

POORNIMA PIONEER


ANNUAL MAGAZINE - 2014



POORNIMA
GROUP OF INSTITUTIONS

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

Recent Advances in Science and Technology



Technology and science has made living easier in many ways. This has proven to be more time efficient and result in higher productivity in companies. The advances can be seen in improved transportation, communication and all the work places. The advancement we can even feel at home life is now at complete ease. Communication has improved to allow users to communicate in numerous ways instead of relying on postal mail or face to face meetings. People are able to travel to local or far away locations at a more rapid pace than in previous years when the technologies didn't exist.

All these things are possible through the advancement so *Recent Advances in Information Science and Technology* brings you a balanced, state-of-the-art presentation of the latest concepts, methods, algorithms, techniques, procedures and applications of the fascinating field of Science and Engineering.



Vision

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

Mission

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



Quality Policy

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

From the Editor's Pen



Dear Readers;
Greetings!

It is a matter of great pleasure and pride for me to witness spiraling path of **POORNIMA PIONEERS** which is penned down with all personal care & concern. Annual college magazine is a mirror of round the year activities occurring in the premises both in Academic and in Co-curricular domains.

Poornima Pioneers is a platform for young & aspiring writers to voice their opinions, thoughts, beliefs and emotions. Thus this issue is a product of teamwork and an apt manifestation of creativity. The fifth issue of Poornima Pioneers is focusing "Recent Advancement of Engineering & technology" as its theme. It is presenting the significant achievements in focused areas of engineering and technology and showcases the dream of a rich future.

To conclude I would like to extend my heartiest congratulations & thanks to all my colleagues who cooperated me in accomplishing this mammoth task directly & indirectly. I would like to pay my healthy gratitude to the guiding angels for their enable guidelines and support.

Happy Reading


(Soni Vijayvargiya)
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Message

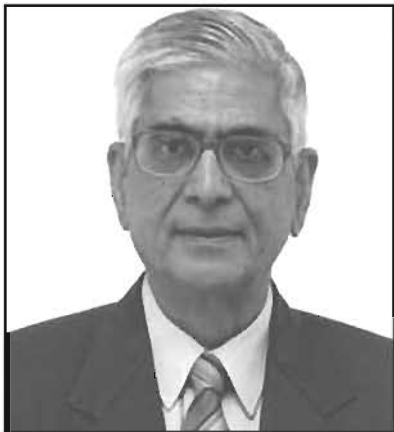
It is a matter of great pleasure that Poornima Group of Institutions, Jaipur is bringing out its annual magazine, **POORNIMA PIONEER - 2014**.

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 Group of Institutions, Jaipur is bringing out the fresh issue of its annual college magazine **POORNIMA PIONEER - 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.

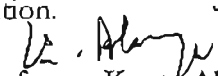
With warm wishes!

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

Message

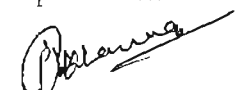


I am delighted to know that Poornima Group of Institutions, Jaipur is publishing its Annual College Magazine **POORNIMA PIONEER - 2014**. You do not come across success just by hoping for it. To achieve true success, you need the strength of mind and body to struggle and work hard to reach your fullest 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



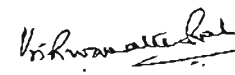
I am happy to observe the growing success of Poornima family which has worked hard to take Poornima Group of Colleges to greater heights of success. I am sure that publication of college magazine **POORNIMA PIONEER** would receive great appreciation. It is also noteworthy that the college has progressed 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 Group of Institutions, Jaipur is bringing out its Annual College Magazine **POORNIMA PIONEER** this year. The college has earned high reputation in a short span of time and is giving good education to the students. It gives a feeling of immense gratification to see Poornima Group of Colleges contributing its best to the movement of shaping young minds not only with knowledge but also with values. I hope that the magazine which they are going to release will reflect the hidden potential of the young technocrats through the useful articles published in it. I wish Poornima Group of Institutions, 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 PIONEER - 2014**. The magazine embodies the lively spirit of **Poornima Group of Institutions, 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 Group of Institutions, Jaipur**, is bringing out latest issue of its college magazine **POORNIMA PIONEER - 2014**. 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

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 Group of Institutions, Jaipur** is going to publish its annual college magazine **POORNIMA PIONEER - 2014**. I would like to compliment the Poornima Family for making best possible efforts to ensure optimal growth in all sectors of academics & non academics.

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

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

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

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

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

A handwritten signature in dark ink, appearing to read 'S.M. Seth'.

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



From The Director General's Heart...

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

It gives me immense pleasure to share that **Poornima Group of Institutions, Jaipur** is bringing forth yet another issue of its Annual College Magazine: **POORNIMA PIONEER - 2014**. 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!

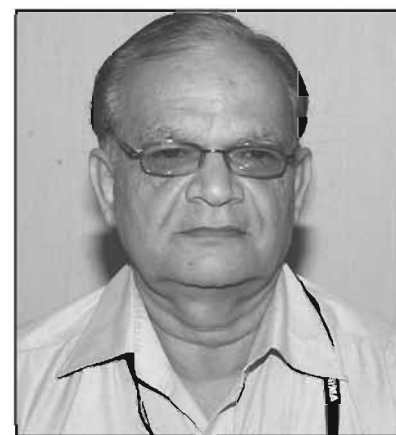
JAI JAI POORNIMA SANSTHAN! JAI HIND.

A stylized handwritten signature in black ink.

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

From The Director's Desk...

*"I have been impressed with the urgency of doing. Knowing is not enough;
We must apply. Being willing is not enough; We must do."*



I greet you all through the 5th Annual Magazine **"Poornima Pioneer"** with a deep sense of appreciation and joy. My heart is filled with memories of good experiences and outstanding relationships of the time, when we laid the foundation of this college 5 years back. It is a real pleasure to see the little toddler converting into a dynamic sophomore that is determined to strive ceaselessly and reach the zenith with its continuous efforts.

Engineering is a great profession. There is the satisfaction of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realization in stone or metal or energy. Then it brings homes to men and women. Then it elevates the standard of living and adds to the comforts of life. This is the engineer's high privilege.

The nature of engineering, or at least engineering performance, is changing dramatically with challenging new technologies to be deployed in increasingly demanding environments — from sub-microscopic to mega projects and from the interior of the human body to the remotest regions of the world and beyond to the surfaces of the Moon and Mars — and with competition and interaction on an increasingly global basis.

Engineers can play a leadership role in this global transformation. To do so, they must continue to be innovators, remaining in front on important new commercial technologies. They must retain the ability to pioneer first-of-a-kind products and facilities. Innovation will be the single most important factor in determining India's success throughout the twenty first century.

Young engineers must be forward thinkers who are visionaries. More than ever, they must help to shape issues and define challenges that must be addressed, not merely detailing concepts developed by others. They must be communicators and teachers. They must ensure that all segments of the public are aware that engineers are helping to shape this nation's industrial capabilities and that they are contributing to the world's economy, health care, and quality of life, and, in the process, will be making engineering, a much more attractive career choice.

Youngsters have to prepare for this new broader role along with technical competence, effective communications, especially cross-culturally. They need to know the world and the other people who work in it. They have to acquire more interdisciplinary knowledge and continue to learn and improve throughout their career. They must have the ability to acquire new knowledge quickly and apply it to emerging problems. They must be open minded, objective and stay involved and committed to the interest of the public as well as to the interest of the profession.

They must be persistent and tenacious. They must have integrity and discipline. And they must retain a sense of curiosity and wonder. Engineering builds the foundation for a better future.

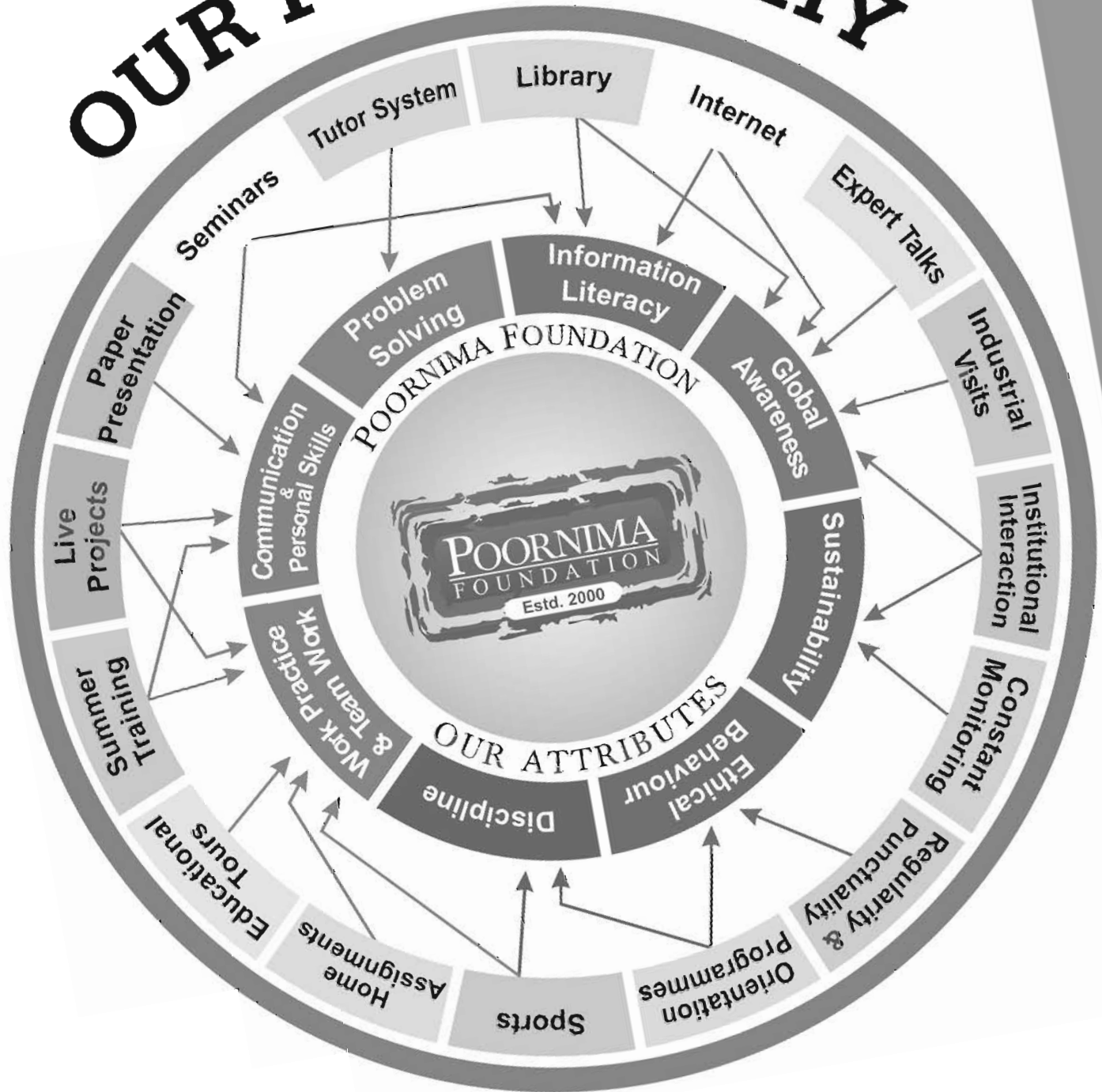
On an end-note, I congratulate members of the magazine editorial team for their whole hearted efforts in successful publication of **"Poornima Pioneer"**.

Above all, my affection and best wishes are with all of you. Many Congratulations again for the magazine. God bless you all!

A handwritten signature in dark ink, appearing to read 'Rakesh Duggal'.

(Dr. Rakesh Duggal)
Director Academics, PGC
and Director, PGI

OUR PHILOSOPHY



PCE GOVERNING COUNCIL

Ninth Meeting, 2013



Twelfth Meeting of the PJF Advisory Board, 2013



THE THINK TANK OF POORNIMA FOUNDATION

PJF ADVISORY BOARD

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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
Govt. of Rajasthan

Member



Prof. Vijay P. Singh
Professor
Texas A & M University, USA

Member



Prof. V. Sinha
Ex-Prof, IIT, Kanpur
Ex-Director, LNMIT, Jaipur

Member



Dr. S.S. Acharya
Ex-Director
Institute of Development
Studies

Member



Mr. V.K. Ladia
Chairman & Managing Director
Shree Rajasthan Syntex Limited
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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Advisor, Poornima Alumni Association



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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 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 conducive 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.



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.

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

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.

