when you think about electrical engineering, but trust me there will be a lot of adrenaline rush moments if you get in electrical engineering. Occasional jolts of electrical charge that hits you when you aren't paying attention and touch the leads of charged capacitor or when you connect 2 wires that you shouldn't or an electrical component more or less explodes in front of your eyes because you connected it on the testing board in the wrong way... Those events make you jump out of your chair and definitely raise your adrenaline level. On the other hand you won't most likely do the same mistake again!

7. **DIY :** DIY or "Do It Yourself" is one of more exciting reasons why to get in electrical engineering. When you know how stuff works, what usually malfunction and what are basic rules of electrical engineering you can make your own stuff that usually you need to search for and buy. It's not always cheaper, although some solutions will save you great deal of money, but it works as you want it to work and it's your own creation what gives it additional value and also nice reference in your CV if you are applying for a job. DIY creations are unlimited. You can build a 1 sensor that would cost you 10 in a store or a computer controlled cutter that costs 1000 but you just spent 200 building it.

8. **Mr./Mrs. Fix-It :** Not only everyday fixes, like changing a burned out light bulb or faulty fuse aren't scary moments any more - you might also be able to cope with more complex problems with your computer etc. That doesn't only save you money but also works great as a pick up line...

9. **New Stuff Gets Out All The Time - It Never Gets Boring :** Electrical and electronic components are modified, invented and reinvented every day, so you will never be bored because you are using same process or component for the last 10 years. New and exciting stuff is available all the time and you will have lots of fun testing an assembling it.

10. **Only Few Simple Rules To Follow :** Things work better when plugged to power. Electrical components work on smoke - when it gets out you are in trouble. If things don't work, read a manual.

Mr. Nitin Goel
Assistant Proffesor
EE Department

MICROBIAL CORROSION

INTRODUCTION
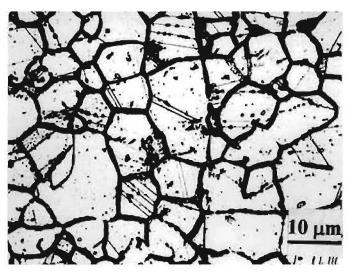
Corrosion : Some people may be annoyed by their car "wearing out". Kids may have trouble with rust forming on their bicycles. One may think how to prevent rusting, but do one knows what is happening when a metal corrode?

"Corrosion is defined as the involuntary destruction of substances such as metals and mineral building material by surrounding media, which are usually liquid (i.e. corrosive agents)." Most metals corrode. During corrosion, they change into metallic ions. In some cases, the product of corrosion itself forms a protective coating. "For example, aluminium forms a thin protective oxide layer which is impervious to air and water. In other cases (e.g. iron), however, the coating either flakes off or is pervious to both air and water. So the whole piece of metal can corrode right through."

MICROBIAL CORROSION : Microbial corrosion (also called microbiologically-influenced corrosion or MIC) is corrosion that is caused by the presence and activities of microbes. This corrosion can take many forms and can be controlled by biocides or by conventional corrosion control methods. There are a number of mechanisms associated with this form of corrosion, and detailed explanations are available at the web sites listed at the bottom of this section. Most MIC takes the form of pits that form underneath colonies of living organic matter and mineral and biodeposits. This biofilm creates a protective environment where conditions can become quite corrosive and corrosion is accelerated.

This picture shows a biofilm on a metallic condenser MIC can be a serious problem in stagnant water systems surface. These biofilms can allow corrosive chemicals such as the fire-protection system that produced the pits to

collect within and under the films. Thus the corrosive. The use of biocides and mechanical cleaning method condition under a biofilm can be aggressive even in can reduce MIC, but anywhere where stagnant water location where the bulk environment is noncorrosive is likely to collect is a location where MIC can occur

Corrosion (oxidation of metal) can only occur if some other chemical is present to be reduced. In most environments, the chemical that is reduced is either dissolved oxygen or hydrogen ions in acids. In anaerobic conditions (no oxygen or air present), some bacteria (anaerobic bacteria) can thrive. These bacteria can provide the reducible chemicals that allow corrosion to occur. That's how the limited corrosion that was found on the hull of the Titanic occurred. The picture below shows a "rusticle" removed from the hull of Titanic. This combination of rust and organic debris clearly shows the location of rivet holes and where two steel plates overlapped. Show a spillway Much microbial corrosion involves anaerobic or stagnant conditions, but it can also be found on structures exposed to air.

The pictures above gate from a hydroelectric dam on the Columbia River. The stress corrosion cracks were caused by pigeon droppings which produced ammonia-a chemical that causes stress corrosion cracking on copper alloys like the washers used on this structure. Since it's impossible to potty train pigeons, a new alloy resistant to ammonia was necessary. In addition to the use of corrosion resistant alloys, control of MIC involves the use of biocides and cleaning methods that remove deposits from metal surfaces. Bacteria are very small, and it is often very difficult to get a metal system smooth enough and clean enough to prevent MIC. The economic importance of corrosion and corrosion protection can be shown by the following example: "It is estimated that roughly 3% of the annual production of steel is lost by corrosion. In 1974, 140 millions tons of steel were produced in the United States at a cost of approximately $400 per tons. So this gives a monetary loss of about 1.7 billion dollars." It is clearly of the utmost importance to reduce as far as possible the financial loss by corrosion, which not only affects steel but to the extent all other building metal as well.

Conclusion

Microbiologically influenced corrosion (MIC) cost the pipeline industry millions of dollars every year. Once these organisms become active, they can rapidly corrode steel and most metals at rates more than 50 times faster than that of corrosion of seawater. The sulphate reducing bacteria (SRB) with their ability to withstand in harsh environments have been of great concern to oil production companies for many years. Microbiologically influenced corrosion (MIC) is a serious form of corrosion, which affects most commonly used metals and alloys. Oil and gas industries estimate that 30-90% of their serious corrosion, pitting-type, is related to MIC. Anticorrosion packages consisting of a biocide and oxygen scavenger may he added to linefill waters during hydrostatic testing to prevent microbial enhanced and oxygen induced corrosion. For offshore applications there are clear advantages in using anticorrosion packages which are acceptable for discharge to sea without treatment.

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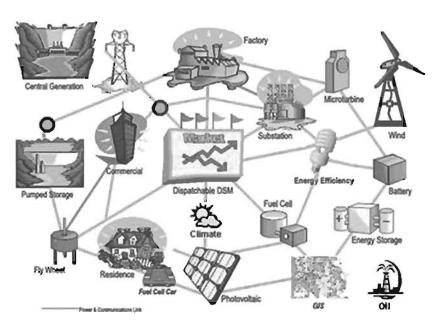
SMART POWER DELIVERY SYSTEM

The smart network will set up a virtuous cycle for distributed generators and energy storage devices. It will grow the market by opening up more niches where distributed energy is economically competitive. This growth will lead to economies of scale that decrease costs, making distributed energy economical in yet wider applications

A rule of thumb is that every time production quantities double the cost per unit decreases by around 20%.

Thus the smart energy network will help reduce costs and break down market barriers for generation technologies such as solar photovoltaic's, fuel cells and micro turbines, and new energy storage technologies such as reversible fuel cells. The market for upgrades to the power delivery system is one of the largest niches the smart network will open for distributed energy. By making it easy to connect and coordinate distributed energy resources, the smart network will make it more practical to serve local needs with local generation. This will provide lower-cost alternatives to beefing up substations and power lines in high-growth areas. Large "virtual power plants" composed of many networked small generators could take demands off long-distance transmission lines.

Utilities including Pacific Gas & Electric and Ontario Hydro have uncovered a major savings potential resulting from distributed energy and its ability to avoid traditional grid investments. But turning this innovative concept into standard business practice will require changes in business cultures and regulatory frameworks. A new marketplace for grid upgrades must be created.

In a smart energy scenario, distribution and transmission system operators publicize upgrade plans and budgets.

They challenge the marketplace to meet those needs through less expensive means. That provides an incentive for aggregators to bid packages of distributed resources, demand management and building efficiency improvements. The smart energy network's capacity to seamlessly integrate technologies reduces the costs of assembling such packages, making this new marketplace feasible. Regulatory reforms will provide investor-owned utilities with incentives to promote innovative alternatives to traditional upgrades. Utilities guaranteed a rate of return based on capital investment have less incentive to reduce infrastructure investments or have the need met by third parties. Setting rates of return on the basis of services performed motivates utilities to economize on capital investment. One cost-cutting incentive for distributed resources is their ability to offer capacity increases that closely track demand growth. Meeting increasing demands by adding central plants and new lines inevitably brings large "lumps" of new capacity on line at once. This system typically moves in boom-and-bust fashion from starvation to surfeit and back to starvation.

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EE Department

COMPUTER ANIMATIONS

Animations are something with which we are associated right from our childhood days. Every one of us as a kid might have enjoyed popular cartoons like 'Mickey Mouse', 'Donald Duck', or my favorite 'Popeye'. But as engineers, we are seldom exposed to the creation of actual animations, the closest subject as per syllabus being Computer Graphics. Let us explore a bit about the world of animations. CGI (Computer Generated Imagery) animation or Computer Animation is the term which is used for the development of animated images by applying the concepts of Computer Graphics. The term 'Animation' is applicable only for the generation of dynamic or movable images, which are in the present context 3-dimensonal or 3D. The illusion of movement is created by repeated replacement of an image with a similar image which is subjected to a slight time advancement (around 25-30 frames/second). In case of 3D imaging, a virtual skeleton is created and the body parts are allowed to move by the use of an animator function over the key frames. The process of tweening or morphing is applied to identify the differences between the key frames, after which the animation is subjected to rendering.

In case of 3-D animations, the task of modeling precedes the rendering process, whereas, during creation of 2-D animations, the animators use hand-drawn or sketched or computerized drawings which are positioned to specific software applications. The computer than generates an outline of vital movements. Therefore, primarily speaking, 3-D animations are termed as Computer-generated and 2-D animations are termed as Computer-assisted animations.

To model human features, applications like FACS (Facial Action Coding System) were developed in 1970s, and now minute movements of face are captured by micro-expression utilities in FAP (Facial Animation Parameters). Digital equipments like movie cameras, motion capture mechanisms are used professionally for designing movie animations. Other animations of low bandwidth are created by using 2D Flash or X3D. In the nutshell, we can state that a computer animation is a growing area as the application of computer science and shall continue to generate employment avenues for the interested ones. Young and budding technocrats should explore job opportunities in area of Computer animations and shall reap the benefits of an astonishing career.

<div align="right">

Shirish Nagar
Assistant Professor
IT Department

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"SMARTTHINGS": The Future Technology For Mankind

The current problem that most devices have is that they function as a standalone being, and it require effort for tech competitors to actually partner with each other and build products that can truly connect with each other. Smart Things is here to make our every device, digital or non-digital, connect together and benefit us. With Smart Things we can get our smoke alarms, humidity, pressure and vibration sensors to detect changes in our house and alert us through our Smartphone! Imagine the possibilities with this. We could track who's been inside our house, turn on the lights while we're entering a room, shut windows and doors when we leave the house, all with the help of something that only costs $500! Feel like a tech lord in our castle with this marvel.

Many of the existing things we own can be made smarter using Smart Things Kits. At launch, the following core devices will be available:

- Power Outlet - anything that can be plugged in, can be turned on and off
- Open/Shut Sensor - know if doors, windows or cabinets are open or closed
- Motion Sensor - detect movement within a room
- Presence Sensor - know when people and pets come and go

Smart Things are designed to be compatible with many of the existing standards for home automation, smart energy and more. There are literally hundreds of existing sensors and devices we can use. And with our efforts, many more

of these devices will be certified for use and can be made available in the Smart Things Store:

- Door Locks
- Thermostats
- Temperature and Humidity Sensors
- In-Wall Switches and Dimmers
- Smoke and CO Alarms
- Moisture and Flood Sensors
- Vibration and Pressure Sensors
- And much more

There are two paths to creating new SmartApps:

- At the Basic level, we can generate new SmartApps using a web based interface with full access to existing triggers and available actions within the Smart Things cloud.
- At the Advanced level, we are creating and exposing an SDK for the physical world of non-smart devices — enabling them to plug into the digital one and become smart.