SHANTIDEVI 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
1.	Ms. Kulsum Bano	32
2.	Ms. Himanshu Shekhawat	28
3.	Ms. Swati Jain (MBA)	26
4.	Ms. Ranu Sharma	22
5.	Mr. Brijraj Singh	20
6.	Ms. Nidhi Tak	20
7.	Dr. Priti Kaushik	20
8.	Ms. Astha Malik	19
9.	Ms. Geetika Patni	19
10.	Dr. Bina Rani	18
11.	Ms. Karishma Sharma	18
12.	Dr. Chandni Kriplani	17
13.	Ms. Jaya Pareek	17
14.	Mohd. Rizwanullah	17
15.	Dr. Rekha Nair	17
16.	Ms. Shazia Haque	17
17.	Mr. D. S. Kumani	16
18.	Dr. Neeraj Jain	16
19.	Ms. Soni Vijayvargiya	16
20.	Mr. Sunny Dawar	16
21.	Ms. Monika Surana	15
22.	Ms. Priyanka Khandelwal	15
23.	Ms. Sakshi Sharma - II	15
24.	Mr. Sanjay Kumar Gupta	15
25.	Mr. Sumit Srivastava	15

S. No.	Name of Faculty	No. of Awards
26.	Ms. Yashika Saxena	15
27.	Mr. Devendra Gupta	14
28.	Mr. Giriraj Methi	14
29.	Ms. Himanshu Rathore	14
30.	Mr. Manish Singhal	14
31.	Ms. Pooja Sharma	14
32.	Mr. Sunil Gupta	14
33.	Mr. Lalit Gehlot	13
34.	Mr. Rakesh Kumar Goyal	13
35.	Ms. Samriddhi Jain	13
36.	Ms. Sangita Choudhary	13
37.	Mr. Ajay Khunteta	12
38.	Mr. Amish Dugar	12
39.	Mr. Amit Srivastava	12
40.	Mr. Amol Saxena	12
41.	Mr. Deepak Kumar	12
42.	Ms. Mahima Kapoor (Khanna)	12
43.	Ms. Swati Jain (PCE)	12
44.	Ms. Swati Singh	12
45.	Mr. Vinod Kumar	12
46.	Mr. Abhayjeet Singh	11
47.	Mr. Amit Gupta	11
48.	Mr. Amit Kumar Sharma	11
49.	Mr. Bhoopesh Kumawat	11
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



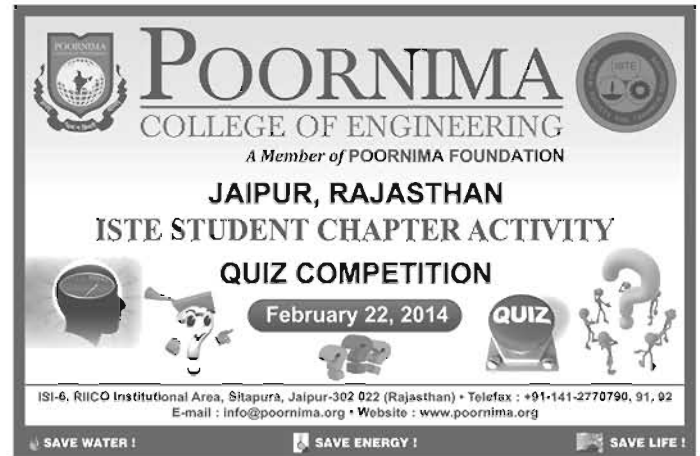
Wipro started MTLC (Mission 10x Technology Learning Centre) with the objective of empowering the employability in engineering education and to ensure the quality of young engineers. It is entirely a nonprofit initiative aiming to improve employability of young Indian engineers. The MTLC was established 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 UTLT 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 spirit 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



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

IEEE

The Institute of Electrical and Electronics Engineers is a professional association that is dedicated to advancing technological innovation and excellence having 425,000 members in about 160 countries. The

IEEE is incorporated under the Not-for-Profit Corporation which was formed in 1963 by the merger of the Institute of Radio

Engineers and the American Institute of Electrical Engineers. IEEE's Constitution defines the purposes of the organization as "Scientific and educational,



directed toward the advancement of the theory and practice of Electrical, Electronics, Communications and Computer Engineering, as well as Computer Science, the allied branches of engineering and the related arts and sciences. The goal of the IEEE education programs is to ensure the growth of skills and knowledge in the electricity-related technical professions and to foster individual commitment for continuing the education among IEEE members, the engineering and scientific communities, and the general public.

TRAINING AND PLACEMENT CELL OF PGC:

A center of knowledge application & its result

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

EDISON LAB - R & D LAB

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

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

POORNIMA ALUMNI ASSOCIATION (PAA)

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



POORNIMA

ALUMNI ASSOCIATION

WOMEN IN SCIENCE AND ENGINEERING (WISE)



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

POORNIMA AAROHAN: *A fest of joy & learning*

PGC organizes AAROHAN the Annual Tech-Cult-Sports Fest every year in order to promote technical and academic oriented activities among students providing them the platform to showcase their aesthetic talents. It is a Tech-Cult-Sports Fest which

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



POORNIMA PRAYOGAM:

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





**CHAIRMAN'S
REPUBLIC DAY ADDRESS
26th January 2014**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Our students should explore the possibilities and opportunities of industry exposure and becoming campus entrepreneur. 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, माँ 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

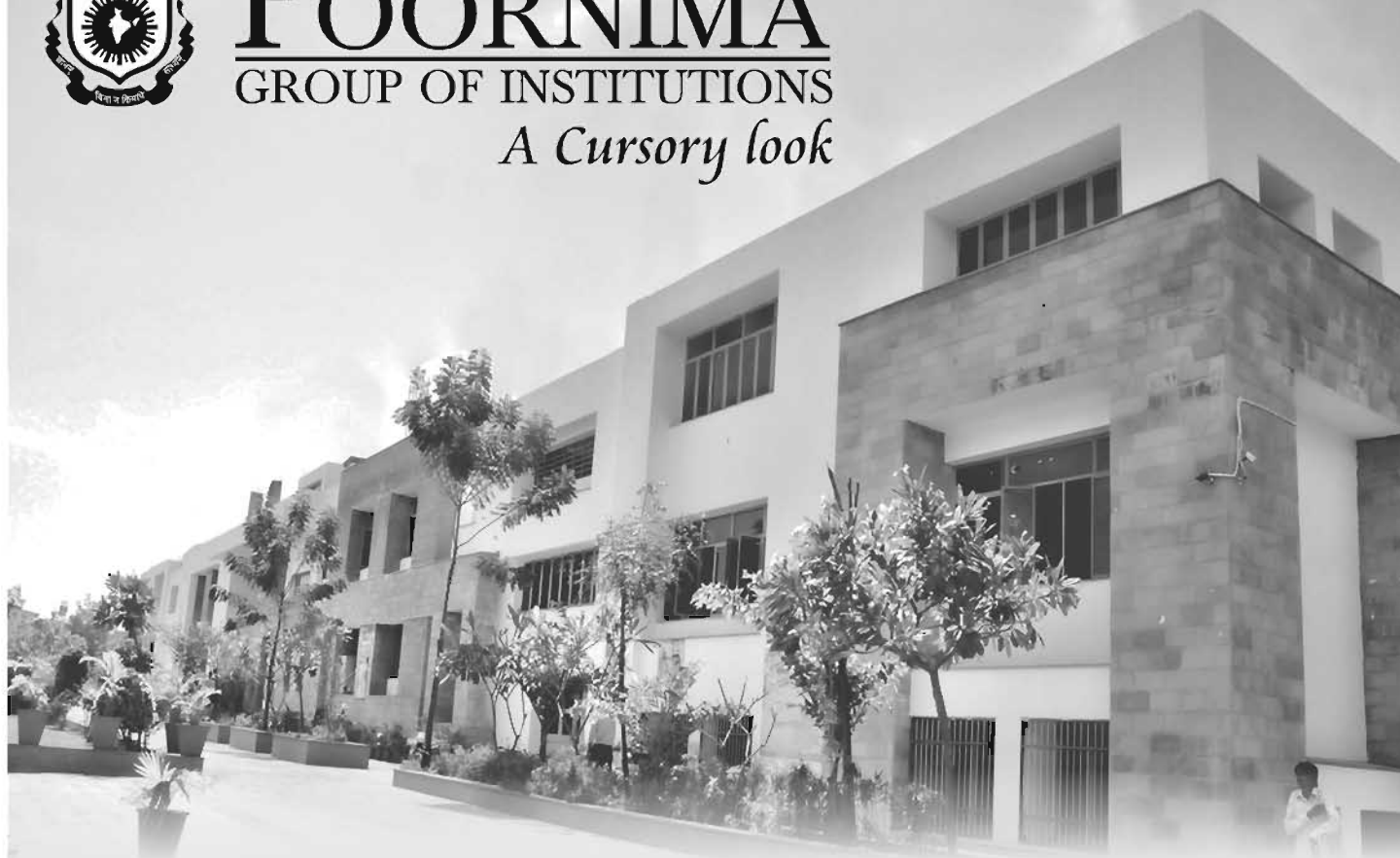
Chancellor, Poornima University &
Chairman, Poornima Group of Colleges
(Former Director, NIH, Roorkee)



POORNIMA

GROUP OF INSTITUTIONS

A cursory look



Since its inception, in the year 2009, with 254 students and 20 faculty members, Poornima Group of Institutions has witnessed tremendous growth in education sector. It was established with a vision, to bring up a temple of learning & has pursued a unique path of molding bright minds, into young technocrats & managers, that are Indian in spirit and global in attitude. PGI now prides itself as being that cradle of Intellect. The institute is situated in the heart of Sitapura Industrial Area giving students an advantage of keeping in touch with the industry. The Institute aims at providing world class technical and scientific education which can develop a professional outlook in every walk of life. The college schedule is designed to leave ample scope for every student to progress and excel in academics and beyond syllabus activities. These activities are scientifically designed for the students to demonstrate and nourish their talent and intellectual caliber. Thus PGI is assuring quality in every sphere and is given credit that is due for some clearly visible strategies.

Moreover, Institute's objectives have been honestly pursued and effectiveness has been achieved by the resources currently available. Some of the unique features of PGI are given below:



- Approachable location: Close to National Highway No. 12 and 20km from Jaipur Railway Station and Bus Stand, 8km from Jaipur International airport.
- Serene Ambience and natural surroundings.
- Excellent infrastructure worth 96,876 sq.ft. of constructed area.
- All modern accessories to cater to the needs of young budding technocrats.
- Recognized by the AICTE, Ministry of HRD, Govt. of India.
- Affiliated to Rajasthan Technical University (RTU).
- Widely recognized and respected by industries and corporate sector in India.
- Quality production on every threshold.
- Symbolizes excellence through initiative, reliability, transparency, quality and professionalism of highest degree.
- Stimulates faith and confidence among millions of Indians as well as people from abroad.
- Runs four courses on engineering (CE, ME, ECE, Civil) at UG level.
- More than 100 faculty members and 60 staff members.
- Proper building, equipment, facilities and supports.
- More than 400 student intake.
- The preferred engineering college with large number of admissions through Rajasthan Pre Engineering Test (RPET) & All India Engineering Entrance Examination (AIEEE).
- Selected among top ten institutions of Rajasthan.
- Student's training with corporate giants and outstanding state and central Government organizations.
- Regular industrial visits and work opportunities on live projects.
- More than 50 student projects submitted to DST, Govt. of Rajasthan for external funding.
- DELNET facility to access DELNET databases through World Wide Web.
- Completely Wi-Fi Campus.
- Digital Language Labs for better communication skills.
- Specially designed curriculum P-PROSKEP for personality development.
- Unique tutor system for mutual relationship of student and faculty.
- Weekly online exam facility for knowledge updating.
- Non syllabus projects & seminars for practical knowledge of students.
- Multi-faceted orientation program.
- Excellent conveyance facility from all parts of Jaipur.
- Special lectures & workshops by people from industries.



Admission Cut Off

PGC CUT OFF : PGI has made consistent progress, year on year, in academics & non academics areas within a very short period of time. It has strengthened its position as pioneers in providing technical education since its inception. So the buds are always attracted to be a successful techno-crate. Here is a glimpse of our cut-offs at Poornima Group of Institutions (PGI) Jaipur that stands in support of the above mentioned facts.

PGI RPET			
BRANCH	START	CUT- OFF	INTAKE
Civil	10730	33892	126/126
CE	10935	59310	30/63
EC	12513	57555	24/126
ME	8346	30864	126/126



University Results

The Management of Poornima Group of Institutions has always emphasized the important role to ensure Excellency in its academic programs. To recognize the meritorious students the management felicitates them on the annual prize distribution ceremony “KALANIDHI” every year on 2nd October. Students of PGI were awarded for their outstanding performance in academic as well as non-academic fronts.

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	122	63.93%	KAMAL ROUCHHIYA	84.10%
CSE	51	68.63%	NIRALI NAGAR	83.10%
ECE	105	68.52%	MEENAKSHI RANI	88.30%
ME	112	72.27%	BACHAN SINGH	84.50%
TOTAL	400	50.96%		

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	119	52.10	KAMAL ROUCHHIYA	84.1%
CSE	50	54.00	ADITYA GOUR	81.1%
ECE	103	59.22	MEENAKSHI RANI	86.4%
ME	117	70.94	BACHAN SINGH	84.8%
TOTAL	389	56.63%		

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	120	63.33%	SUBHAM BHAWSAR	84.60%
CSE	53	52.83%	ANJALI SUBEY	81.50%
ECE	123	53.65%	RANJEET KUMAR	79.70%
ME	121	65.28%	ANAND DADDICH	84.40%
TOTAL	417	58.77%		

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	121	59.50%	NITIN KUMAR BALOT	81.60%
CSE	53	71.70%	RITIKA SUNNY	79.40%
ECE	123	47.96%	KAUMUDI MISHRA	79.70%
ME	118	57.62%	ANAND DADDICH	81.40%
TOTAL	415	59.22%		

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	126	67.46%	BINIT GOPAL	84.40%
CSE	60	85.00%	SHAILY JAIN	58.10%
ECE	130	50.00%	GARIMA GUPTA	87.00%
ME	64	56.25%	RAMISH KUMAR	79.60%
TOTAL	380	64.68%		

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	121	75.20%	BINIT GOPAL	87.00%
CSE	59	89.83%	SHAILY JAIN	84.80%
ECE	125	66.40%	SHARMILI SANGHVI	84.00%
ME	61	60.66%	RAMESH KUMAR	72.90%
TOTAL	366	73.03%		

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

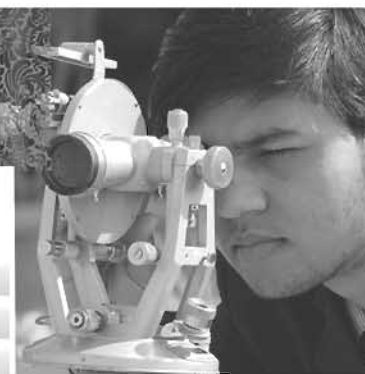
Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	72	70.83%	LALITA PANERU	83.20%
CSE	58	71.92%	RAKSHA NAWAL	81.00%
ECE	66	86.36%	DIVYA	83.70%
ME	60	45.00%	MAYANK BHARDWAJ	70.00%
TOTAL	256	68.53%		

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

Branch	Total Students	Result Pass %	Toppers	% of Marks
CIVIL	72	76.60%	ANUSUYA TIWARI	86.70%
CSE	58	75.00%	RAKSHA NAWAL	84.30%
ECE	66	85.71%	DIVYA	83.90%
ME	60	77.69%	MAYAK BHARDWAJ	84.60%
TOTAL	256	78.59%		

PGI THROUGH KALEIDOSCOPE

Infrastructure



• Year of Establishment	2009
• Approval	AICTE/RTU
• Students Strength	1509
• Faculties	82
• Land Area	20,235
• Institutional Built Up Area	96,876 sq.ft.
• Library	19510+books, DELNET, APSCON, CD Library 612+CDS
• Journals	123 National & Intentional Journals, 150 CDs of magazines & Journal
• Online Journals	From DELNET 1200+
• Computer Labs	07+1 Online Examination Lab
• Other Labs	(Engg. & Science labs) + Language Lab, Workshop & (R&D) Lab
• Transport	55 buses cover all areas of Jaipur
• Hostels	3 for Boys and 6 for Girls
• Internet Access	Wi-Fi Campus, BSNL, UClix, poornima.org (Gmail)
• LAN	18 MBPS
• Computer	300+

Management Team

NAME	DESIGNATION
Dr.S.M. Seth	Chairman
Mr. Shashi Kant Singhi	Director General
Mr. R.K. Agarwal	Advisor, PGC
Dr. Rakesh Duggal	Director Academics, PGC & Campus Director, PGI
Dr. Rekha Nair	Dean I Year, PGC
Mr. Pankaj Dhemla	Coordinator, Civil, PGC
Mr. Bhoopesh Kumawat	Coordinator, ECE, PGC
Mr. S.L. Jain	Coordinator, Physics, PGC
Dr. T.L. Rajawat	Coordinator, Chemistry, PGC
Mr. Ashwini Lata	Warden-in-Chief (PGC Hostels)
Ms. Sudha Jain	Chief Warden (Gayatri Girls Hostels)
Mr. Aditya Sharma	Proctor (Higher Classes)
Mr. Mukesh Taker	Chief Warden (Aravali Boys Hostels)
Mr. Vijay Sharma	Proctor, I Year

PGI : The Objective *Thrust Areas 2014-15*

A blue-print for the future (Breaking new grounds)

Right from its inception in 2009, PGI has taken care to impart quality education in various disciplines of engineering & technology to meet the global challenges of the fast growing market and business opportunities. The Management provides an ideal environment for advanced study in which the students and faculty work together to extend the frontiers of knowledge. The following are the main areas where special attention is given for achieving the best result:

STUDENTS

- Self Help Group
- P-Proskep Cell
- Online Eligibility Test
- Open Book Test
- Industrial visits & tours
- National & International Conference
- Seminars & Workshops
- Syllabus and non syllabus Projects
- Home Assignments
- Lab records & tutorials
- Use of Library
- Speaking and writing skills
- Events and activities
- Personal & Career Counseling
- Special Lectures
- Students - Faculty Exchange Programme
- Mentor System
- Value Addition
- Group Mail System

FACULTY

- Reporting Meeting
- Paper publication
- Higher studies
- International & National Conferences
- Workshop and seminars
- Training & Orientation Programme
- Library usage
- Effective teaching
- ISTE/ ISHRAE/ISLE membership
- Pre/Post lecture delievery preparatiom
- Centralised Academic Administration
- Self Assessment
- Special Lecture
- Result Analysis
- Incentive Programme
- Publication Incentives

INDUSTRY INTERFACE

- Industrial Visits
- PEEM
- P-PROSKEP
- Summer Internship
- Live Industry Interface
- Special Training
- Industrial tours and training
- NBA Accreditation
- Campus Recruitment Training
- Entrepreneur Development Cell
- Consistent Placements
- Centralized Campus

INFRASTRUCTURE

- Digital Language Lab
- Book Bank & Nucleus Library
- Organised Library and Display
- Best Practiced Lab
- Internet Labs with Wi-Fi
- Centralised Management
- Channelised information System
- Efficient Physical Facilities
- Best Transportation
- Adequate Hostels

Faculty Felicitations

TOP STAR PERFORMERS OF PGI FOR A PERIOD OF 2012-13

Felicitations of students is a tradition and requirement of 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 one of the most unique features of the group. 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 awards and certificates of appreciation. Below is a list of top 50 out of the total faculty performers who have been honoured by the management of Poornima since its inception.

Even Semester

Name of Faculty	Department
Dr. Kalpna Sharma	Mathematics
Dr. Susmita Sharma	Chemistry
Chandan Jadon	Computer
Rahul Sharma	Physics
Pankaj Pandit	Chemistry & Physics
Rampooran Bairwa	Chemistry
Vimal Jain	Electrical
Shree Bhagwan	Electrical
Pradeep Sharma	Electrical
A. K. Singh	Computer
Yatendra Saini	Computer
Santosh Kanwar	Computer
Vijay Jangid	Mechanical
Vikram Kr. Sharma	Civil
Bhanwarveer Singh	Elec. & Comm./ Computer
Mukesh Kumar Yadav	Computer
Harbeer Choudhary	Computer
Hitesh Singhal	Elec. & Comm.
Rakesh Kumar	Elec. & Comm.
Dharmender	Elec. & Comm.
Yadram Saini	Elec. & Comm.
Anirudh Purohit	Elec. & Comm.
Surendra Singh	Mechanical
Gyaneshwar Sharma	Mechanical
Chanchal Kr. Sharma	Civil
Bhupendra Vishnalia	Civil

Odd Semester

Name of Faculty	Department
Shreshtha Bohra	English
Deepa Punjabi	Physics
Deepika Sharma	Chemistry
Rajdeep Pandey	Electrical
Susmita Sharma	Chemistry
Vaibhav Sharma	Maths
Meena Tekriwal	Chemistry
Pooja Sharma	English
Dheeraj Singhal	Maths
S. L. Jain	Physics
Archana Singh	Chemistry
Konica Garg	Electrical
Deepak Patil	English
Anita Singh	Physics
Charan Singh Choudhary	Civil
Nipun Gupta	Civil
Vikram Kumar	Civil
Kamlesh Saini	Civil
Rama Singh	Civil
Tripti Mehta	Mathematics
Monika Ratnu	Elec. & Comm.
Preeti Khandelwal	Computer
Kalpana Sharma	Mathematics
Alok Bhargava	Mathematics
Kavita Bhatt	Computer
Ruchika Garg	Elec. & Comm.
Rahul Sharma	Mechanical
Naveen Kumar Saini	Mechanical
Sachin Kumar Mishra	Mechanical
Vaibhav Sharma	Mechanical
Hema Tekwani	Elec. & Comm.
Pawan Chauhan	Elec. & Comm.
Nidhi Godika	Elec. & Comm.
Vinita Singh	Mathematics
Chandan Kumar Dubey	Elec. & Comm.
Bhanwar Veer Singh	Elec. & Comm.
Punit Singhvi	Civil
Deepak Sharma	Civil
Sumit Mathur	Computer
A K Singh	Computer
Ajay Moriya	Computer
Venu Mishra	Computer
Priyanka Jain	Elec. & Comm.
Vijay Kumar Jangid	Mechanical
Naval Kishore Jain	Mechanical

Activity Profile - Campus Events & Happenings

A Welcome to Neophytes : The first step of a child, the first day at school and the first day of college are certain important things in life which leave a long



lasting impression. So, on 29 July 2013, the senior students of Poornima Group of Institutions, Jaipur came together to welcome the new entrants, fresh from

school. This marked the commencement of new semester for the new students. The freshers were warmly welcomed in the traditional way i.e. tilak Ceremony by our zealous and enthusiastic sophomores.

Enhancing Communication & relationship: Motivational Lecture : A motivational lecture was conducted on July 29, 2013 in Arbuda Convention Center on "Enhancing Communication & relationship" to enhance the communication skills of students. It was taken by Mr. AkashGautam. 10 students from both 4th year and 3rd year participated in this lecture. By attending this lecture students came to know about the importance of communication skills, techniques to improve them, things that we should keep in mind while communicating.

Orientation Program (Pehla Kadam) : On August 03, 2013 an Orientation Program, Pehla Kadam was organized at Arbuda convention centre for the first year PGI students. The program started at 8:15 a.m. and the students reached the venue along with their tutors and the appointed volunteers at 8:00 a.m. During the program, all the dignitaries of the college-



Dr.S.M.Seth, Chairman PGC, Mr. S. Singhi, Director General, PGC, Dr. Rakesh Duggal, Director Academics, PGC and Dr. K.K.S. Bhatia, Campus Director PGI, introduced the students about the Poornima philosophy and encouraged them to become good engineers and responsible citizens of our country. Also, the meritorious students of AIEEE and RPET were awarded during the event.

Commemoration of 66 Years of Independence (Independence Day): The celebration ceremony of

67th Independence Day of India took place on August 15, 2013 at Poornima

Group of Institutions, Jaipur. The flag was hoisted by Dr. S. M. Seth, Chairman, PGC in the presence of all the important dignitaries.



Then after, cultural program and Faculty Felicitation program was organized at Arbuda Convention Center.

Faculty Felicitation Program : Faculty members who brought laurels this year in academics and left no stone unturned were felicitated on the auspicious occasion of Independence Day at Faculty Felicitation Program, by the dignitaries at Arbuda Convention Center, PIET, Jaipur.

World Photography Day : World Photography Day is all about celebrating photography. Whether you see yourself as an Amateur, Hobbyist or Professional, August 19th is a day to embrace your love of photography. At PGI, 19 August 2013 was celebrated as World Photography Day for students of I Year Department. The event was coordinated by Mr. Vedanshu Vashistha, Assistant Professor, IYear. To show the stills of



outstanding photography and in order to motivate the students, video related to construction of Palm Island, Dubai and modeling of Air Bus E380 were shown to the students. The students enjoyed the event very well.

A Special Session on Career Objective : A special lecture on "CAREER OBJECTIVE" was given by Mr. Deepak Kumar, Associate Professor, ME, PGI on August 23, 2013 to final year students. The objective of the SPL was based on how to take a sound position in corporate world and work enthusiastically in team to achieve goal of the organization/MNC with devotion and hard work and commitment.

Industrial Tour : An Industrial Tour was organized for final year students from 28th Aug. to 31st Aug. 2013. They have visited eight Industries relevant to their branch at Udaipur. Overall 106 student and 6 faculties were involved in the tour.

S.No.	Name of Industry	Date
1.	Pyrotech Workspace Ltd.	29/08/13
2.	Friends Engineering Works	30/08/13
3.	Dainik Bhaskar	30/08/13
4.	Modern Insulators	31/08/13
5.	Kundan Switch Gear	29/08/13
6.	Reliance Chemo Tec	29/08/13
7.	Magic Wand	30/08/13

National Sports Day Celebration : National Sports day of India is celebrated on August 29 every year in the memory of Major Dhyan Chand. The main objective is that we need to build a sports culture in the country. So, raising this spirit high various sporting events such as Volleyball and Basketball tournaments were held at the PGI campus on 29 August 2013 for the first time as part of the National Sports Day celebration to commemorate the birth anniversary of Indian hockey legend Dhyan Chand. The event was coordinated by Mr. Lokesh Gupta, Assistant Professor, I Year, PGI and Mr. Vimal Chand Jain,



Technical Officer, I Year, PGI. A total number of 60 students participated in the event. Great zeal and effective sport spirit were being observed among the students throughout the sport activities.