RELEVANCE TO MANKIND

- The creators of Smart Things give our front door an API. They give our bed an API. They give our toilet an API... our imagination is the only limit.
- They are working hard to make sure that their APIs are both straightforward and secure. We can use our preferred development language and tools to do amazing things with the physical graph that SmartThings is bringing online.
- They are ready to integrate with all of our favorite web services.

The uses are endless, so don't be shy. Let's work together to make the physical world smarter. Some of the examples are given below to prove Smart Things its world changing significance:

1. **Monitor, control and have fun:** It may control our air conditioner, lights, fans, heaters, and disco balls from our mobile device with simple rules, or even based on our own presence. No configuration is needed just right out the box, it just works.
2. **Smart Doors:** It makes our existing doors smarter. Our door can sense when we're coming or going. It can secure our home automatically when we leave and can open it back up with a special welcome when we return.
3. **Weather Watcher:** Use the weather watcher SmartApp to take almost any action when rain or other types of weather are headed our way. Delay sprinklers; know our windows are closed, and that our grill is covered.
4. **Make it look like:** Have our TV and lights turn on and off in lifelike patterns, randomly, or even respond to sensors - to make it look like someone is home when we're away.

CURRENTLY DEVELOPMENT OF SMARTAPPS

- Smart Things Thing Module - add cloud intelligence to any device
- Smart Things Thing Shield and Sketch for Arduino - make our existing project smarter
- Smart ThingsSDK (Software Development Kit) - develop Smart Things-friendly software
- Cloud Platform API - integrate our device or Mobile-App directly with Smart Things
- Mobile-App Extension Template - embed controls for our project in the Smart Things mobile app

SMARTAPP POTENTIAL IS LIMITLESS

SmartApps are able to mash up and interact with connected things in our physical world, as well as online and other services, allowing for incredible creativity:

- Get notified immediately if our pet runs out of our yard without we with the "Oh No, My Pet Is Loose!" SmartApp.
- Get an early warning or directly contact a plumber when there is a leak somewhere (bathroom, basement), before damage gets out of hand with the "It's Leaking!" SmartApp.
- Monitor drawers and cabinets that contain precious or dangerous items with the "My Stuff is Secure" SmartApp.
- Brighten, dim, or flicker the lights when we get another fan or follower on social networks with the "Buzz Barometer" SmartApp.

Deepak Agarwal
Assistant Professor, CS Department

ROCKETRY AND INDIAN SPACE RESEARCH PROGRAM

History of Rockets : In 1898, Konstantin Tsiolkovsky of Russia proposed the idea of space exploration by rocket. In 1903, Tsiolkovsky suggested the use of liquid propellants for rockets to achieve greater range. He stated that the speed and range of rocket is limited only by the exhaust velocity of escaping gases. For his idea and great vision Tsiolkovsky is called the father of modern astronautics.

In early 20th century, an American, Robert H. Goddard conducted practical experiments in rocketry. In 1919 he published a mathematical analysis for reaching extreme altitudes, that is applicable to present day meteorological sounding rockets. His earliest experiments were with solid-propellant rockets. He achieved first successful flight of liquid propelled rocket in March' 1926. It flew only for two and a half seconds and climbed 12.5 meters. His experiments continued for many years and he developed a gyroscope system for flight control and payload compartment for scientific instruments. Goddard is called as father of modern rocketry.

In, 1923, Hermann Oberth published a book about rocket travel into outer space. Many small rocket societies sprang up around the world. In Germany, the Verein fur Raumschiffahrt (Society for Space Travel) led to development of V-2 rockets under the directorship of Wernher von Braun which was used against London, during World War II. By war's end, German rocket scientists and engineers had laid plans for advanced missile capable of spanning Atlantic Ocean and landing in United States. These missiles had very small payload capacities. With the fall of Germany many unused V-2 rockets and missiles were captured by Allies. Many German rocket scientist went to United State and Soviet Union. USA began program with high altitude atmospheric sounding rockets. Later, a variety of medium and long range intercontinental ballistic missiles were developed. Missiles such as Redstone, Atlas, and Titan had capability to launch astronauts into space.

In 1957. Soviet Union launched Earth Orbiting Satellite called Sputnik. Explorer-1 was launched by US army in 1958. In 1958, USA created National Auronotics and Space Administration(NASA) for peaceful exploration of space. Since the earliest day of discovery and experimentation rockets have evolved from simple gunpowder devices into giant vehicles capable of travelling into outer space. Rockets have opened the universe to direct exploration by humankind.

Indian Space Programme (Glimpses): Indian Space Research Organisation (ISRO) is the primary agency under the department of space set up by GOI in 1972 to promote development and application of space science and technology for socio-economic benefits under stewardship of Dr. Vikram Sarabhai.

During seventies, India undertook demonstration of space applications for communication, broadcasting and remote sensing; designed and built experimental satellites – Aryabhata, Bhaskara, APPLE and Rohini – and experimental satellite launch vehicles – SLV-3 and ASLV.

Initially a variety of Rohini sounding rockets were developed by India for conducting scientific and technological experiments which helped in development of SLV-3(three stage satellite launch vehicle)using solid propellant for small payload under leadership of Dr. A.P.J. Abdul Kalam. The successful development of SLV-3 helped in development of missile systems at DRDO.

India has developed and commissioned Polar Satellite Launch Vehicle (PSLV) and Geosynchronous Satellite Launch Vehicle (GSLV). PSLV can launch 1850 kg class remote sensing satellites into a 480 km polar orbit and can place a satellite weighing about 1150 kg in Geosynchronous Transfer Orbit(GTO) or a 3500 kg class satellite in Low Earth Orbit. GSLV is capable of launching 2000 kg satellite in GTO.

Chandrayaan-1, India's first spacecraft mission to moon (Satellite orbiting around the moon) , was successfully launched by PSLV-C11 in 2008 into an Earth Orbit carrying 11 payloads built in India and abroad, spacecraft reached the moon and went into an orbit around it with the help of its Liquid Apogee Motor. It found the

presence of water molecules on the moon.

In 2011, PSLV launched Youthsat, a scientific satellite built by ISRO carrying Indian and Russian payloads for Stelar and Atmospheric Studies into orbit.

India's 100th space mission took in 2012 during which the countries workhouse PSLV successfully placed French SPOT-6 and Japanese PROITERES satellite in the required orbit.

In Nov'2013, Mars orbiter (Mangalyaan) was launched by PSLV to explore planet Mars through a spacecraft orbiting the planet. In early Dec'13 the mars orbiter was made to travel towards Mars through the injection from its polar earth orbit. It is expected to reach the Mars orbit by Sept'14.

In Jan'2014, GSLV powered by indigenously developed liquid propellant engine has successfully put satellite D5 (communication satellite) into Earth Synchronous Orbit.

Mr. D.S. Khumani
Professor(ME)

NEXT GENERATION: NANOWIRE FOREST

Researchers at Tel-Aviv University have developed a device based entirely on nanowires that can collect and separate specific proteins for analysis from blood or urine. The strategy relies on two sets of nanowires integrated into one chip. First, antibodies attached to a "forest" of upright silicon nanowires collect and concentrate proteins from a drop of patient sample, while unwanted cells and proteins are washed away. Then, the concentrated proteins are washed from the nanowire forest to a set of nanowire sensors, also covered in antibodies targeted to the protein of interest, which convert protein binding to an electrical signal.

Within about 10 minutes, the chip can detect proteins at a high concentration—about 0.4 micromolar.

What's New: The major advance here is using silicon wires as both the collection and detection piece. In addition to enabling the collection and detection of proteins of interest in one device, the nanowire chip also incorporates the key step of desalting. High salt concentrations will interfere with the nanosensor's ability to transform protein binding into an electrical signal. The nanowire collection forest avoids this problem by desalting the sample as it concentrates the proteins, providing a really nice compatibility between the different functions—between the upstream preparation and the downstream detection modality.

Importance: The use of antibodies to target specific proteins makes the strategy easily applicable to a range of possible proteins. Ideally, using such devices to measure protein levels in blood and urine would make diagnosing illness, from heart attacks (by detecting levels ofthe protein Troponin T) to prostate cancer (by detecting PSA) quick and easy.

The fact that it's an electronic sensing is also very nice, because this reduces the equipment, like imaging screens, needed for reading the protein concentration of a biological sample. This simplifies the sensor's application in a clinical setting, and, theoretically, makes it cheaper and easier to use.

Furthermore, the current strategy for applying a sample, such as blood, to the chip may limit its ability to detect rare proteins in small volumes. Rather than flowing a sample over the chip, the researchers drop the sample on, which means that if a protein is rare enough, there may not be enough in one droplet to meet the chip's limit of detection. Although the chip is capable of giving readout from high concentration proteins within 10 minutes, it will take much longer for low-concentration proteins to adhere to the antibodies in amounts sufficient to be detected.

Ankita Bhatia
Assistant Professor,
EIC Department

Professional Guest Entry

NON-TRANSPARENT BRIDGE IN PCIE

In a system with multiple boards/processors, there is a need for data communication between different processors. There are multiple methods of doing so which include DPRAM, SRIO, Ethernet, PCIe, etc. Normally PCIe is used for connecting peripherals to the processor but its functionality can be extended to inter-processor communication by using NTB without the requirement of any extra protocols which gives it an edge over DPRAM and SRIO. The data payload capacity of Gen 2 PCIe is 4Kbyte which is better than SRIO whose payload capacity is 256byte. The number of supported lanes for PCIe is x1, x2, x4, x8 and so on whereas for SRIO it is x1, x4, x8 and so on. So if one lane in x4 goes bad in case of SRIO the bandwidth is drastically reduced to x1 whereas in case of PCIe, if one lane goes bad bandwidth is reduced only to x2. Ethernet has a very high latency and hence is not an effective method.

In addition to inter-processor communication, PCIe has one very significant application which is redundancy management. Redundancy plays a very important role when it comes to reliability of a system. A multi-board system can have different boards with the same hardware architecture but different functionalities software wise. This system can be connected in mesh architecture for redundancy. In such a system, if the processor on one board fails, its functionality can be completely or partially taken over by other board depending on the load on the taking over processor and failed processor. Effectively what happens is that even if the processor on one board is dead but the peripherals are still healthy, it can still be functional. Using SRIO for fail takeover has a limitation that it cannot handle the failure of more than one processor.

There are three basic types of devices in a native PCI Express (PCIe®) system; Root Complexes, PCIe switches, and Endpoints. There is only a single Root Complex in a PCIe tree. Switches have ports, where PCIe device (endpoints) or another switch can be connected. The port closer to root complex is the upstream port and the one farther is the downstream port. During system initialization, the Root Complex performs enumeration to determine the various buses that exist and the devices that reside on each bus, as well as the required address space for the device's registers and memory.

In multi-Root systems, more than one processor sub-system exists within a PCI Express tree. Connecting these processor sub-systems cannot be done just by connecting the downstream ports of the switches in the processor sub-systems. This is because the two processor subsystems have different address domains which would conflict, also the configuration requests are not forwarded through downstream ports, so the devices of one sub-system won't be visible to the other sub-system. NTB comes in handy in this situation. Multiple Root Complexes in a PCIe system can be supported by using an NTB to isolate the address domains of each of the Root Complexes. An NTB allows two Root Complexes or PCIe trees to be interconnected by translating the address of one sub-system into a compatible address of the other sub-system.