Sadbhavana Diwas : The Birth Anniversary of late Prime Minister of India, Shri Rajiv Gandhi is observed as "Sadbhavana Diwas" on 20th August nation-wide every year. The theme of "Sadbhavana Diwas" is to promote National Integration and communal harmony among the people of all religions, languages. To promote this theme, "Sadbhavana Diwas" was celebrated in I Year Department of PGI under the coordination of Dr. Archana Singh, Assistant Professor, I year. There was a slogan writing competition on the occasion where students expressed their sense of communal harmony very well in the form of slogans.

Teachers' Day – Honouring Teachers : For students, Teachers' Day is an occasion to pay reverence and gratitude to teachers for their selfless effort in shaping their career and enriching the education system in the process. In the premises of Poornima Group of Institutions, Teachers Day was celebrated on 5th September under the coordination of all the tutors. On this occasion a quiz was conducted for the students in order to check their awareness related to Teachers' Day. The quiz included questions related to celebration of teachers day word wide and certain facts of Dr. S. Radhakrishnan. The students actively participated in the quiz and came up with palpable responses.



World Literacy Day Celebration : Adding a step to UNESCO's initiative, Poornima Group of Institutions, Jaipur, celebrated World Literacy Day on September 9 between 2.30 p.m. to 3.30 p.m. The activity was coordinated by the department of English I year.



Students were briefed about the objective behind the celebration of World Literacy Day. Also, they were made aware about the reasons behind illiteracy and its consequences. Students suggested some methods to solve this problem at individual levels. After it they were asked to prepare article on the same. Students came forward with various slogans, articles and sketches.

A Lecture on How to Increase Learning Skills : On September 13, 2013 a lecture on “Three Laws of Performance” was delivered by Dr. D. K. Jain, Director of GCT. Through this lecture students learnt about the techniques to improve their learning skills by implementing the three laws of Performance in their life explained by the speaker.

Hindi Diwas Celebration : Hindi Diwas is a day to pay tribute to our very own language, our Mother Tongue. To make this day memorable the college organized a Hindi Poetry writing and recitation competition on September 14, 2013 in seminar hall. The event was coordinated by Dr. Archana Singh, Asst. Professor, I year and Ms. Anushree Mukherjee, Asst. Professor, I year. Around thirty students came forward with their self written poem on varied themes. They not only presented their feelings and emotions but also shared social chaos and disorders. The activity was organized successfully and left its imprints like flowing water embarks its impression on a pebbled shore.



Special Training program for Poornima Gaan : An orientation and training Program for Poornima Gaan was organized by PGC at Arbuda Convention Centre to promote and carry forward the belief and philosophy of Poornima Organization. Students from every college participated in the activity and learnt the correct rhyme and rhythm of Poornima Gaan.

Workshop for Debaters : 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.

Engineer's Day Celebration : Engineers operate at the interface between science and society. To identify the great works done by our hard working engineers each year September 15, 2013 is celebrated as Engineers' Day marking the birth day of Sir Mokshagundam Visveshvarayya, recognizing his contributions in the



field of hydel energy in India. This year also Poornima Group of Institutions, Jaipur acknowledged the work of this great engineer by celebrating this day jubilantly on 14 September 13. The tutors of all the sections discussed the importance and works of the engineers in today's era with their respective classes.

Manthan : As per the tradition of PGC, an inter college debate competition MANTHAN is organized every year on the occasion of Engineer's day i.e. 15th September 2013. The event includes participation from PGC as well as from colleges of Jaipur and outside Jaipur. This year the debate was organized on the topic “India can become Global Leader by Year 2020”. The topic was directly related to development in technology and overall growth of country. The topic was selected as to know the view of Engineers that what they think,



whether the technologies are helpful in growth

Vishvakarma Jayanti : On 17th September College celebrated Vishvakarma Jayanti and organized a special 'Pooja' in the Production Lab. All the faculty members and students of Department of Mechanical Engineering involved in this event with a great enthusiasm.



Kalanidhi : Like every year this year also the Annual prize distribution celebration ceremony was conducted in Arbuda Convention Center. The students who score high and perform very well are felicitated on this day. 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 are awarded in the category of Best Student Award, Best Hostler award, Best attendance award, Best seminar award etc.



Hindi Vaad-Vivad Pratiyogita : Hindi Vad-Vivad Pratiyogita on the topic "Pashchatya Sanskriti Ka Anukaran Rastra Vikas Ke Liye Aavshayk hai" was organised on October 05, 2013 to make the students fluent in speaking their mother tongue. Two team were selected for the final debate competition which was held at PGC level on 12th October 12, 2013.

Eco Walk at Nahargarh : The extreme depletion of natural resources, the widespread destruction of environment globally and rapid growth in urbanization has placed immense strain on land and



other natural resources which is resulting in reduction of green spaces. So as an initiator, an eco-walk was organized by CE department at Nahargarh, Jaipur to spread a message of "Clean & Green Nahargarh", by Confederation of Indian Industry(CII) and Indian Green Business Council (IGBC), Jaipur Chapter.

Green Building Visit : On September 19, 2013 a visit to Mahindra World City was organized by Indian Green Building Council (IGBC) as Green week which was collaborated by Confederation of Indian Industry (CII). First trial run of Jaipur Metro was started on 18 September 2013 which was visited by the students of Civil Engineering Department. This trial run was from Mansarovar to Shyam Nagar, this will be starting a new era of transportation system of Jaipur.



Auto Expo Visit : More than 100 students of II year ME had visited AUTO EXPO 2013 held at Statue Circle on 27 & 28 Sept. 2013. Students showed a great enthusiasm towards this visit. They learnt about the recent trends and latest technologies in the field of Automobile. The companies which exhibited their vehicles were Mini, Yamaha Motors, Nissan, Maruti, Honda, Volkswagen, Chevrolet, Renault etc. The visit was very useful for the budding technocrats.

Aarohan (The annual Tech-Cult - Sports Fest) : Coming together is a beginning; keeping together is progress; working together is success. To celebrate feeling of togetherness Poomima Group of Colleges every year organizes Annual Tech-Cult-Sports Fest AAROHAN POORNIMA. It encompasses all fields of engineering and presents an opportunity for all to display their creativity and talent. This event provides a platform to young technocrats to battle and out shine their skills, also creates a recreational environment, for balanced growth of personality along with the busy and hectic academic activities and study schedules.



FINAL PRIZE LIST OF AAROHAN POORNIMA'13

S.NO.	STUDENT NAME	YEAR	BRANCH	EVENT NAME	PRIZE
1	ANURAG VARSHNEY	1	CIVIL	4*400 METER RELAY	WINNER
2	ARUN KUMAR SAIN	1	CIVIL	PHOTOGRAPHY CHALLENGE	WINNER
3	DINESH KUMAWAT	1	CIVIL	TABLE TENNIS	RUNNER UP
4	DIVYA MEENA	1	CIVIL	VOLLEYBALL	RUNNER UP
5	MONA SHARMA	1	CIVIL	GROUP DANCE(FOLK/CLASSICAL)	RUNNER UP
6	NISHA MEENA	1	CIVIL	GROUP DANCE(FOLK/CLASSICAL)	RUNNER UP
7	PADMA RAM	1	CIVIL	4*400 METER RELAY	WINNER
8	RENU MEENA	1	CIVIL	GROUP DANCE(FOLK/CLASSICAL)	RUNNER UP
9	RENU MEENA	1	CIVIL	VOLLEYBALL	RUNNER UP
10	SUMAN MEENA	1	CIVIL	VOLLEYBALL	RUNNER UP
11	SUMAN KR. MEENA	1	CIVIL	VOLLEYBALL	RUNNER UP
12	SUNITA CHOUDHARY	1	CIVIL	GROUP DANCE(FOLK/CLASSICAL)	RUNNER UP
13	SUNITA CHOUDHARY	1	CIVIL	VOLLEYBALL	RUNNER UP
14	TARUN PARIHAR	1	CIVIL	ROADIES	RUNNER UP
15	YAMINI DWIVEDI	1	CIVIL	VOLLEYBALL	RUNNER UP
16	ASHISH DHILLON	1	CS	4*400 METER RELAY	WINNER
17	MANISHA SAIN	1	ECE	VOLLEYBALL	RUNNER UP
18	NEHA DIXIT	1	ECE	VOLLEYBALL	RUNNER UP
19	PREKSHA CHAUHAN	1	ECE	VOLLEYBALL	RUNNER UP
20	VAISHALI MISHRA	1	ECE	VOLLEYBALL	RUNNER UP
21	ANSHU SUMAN	1	ME	4*400 METER RELAY	WINNER
22	SHRISTI	1	ME	ROADIES	WINNER
23	ABHISHEK KUMAR	3	CS	BROWSE THE NET	RUNNER UP
24	DEEPAK CHAUDHARI	3	CS	BROWSE THE NET	RUNNER UP
25	ANAND SINGH BISHT	4	CS	STAIRCASE CLIMBING ROBOT	RUNNER UP
26	ANKUR JANGID	4	CS	STAIRCASE CLIMBING ROBOT	RUNNER UP
27	HARDIK TIWARI	4	CS	STAIRCASE CLIMBING ROBOT	RUNNER UP
28	NIKHIL KUMAWAT	4	CS	STAIRCASE CLIMBING ROBOT	RUNNER UP
29	PAYAL JAIN	4	CS	T-SHIRT PAINTING	RUNNER UP
30	SHAILY JAIN	4	CS	T-SHIRT PAINTING	RUNNER UP
31	ABHIMANYU SINGH	3	ECE	VOLLEYBALL	RUNNER UP
32	AJAY SINGH	3	ECE	4*100 METER RELAY	WINNER
33	ANKIT SINGH	3	ECE	VOLLEYBALL	RUNNER UP
34	BHAWANI SHANKAR	3	ECE	VOLLEYBALL	RUNNER UP
35	BHAWANI SHARMA	3	ECE	4*100 METER RELAY	WINNER
36	DESHRAJ SAINI	3	ECE	4*100 METER RELAY	WINNER
37	HARGOVIND PRAJAPAT	3	ECE	4*100 METER RELAY	WINNER
38	HARGOVIND PRAJAPAT	3	ECE	VOLLEYBALL	RUNNER UP
39	NEERAJ	3	ECE	FACE PAINTING	RUNNER UP
40	PRANAY SATPUTE	3	ECE	VOLLEYBALL	RUNNER UP
41	PRESHAK DIWEDI	3	ECE	VOLLEYBALL	RUNNER UP
42	RAHUL JANGID	3	ECE	VOLLEYBALL	RUNNER UP

43	SAKSHI SHARMA	3	ECE	FACE PAINTING	RUNNER UP
44	SHRUTI BHARGAVA	3	ECE	SOLO CLASSICAL DANCE	WINNER
45	SIMRAN SONI	3	ECE	HEENA CREATION	RUNNER UP
46	VIJAY MEENA	3	ECE	VOLLEYBALL	RUNNER UP
47	AKHAND NATH DUBEY	4	ECE	FREE HAND SKETCHING	WINNER
48	AKHAND NATH DUBEY	4	ECE	RANGOLI	WINNER
49	ANUGYA	4	ECE	RANGOLI	WINNER
50	JALE SINGH	4	ECE	VOLLEYBALL	RUNNER UP
51	JUHI	4	ECE	RANGOLI	WINNER
52	KESHAV PARASHAR	4	ECE	GROUP DISCUSSION	RUNNER UP
53	LALIT KUMAR PANDEY	4	ECE	SOLVE THE MAZE	WINNER
54	LOKESH FOUZDAR	4	ECE	SOLVE THE MAZE	WINNER
55	MAHIMA	4	ECE	RANGOLI	WINNER
56	NAVEEN REGI VARGHESE	4	ECE	EXTEMPORE (ENGLISH)	RUNNER UP
57	PALLAV GUPTA	4	ECE	VOLLEYBALL	RUNNER UP
58	DIPALI BAMNAWAT	2	ME	GROUP DANCE(WESTERN)	RUNNER UP
59	PREETI SHARMA	2	ME	GROUP DANCE(WESTERN)	RUNNER UP
60	DEEPAK SHARMA	3	ME	GROUP DANCE(WESTERN)	RUNNER UP
61	GAURAV MISHRA	3	ME	GROUP DANCE(WESTERN)	RUNNER UP
62	MRIGANK SAXENA	3	ME	GROUP DANCE(WESTERN)	RUNNER UP

Prayogam: Prayogam is an annual Tech. Fest held at PGC level where the students get a chance to showcase their technical skills at PGC level. Under the guidance of the faculty members students create innovative projects, eventually taking a step towards upliftment of our society. This year also projects were displayed from PGI & appreciated at PGC level.



Republic Day Celebration : The Republic Day was celebrated at PGI Campus on January 26, 2014 with enthusiasm and zeal. The celebration was started with the flag hoisting by Dr. S.M.Seth followed by a cultural program including songs and dances filled with the spirit of patriotism. The cultural program was followed by the Faculty Felicitation Program at



Arbuda Convention Centre to honour the star faculty members for their extraordinary academic performance reflected in the results of the university examinations.

Basant Panchami Celebration: Goddess Saraswati is the consort of Lord Brahma (Lord of Creation) and she is the Goddess of Wisdom and Learning. Saraswati is the one who gives the essence (sara) of our own self (swa). She is considered as the personification of all knowledge – arts, science, crafts and other skills. So Goddess Saraswati is worshipped in every educational institute on the occasion of Basant Panchami. On February 04, 2014, PGI celebrated this festival and chanted the mantras invoking the blessings of the Goddess of knowledge and wisdom. The faculty members and students of the Institute gathered at the temple of Maa Saraswati located in PGI campus for worship. After the Pooja, prasaad was distributed among all who were present.