In the case of fail takeover, this NTB is converted into TB and the downstream of the switch in the failed board is

converted into upstream port. After this the enumeration process is repeated and the peripherals of the failed board can now be accessed by the processor of the board taking over.

I have demonstrated the inter processor communication using NTB, wherein, I am reading and writing data from one processor sub-system to another using appropriate address and ID translations.

Yashwant Singh,
Scientist 'D' DARE, DRDO, Bangalore
Ministry of Defense, Govt. of India

Electricity from Water Mains: Inline Hydropower System Generates Power from Water Pipelines

Generating electricity from water is not a new thing. Hydro power stations have already sprung up across the world. However, scientists will not stop exploring advanced technologies for further improvement to benefit people's lives.

Recently, Department of Building Services Engineering and the Water Supplies Department of the Hong Kong Special Administrative Region Government have been working together to turn water mains into an alternative source of power.

Hong Kong has a network of water mains travelling over 7,800 km, which is comprehensively monitored by WSD using monitoring devices to make sure our water supply remain clean and well-maintained. Water mains need power for those devices. Conventionally, they are putting small turbines into our pipes to produce electricity from drinking water.

Our water main pipes present a real challenge. They are just one meter across and hold far less water volume and potential energy compared to giant water dams, say for example. In pushing the boundaries, specialists in hydrodynamics, mechanical engineering and renewable energy have created a highly efficient device in harnessing the power of water. The resulting turbine is small enough to fit into a pipe, and uses just a fraction of hydro-energy to generate about 80 volts, enough to power four compact fluorescent light bulbs.

The novel device consists of an external hydroelectric generator and highly efficient spherical water turbine which dips into flowing water and reclaims residual pressure. When water passes through, the turbine drives a central rotating shaft and a micro generator to produce electricity.

The key lies in a number of intelligent designs to extract more energy from flowing water. The 8-blade turbine would only take away a fraction of kinetic energy because it strikes an accurate balance between water volume, water pressure and consumption of hydrokinetic energy, which boosts efficiency without reducing the momentum of running water to guarantee a reliable water supply. Turbine blades are carefully sized to intersect the largest possible area of water flow and minimize water bypassing.

To achieve maximum power output, a revolutionary design made the central rotating shaft hollow on the inside to minimize energy losses when driving the generator and utilize the harvested energy in full. The team also made the

water more energetic and produced a strong current with a special metal block placed at the centre of the pipe to compress and accelerate the water flow. To further protect our drinking water, the turbine does not have moving parts and does not need any lubricant to eliminate the slightest change of contamination.
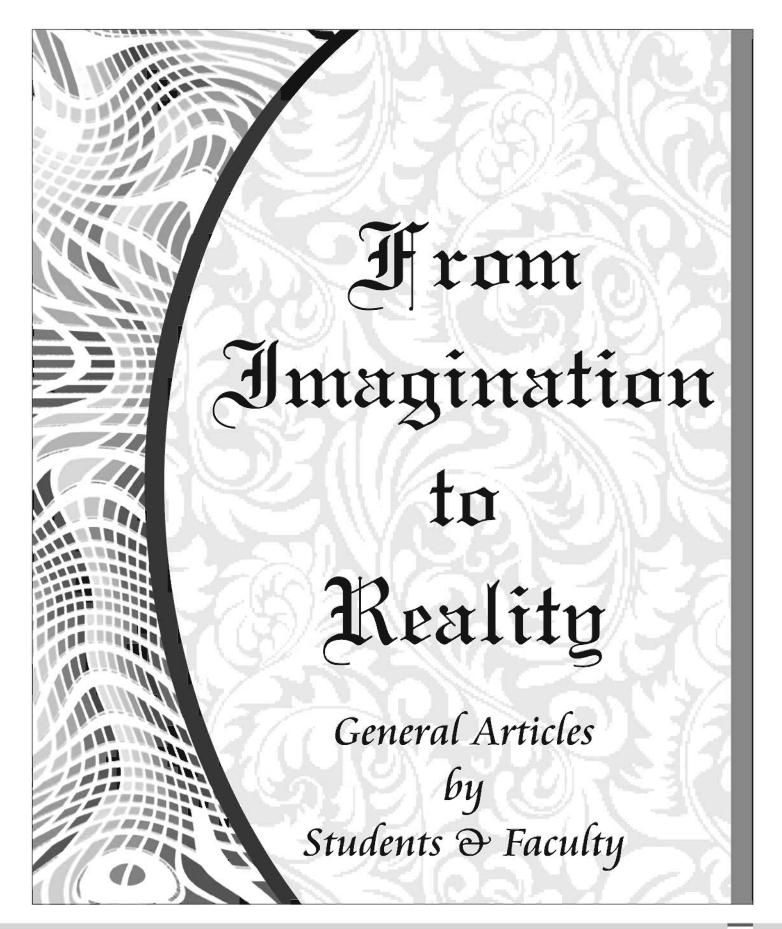
The mini-hydro power has been put to test in a number of locations including underground pits and outdoor environments. The principal investigator, Prof. Hong-xing Yang from Department of Building Services Engineering commented, "We have made the water pipes self-sufficient." In full operation, an array of in-pipe turbines is expected to save 700kWh of electricity and reduce 560 kg of carbon dioxide emission per year.

It is not only a green innovation to further cut our reliance on coal-based power plants, but also an engineering triumph that gives WSD an easy access to electricity in areas without power grid, such as treacherous terrains and underground. "This technology also points to viable turbine solutions for waters that have little potential for energy generation,".

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AICTE approved grants sanctioned to PCE

S. No.	Name/title of the project	Scheme	Year	Principal Investigator	Status
1.	To Establish Video Conferencing System in existing Project lab	MODROBS	2009-10	Mr. Vibhakar Pathak	Completed
2.	Modernisation & Upgradation of Microwave Engg.Lab	MODROBS	2009-10	Dr. Om Prakash Sharma	Completed
3.	Entrepreneurship Development Cell	EDC	2009-10	Dr. R.P. Rajoria	Completed
4.	Modernisation & Removal of Obsolescence in Process control Lab	MODROBS	2010-11	Mr. Virendra Sangtani	Completed
5.	Advance Antenna & Wireless Communication	MODROBS	2011-12	Dr. Om Prakash Sharma	Completed
6.	Advancement in High Voltage Lab	MODROBS	2011-12	Mr. Ajay Kumar Bansal	Completed
7.	Advancement in Wireless and Optical Applications	Seminar Grant	2012-13	Dr. Om Prakash Sharma	In Progress (18-19,Jan,2014)

From Imagination to Reality

General Articles by Students & Faculty

FROM STUDENTS

DO IT RIGHT

Have a strong voice Never deceive

Make the right choice Always believe

And you will go far That you will do it right

You must be true You know you are strong

See it right through You can't go wrong

And people who you are You must keep up the fight

Know what to say

In the right way

Use a little fact

Have no disguise

And tell no lies

Always deal with fact –

Harshit Choudhary
I Year, CS

WE ENGINEERS

We categorize the agents of our kind,
We grind the lens; bring focus to our fears,
With Feynman lines and spirals map the mind,
Still burning is the flame of that idea,
Once stole in fennel stalk from ancient night,
To read the mind of GOD beneath its light.

Neeral Singh
II Year, EC

IT'S YOUR TIME

It's the time for having fun

To behave as if you cares for none

The time to behave wild

You realize that you are no longer a child

The time to learn and know

And stand erect and never bow

The time to show everyone

That you deserve to be the best else none

The time to be careless

N takes stand for your created mess

The time to make mistakes

And to regret whatever it takes

It's the only time which decide your fate

No matter doing things you hate

The time to stand on your own

And live the life in best tone.

Jaya Chourasia
II Year, CS

GOD IS A BIG EXAMINER

We all are students in his class
The world is a big examination hall.
We have assembled here to sit,
Life is an answer book,
In which we give all the answer,
The time allowed is in three phases,
The first phase is spent in childhood,
The second phase is spent in youth,
The third phase is spent in old age.
The final call is given by god,
Signifies the end of the examination,
All there phase are taken away by him,
We can't ask for extension of time,
After his final is my request to you,
To cherish your share of life.

Anu Agarwal
I year, CS

SUCCESSS

He has achieved success who has lived well,
Laughed often and loved much,
Who has gained the respect of intelligent men,
And the love of little children,
Who has filled his niche and accomplished his task,
Who has left the world better than he found it,
Whether by an improved poppy, a perfect poem or a rescued soul,
Who has never lacked appreciation of earth's beauty or failed to express it,
Who has always looked for best in others ,
And given them the best he had,
Whose life was an inspiration,
Whose memory a benediction.

Priyam Sharma
III Year, EC

INDIA-NEEDS TO GET UP-DATED

"A developed India by 2020 is not a dream it need not be mere vision in the mind of many Indians .It is a mission we can all take up".

Everyone needs a developed India in 2020 but ia anyone really practicing for the same??

Oh, this is India here the strategies are only discussed, but not implemented!!! Rules and laws are only made but not executed!!

Here POLOTICS is ROBOTICS people think that we've got freedom but are we really free??

Rich becoming move rich and condition of poor deciding day by day, is it what we call freedom

India is a liberal country; everyone has light to live life on their own wish, but is a girls safe here in the country???

In India the ongoing trend is of being the god man fraud, all you can gave is 109 corers in just 3 months.

Well what more do you want??

Every third person in India is a youth and it all set to be the youngest country in the world and to experience the dynamic transformation.

So it's time for the younger and fresh minds to come and rule.

It is a tragedy that otherwise seemingly a young country in ruled by people who output to be retired long ago and with ideas that are 2 centuries old.

"It's not easy to compete with China"

But why can't we be the competition why can't we create a level where everyone can only think of reaching

India has lot of potential you don't have to wait till 2020 to TAP this potential

Nikita Chandiramani
I Year, EC

GRAND PARENT'S LOVE

It seems like only yesterday
Our lives were just beginning
Your love for us never jailed,
Our hearts continuously mending.
It is strange to watch the time fly
Before our very eyes,
Which reminds me of the blessing.
That we have you in our lives.
As each of our lives.
Continue to change,
Reflection of your love,
In each of us remains.
You sheltered us through childhood
And saw as through today.
Taught us of the hard above,
About faith, and how to pray.
One day we'll all be in heaven
Dancing on the throne,
Praising god for giving us
A family like we've never known.
No matter where our lives may go,
We will trust the lord above
And through it all always thank him for our
Grandparent's love.

Gunjan
I Year, CS

LIFE

God didn't promise days without pain, laughter without sorrow, sun without rain. But he definitely promised strength for the day, comfort for the tears and light for the way. The most difficult question to answer.

What is life?

Everyone has his/her own way of describing it. It is actually the act of drawing without an eraser in this journey of life, everyone wants happiness, no one wants pain, but they don't understand that we can't have a rainbow without a little rain. We never understand the purpose of our lives. Is it to be happy or to be useful? I think it is to be useful to the honorable, to be compassionate, and to make difference between living and living well. You do so, we must enjoy the little things in life, and for one day we will look back and realize that they were really big things because it is not the magnitude of our activities but the amount of our love that is put into them that accounts.