Blood Donation Camp

: A Blood Donation Camp was organized at PGI jointly by Rotary Club (Mid Town), Jaipur on February 24, 2014. Students as well as faculty members



actively participated in the camp. The program started at 9 a.m. continued up to 2.30 p.m. In order to motivate the students the college walls and various notice boards were well decorated with 100 posters, giving clear message of importance of being a donor. A slide show about the importance of Blood Donation was displayed near the venue. Announcements were also made after very short intervals to create awareness. The Proctor of Higher Classes (PGI), Mr. Aditya Sharma and Mr. Prakash Modi (Rotary Club) were the Chief coordinators of the event. 148 units (each unit comprising of 200 ml) of blood were collected in the camp. Refreshments were provided to all the donors. As a token of gratitude a certificate and a pen set were given to all the donors.

International Woman's Day Celebration:

International Women's Day was celebrated zealously on 8th March, 2014 in Poornima Group of Institutions, under the coordination of Swapnil Rani Assistant Professor (Department of physics, 1st year) and Ms. Jayanti Khatri Assistant Professor (Department of Computer, 1st year). On that day Debate competition on the topic- "Is Women Empowerment still an illusion" was conducted. Our Director Academics and Campus Director Dr. Rakesh Duggal shared some inspirational thoughts with the students on this occasion. The purpose of the Debate competition was to make the students demonstrate their knowledge and express their views on the topic. The students inscribed their thoughts in the form of speech during the audition very well. Thus, the celebration was marked with fruitful knowledge enhancement as well as expression of thoughts in the form of Debate.

Aadhar : In order to showcase glorious aspects of Engineering projects prepared and designed by B. Tech. I Year students, PGC decided to organize a one day Project competition cum Exhibition – AADHAR 2014 for the session 2013-14 on March 29, 2014 from 9:00AM onwards in Poornima Group of Institutions.

The exhibition showcased projects from all streams of engineering at PGC and selected students of PGC Institutions witnessed the extraordinary talent and understood the importance of engineering solutions to various problems. In order to ensure proper execution of the event, various committees along with their roles and heads had been finalized. The committee heads

were responsible for overall designing, planning as well as execution of the responsibilities falling under their working area.

In addition to exhibition in Aadhar 2014, a panel discussion on "Making of well equipped and skilled professional" was organized in seminar hall of PGI campus from 10:30 A.

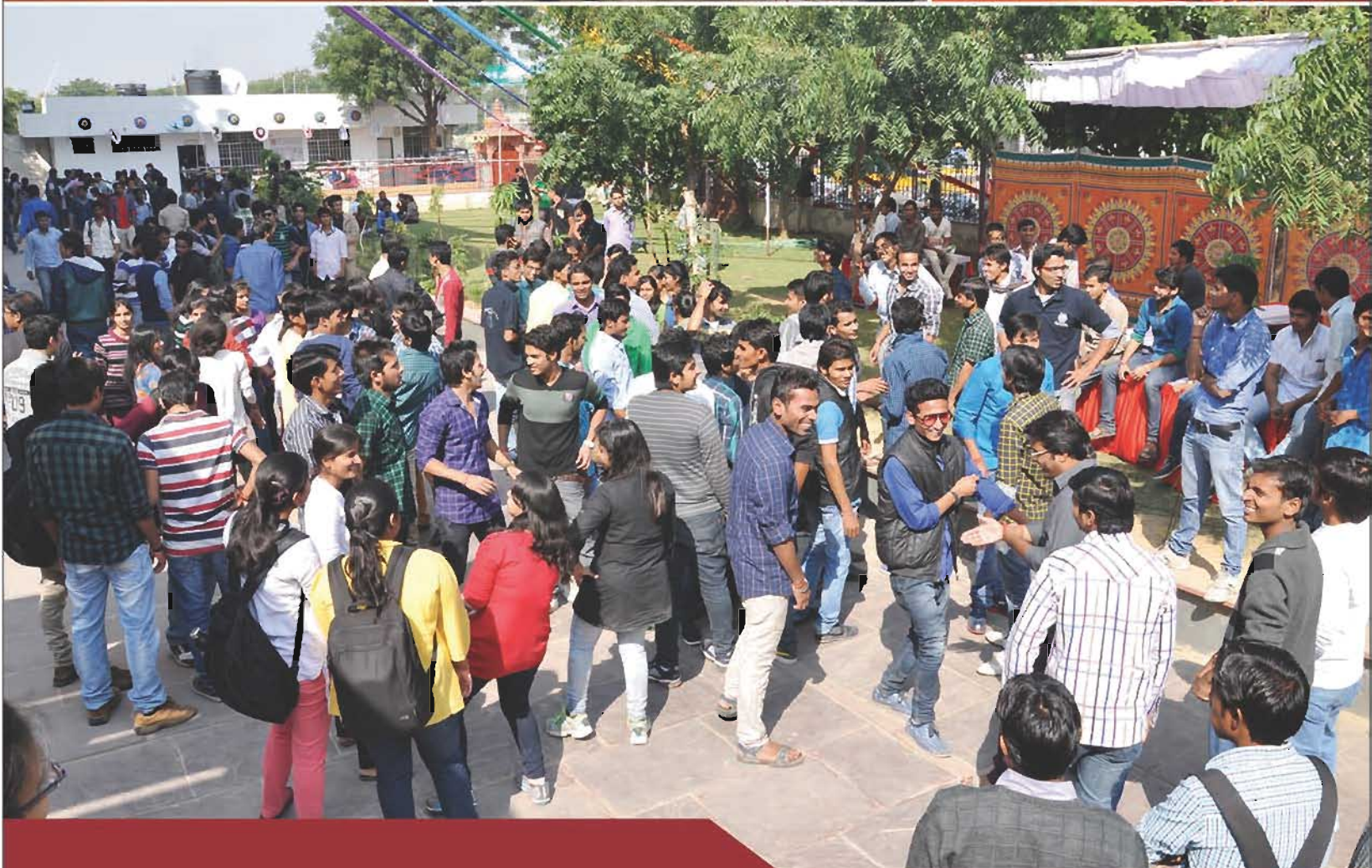


M. to 1:00 P. M. The panelists included educationists, industrialists, Alumni, Parents, Government officials and engineers. Students of I year of Poornima Group of Colleges participated in this event and 120 projects were displayed by them. These projects were divided into four category static, Electronics, Mechanics and Robotics. PGI students stood 2nd in static and mechanics category. "Restoration on Energy" by Lalit pal, Rajesh Kumar Purohit, Dinesh Kumar Swami, Madan Mohan Secured 2nd position in Static model and "TCP" by Irfan Nirban, Jitendra Singh, Hitesh Sharma, Gadhwal Ajay Kumar secured 2nd position in Mechanics Category.

Pilot Training : A TOT and Faculty Training program was organized in PGI as a pilot project for improving Communication Skills. The training was given by P PROSKEP department, PGC. As a policy HODs/Dy. HODs became sub trainers after Training of trainers was over and assisted P PROSKEP faculty members in polishing communication skills of selected faculty members. The program consisted of two phases.

- [A] Phase I for HODs/Dy. HODs to train them as sub trainers and had 02 sessions on April 19 and April 24, 2014 [From 2:30 to 3:30 PM].
- [B] Phase II meant for selected faculty members of PGI and had 11 sessions from April 26 to May 31, 2014 [Only on Thursday and Saturday from 2:30 to 3:30 PM].

PGI : Pixipedia



PGI : Pixipedia



Aarohan Poornima 2013



PRAYOGAM - 2013



Glittering Stars



ANUSUYA TIWARI
CE, 86.7%



RAKSHA NAWAL
81%, CSE

VIII SEM

VII SEM

VI SEM

V SEM

IV SEM

III SEM

II SEM

I SEM



RAKSHA NAWAL
84.3%, CSE



DIVYAGOYAL
83.9%, ECE



MAYANK BHARDWAJ
84.6%, ME



MAYANK BHARDWAJ
77%, ME



DIVYA GOYAL
83.7%, ECE



LALITA PANERU
83.20%, CIVIL



BINIT GOPAL
87%, CE



GARIMA GUPTA
87%, ECE



BINIT GOPAL
84.40%, CE



RAMESH KUMAR
79.6%, ME



SHAILY JAIN
56.10% CSE



ANAND DADDICH
81.40%, ME



SHARMILI SANGHVI
84%, ECE



SHAILY JAIN
84.80%, CSE



RAMESH KUMAR
72.90%, ME



NITIN KU. BALOT
81.60%, CE



KAUMUDI MISHRA
79.70%, ECE



RITIKA SUNNY
79.40% CSE



SUBHAM BHAWSAR
84.6%, CE



ADITYA GOUR
81.10%, CSE



KAMAL ROUCHHIYA
84%, CE



MEENAKSHI RANI
86.40% ECE



BACHAN SINGH
84.80% ME



KAMAL ROUCHHIYA
84% CE



ANJALI DUBEY
81.50%, CSE



RANJEET KUMAR
79.70%, ECE



ANAND DADDICH
84.40% ME



NIRALI NAGAR
83.10%, CSE



BACHAN SINGH
84.80%, ME



MEENAKSHI RANI
86.40%, ECE

[illegible]

PGI: THE HIGH FLIER & CRUX OF POORNIMA GROUP

All-Terrain Vehicle: HULK , that does not need any introduction

An All-Terrain Vehicle (ATV) as the name implies is designed to handle wider variety of terrain than most of the other vehicles. It is basically an off-road vehicle, widely used for exploration purposes.

- Team Name: The Trailblazers
- Team Leader: Nishant Bhatnagar
- Team Members: Akshay Chaturvedi , Ajay Jangid, Akash Sharma, Ashish Rawat
- Branch: Mechanical (IV year)
- Guided by: Mr. Naval Kishor Jain (HOD, ME Dept.), Mr. Sachin Kumar Mishra (Project Guide)
- Estimated Cost: Fifty Thousand Rupees



Nishant Bhatnagar



Akshay Chaturvedi



Ajay Jangid



Akash Sharma



Ashish Rawat

Journey of Hulk

TV, newspapers, praises, appreciations, attentions etc riding high on our success.

It was just like an ordinary college day, we all were sitting and talking about our final year project and suddenly one of us just casually said “this time do something big and different”. We all took it lightly but he asked for a day and the next day he came up with an idea of a “HULK”. Actually it was not a hulk then. He proposed the idea of an ATV that made us shocked but it took us sometime to realize that it is not impossible still very difficult. But the bottom line is we had to do it and we all took it as a challenge and started our mission. Just five of us, we were probably the only five who have faith for success. We started and it was a slow start really.....but we really picked up the pace after the exam.

The frame construction, the assembling of the parts.....ohh!!!!it was a hectic process. We all are living in Jaipur for years now but our project took us to those places of our city which were unknown to us, we met different people some were good and honestly some were not so good. Difficulties came but one thing was always there 'our faith on each other and our faith on almighty'. We thought that it will require few hours a day but our work took approx 12 hours a day, day in and day out.

We were assembling at the workshop in the morning and going back to home late night, Sometimes we thought that we have done nothing substantial today. We regretted, we shouted at each other even.

At some points we thought of giving up but we didn't. We could not complain because we were doing it our self. There is no space of showing the weakness, the technical work is now visible to everyone but no one could see our sweat, our emotions, our blood and our invisible tears which are thoroughly attached with our ATV “HULK” and now when we see back we find that we did nothing special but when we see in eyes of our parents, our teachers we found that it was definitely not “Ordinary work but extra ordinary work that took only extra”.

“.....in our journey we lived, we loved, we fought, we trusted, we hurt, we have made mistakes but above all we learned and we succeed”...

• Technical specifications:

- ~ Engine: Single cylinder (395cc, 8HP) Diesel Engine
- ~ Weight: 380 kg
- ~ Top Speed: 60km/hr
- ~ Mileage: 25km/pl
- ~ Ground Clearance:
- ~ Clutch: Wet, Multidisc type
- ~ Brakes: All four are disc brakes
- ~ Suspension: Macpherson Strut Suspension

• Advantages:

- ~ Healthy Mileage
- ~ Space for Navigator
- ~ Comfortable Rugged Stable: can run comfortably on rough tracks
- ~ Cost Efficient

• Applications:

- ~ Military operations
- ~ Adventure Sports
- ~ Agricultural Applications

The project got a high level of appreciation and admiration. It is not only limited to Poornima Group but brought laurels to the college through its wings, it has spread. The national channels were regularly showing the world how the budding engineers of PGI have proved their caliber. The news channels, media and the news papers were very eager to have a first interview of this mammoth. The India T.V. cored all the footage and shown the world the glimpse. ETV Rajasthan also gave a huge telecast on the work of the technocrats of PGI. Our students proved that no work is there that cannot be done.