Khusboo Ahuja
I Year, CS

NATURE

I want to define the word
With the words of my own…
Want to slow the magic of nature
The map, on which it is shown
The sun, the moon and the stars
Wow they glow in the different parts
The drop of water on a leave
Shine like a pearl…
Is pure as diamond for any type of girl..
The air is full of feeling
For the wonder it is for healing
The rain and the rainbow define the wove..
Is as beautiful as the bear and a cub…

Isha Goyal
II Year, CS

SOMETIMES

Sometimes I'm lost
Like my dreams are frost.
Sometimes I want to rock
Like I faced a shock.
Sometimes I face setback
Like it was a part of my wrong track.
Sometimes I have no one
Like I'm alone in a crowd of a ton.
Sometimes I feel so strong
Like, I was never wrong.
Sometimes I feel so weak
Like I am all alone on the peak…
Sometimes I am lost
Like my dreams are frost…

Kalpana Modi
III Year, IT

TEENAGED THOUGHTS

Totally confused about my life
What to do? How to survive?
Manu ways by the side
Which one to choose, who will decide?
Pressure on mind, tension in heart
Times moving slowly like a cart
Dark seems to be horror nights
Days as a monster bright
No one with me to guide
I don t know where to hide
War between good and evil
But do according to your will

Words, all mixed in the mind
Moving for a right solution to find
Someone sneaking in my thoughts
Forcing me to make some quotes
Life is now really busy
Where future is somewhat hazy
Have lost all the joys and thrills
Moving about the same mills
Oh God! Save me from trenches
And wobbly world of wretches!!!!

Preeti Kumawat
I Year, CS

TENSION

The moment you are in tension,
You will lose your attentions.
Then you are in total confusion,
And you will feel great irritation.
You will spoil your personal relation,
Ultimately you won't get cooperation
Then you will land in complication
And you have to take meditation
Many problems will be solved by discussion.
Which will work out better in your profession.
Don't think it's my free suggestion.
"SO, now never come In Tension."

Vinisha Jain
I Year , CS

TRIBUTE TO COURAGE

Courage is doing what is right
Without having to be told
Courage is manning up
When you've done something wrong
Courage is looking the enemy in the eye
And feeling them to just bring it.
Courage is having fear
But still staying strong
Courage is facing problem
But being able to overcome it.
Courage is leaving your family behind
To defend the country you love
Courage is being a soldier
In the greatest army in the world.

Suditi Kanwar
I Year, CS

ONE WISH I NEVER MISS

Early in the morning I get up,
Never miss praying to God,
One wish I never miss,
Give my friends loads of smiles & give them success by just travelling a few miles…
I see the morning beauty of sun,
Its brightness in the daytime,
& see the night full of stars,
One wish I never miss,
Fill their life with brightness,
Fill their life with lots of stars,
& never give him any scars…
On the breakfast table,
I see some awesome fruits,
Some are sour & some are sweet,
One wish I never miss,
Never give them anything sour, fill his life with sweets, I request you to do so, please God please…!!
During the lunch, food is served to me nicely cooked, One wish I never miss,
Always make them move on the path of success,
Never let them get somewhere hooked…
In the journey of life,
I see a man on the success gate standing upright,
On the other hand a dirty fellow drunk full on,
One wish I never miss,
Always make them understand God,
What is right & what is wrong…
In my life, I see various mishappenings & harassments,
One wish I never miss,
Provide her the best security…
In the night before sleeping, I pray,
One wish I never miss,
Give them success, give them pride,
Give them each & everything they wants in life,
Fulfill all her wishes, but not those which are not wise…

Rajul Kaushik
I Year

I HOPE THEREFORE I AM

Hope one should
In every thick and thin
With hope one can soar high
Raising ones chin.

Hope is equal to life; it is the essence with which everyone gets the required thrust to evince success. This is the prerequisite for undertaking any Endeavour in life. Every effort made by any lesser mortal is only with the infusion of hope. It has always worked as a lubricant in the machinery of life instilling a new dimension to every work and sponsors every probable invention on discovery. It's like the summit bolstered the efforts of Sherpa Tenzing and Edmund Hillary to scale the highest peak on the Earth. Hope of flying like a bird instilled the required fervor into the Wright Brothers to make the first airplane. Our very existence gets correctly pronounced when the hope starts running into our veins.

We are the masters of our destiny. We make what we are and will be. We churn out the necessary domain of ourselves. Hope pumps like essential adrenalin to take on the onslaughts in life. We earn up required strength because hope is backing us up from behind. Everyone on this earth comes to complete the full circle. Hope is the necessary life blood to carry us on and on. Loss of a little hope is a great loss for life.

We are wonderful creatures who can be pushed to any limits and horizon, flist with a little dose of hope, inspiration and imagination. When you have the hope to keep the promises you can cover miles and miles effortlessly. We can glide, we can soar, and we can coin a beautiful song when we have hope as wings to carry us to farthest Hebrides.

Hope of a beautiful day changes up. Hope of meeting a friend provides a bounce to our feet. Hope of bringing smile and cheer on somebody's face gives us satisfaction. I can say that I as a person can play a nice tune only because I have the hope of giving meaning to my life through my efforts. My hopes are grand and stand on a solid edifice.

"I will slumber not before
Kissing what I deserve
Hope hope hope I will as much I am
Only hopes do I have in reserve."

Harsha Pareek
I Year, CS

HAPPY NEW YEAR!
END OF ALL MISERIES

"From 2014 I am going to exercise regularly. I am going to nail that English vocabulary book in 2014. 01 January 2014 is the date when I will start preparing for that competition exam. Just 07 more days and I will start speaking English, practicing guitar, writing the book I often thought about. This January will change my life. This year I will change my life."

2010, 2011, 2012, 2013…all of us have set some goals at some point of time in the month of December. The goals might be different, the years might be different, but one thing is very clear that the New Year Resolutions wither quicker than a daffodil. Why does this happen? This happens because, time and again, we tend to forget the basic principle of life, that is, that we live in moments not in hours, days, weeks, months and particularly, never ever in years. If right now, at this moment, we are not preparing for the competition examinations or practicing guitar, we would not start doing that by some magic in the coming year. Whatever we do in moments, minutes makes the hours. Combining all the hours makes the day. Days, weeks and weeks, months and all these months make a year. So if we don't possess will power and determination to do something for some moments and minutes, forget about the days, months and years.

This would be surprising to know that this simple fundament, this giving so much importance to minutes make a person EXTRAORDINARY. How? All of us have seen Sachin Tendulkar's batting. After every shot, till the time the next ball is delivered, he practices the shot he has played on the previous ball for 2 -3 times. Even while hosting the famous reality show, Big Boss, Salman Khan doesn't stop thinking about his fitness. While hosting the show, talking to the camera or to the house-inmates, he continues his stretching and squatting exercises. Both of these gentlemen tell us that if we have set a goal, we must remind ourselves about the goal, not every year, not every month nor week nor day, but every moment, every single minute. With every breath, at every passing moment our goal should be before our eyes.

The next Sunday, the next month, the next year is not the best time, not even suitable time for your goal. The best time to do the task is here, just before your eyes. It is RIGHT NOW. Even the greeting "Happy New Year" is misleading and incorrect until we wish for "Happiness in every Moment." And this last wish is the end of all miseries and complains.

Dr. Daneshwar Sharma
HOD, P-PROKEP, PGC
Daneshwar.wordpress.com

WHY NOBLE PRIZE IS NOT GIVEN FOR MATHEMATICS?

The renowned Nobel Prize is the legacy of Swedish Chemist, Inventor and Industrialist Alfred Nobel (1833-1896) who on 27, November 1895 signed his last will giving largest share of his income to a series of prizes in Physics, Chemistry, Literature, Peace and Medicine –the five Nobel Prizes. These prizes were first awarded in 1901. A sixth Nobel Prize in Economics was added in 1969. An award for mathematics was not there in the list. The reason for this conspicuous omission has been subject of extensive speculations. It is sure that an eminent man of Science such as Alfred Nobel could not simply have forgotten about mathematics; rather he must have a good reason for not awarding in Mathematics. With no obvious reason at hand people created spicy story. It was said that Alfred Nobel deliberately avoided a prize for mathematics because his wife was carrying on an affair with a prominent Swedish mathematician GostaMittag –Leffler(1846-1927).

But there is no historic evidence to support this story and Nobel was confirmed bachelor, though he did propose to one woman, Alexandra, who turned him down. Another version of the story is that Nobel had enmity with Mittag-Leffler for some other reason, and he therefore avoided establishing a mathematics prize because Mittag- Leffler would almost certainly have been one of its recipients. However, this version also has little factual evidence to support it, as it is difficult to establish a possible reason for his resentment towards Mittag-Leffler. In fact, Nobel and Mittag-Lefler had almost no relation to each other. Nobel emigrated from Sweden in 1865 (when Mittag-Leffler was a student) and only returned about once a year on his mother's birthday.

There are more credible reasons asto why there is no Nobel Prize in Mathematics. Chiefly among them is the fact that Nobel was not very much interested in this subject and did not grasp the practical benefits of advanced mathematics to the world .The description of the prizes in physics and chemistry indicate as to what Nobel had in his mind was developmental work in which he himself exceled. The prize for literature is due to his own wide literary interests and the peace prize is an expression of his idealism and friendship with Bertha von Sutter, the author of "Lay down your arms". Mathematics was perhaps not one of Nobel's interests.

The above is the generally accepted theory based on historical records. The nobel thought of using his money for such prizes camp up to Nobel's mind when after the death of his brother ,Ludvig, in 1888, a French newspaper mistakenly thought that Alfred Nobel is dead and published the news: " The merchant of death is dead" . The title was given to Alfred Nobel for his invention of dynamite and other types of explosives which were used in making weapons. This news made Nobel apprehensive about how he would be remembered and he began thinking how to improve his public image and decided on the Nobel prizes.

Now I mention equivalent prize and medal awarded in the subject Mathematics. In the International Congress of Mathematics (ICM) of 1924 held in Toronto, a resolution was adopted that at each ICM, two gold medals should be awarded to recognize outstanding mathematical achievements. These medals are known as Fields Medals in the name of Canadian mathematician John Charles Fields, who was instrumental in establishing award. The Field Meals, officially known as "International Medal for outstanding Discoveries in Mathematics" is awarded to two, three or four mathematicians not over 40 years of age at each International Congress of the international Mathematical Union(IMU), a meeting that take place every four years. It includes a cash prize of about CS$ 15,000 and is typically not awarded for a single great achievement. The first field Medal was awarded in 1936. Field medal is often viewed as the greatest honor a young mathematician can receive, but these are less known outside mathematical circles.

Another prestigious award in mathematics is Able prize. The Able Prize is given out annually by the King of Norway to one or more outstanding mathematician selected by a panel of five international mathematicians. Named after NielsHenrik Abel (1802-1829), a distinguished Norwegian mathematician the award was established in 2001 by the government of Norway. It comes with a monetary award of 6 million Norwegian Kroner (App. US$1 million), to be used to fund further research. The Able prize was first proposed around the same time as the Nobel Prize by Sophus Lie, when he learned of Nobel prizes and that Nobel had omitted mathematics. However, the interest in creating this prize was picked up later and the NielsHenrik Memorial Fund was eventually established in 2002, to award the Able prize for outstanding work in the field of mathematics. The first award was given in 2003.

Thus, whenever the motivations for a course of action are not clear, these are attributed to something spicy, which creates a story, both plausible and entertaining. This is what urban myths are about.

Dr. Giriraj Methi
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RURAL LEARNERS AND URBAN LEARNERS

English today is simultaneously sought after and suspected phenomenon. The motives, generally, are not only social-political and but academic too. While the demand increases on the one hand, the quality of English language education in our state run schools, more particularly in rural schools, presents an abysmal picture. The 'divide' between the urban and rural, further contributed by the way English language education is making its way as a medium of instruction. The paradox of demand and suspicion can be further reflected through the paradox of access depicted by the report of the National Knowledge Commission, India as it brings out rightly, and there is an irony in the situation. The main aim of the Article is to eradicate the illusion of English language learning. This article clearly announces the fact that English can be learnt comfortably even by the people who were born and brought up in adverse conditions. **We firmly believe that infrastructure; equipped libraries do not make students but contents, which we cater with zeal of respect and commitment for every student work magically.**

Most of the rural students accomplish their schooling in their mother tongue i.e. Hindi. Though they have attained top ranked marks in core subjects, they remain very poorly perform at English. The students have an unseen and unheard fear and fever over English all these years. Now, let us examine some of the various factors, which leave English as a herculean task and souring grape for rural students even today.