Light Weight Performance Car

Team members: Manu Sharma, Himanshu Pandey, Aditya Kankani, Kuldeep Sharma, Kuldeep Meena, Amit Kr Agrawal, Prashant Agrawal

Abstract: It is an exo-skeletal 2-seater light weight vehicle inspired by “Ariel Atom” a high performance sport car, built to perform on race track as well as normal roads. The cockpit, engine block and aluminum crash box for safety are integrated into single frame welded together to form the chassis.

LWPC is having fully independent double wishbone suspension with pushrod mechanism along with anti-roll bars. MS Hollow pipe delivers strength to safety cage ensuring protection of driver and co-driver. This car have a lesser aerodynamic body than a normal car but its light weight helps to achieve higher acceleration rate.

Dimensions:

Ground Clearance :	9"
Wheel Base :	1750mm
Total Weight :	200Kg

Configuration:

Skeleton :	MS Rectangular section (35x35) and MS Circular pipes (2" dia.)
Suspension :	Independent Double Wishbone with Pushrod mechanism
Breaks :	4 x Single Calliper 65 mm disk break
Tyres :	Rear 145/80/R12; Front 145/70/R12
Fuel :	Gasoline/Petrol
Engine :	F8B Suzuki 796cc Engine; 47bhp; 57nm torque @4500rpm, 16 kmpl.



Some More Achievements :

BEST PROJECTS

GSM Controlled Robot

Team Members : Aakash Goyal, Varun Kumar, Khushboo Saluja

Abstract: In the project the robot is controlled by a mobile phone that makes a call to the mobile phone attached to the robot. During the call, if any button is pressed, a tone corresponding to the button pressed is heard at the other end called 'Dual Tone Multiple frequency' (DTMF) tone. The robot receives these tones with the help of phone stacked in the robot. The received tone is processed by the microcontroller with the help of DTMF decoder IC CM8870. This IC sends a signal to the motor driver IC L293D which drives the motor forward, reverse etc. Project is built using AVR microcontroller the ATmega16. In the project we are thinking to add on the camera which would help us to add up the feature of Video surveillance. This GSM controlled robot has a great future scope and will enhance the security level. The drawback of the other available project is that they have finite working range, but we have used GSM technology in our project to widen its working range.

File Tracking System

Team Members : Mahan Chaturvedi, Pulkit Rohtagi, Shantul Rastogi

Abstract: In this project we have shown how to track a file online this is helpful in Government organization where many files are missed. By the help of this project we will help people to check the status of their files means at which department their files were present. This project is developed in Visual Basic and Java, the application is developed in Visual Basic and the user page is developed in Java and the database is designed in MS Access. In the application part the employee enters the details of the file of the user and on the web page the user gets the whole information of their file.

Small Working Model of lathe Machine

Team members : Abhishek Sharma, Ashish Garg ME, II Year.

Overall Expenses: - 19185/-

Abstract: The basic design of this lathe machine is first made on Auto cad. Various designs are being prepared but the most suitable one was chosen. We had made this lathe machine by using scrap. We had used minimum new parts to build this machine to reduce the cost of machine. It is smaller than actual lathe machine. It can be used to train the students which are unknown to lathe machine. Most of the basic operations can be performed like Facing, Turning, chamfering, knurling, drilling, boring etc.



Parth-2

Team members: Jayesh Jhavar, Aditya Gupta, Himanshu Garg, Himanshu Vaishnav (II Year, ECE)

Abstract: We have designed an innovative project. It's basically a drone tank that has ability of firing mortar without causing any air pollution. It has an excellent firing capability and fire in any direction. This tank has a unique ability of converting itself into an artillery gun. This project is also useful for DRDO and other Research Institutions. This project can change the face of any war as from this a new era of tanks has begun and it will not harm the nature as the tanks of present time is doing so. We have presented it during the fest "PRAYOGAM-2013" and got appreciated by visitors and Judges.



Electronic Wisdom City

Team members: Dushyant Singh, Gaurav Raj, Devendra Singh & Aviral Vijay III Year, ECE

Abstract: Electronic wisdom city is a prototype of a city in which the various applications of electronics is represented. In this city, we demonstrated the working of different electronic circuits in the form of modules. By the combination of these modules we made the prototype of the whole city. This project aims to uplift the living standard of the middle class so that they also take the advantage of luxurious and comfort at a relative low cost. it also show that how electronics play a very important role in our daily life. We assembled individual modules i.e. Electricity Locker, Voice Battery Charger, Water Level Indicator, Fire Alarm, Smoke Alarm, Led decoration at minimum voltage(3v), Electronic Gatekeeper with the help of IR Sensor and Remote Controlled Home Appliances. The future implementation of this project is to make a little more research on these modules so that its durability & efficiency can be increased and make them in the reach of the common man.



Faculty Achievements: Research Contribution & Publication

- **Dr. T. L. Rajawat**, presented a paper on “Analysis of Portable Water Quality of Jaipur and its Impact on Human Health” in a National Conference on “Current Research in Engineering Science and Technology” held from 5-7 April 2013 at Alwar Institute of Engineering and Technology and SRU, Alwar.
- **Mr. Vikram Khandelwal**, Attended ILLUMINATE, a series of Pre Eureka Workshops organized by E-Cell, IIT, Bombay and Nuture Talent jointly, held in PCE.
- **Mr. P.N. Dadhich**, Published a paper on “Integration of Remote Sensing and GIS for Land use and presented in International Conference held at New Delhi.
Published paper on “Spatial Investigation of the Temporal Urban Form to Assess Impact on Transit Services and Public Transportation Access” Geo-spatial Information Science, Volume 15, Issue 3.
Published paper on “Advantages and Cost difference of AAC Block over Traditional Brick” IJCEA, Vol. 3 (5), 45-48 and presented in International Conference held at New Delhi.
- **Ms. Suchi Sharma**, Published paper on “Advantages and Cost difference of AAC Block over Traditional Brick” at IJCEA, Vol. 3 (5), 45-48 and presented in International Conference held at New Delhi.
- **Ms. Tiyasha**, Published paper on “Phyto - Filtration : A New Approach of Waste Water Treatment” at IJEIT with Impact factor- 1.895
Published paper on “Biogas production potential of Poultry waste and Jatropha de-oiled cake” at IJEIT with Impact factor-1.895
- **Ms. Shaktibala**, Published paper on “Phyto- Filtration: A New Approach of Waste Water Treatment” at IJEIT with Impact factor-1.895
- **Mr. Deepak Kumar**, Published a paper on “Enhancement of Micro-hardness in EDM using Powder Mixed Dielectric Medium” in International Journal of Material & Product Technology, (www.inderscience.com) with submission code: IJMPT-51022
Published a paper on “Statistical Process Control” in International Journal of Research in Engineering & Technology (IJRET)
Published a paper on “Reducing Shrinkage in Plastic Injection Moulding using Taguchi Method in Tata Magic Head Light” in International Journal of Science and Research (IJSR), India.
- **Mr. Sachin K Mishra**, Presented a paper on "Controlling temperature with positive design in composite climate conditions: A representation of data and suggestions for Jaipur" at National conference on "Future directions in thermal engineering" organized at SKIT, Jagatpura, Jaipur
Presented a paper on "Use of Nano-Fluids for improving efficiency in cooling systems" at National conference on "Future directions in thermal engineering" organized at SKIT, Jagatpura, Jaipur.
- **Mrs. Ankita Gupta**, Presented a paper in International conference on “Designing of two channel linear phase quadrature mirror filter bank using poly phase and power optimization method” and published in IEEE.
Paper presented in National Conference on “Designing of two channel QMF using power optimization method”
- **Mr. Krishan Kumar Garg**, Paper published in

National Conference on “Spectrum sensing in wireless lens or network utilizing cognitive radio”.

- **Mr. Arshad Nadeem**, Paper presented on “Vehicle Security System Design using GPS & GSM” in “International SET Conference-2012”
- **Mr. Vikas Kumar Verma**, Paper published in SARC International Conference on “International Electronics and Computer Science (SARC-ICIECS-2013)”, New Delhi.
- **Mrs. Namrata Saxena Yadav**, Published a paper on “Modification in MOSFET Structure to serve as a Biosensor” in the International Conference organized by IETE.
Published a paper on “Mask Designing and Process Definition of Backside Contacted ISFET” in International Conference organized by IEEE.
Published a paper on “Design Methodology of Backside Contacted ISFETs using Deep Diffusion” in National Conference, organized by ISTE New Delhi.
Published a paper on “Advancement in ISFET Technology by Backside Electrical Contacts using Deep Diffusion” in the Conference, organized by IEEE MTTS.

ACHIEVEMENTS

- **Mr. Bhanwar Veer Singh** : Under the back ground of entrepreneurship, scored 470 marks and rewarded with a cash prize of Rs.5000/- by Raj. Govt. Scheme ‘RYUPY-2013’ for his concept “Motorcycle with Canopy and a Hi-tech. Helmet: Design for the future.
- **Ms. Monika Ratnu**, One project selected in DST under guidance.

PUBLICATION

- **Dr. T. L. Rajawat, Professor**, I year PGI and Coordinator, Chemistry, PGC,
Authored a book of Engineering Chemistry for B. Tech students.
Authored a book “Chemistry and Environmental Engineering” for B. Tech students.
- **Miss Tiyaasha Das**, Authored a book title as “Rural water supply and sanitation” (Priyatech Publications).

Famous Quotes

- All human actions have one or more of these seven causes: chance, nature, compulsion, habit, reason, passion, and desire.
Aristotle
- Conversation should be pleasant without scurrility, witty without affectation, free without indecency, learned without conceitedness, novel without falsehood.
William Shakespeare
- Education: that which reveals to the wise, and conceals from the stupid, the vast limits of their knowledge.
Mark Twain

- Always aim at complete harmony of thought and word and deed. Always aim at purifying your thoughts and everything will be well.
Mahatma Gandhi
- The moral virtues, then, are produced in us neither by nature nor against nature. Nature, indeed, prepares in us the ground for their reception, but their complete formation is the product of habit.
Aristotle
- A little sincerity is a dangerous thing, and a great deal of it is absolutely fatal.
Oscar Wilde

Workshops

Aero-Modeling Workshop : A workshop on Aero-Modeling was conducted in Poornima College of Engineering, Jaipur and organized by BITS-Pilani from September 7 and 8, 2013. Around twenty students from I Year, PGI, Jaipur actively participated in this workshop. These students were shortlisted on the basis of a quiz conducted on the same subject. During the workshop students learnt the designing of airplanes. A demonstration of the same was given and students also made certain models of airplanes which were successfully run.

Instill Design Workshop-MNIT Jaipur : A National Workshop for students on Instill Design of Foundation level was organized by Usability Matters Organization and IIT Hyderabad. Event was hosted by MNIT Jaipur from 20th to 21st September 2013 at seminar hall, MNIT Jaipur. The motive of the workshop was to design education for a social change. Workshop was conducted by highly qualified and skilled professionals from IDC, IIT Bombay. Workshop lasted for 16 hours of two sessions consisting of basic designing and Prototyping along with additional presentation on web designing. Session on Basic designing was conducted on 20th Sept. Consisting of Brain storming, Mapping, Observation, analysis, Ideation, Mocking followed by group activity on Basic designing. Second session on prototyping was conducted on 21st September along with special presentation on web designing. Prototyping session included ideation, evaluation, mocking and prototyping along with the group presentation on product designing. A number of students from 1st Year PGI attended the workshop and were benefitted.

Workshop - Linux Operating System: As we all know that Linux is an operating system, but only few have laid their hands on the open source ruler. To make the students aware of the environment of Linux a workshop was conducted at the college campus. The whole workshop was presented by Mr. VimalDaga from Linux World Informatics Pvt. Ltd. A total of 101 students attended the workshop. It gave the students an idea from the basic commands to few complex tricks of Linux. The whole program was coordinated by Mr. SumitMathur, Asst. professor.



Workshop-Android: Android has emerged out to be one of the best mobile operating systems available in the market. It's open-source and has a lot of scope for further customization. So in order to make the students aware about the open and amusing world of android, a workshop on android app development was conducted at the PGI campus by CSE Department. The whole workshop was presented by Mr. Kuldeep Sharma from M.G. Techno savvy Pvt. Ltd. and coordinated by Mr. Ajay Maurya (PGI). It helped the students to know about how an android system works and what the basic needs are to create an application. The future scope of Android is quite promising as it deals with user friendliness and the ability to customize the user experience.

Workshop - Entrepreneurship : There would be some people who would agree with the fact of not working under other individual's ownership. Few of them just hold the passion of being an entrepreneur and others have the edge of their own ideas. To make students aware of the need of entrepreneurship and to give the platform to the ideas projected by others, a workshop was conducted by the people from IIT Mumbai in collaboration with Nurture Talent Academy. The workshop gave versatile ideas in student's minds on how to get into business arena. The workshop was addressed by Amit Grover, Director Nurture Talent Academy on 11th September at Arbuda Convention Centre.

Workshop for ECE students: Vision World Tech Pvt. Ltd. organized a one day workshop on 14th September in PGI Campus based on PLC/SCADA training. Through the workshop students got the basic idea of automation. Practical test was also organized in which winners got recognition.