To begin with, the first and the fore most factors is the **Rote Learning:** It is a memorization technique based on repetition. The idea is that one will be able quickly to recall the meaning of the material the more one repeats it. Some of the alternatives to rote learning include meaningful learning, associative learning, and active learning. Rote learning is a technique, which avoids understanding the inner complexities and inferences of the subject that learned and instead focuses on memorizing the material so that the learner exactly read or heard can recall it. **Active learning** occurs when a person takes control of their learning experience. Since understanding, information is the key aspect of learning, it is important for learners to recognize what they understand and what they do not. By doing so, they can monitor their own mastery of subjects. Active learning encourages learners to have an internal dialogue in which they are verbalizing their understandings.

Meaningful learning is opposed to *rote learning* and refers to *learning* way where the new knowledge to acquire relates with previous knowledge **(Ausubel 2000).** Within the cognitive theory of learning, based on the theory of human information processing, the three core processes of learning are **how knowledge is developed; how new knowledge is integrated into an existing cognitive system; and how knowledge become automatic.**

It often surprises us when we hear that many of the *less able* and *unable* students have scored first class marks in their qualifying examinations, although spellings of simple words are like a puzzle for them. We have already suggested that the vast difference in the competence of students seems to be our own creation. The socio-cultural and linguistic backgrounds of students do play an important role in their linguistic skills. However, the general feeling is that such things are beyond the teachers' control. For example, **Ramadevi (2002:234-35)**, in an article entitled **"Inside the Classroom"**, says, "We need not dwell too much on the home and socio-economic background of the learners. Likewise, we need not dwell too much on factors like aptitude, age, previous world experience, etc. These are clearly not under the teacher's control and nothing much can be done about them." The question is, are not these factors important and should not they be addressed by the State, if not by the teachers alone?

The next major problem is the **inefficiency of the teachers:**

The teachers themselves, in spite of their good intentions, are not good users of English. According to **Seshadri (1997:206)**, "Most teachers of English in our schools are products of our university system. Obviously our departments of English do not equip them with the kind of skills needed to teach English." The English teachers at these schools are untrained and they are unaware of the current trends and techniques of ELT. Most of them are ignorant of useful organizations and websites on the Internet, which offer them good down-to-earth discussions of ideas and techniques. The reason for these unskilled English teachers may be the Government's poor planning on ELT and empowering the teachers. . Sometimes teachers engage in tuition classes to supplement their income **(Anjana Desai, (1993:39)** or they have to teach in classrooms with inadequate infrastructure. These students generally pursue their studies in Government public schools in which the medium of instruction is Hindi, their mother tongue. The methodology of ELT in these schools is bilingual or translation method. The teachers simply translate everything into their mother tongue and explain them on the name of bilingual or translation method. Though this method offers them sound knowledge in the content, it prevents them in acquiring communication abilities in English. The teacher here plays more as a translator than a genuine English teacher does. Hence, virtually, there is no much difference between a Hindi teacher and an English teacher. The case with many of the private English medium schools in rural areas is no better than this. The situation is even worse with them. The teachers who teach English are those who persuaded their schooling in Hindi medium and failed in Intermediate and so. We don't consider this is the case with every organization, but with most of them. Definitely, these poor teachers make English as a nightmare to students and they instigate students to habituate by-heart method, which deprives students the communication abilities in English. Thus, English appeared as a dreadful demon for long years in even in **Collegiate Education.**

To conclude, it can be deduced that now a day's Language lab has come into existence if rural students and teachers also employed with this skill based, learning problem of language can be solved. In this concern, the classrooms should be equipped with audio-video materials. **Student Talking Time (STT)** should be maximized. The educational system may use a combination of formal, informal, and nonformula learning methods. The **UN** and **EU** recognize these different forms of learning. In some schools, students can get points that count in the formal-learning systems if they get work done in informal-learning circuits. They may be given time to assist international youth workshops and training courses, on the condition they prepare, contribute, share and can prove this offered valuable new insight, helped to acquire new skills, a place to get experience in organizing, teaching, etc. This is high time that the concerned authorities and teachers adopted an innovative culture of teaching English. We strongly recommend a firm approach, respect towards students and sensitive attitude of teachers can surely be helpful in teaching English. Only a devoted teacher, who was successful inculcating curiosity among the students in spite of their financial irregularities and improper brought up can open the door of English language for rural learners.

Pratibha Sisodia   **Kuldip Sharma**
Associate Professor   Assistant Professor
English Department   English Department

AID YOUR MEMORY

Sitting in the examination hall, chewing the end of your pen as if it were the delicious appetizer on earth you are appearing for one the toughest subjects and cursing your mind for not returning the output of long, laborious hours you have put in to score good in your exams. After the exam is over, on your way back to your home unexpectedly your mind decides to be productive and oh! Suddenly the equation that you so badly wanted to remember comes out so easily and that dreaded formulae and the theory, all of them. Only if you could, you surely would have kicked yourself. Yet another day, standing in front of the car with your family for a nice dinner together you are fumbling with your pockets to find the key. The key, the key ………….. Your parents are staring, your siblings are screaming and you are unable to recall where exactly did you put the keys? Both the above incidents may have happened with almost all of us. Some may have experienced it a little less and for others it may be a daily routine. We have all suffered because of this but this memory breakdown affects students the most. We all need a sharp memory not only during our student life, but throughout to lead a productive and purposeful life. Given below are some tips to aid memory retention and retrieval.

☛ **Use the GULP technique- The GULP technique stands for:**

(a) G- Get it: Pay attention to the activity, chapter in hand. Attention is first and foremost condition for good memory. Be present and conscious during the initial learning experience the initial learning with as many senses as possible.

(b) U- Use it: Make sure to use what you have gained or in other words, repeat it.

- review material immediately
- repeat it
- write it down
- sing or chant it
- recreate the experience of the learning

(c) L - Link It- Association is one of the most effective means of memory retention and retrieval and aids us to recall the learned material, you can:

- Associate new learning with something already known like an idea, person or place.
- link it to something it sounds like (acoustical link)
- link it to a location
- make an acronym link
- mind map it
- rhyme it
- group it
- categorize it
- alphabetize it

(d) P - Picture It: It is a proven fact that the things we see, the ideas of various images are far more effective than the ones we hear or read, since we will not have the facility of visual treats every time we need to create it on our own.

- create a visual image of the association
- make it move
- make it vivid
- make it bizarre
- exaggerate it
- use color
- use all senses - seeing, hearing, tasting, smelling

☛ **Utilize mnemonic devices to remember information like Acronym Links, Linking with Locations (LOCI), Linking with Poems and Songs etc.**

☛ **Teach new concepts to another person.**

Follow the tips given above regularly and you can also device some tricks on your own so that next time you don't end up cursing your mind for forgetting very important or extremely trivial information and lead a content and constructive life.

Happy recalling!

Ruchi Joshi
Counseling Officer PGC

MASTERING THE ART OF TECHNICAL COMMUNICATION

Engineering professionals have been talking about the importance of soft skills for years, and in the past decade, universities and technical schools have recognized their responsibility in meeting the need to provide education in technical communications.

For experienced professionals, there is no dearth of courses available, both online and on-site. Yet the call for even better skills (in writing for example) continues, and programs are continually being revamped and improved.

"Much work that contains a great deal of technical value gets ignored because the people who did the work failed to communicate properly," according to Alan P. Rossiter, president of an engineering consulting and training firm Rossiter & Associates, in his book Professional Excellence: Beyond Technical Competence, published by John Wiley & Sons.

Effective Communication

Zachery Koppelmann, coordinator of the Purdue School of Mechanical Engineering Writing Enhancement Program, which addresses concerns of the faculty, alumni, and corporate partners, says "Writing is the foundation of efficient, effective communication between engineers and non-engineers." The program evaluates undergraduate ME writing, identifies weaknesses, and develops instructional resources to directly address those weaknesses.

"Engineers work with complex processes and extremely detailed data," says Koppelmann. "Being a great engineer is more than being able to individually understand the processes and data; it is also being able to explain the processes and data in a manner that allows audiences to understand their importance," he adds. That means being able to communicate well with both other engineers and those with non-technical backgrounds.

"Many engineering students we work with are brilliant at design and the execution of their designs, but they are often poorly prepared to explain their work to folks outside of their project," explains Koppelmann. "The most brilliant design can only be used if engineers can effectively explain the design, clearly connect the design to other designs or concepts and directly demonstrate the benefits of the design. Raw data is not self-evident."

Providing Feedback

Soon after the program started, it was learned that the feedback to ME undergraduates from their instructors was inconsistent. To address this, the program now has specific feedback guidelines and is providing special training for dedicated raters. After this implementation, there has been marked improvement in undergraduate ME writing, says Koppelmann.

Benefits are being realized in more ways than in just the communication process. "We have found that the more engineers are required to explain their designs and processes, the better the designs and processes become," Koppelmann says. "We believe that this is a result of engineers having to think more carefully about what they are doing, and why they are doing it, so they can effectively and efficiently write about their work," he adds.

In his book, Rossiter concurs: "Writing is an integral part of a project and should be done as a project progresses and not at the conclusion of the project. Develop an outline and a structure for the report early in the work and draft parts of the report as a project progresses. ... The result is not just a better report but a better, more complete, piece of technical work too."

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ME Department

EDUCATION V/S SOCIETY

"Education is simply the soul of a society as it passes from one generation to another."
G. K. Chesteron

The term education is the phenomenon of earning knowledge through various aspects such as internet, books, practical experience, and theoretical knowledge. Education is an art of bringing some special skills and salient personality traits to the students in some respective fields for the purpose of building a strong nation. Now, let's understand the difference between the present and past education system and what changes are to be made in it. Children begin school with a natural curiosity and intrinsic motivation to learn. Learning should be an enjoyable process which stimulates imagination, creativity, ability to think for oneself and the ability to solve problems that have more than one right answer. This type of learning experience will prepare students to become well-informed and productive members of society and to work in good careers in future. Many current educational environments are breaking the spirits of students and teachers and are turning off intrinsic motivation to learn and teach. The role of education should be making children emotionally healthy to live successful and fulfilling lives as adults. Development of their emotional and social intelligence is important if they are to grow into fully functioning adults with humane values. Values such as kindness, caring for others, love; integrity and compassion make us good human beings. Students will learn these values from the example of adults and by the way adults treat them because imparting education is not only confined within the four walls of classrooms. As it is rightly said that Education is a Life Long 24*7 process which ends only in grave. So, the role of a teacher should also be of a catalyst. But, in the past few decades a vacuum has been created in Indian Education System. The present system of higher education does not serve the purpose for which it was started. In general, education itself has become such a profitable business that quality is lost in the increase of quantity of professional institutions with quota system and politicization is adding fuel to the fire of spoil system, thereby increasing unemployment of graduates without quick relief to mitigate their sufferings in the job market of the country. Now, education is not appreciated in its original form. It has been confined to the mere knowledge of a few alphabets and seems to be a body without soul. We are losing its aesthetic value day by day and resultantly we witness pathetic and sinful acts by Religious Gurus, Senior Bureaucrats and even social and Constitutional leaders. It seems to have the existence of a directionless and characterless society. So, the drawbacks of the higher education system underscore the need for reforms to make it worthwhile and prolific to all concerned. The way many students are treated, is lowering their sense of self-worth; diminishing their creativity, blocking their potential and teaching them to be less compassionate and empathetic. The high time of revamping the existing education policies has occurred. And, in case of turning a deaf ear, the generations will suffer. I will close my pen with the last effort of mine to let you appreciate the reality:

भीड़ को हाल सुनाने कि हिमाकत न करो,
रेत का ढेर वफादार नहीं हो सकता।
हमने खूँ बेचकर बच्चों को किताबें दी हैं
ये निशाना कभी बेकार नहीं हो सकता।।

Puneet Shukla
Registrar PCE

DEGRADATION OF OUR VALUE SYSTEM

The fabric of society is held together by the standards of morality that we maintain and practice. Values are our personal set of beliefs about what is important, unimportant, right, wrong, good and bad. In other words, values are a kind of map in our minds of how things are or should be. Just as a map is not the territory, values are only our perception of the principles of nature that govern our lives or the universe, not the principles themselves.