National Conference on Hydrology with Special Emphasis on Rain Water Harvesting (NCHRWH-2013)

Nov. 15-16, 2013

Water Cycle Is The Life Cycle

The new era is about “water”, so we need to think about saving our water resources. Thus for better awareness of the topic a conference was organized by PGI as NCHRWH which held on 15th and 16th Nov. 2013 at Jaipur. The conference was collaborated with National Institute of Hydrology, Roorkee as well as sponsored by Indian Council of Agricultural Research (ICAR), New Delhi. The Chief Guest of the inaugural function and guest of honour were JAL PURUSH “Mr. Rajendra Singh” and Dr. Alok. K. Sikka, DDG, ICAR. Dr. S.M. Seth, Chairman, Poornima Group of colleges, Chairperson, Poornima University and former Director, NIH Roorkee was the president of the function. Dr. M.S. Rathore, CEDS, Jaipur was the keynote speaker. Over 130 delegates attended and participated in the two day Conference, which brought together hydrologists, geologists, environmentalist, engineers, research scholars, PhD scholars, Senior faculty members and consultants from around the India involved in all aspects of Hydrology and Rain Water Harvesting. The theme of this Conference was “Hydrology with special emphasis on rain water harvesting,” which allowed presenters to explore best-practical aspects of water quality, water shed management, Rainwater harvesting. Total 132 numbers of papers were received, out of them 72 papers were published in the proceeding and 64 papers were presented. The conference was divided in to 12 sessions based on different themes, namely Rain Water Harvesting, Water Quality and Watershed Management.

It was great to see so many professionals from different disciplines together in one place. The Conference Proceedings, comprising 132



papers were published in the form of book and CD ROM formats and these were distributed to participants. The conference ended with a valedictory function on Saturday, November 16, 2013 at “SIROHI HALL”, with notable dignitaries being Er. R. D Singh, Director, N.I.H Roorkee as chief guest Dr. R.P Kashyap, former Professor, M.N.I.T, Jaipur and Dr. N.K. Goel, Dr. Bharat Singh chair professor IIT, Roorkee. Dr. K.K.S Bhatia, President, Poornima University presided over the function. The success of conference was only possible with the support of Civil Engineering department, PGI and entire P.G.C team.



PGI: The EEE

Energizing Engineering students for Employment

In today's competitive world where grabbing a good job is truly difficult, Poornima Group of Institutions has been proved successful in providing better opportunities to its students in different companies which are of good reputation in corporate. PGI encourages students to start thinking about their options early and runs many early bird programs to help first and second year students to find vacation work within the campus. Following programs will make you understand about the early bird programs.

PEEM: Poornima Employability Enhancement Program

PEEM is a concept and vision of the prestige member of our think tank Dr. S.M.Seth, Chairperson PGC who designed the notion to increase the number of placements and to minimize the gap among students and industries. It works for the students of third and fourth year who need special trainings and guidance for placements. The activity is really effective as it works on specially designed concepts. It has four focused areas that include election strategy in A&B category industries, Industrial training capsule courses, In House Aptitude Classes and Placement/ Internship in local industries of Jaipur.

To make the classes truly beneficial the college has called **The Placentors**, an organization that works for placements of students. These people give weekly four hours training session to 3rd and 4th year students. The training covers the Aptitude that includes quantitative, logical reasoning and English. G.D. is conducted fortnightly in a size of 15 students per batch and P.I. sessions are also conducted for the students weekly and the size of batch is not more than 8 members. College has designed the special branch wise syllabus for the technical training of the students. The Expert members of PGC have given their contribution to frame the syllabus exactly the one which is required to compete in today's scenario. Weekly sessions are conducted by topic experts to meet the goal. PEEM is a step toward placement and the results of this year placements have proved that we have truly chosen a right step at right time.

P-PROSKEP

The acronym P-PROSKEP stands for Poornima Professional Skills and Knowledge Enhancement Program. 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 bring about attitudinal 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. It aims at exposing the students to a variety of self instructional, learner-friendly modes of language learning and To train them to use language effectively to face interviews, GDs and public speaking so as to increase the chances of placements.

Online Exam Lab

Online exam lab is an initiative to provide student a leveled ground to prepare for future competitions. It also helps to regularly evaluate and update learning on day-to-day basis. Every student is required to attend at least one session of OEL in a week and the outcome of the exam is used for remedial exercises. The Placement oriented learning have properly been designed multiple-choice questions, which are developed by, subject experts and faculty members based upon its importance for students overall performance.

Students Views about the initiatives taken for Placement

1. It was a matter of real elation for me to have been recruited in L&T InfoTech. Besides being a top most IT company it also offers good career opportunities to fresher. A lion's share for my success goes to the PEEM and P-PROSKEP classes organized by the college. These classes helped us nurture various skills needed to shine apart. *Ashwini Mathur, CS*
2. After getting placed in Infosys my happiness knew no bounds. I owe it all to my college for not only providing me new realms of learning but also provided regular PEEM Classes encompassing aptitude and communication improvement tutorials which helped me gain a better edge over others. *Kumud Sharma, ECE*
3. A huge token of gratitude towards all the faculties and college management without whose support my selection in Tech Mahindra would have been a distant illusion. But all this became possible with the consistent drilling of my personality in PEEM classes. *Anurag Kapoor, ME*
4. My selection in L&T InfoTech came as a turning point in my life as it not only marked the initiation of my professional life but also acted as a catalyst in boosting my self confidence and morale. Classes helped me a lot to sail through this journey. These classes helped me work upon my aptitude also enhanced my communication skills through regular sessions of mock group discussions and personal interviews.
Mahak Baijiwala, CSE
5. Aptitude tests had always been a hindrance to me but thanks to these PEEM classes which laid emphasis upon logical reasoning and quantitative analysis i was able to crack the aptitude test of L&T InfoTech in the snap of a finger and stand placed in it. *Shivani Goswami, CSE*
6. PEEM-A Boon for Poornimites 'The fate of an empire depends upon the education and talent of the youth' With this thought the Poornima administration gave us a special program 'PEEM' thinking that for learning sky is the limit. This program has proved and is proving to be the best in imparting the attitude to reach the altitude for students. The program is giving a vision of the changing requirement of the present era. The different types of classes arranged gave us a benefit to cover all the aspects of an intelligent engineer inculcating the technical, aptitude, and attitude. I thank the Poornima academic administration for giving us this program. *Ayush Pareek, III Year, ECE*
7. Poornima employment enhancement mission is a special program started by Poornima group of colleges to train their students to increase their abilities and get placed in a suitable company. The classes are held regularly in respective campuses with an online test to invigilate the students. The teachers are called from respectful institutions which specialize in training students in quantitative aptitude and logical reasoning. The college authorities have provided the facilities of these classes at our door steps at minimal fees which are available outside at a handsome fee making it difficult for many students to attend. Students are attending these classes in large numbers and making best out of them and this can be seen by the increment in the placements which will keep on increasing. In these classes we are taught the short tricks to solve questions of aptitude which are important for clearing the initial tests for placement. We are sure that we will be the one to get benefit from these classes. *Prachi Kedia, III Year, ECE*
8. PEEM is a program organized by the placement committee of the college administration in which placement regarding activities like aptitude practice including Quant, Reasoning and personal development including Group discussion and Personal interviews are held on regular basis for overall development of the students. In this program, the classes are taken by the faculties of Career launcher institute. Through this program students are getting the complete knowledge of what is the prerequisite of the companies and other competitive exams.
Kaumudi Mishra, III Year, ECE

Placements : Scaling New Heights

Poornima Group of Institutions is consciously working towards a regime wherein industry aspirations for recruiting plug and play kind of employees are met by imparting employability skills to the students. The education system is highly innovative and has incorporated the best practices followed in Professional & Technical Education. The placement cell provides the good job profiles and grooms the students in such a manner that makes them ready to face the challenges ahead, when they step out of the campus. The complete concept working environment has become now students' habit that made the placements possible.

The Placement details of Batch 2014 (till April 04, 2014) :

Companies Visited - 2014 Batch

S.No.	Name of Company	Date of Drive	Selection Package
1.	INDIAN NAVY	02nd to 04th Sep., 2013	7.92 Lac/Annum
2.	INFOSYS Technologies	17th to 18th Nov., 2013	3.25 Lac/Annum
3.	NAGARRO Software Ltd.	03rd Dec., 2013	3.00 Lac/Annum
4.	L&T Infotech	05th to, 08th Dec., 2013	3.00 Lac/Annum
5.	MEDITAB Software INC	25th Dec., 2013	3.60 Lac/Annum
6.	IBM India Ltd.	10th January, 2014	3.75 Lac/Annum
7.	Wipro BPO	24th to 25th Jan., 2014	1.88 Lac/Annum
8.	Cognizant Technologies	17th December, 2013	3.00 Lac/Annum
9.	Vardhman Group	Jan. 2014	1.50 Lac/Annum
10.	RPH Industry	16th Jan. 2014	1.44 Lac/Annum
11.	Arihant Group	23rd Jan. 2014	1.44 Lac/Annum
12.	Mphasis Technologies	28th Jan. 2014	3.50 Lac/Annum
13.	Triveni Turbines	30th Jan. 2014	3.86 Lac/Annum
14.	Vivacity Infotech	1st & 2nd Feb. 2014	1.50 Lac/Annum
15.	Oil Field Warehouse & Services Limited	3rd & 4th Feb. 2014	2.16 Lac/Annum
16.	AgileCube Technologies Pvt. Ltd.	7th & 8th Feb. 2014	1.80 Lac/Annum
17.	Logic Spice Consultancy Pvt. Ltd.	7th & 8th Feb. 2014	1.44 Lac/Annum
18.	Cape Electric & OBO Bettermann India Pvt. Ltd.	10th & 11th Feb. 2014	1.80 Lac/Annum
19.	InOpen Technologies Pvt. Ltd.	11th & 12th Feb. 2014	3.50 Lac/Annum
20.	Kuhu Industries Pvt. Ltd.	4th Feb. 2014	1.80 Lac/Annum
21.	NIIT Technologies	21st & 22nd Feb. 2014	2.10 Lac/Annum
22.	VIT Infotech	21st & 22nd Feb. 2014	2.50 Lac/Annum
23.	Silverton Structures & Projects Pvt. Ltd.	24th Feb. 2014	2.40 Lac/Annum
24.	Cognizant Technologies (II Phase)	Feb. 2014	3.00 Lac/Annum
25.	RAAS Capital	11th October, 2013	2.00 Lac/Annum
26.	Reliance Retail	14th Nov., 2013	1.50 Lac/Annum

S.No.	Name of Company	Date of Drive	Selection Package
27.	GENPACT	26th Nov., 2013	1.70 Lac/Annum
28.	UAE Capital & Finances Exchange Ltd.	30th Nov., 2013	1.50 Lac/Annum
29.	N.J. India Invest Pvt. Ltd.	02nd Dec., 2013	2.20 Lac/Annum
30.	A TO Z Infotech Media Pvt. Ltd.	07th Dec., 2013	1.80 Lac/Annum
31.	BERGER Paints	28th Dec., 2013	4.50 Lac/Annum

Placements : Computer Science Engineering

S. No.	Name of Student	Placed Company	B. Tech. Aggregate
1	Ashwini Mathur	L&T Infotech	73.32
2.	Shaily Jain	L&T Infotech	84.42
3.	Shivani Goswami	L&T Infotech	80.22
4.	Mahak Baijiwala	L&T Infotech	76.93
5.	Hiten Lalwani	INFOSYS	70.75
6.	Mahak Baijiwala	Cognizant	76.93

Placements : Civil Engineering

S. No.	Name of Student	Placed Company	B. Tech. Aggregate
1	Kartik Jain	VARDHAMAN Group	60.70
2.	AnkitVashistha	VARDHAMAN Group	75.02
3.	RakeshAtal	VARDHAMAN Group	74.68
4.	Kirti Sharma	ARIHANT Group	63.47
5.	Rajveer Singh Khanagarot	ARIHANT Group	58.57

Placements : Mechanical Engineering

S. No.	Name of Student	Placed Company	Package
1	DayanandNai	Kuhu Industries Pvt. Ltd.	64.98
2.	RajkumarJatav	Kuhu Industries Pvt. Ltd.	65.88
3.	Ajay Jangid	Kuhu Industries Pvt. Ltd.	65.43
4.	Tarun Kumar Chhipa	L&T Infotech	71.57
5.	Lokesh Sharma	RPH Industries	66.93
6.	AnuragKapoor	Universal Foundary	66.15
7.	Amit Kr. Agarwal	Universal Foundary	55.68
8.	Aditya Kankani	KVG High Tech. Auto Com.	67.67
9.	Vijay Kumar	KVG High Tech. Auto Com.	49.37
10.	Manu Sharma	KVG High Tech. Auto Com.	65.50
11.	Kuldeep Sharma	KVG High Tech. Auto Com.	67.91

Placements : Electronics & Communication Engineering

S. No.	Name of Student	Placed Company	B. Tech. Aggregate
1	Kumud Sharma	INFOSYS	78.93
2.	Naveen Regi Varghese	INFOSYS	72.47
3.	Bhanu Singh Rajawat	Epta Technology Pvt. Ltd.	69.9
4.	PinkiRathore	Clover IT Services Pvt. Ltd.	72.4
5.	Rahul Meena	Clover IT Services Pvt. Ltd.	49.22
6.	VishwasVaishnav	Clover IT Services Pvt. Ltd.	54.75
7.	SharmiliSanghvi	L&T Infotech	83.13
8.	Nitesh Sharma	Teleperformance	50.18
9.	Ashish Sharma	Universal Foundary	61.3
10.	Girnesh Kumar Meena	RSRTC	53.60