Throughout history, this world has seen individuals, families, societies and nations dying for want of values that sustain life—almost with the same certainty with which a plant dies for want of water. We can choose our values to be in harmony with the laws of the universe or to challenge them. Laws are fixed, so are the consequences of breaking them. We cannot break the laws of the universe; we can only break ourselves against them.

The real asset of a nation is not its natural resources, but people with right values. Just as it is futile to fill a leaking bucket, it is futile to think of economic reforms and progress without re linking ourselves with our lost values. All over the world and more so in our country, what we need first and foremost are solutions that can be utilized on a wide scale and on a long-term basis for reestablishing moral values.

Are values really on the decline in the contemporary world or is this a perception common to every age? Someone aptly summed up the situation thus: "Earlier, people would say: 'How can we speak a lie-we have a family to look after.' Today, they say: 'How can we speak the truth-we have a family to support'. Some of us consider it patriotic to deny that we are corrupt as a nation. Accepting, not ignoring reality is the first step to set it right. Lord Buddha said: "If you want to untie a knot, first learn how it came into being."

Let us slow down our pace, try to find our purpose in the scheme of the universe through our liking, talents and aptitudes. An effective and efficient cobbler is better than an incompetent engineer or doctor. It is not a particular profession that guarantees you abundance and happiness, but your competence. So just forget about competition as there isn't any except in your mind. Just go on moving within yourself, towards yourself and get linked to your roots. Discover your purpose and give your life to it.

View things from your children's perspective and understand them before expecting them to see your point of view. This will develop trust in them. Children adapt to parental values that get internalized if trust exists between parent and child. Children are sensitive and can recognize uncertainty and confusion in their parents' value system, and can become disenchanted with following the rules when they find that their parents' deeds do not match their words. Do not confuse the child by your double standards or by reacting inconsistently to their behavior. Let children see the logical connection between their deeds and the likely consequences.

We feel disillusioned with values because our leaders do not exhibit congruence between words and deeds.

"Our rewards, leadership, positions, appreciation and recognition ought to go only to those who live by high values, not to those who merely speak them," says Kiran Bedi. Similarly, we should be vigilant to detect any hypocrisy in our behavior.

All that it required is patience, faith and perseverance. Here faith means that we view the happenings in our lives—howsoever unjust or purposeless they may appear—as timely and essential gifts from God in the best interests of our growth and ultimate happiness. So we should not wait for others to change first, because transforming ourselves is not a sacrifice but something that will ensure bliss, harmony and transformation in our external circumstances too.

Shazia Haque
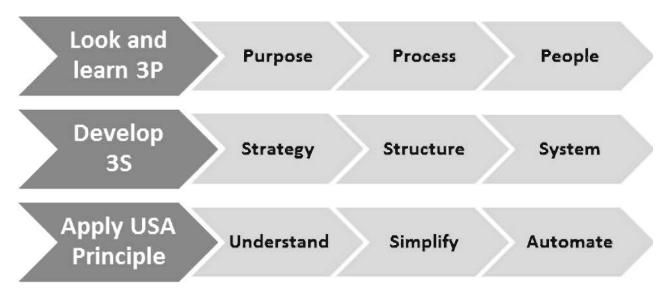Associate Professor
Deptt of IT, PCE

SUCCESS IN LIFE THROUGH SIMPLE QUALITY AND MANAGEMENT MANTRAS

The meaning of life is to give life meaning. Success is the most important, in this material and spiritual world and success is different for different people.Based on my experience in the academic and industry field I have found certain simple ideas which can be applied to our body, mind, and spirit in our life. I call them simple quality and management mantras which have been applied by leading developing countries in different form to improve quality of life everywhere. Same we can also apply to our future mission and goals to make India a Superpower.Act as per Dharma, do not look for results they will result automatically. This is similar to the Six Sigma philosophy of quality of the Japanese companies as Sony and Toyota.

Management is doing the useful the useful right things at optimum cost minimizing wastage of resources, people, material and energy and following the basics of ethics in all walks of life. The outcome of management should be good for the society and the environment. In the limited space and time here for a greater impact,wecan use logic of the formulas and equations.
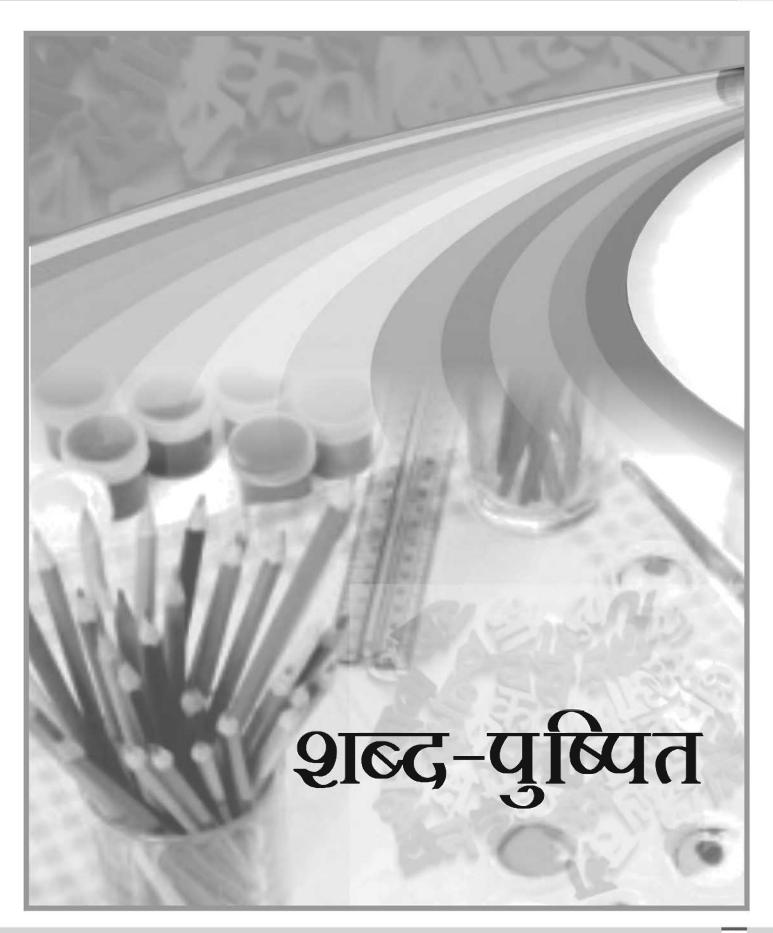

Look and learn 3P	Purpose	Process	People
Develop 3S	Strategy	Structure	System
Apply USA Principle	Understand	Simplify	Automate

Success Formula

S=TEEE: T=Time and Time Management, E=Effort, Effectiveness, E=Efficiency

Motivation Formula

M=IDEA: I=Involvement, D=Development, E=Encouragement/Empowerment, A=Acknowledgement
Do what you love and love what you do, remember success is a journey and not a destination. We are the architect of your own fortune and pray always the god inside you who will give you inspiration and strength to do the right things always as per his Dharma.

Dinesh Kumar Sharma
Assistant Professor
Department of EI&C Engineering

शब्द-पुष्पित

साहस

साहस , प्रत्येक व्यक्ति के भीतर वह ऊर्जा जो उसे मुस्किल घड़ियों का सामना करने व उनसे संघर्ष करके सफलतापूर्वक निकल जाने में सक्षम बनाती है| साहस के सहारे न होते हुए कार्य व कहठनाई से होने वाले कार्यो के निवारण का मार्ग आसानी से प्राप्त हो जाता है|

जीवन का दूसरा नाम ही संघर्ष है| जीवन कि राह में न जाने कितनी मुसीबते मार्ग अवरोधक का कार्य करती है | मनुष्य इन्ही मुसीबतो के आगे अक्षर घुटने टेककर हाथ खड़े कर देता है| परन्तु शासी व्यक्ति फर जैसी विपत्ति आने पर भी तनिक विचलित न होकर साहस का परिचय देते हुए उसका सामना करता है | डरने से या कायरता दिखाने से मुसीबतो का समाधान न होकर मनुष्य घबराई हुई अवस्था में कई गलत निर्णय लेकर जिंदगी बर्बाद कर देते है | इस संघर्षमय जीवन में साहस रखने से मुस्किल से मुस्किल कार्य के समाधान का मार्ग प्राप्त होता है , वही कायरता व घबराहट से बनते हुए कार्य भी अपूर्णता को प्राप्त होते है|

मुसीबतो से घिर जाने पर मनुष्य अपना संतुलन खो बैठता है व उनसे निकलने के विपरीत उन्ही में गिरता चला जाता है | वह अपने आप को बेहद कमजोर व असहाय महसूस करता है | मनुष्य को जिस कल मुश्किलो के समाधान के लिए प्रयत्न करना चाहिये उसी काल वह अपने आप पर तरस खाता हुआ व्यर्थ ही समय बराबद कर देते है | वह केवल मुसीबतो के समाधान व उनसे निकलने के बारे में सोचकर दिल को दिलासा देता रहता है | दिलासा देने से केवल मनुस्य का ध्यान मुसीबत से हटता है न कि मुसीबत समाप्त हो जाती है| किसके जीवन में मुसीबते नहीं आती ? प्रत्येक मनुष्य को मुसीबतो का सामना करना पड़ता है| जरा सी हिम्मत और साहस से हर मुसीबत के पर जाया जा सकता है|

"ना संघर्ष , ना तकलीफ तो क्या मजा है जीने में ,

बड़े बड़े तूफान थम जाते है , जब आग लगी हो सीने में "

मुसीबतो से घबराने से , कायरता व बुजदिली प्रकट करने से अछा उसका सामना किया जाए | मनुषय कोप विपरीत परिस्थितियो में धैर्य रखना चाहिये . धैर्य रखने से चित्त शांत रहता है | चित्त शांत रहने से मनुष्य किसी भी मुसीबत में नहीं घबराता और अपनी बुद्धिका प्रयोग करके उसका हल निकलता है|

"याज्य न धैर्य विधूरेपी काले

धैर्यात कदाचित गतिमाप्नुयात्सः

याते समुद्रेपी च पॉट भंगे

सायंत्रिको वाञ्छति तत्तुर्मेव ||

(अथार्थ :- कठिन समय आने पर भी धैर्य नहीं छोड़ना चाहिये| धैर्य से कदाचित गति मिल सकती है| समुद्र में जहाज के टूट जाने पर नाविक तैरना ही चाहता है|)

एक सकारात्मक मनस्थिति बनाकर निर्णय लेने चाहिये | तत्पश्चात स्थिरबुद्धि होकर चुनोतियो का सामना करना चाहिये | आत्मविश्वास के साथ आगे भर्दाना चाहिये तथा संव्य पर भरोसा होना चाहिये | आत्मविस्वासी व्यक्ति बड़ी से बड़ी चुनौती पर भी विजय पा सकता है|

मनुष्य को अपनी मांनसिकता में परिवर्तन लाना चाहिये | आज कि इस चुनौतीपूर्ण जिंदगी में हर पल एक नयी चुनौती जनम लेती है| इन्ही चुनोतियो को घबराने के लिए केवल सोच में परिवर्तन लाने कि जरुरत है| इन चुनोतियो को हराने के लिए केवल

सोच में परिवर्तन लाने कि जरुरत है इन चुनौतियों को बोझ ना समझ कर पर्याप्त महत्व देते हुए सुलझाना चाहिये केवल सोच में बदलाव लाने मात्र से ही कई बिगड़े कार्यों के रस्ते निकल जाते हैं|

"फूल तो फूल है ,काटों में भी खुश्बू जागे

तुम कभी अपने ख्याल बदल कर तो देखो|"

अतः हमें विपरीत परिस्थितियों में , हिम्मत व दृढता से हर चुनौतियों का सामना करना चाहिये | हमें अपने विचारों में सकारात्मक लानी चाहिये|

"नजरिया बदलिए नज़ारे बदल जायेंगे

सोचना बदलिए सितारे बदल जायेंगे

किश्तियाँ बदलने से क्या फायदा

दिशाएं बदलिए , किनारें खुद -ब -खुद मिल जायेंगे "

चुनौतियों कि वास्तविकता जानकर ,उसके समाधान के लिए तत्काल प्रयत्न करने चाहिये | निरंतर प्रयत्नशील रहने से निश्चित ही हर मुसीबत का रास्ता निकल जाता है| हमें गहराई से चिंतन करके एक निर्णय पर पहुचना चाहिये और उसी निर्णय पर बुलंद हौसलो के साथ बढ़ना चाहिये|

"रखते नहीं जो होसला दिल में मंजिल पाने का

मंजिले उनके इर्द गर्द घुमा करती है ,

साहस होसला दिलेरी है जिनकी पहचान ,

मंजिले उनके कदम चूमा करती है |"

अनन्य शेखर व्यास
प्रथम वर्ष, सी.एस.

कठिनाईयाँ

राहे भले कठिन हो ,
चलना हमें पड़ेगा |
बाधा भले ही रोके ,
आगे कदम बढ़ेगा |
कठिनाईयाँ से हमको ,
डरना कभी नहीं है |
मन में एक भरोसा ,
तो पालना पड़ेगा |
न हारना है हमको ,
न धैर्य खोना है |

अपने बाहुबल पर हमको ,
विजय आज पानी है |
कर्मरत मन हो सदा ,
ईश्वर से कामना है ,
हर एक का भला हो,
बस यही भावना है |
अपने लक्ष्य के लिए ->
आखों में चमक सी है ,
दिल में विश्वास सा है |
कुछ कर गुजरने का

एक अहसास सा है|
पापा के सपनो को
सच करने का एक प्रयास सा है ||

मयंक कौशिक
आई.टी. दितीय वर्ष

कंप्यूटर और आज की दुनिया

"असम्भव वह शब्द है, जो मूर्खों के शब्दकोश में पाया जाता है | "आज के युग में कुछ भी सम्भव है, उस दिमाग कि दाद देनी होगी जिसने कंप्यूटर जैसे उपकरण का आविष्कार किया था | आश्चर्य की बात तो यह है की एक बटन दबाने भर से, कोई भी काम कर सकते है |

सेकंडो में कीजिये , घंटो भर का काम,

कही भी, कभी भी, सुबह हो या शाम ||

यदि आज हम इधर-उधर नजर डालेगे तो हम पायेगे की आज लघभग हर क्षेत्र में कंप्यूटर उपयोगी हो चुका है| बैंक, रेलवे, हवाई-सेवा, डाक, उधोग, शेयर   आदि | सुना है अब तो शादिया भी कंप्यूटर पर ही हो रही है | हमें पता भी नहीं चलता की एक दिन में इस भागदौड़ भरी जिंदगी में कितनी ही बार कंप्यूटराइज्ड उपकरणों का उपयोग करते है | अब एक मोबाइल फ़ोन को ही ले लीजिये ५० ग्राम का वजन भी नहीं है , फिर भी देश-विदेश भर में किसी से भी बात ही नहीं बल्कि उस आदमी की फोटो भी देखी जा सकती है | फ्रीज़, टेलीविजन, वाशिंग-मशीन सब कुछ कंप्यूटर पर्णाली पर निर्भर है |

एक समय विज्ञान ने कंप्यूटर को बनाया था, किन्तु आज विज्ञान के कार्यभार को कंप्यूटर ने ही सम्भाल रखा है | पृथ्वी के एक छोर से दूसरे छोर तक हम एक जगह बैठे जानकारी ले सकते है | कंप्यूटर के कारण ही हम आज चाँद के पर जा सके है | ब्रह्माण्ड में क्या- क्या हो रहा है, इसकी जानकारी हम मिनिटो में प्राप्त कर सकते है | मानव शरीर की सर्जरी, स्कैन, तापमान ,आदि मेडिकल क्षेत्र में सुविधाये हुई है| पुलिस , सीबीआई विभाग के लिए यह वरदान है, क्योकि शहर में होने वाली हर एक अपराधिक हरकत को आसानी से देखा जा सकता है और वही बेठे कारवाही की जा सकती है | टेलीफोन , बिजली का बिल, रुपयो का लेन-देन चाँद मिनिटो में एक बटन दबाते ही सभी काम कर सकते है |

कंप्यूटर से ही इंटरनेट से अनेको कार्य जैसे :- बैंक , विधालयो , कॉलेजो , आदि की जानकारी को सीडी , या अन्य स्टोरेज उपकरणों में सुरक्षित पासवर्ड डालकर   रख सकते है | विश्व में किसी भी कोने की जानकारी अब पल भर में मिल सकती है , यही तो है इंटरनेट | किताबे , समाचार , प्रतियोगिताये , फ़िल्म हर चीज यहाँ उपलब्ध है और तो और क्रेडिट कार्ड हो तो है शॉपिंग भी घर बैठे कर सकते है |

कंप्यूटर हर क्षेत्र में कितना ही काबिल क्यों न हो पर उसे बनाया तो इंसान ने ही है , जैसा निर्देश मिलेगा वैसा कार्य ही तो करेगा | आज कंप्यूटर की मदद से चोरिया हो रही है, जिसे हम हैकिंग बोल सकते है | कुछ अश्लील वेबसाइट है जो अश्लीलता बाँट रही है |जरुरत से ज्यादा प्रयोग होने के कारण इंसानी ज्ञान काम हो रहा है | हम मशीनो पर निर्भर है |

अगर एक दिन के लिए मशीनो को बंद कर दिया जाये तो हम बर्बाद हो जायेगे |

अगर हम कंप्यूटर को दूसरे नजरिये से देखे तो कंप्यूटर हमारी लाइफ का एक हिस्सा बन सकता है या ये कहे कंप्यूटर एक अच्छा दोस्त बन सकता है | आज दुनिया का लगभग हर कार्य कंप्यूटर से कर सकते है | अपने जीवन कि हर प्रॉब्लम का हल ढूंढ सकते है |

आज दुनिया के हर वो लोग जो देश को बेहतर बनाने में योगदान दे रहे है इंजीनियर, डॉक्टर, पुलिस, आर्मी ,साइंटिस्ट, इत्यादि सभी कंप्यूटर के बिना कार्य नहीं कर सकते है | सबको कोई न कोई नई तकनीक ढूंढने के लिए कंप्यूटर कि जरुरत पड़ती है | आज के समय में हर इंसान कंप्यूटर से जुड़ा है | कंप्यूटर में एक सकारात्मक सोच के साथ कार्य करवाया जाये तो हम मुस्किल से मुस्किल कार्य को भी आसानी के साथ कर सकते है या यु कहे हम दुनिया बदल सकते है।

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अशोक कुमार

प्रथम वर्ष, सी.एस. ग्रुप -बी

टी. ए. , (लैंग्वेज लैब)

</div>

जिंदगी क्रिकेट है

धरती एक पीच है , बोलर राम का दूत है ,
विकेट कीपर यमराज है ,
भगवान अम्पयार है ,
प्राण विकेट है ....
जिंदगी विकेट है
गिल्लियां उड़ने का मतलब
प्राण- पखेरू उड़ जाना है
और L.B.W. होना
दिल का दौरा पड़ जाना है
रन आउट होना तो
जैसे एक्सीडेंट है

जिंदगी क्रिकेट है
कैच-आउट होने वालो को
वीर गति मिल जाती है
स्टम्प-आउट होने वालो की
हत्या कर दी जाती है
आत्म हत्या करना तो
मानों "हीट-विकेट" है
जिंदगी क्रिकेट है !!!!

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विधान दोसी

प्रथम वर्ष, सी.एस.

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पूर्णिमा संस्थान

(ज्ञानम् बिना न किमपि साध्यम)

राजस्थान का गौरव है , जो मरुधरा कि शान है .

जिस मंदिर में ज्ञान हम पाते है , वो पूर्णिमा संस्थान है |

यहाँ सद्गुरु और शालीनता का पाठ पढ़ाया जाता है ,

विनम्रता और अनुशासन से जीना सीखाया जाता है |

जहां दीपक जलते है ज्ञान के , दूर होता अज्ञान है |

राजस्थान का गौरव है , जो मरुधरा कि शान है .

जिस मंदिर में ज्ञान हम पाते है , वो पूर्णिमा संस्थान है |

गुरुजन आदर करना है , यहाँ शिस्य धर्म है ,

एक दूसरे कि मदद कर आगे बढ़ना, यहाँ प्रथम कर्म है |

गुरुजन बढ़ाते ज्ञान है,

राजस्थान का गौरव है , जो मरुधरा कि शान है .

जिस मंदिर में ज्ञान हम पाते है , वो पूर्णिमा संस्थान है |

समय-समय पर हो कार्य कई , ऐसी कई नीतियाँ है ,

प्रोजेक्ट प्रदर्शनी और खाल प्रतियोगिता , होगी कई नीतियाँ है |

इस मंदिर की, इस ज्ञान स्त्रोत की , अपनी एक पहचान है |

राजस्थान का गौरव है , जो मरुधरा कि शान है .

जिस मंदिर में ज्ञान हम पाते है , वो पूर्णिमा संस्थान है |

अंकित और पंकज महर्षि

सी . इ . (दितीय वर्ष)

चार साल

आज फर्स्ट एयर में , कॉलेज का पहला दिन है |

मेरे नए दोस्त नए सपने , अब परिवार के बिना है |

बीतता समय मस्ती भर , कई कुछ पहली बार हो रहा है |

क्या सीखा पता नहीं ,पर धीरे-धीरे ये वर्ष जा रहा है ||

मजबूत कदम और अनुभव से, खुद को सीनियर हुँ लगा ,

सेकंड ईयर आया , कुछ नया करने का अरमां जगा |

फ्रेंड्स पार्टी मूवी वगेरह में , सारा समय जा रहा है ,

थोडा नया सीखा था कि , वक्त ये वर्ष भी बिता रहा है ||

भय ने दस्तक और समय ने रुकसद, होना शुरू कर दिया है,

न चाहते हुए भी कॉलेज ने , थर्ड ईयर स्टार्ट कर दिया है |

कोचिंग वॉचिंग वगेरह , सब ठीक चल रहा है ,

कल ही पहला इंटरव्यू दिया , आज ये वर्ष अलविदा कह रहा है||

रजा कैसे राज करता है , आज मुझे समझ आ रहा है ,

क्योकि टेंशन और गुरुर , फोर्थ ईयर साथ ला रहा है ,

gd इंटरव्यू और एग्जाम में ,सारा ज्ञान काम आ रहा है ,

आज फेयर वेल है , तो कम्पुस का हर किस्सा याद आ रहा है ||

आज डिग्री लेकर , पुराने दोस्तों से फिर मिल रहा हुँ ,

कुछ नहीं मगर कुछ प्लेस्ड है ,और कुछ को ढूंढ रहा हुँ ,

चार साल कैसे बीते , ये तो कभी पता नहीं चलेगा ,

लेकिन इन सालो में क्या बिताया , ये ताउम्र पता चलेगा ||

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ऐश्वर्या शर्मा

दितीय वर्ष ,सीविल

</div>

"कश्मीर तो होगा लेकिन पाकिस्तान नहीं होगा "

हम डरते नहीं हड़कंपो से , विस्फोटक जलपातो से,
हम डरते नहीं है, तसकांड , शिमला जैसे समझोतो से,
शियार भेड़िये से डर सकते , सिहो की ओलाद नहीं,
भरतवंश के इस पानी की है, तुझको पहचान नहीं,
आइटम बॉम्ब बनाके तुम किस्मत पर फुल गये,
६५.७१ और ९९ के युद्धो को शायद तुम भूल गये ,
तुम याद करो अब्दुल हमीद ने पेंटन टैंक जला डाला,
हिन्दुस्तानी नटो ने अमरीकी जेट जला डाला ,
तुम याद करो गाजी का बेटा, झटको में ही डूबा दिया,
ढाका के जनरल नियादी को दूध छटी का पीला दिया,
तुम याद करो ९०००० उन बंदी पाक जवानो को,
तुम याद करो शिमला समझोता, इंदिरा के अहसानो को,
पाकिस्तान ये कान खोलकर सुन ले, कि अबके जंग छिड़ी तो सुन ले,
नाम निसान नहीं होगा , कश्मीर तो होगा लेकिन पाकिस्तान नहीं होगा,
लाल कर दिया लहू से तुमने श्रीनगर कि घाटी को,
किस घपलत पर छेद रहे तुम सोई हल्दीघाटी को,
जहर पिलाकर मजहब का इन कश्मीरी परवानो को,
भय और लालच दिखलाकर तुम भेज रहे नादानो को,
खुले प्रशिक्षण , खुले शस्त्र है, खुली हुई शैतानी है,
सारी दुनिया जान चुकी यह हरकत पाकिस्तानी है,
बहुत हो चुकी मक्कारी, बस बहुत हो चूका हस्तक्षेप,
समझादो उनको वरना, भभक उठेगा पूरा देश,
देश हो गया अगर खड़ा तो त्राहि -त्राहि मच जायेगी,
पाकिस्तान के हर कोने में महाप्रलय आ जायेगी,
क्या होगा अंजाम तुम्हे इसका अनुमान नहीं होगा,
कश्मीर तो होगा लेकिन पाकिस्तान नहीं होगा,
ये आवासक, ये आइटम बम और हिम्मत कोन दिखायेगा,
इन्हे चलाने क्या बोले बाप तुम्हारा आयेगा,
अबकी चिंता मत कर चेहरे का खोल बदल देगे,
इतिहास की क्या हस्ती है, पूरा भूगोल बदल देगे |
धरा हर मोड़ बदलकर , लाहोर से गुजरेगी गंगा,
इस्लामाबाद की छाती पर लहरायेगा भारत का झंडा,
रावलपिंडी और कराची तक सबकुछ गैरात हो गायेगा,
फिर सदियो-सदियो तक जिन्ना जैसा शैतान नहीं होगा,
कश्मीर तो होगा लेकिन पाकिस्तान नहीं होगा ||

कांतिशंकर तिवारी
ऍम.ई. दितीय वर्ष

सुखद - अनुभूति

स्वपनो की ये गाथाये , चंचलता - ए- मदहोशी ,
हमने उनको बहुत रोका पर हमारी खामोसी |
हमरो धैर्य उनके पास यू खिलखिलाता था ,
जैसे एक प्याला सुराही का मयखाने को जाता था ||

हमारे दर्द- ए - जख्मो पर छिडकना राज है गहरा,
तुम्हे मोका मिले तो तुम लगा लेना यहाँ पहरा |
कहां तुम और ढूंढोगे साहिल -ए - समंदर का ,
पर यदि मन करे तो देखना नव - ए - सपना ||

हम मगरूर थे पर उनकी लोलुपता बाकि थी ,
प्यासे को पानी को देखने की कामना बाकी थी |
यही पर आसमां गहराया था बादल,
तभी तो हमने उनकी मुस्कान की देखी झांकी थी ||

दोस्ती के शामियाने देखा करते याराना ,
नूतन राज बातो का भुलाया करते अफसाना |
यही पर वक्त -ए-सपनो का रोज दिखता था ,
तुमने देखा तो सपना था , हमने देखा तो अपना ||

अनुभव भी सीखने पर बड़ा इतराता लगता है ,
हमारी स्वानुभूति पर पर्दा डाला करता है |
उद्वग्नता देखकर स्वीकृति नही हर्ष करती है ,
आत्मा भी आखिर हमारे को ही वरती है ||

आसियाना अहसासो का बनकर भी बन पाया ,
हमने शोचा जो जवानी में बुढ़ापा भी कर पाया |
कभी तो चाँद तारो की रोशनी जगमगाती थी ,
सर्द- रातो की ऋचाएं कालिया बनके आती थी ||

अमित पारीक
प्रथम वर्ष, सी.एस.

हौंसला

राह अगर आसान ही होती , तो मंजिल पाना आसान नहीं होता !

अगर दुनिया जीतने की ही पद गयी हो आदत , तो वो इंसान नहीं सोता !

अगर सब हर के ही बैठ जाते ,तो एक चाय की दुकान वाला गुजरात का आलाकमान नहीं होता !!

जमाना तो बदलता रहा , और बदलता रहेगा !

अगर ठान लीया तूने तो कुछ नामुमकिन नहीं , जो तू चाहे वो करेगा !!

अब दुसरो के किस्सो को मत सुन, खुश तो तब हो जब तेरा किस्सा बनेगा !!

भूल जा बीती बाते, कम से कम अब तो जाग !

अपनी अद्भुत प्रतिमा को दिखाकर , मनवा अपनी साख !

मत सोच की लम्बी दुरी का घोडा नहीं तू , आखिरी दम तक भाग !

कुछ छोटे तालाबो के बीच में समंदर बन के देखा !

अपने विचारो से अंधकार दूर कर इस दुनिया को कुछ सिखा !
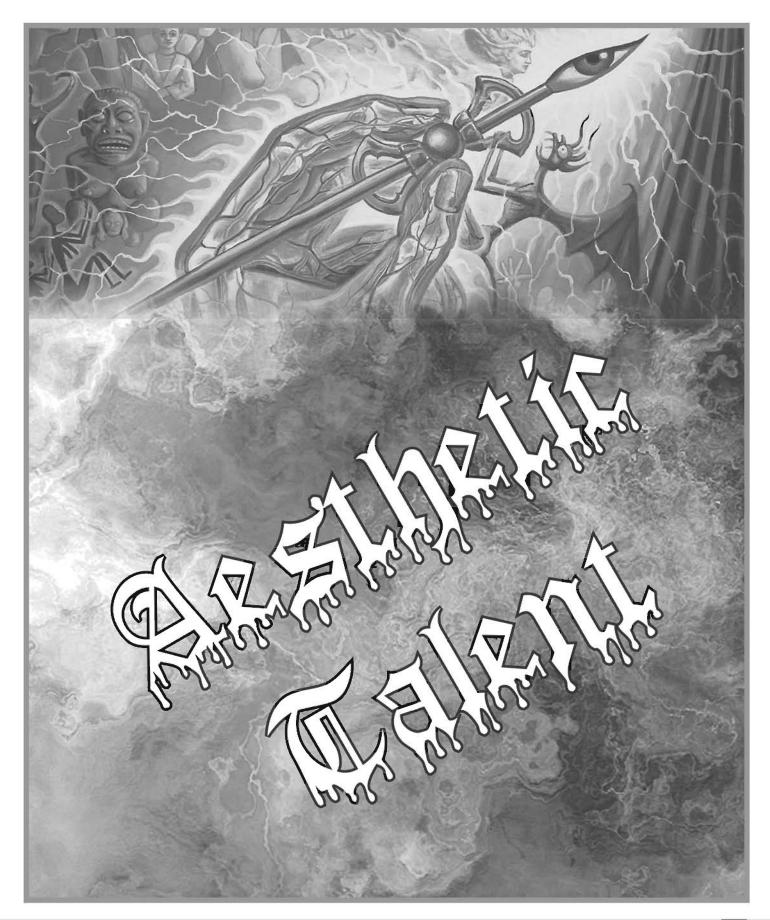
भुत सितारे है इस नभ में, पूर्णिमा के चाँद सी चांदनी कर इस गगन को तू चमका !!!

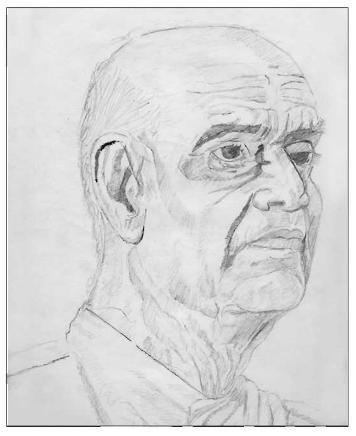आदित्य पाठक
प्रथम वर्ष, सी.एस.-ए

IMPORTANT LINKS

- elt.oup.com/learning_resources
- languageguide.org/english
- gcflearnfree.org/everydaylife
- tv411.org
- abcya.com
- a4esl.org
- bbc.co.uk/worldservice/learningenglish
- cdlponline.org
- eslcafe.com
- manythings.org
- easyworldofenglish.com
- Grants.net

- Scopus.com
- Science Commons.org
- Acronym Finder.com
- EurekAlert.org
- eFunda.com
- Freepatentsonline.com
- ResearchGate.net
- RedOrbit.com
- Daniel Soper's free online statistics calculator
- MathGV.com
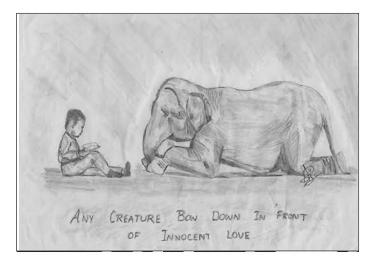- Plagiarism.com
- ScienceBlogs.com

Aesthetic Talent

Kritika Khandelwal
IT, II Yr.

Prashant Kumar
IT, I Yr.

Harshit Sharma
EC, I Yr.

ANY CREATURE BOW DOWN IN FRONT
OF INNOCENT LOVE

Aishwarya Sharma
Civil, II Yr.

Manali Modi
CS, II Yr.

Jyoti Sharma
CS, II Yr.

Bhawana Soni
CS, II Yr.

Ananya S Vyas
CS, I Yr.

Bhawana Soni
CS, II Yr.
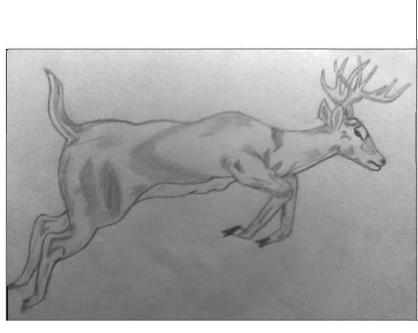
Vartika Srivastava
EC, I Yr.

Krishan Kataria
CS, II Yr.

Ashok Kumar
T.A. I Yr.

POORNIMA WINNERS - 2014 TORCH BEARERS & EDITORIAL BOARD

।। 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 .....