Companies Visited - 2013 Batch

S. No.	Name of Student	Date of Visit	Package
1	HCL Technologies (ISD) Limited	10th - 12th Oct. 2012	2.75 Lac per annum
2	Indian Army (Pre-final year 2014 batch)	18th Oct. 2012	6.00 Lac per annum
3	Nagarro Software Limited	29th Oct. 2012	3.00 Lac per annum
4	Precision Automation	31st Oct. 1 & 2 Nov. 2012	1.92 Lac per annum
5	Indian Navy (Selection for SSB)	6th - 8th Nov. 2012	6.00 Lac per annum
6	Microsoft Technologies	17th Nov. 2012	16.00 Lac per annum
7	KEC International Limited	21st Jan. 2013	2.40 Lac per annum
8	Bosch Limited	30th Jan. 2013	2.16 Lac per annum
9	Green Minds Pvt. Ltd.	1st - 2nd Feb. 2013	1.8 Lac per annum
10	Gridbots Technologies Pvt. Ltd.	3rd - 4th Feb. 2013	1.68 Lac per annum
11	SAP Labs India	4th Feb. 2013	3.00 Lac per annum
12	Sobha Softech Pvt. Ltd.	5th - 6th Feb. 2013	1.44 Lac per annum
13	UltraTech Cement Limited	12th Feb. 2013	2.00 Lac per annum
14	Pratham Software	6th March. 2013	2.40 Lac per annum
15	VitroMed Healthcare Pvt. Ltd.	14th March. 2013	1.20 Lac per annum
16	FranConnect	23rd March. 2013	2.50 Lac per annum
17	Josh Technologies	30th March. 2013	3.50 Lac per annum
18	Kwench	March. 2013	4.20 Lac per annum
19	A3Logics	3rd April. 2013	1.80 Lac per annum
20	Shriram Value Services (P) Ltd	4th April. 2013	2.07 Lac per annum

Placements : Computer Science Engineering

S. No.	Name of Student	Placed Company	Package
1	Bhagya Shree Mewara	Pratham Softwares	2.40 Lac per annum
2	Govind Sharma	Sobha Softech Pvt Ltd	1.44 Lac per annum
3	Kavya Shrivastava	Sobha Softech Pvt Ltd	1.44 Lac per annum
4	Chanchal Jain	HCL Technologies Limited	2.75 Lac per annum
5	Raksha Nawal	HCL Technologies Limited,	2.75 Lac per annum
6	Shikha Mehta	HCL Technologies Limited	2.75 Lac per annum

Placements : Civil

S. No.	Name of Student	Placed Company	Package
1	Ajeet Singh	KEC International	2.40 Lac per annum
2	Abhishek Lamba	KEC International	2.40 Lac per annum
3	Devi Singh	KEC International	2.40 Lac per annum
4	Deepak Sharma	Balaji Constructions	1.92 Lac per annum
5	Neha Choudhary	Indian Navy	6.00 Lac per annum
6	Nitesh Pathak	Indian Navy	6.00 Lac per annum
7	Rajesh Singh Aithani	Indian Navy	6.00 Lac per annum

Placements : Electronics & Communication Engineering

S. No.	Name of Student	Placed Company	Package
1	Maihul Bhati	Indian Navy	6.00 Lac per annum
2	Monika Shrivastava	Indian Navy	6.00 Lac per annum
3	Shubham Sharma	Indian Navy	6.00 Lac per annum
4	Ruchi Sharma	HCL Technologies Limited	2.75 Lac per annum

Placements : Mechanical

S. No.	Name of Student	Placed Company	Package
1	Trilochan Yadav	Indian Navy	6.00 Lac per annum



Placements



Kumud Sharma
(INFOSYS)



Naveen Regi Varghese
(INFOSYS)



Hitin Lalwani
(INFOSYS)



Tarun Kumar Chhipa
(INFOSYS)



Ashwini Mathur
(L&T Infotech)



Shaily Jain
(L&T Infotech)



Shivani Goswami
(L&T Infotech)



Mahak Baijiwala
(L&T Infotech)



Sharmili Sanghvi
(L&T Infotech)



Kartik Jain
(VARDHAMAN Group)



Ankit Vashistha
(VARDHAMAN Group)



Rakesh Atal
(VARDHAMAN Group)



Lokesh Sharma
(RPH Industries)



Kirti Sharma
(ARIHANT Group)



Rajveer Singh Khanagarot
(ARIHANT Group)



Ajay Jangid
(Kuhu Industries Pvt. Ltd.)



Dayanand Nai
(Kuhu Industries Pvt. Ltd.)



Rajkumar Jatav
(Kuhu Industries Pvt. Ltd.)



Bhanu Singh Rajawat
(Epta Technology Pvt. Ltd.)



Pinki Rathore
(Clover IT Services Pvt. Ltd.)



Rahul Meena
(Clover IT Services Pvt. Ltd.)



Vishwas Vaishnav
(Clover IT Services Pvt. Ltd.)



Nitesh Sharma
(Teleperformance)



Anurag Kapoor
(Universal Foundry)



Amit Kr. Agarwal
(Universal Foundry)



Ashish Sharma
(Universal Foundry)



Girnesh Kumar Meena
(RSRTC)



Aditya Kankani
(KVG High Tech. Auto Com.)



Vijay Kumar
(KVG High Tech. Auto Com.)



Manu Sharma
(KVG High Tech. Auto Com.)



Kuldeep Sharma
(KVG High Tech. Auto Com.)



Mahak Baijiwala
(Cognizant)

Faculty : The Life Line



Outstanding Contribution Award



MAHAK BAIJIWALA



Satya Prakash Panwar



Binit Gopal



ANAND DADDICH



Shaily Jain



SHREYANSH JAIN



PRACHI KEDIA



AANCHAL BAID



POOJA SHARMA



HEMANT BHARTI

B.TECH. FIRST YEAR 2013-14



Section - A



Section - B



Section - C



Section - D



Section - E

B.TECH. FORTH YEAR 2013-14



Civil - A



Civil - B



ECE - A



ECE - B



CSE



ME

STRAIGHT TALK -Students Talking It Out...!!

Cozy, Homely and Vibrant – That's what you feel In Poornima Hostels...

“HOSTEL” a name that tickles me every time, I think about it. The extremely intimated atmosphere full of love and care, created by our seniors and wardens has touched my soul. The very first informal meeting with our seniors was at hostel’s welcome party followed by a program, organized by them at Arbuda. No words of praise could express the feeling of relief & gratitude towards our seniors. Even at Gayatri Girls Hostel, there is a tradition of joining hostel club “Enthuse” and the other trend is to attend ‘Mentor classes’ which are innovative ways of exploring hidden talents, implementing new ideas, developing hobbies as well as brushing minds. Furthermore we all are provided with the following facilities:

- Gym
- Basketball-court
- Volleyball-court
- Squash-room
- Carom-room
- T.V. room etc

Various social and cultural events are successfully organized here with zealous participation and devotion of students. The socially embraced events like Janmashtmi, Ganesh Chaturthi, Navratri etc. are celebrated with joyous and enthusiastic dances as well as musical nights. Every year annual Hostel fest “Tatva Torque” is organized for students residing in Gayatri Girls hostel. The prime objective behind this fest is to provide an opportunity to the hostellers to explore themselves and find out more about the areas they can expertise in. An environment like this creates healthy competition and brings out hidden talents which the girls are themselves not aware of and also encourages participation from those who already possess some talent. We are grateful to our chief warden, Mrs. Sudha Jain, for building & maintaining healthy and fantastic atmosphere at Gayatri Girls Hostel.



Chetna Srivastava
III Year, CSE



Aravali, a range of mountain spread all over Rajasthan ,as it protect us from foreign areas being stood straight and makes us fearless of anything, same is the boys hostel of POORNIMA which is named as this mountain range “ARAVALI”. For students coming from different states and cities of Rajasthan also, Aravali is proved to be the best protector, It is the best place for the students to reside not only because it protects students but it

always beams with life and enthusiasm owing to the optimistic and zestful attitude of students. It is the fact that hostel life is an unforgettable period of one’s life because here one gets the opportunity to unleash his hidden qualities and traits. The fantastic and the most important facility provided by Aravali is mentorship program which helps in understanding all the concepts of studies and exploring new ideas as well as maintaining study habits. There is also a personality development session which enhances the personalities of students and makes them familiar for the interviews conducted by companies at the time of campus placements at different stages.

After all these facilities Aravali cannot ignore the most important thing ‘HEALTH’. It provides us variety of foods with a specially designed menu for every day and of course it makes our Sundays truly Fundays with good and yummy recipes. After all these it is famous for its taste and hygienic food.

Aravali is the perfect hostel for poornimites and make them able to face the challenges of world in life or we may say here students enter to learn and leave to serve.

Nishant Saxena
I Year, CSE

P-PROSKEP

To Hone the Poornimites

After joining Poornima Group of Institutions, my first experience of interaction with all of my classmates was provided by P-PROSKEP. After few restrictions on a student Poornima provided a best opportunity, as P-PROSKEP where we are nurtured and groomed for a professional look in outer market, during exposure in market, P-PROSKEP sessions provided me a status and stand to speak and survive.

In P-PROSKEP session, I get complete dictionary which has sufficient words to complete my verbal and non verbal activities. Although I am from English medium background, but P-PROSKEP session grooms my English up and provides a list to add up with my pre-gained knowledge of words and vocab.

Here session my friends of Hindi medium background also get such a support in spoken that now they can withstand with a Standard English Orator.



P-PROSKEP sessions do not only focus upon English spoken but also nourish us through various activities like Aptitude, GD & PI which are initial rounds of placement.

Many students criticize Poornima institutes but I think Poornima give us the best opportunities that assist us for our bright future.

Ayush Pareek
III Year, EC

Library

Of the knowledge, for the knowledge & by the knowledge



DELNET is established with the prime objective of promoting resource sharing among the libraries through the development of a network of libraries. It aims to collect, store and disseminate information besides offering computerized services to users, to coordinate efforts for suitable collection development and also to reduce unnecessary duplication, wherever, possible. In order to avail the benefits of DELNET facilities, PGC has been accessed DELNET databases through World Wide Web using the login and password provided by the library.

CENTRAL LIBRARY : There are 71,758 books, 116 journals, 1057 e-book and software stored in CDs and DVDs, 1604 technical report and 1150 e-journals subscribed through DELNET are the part of central library. 5 library cards are given to each student; additional cards are given to brilliant students and hostellers. Apart from borrowing books, journals, e-book, software from the library, the library also provides reference service, reading room, newspaper clipping, Xerox, etc. there is 24 hours Nucleus Library for hostellers.

Divyesh Bhatnagar
III Year, CS

Industrial Visit -Gaining hands-on experience

Industrial Visit is a must to make the students aware of practical working of particular industries. Industrial visit is a part of the engineering course, during which the students visit companies and get insight of the internal working environment. The visit also provides an imminent on how industries work and also the useful information related to the practical aspects of the course which cannot be visualized in lectures. In order to make students understand the functioning organ industry, every year Poornima Group of Institutions organizes industrial visit for the B.Tech. students of different branches. During the visit; the functions and details of various steps of production are explained to the students by company executives. Students interact and get their queries sorted out, thus, expanding the horizons of their knowledge.

These visits provide students with adequate exposure in tackling line problems encountered in the working of an industrial entity. They also help them receive industrial exposure from eminent public personalities in the world of industry. As part of a visit, students see work in progress and relevant demonstrations. These visits are designed to provide students with firsthand knowledge of a working environment.

Therefore this is again a facility provided by Poornima that is only aimed at students' bright future. Thus Poornima rocks once again.

Jai jai Poornima Sansthan

Divyesh Bhatnagar
III Year, CS

SOCIAL SERVICES AT POORNIMA

In every democratic country especially socialistic democratic country, there is a great responsibility on the government to provide social facilities and take care of the general welfare of the citizens. But looking at the size of Indian population, it is the need of some individual and organizations to enter this field and contribute in this field.

In our college PGI, our management is also effectively and willingly contributing in this social



welfare activity in field of medical care, financial assistance to old age home and orphanage, educating weaker section of the society. Social services are the activities which are undertaken voluntarily without expecting any rewards, payments, or recognition. To develop a sense of responsibility in youth technocrats, our college has organises many activities related to social services which provide opportunity to the students to participate in such activity.

It is the practice at college to take students to visit orphanage and old age home to serve them according to their wish and capacity. These kind of activities provide peace and mental satisfaction that we are able to provide at least some happy moments to these people.

Chetna Srivastava
III Year, CS

Poornima Buses - *the fleet of a rivers flowing to all the nooks of Jaipur*



Mobility is life, immovability symbolizes lifelessness. Transportation, in general, is an important part of life. Without transport facility accomplishing day to day tasks may become more time consuming and difficult.

Here our Poornima Group of Colleges comes to the forefront as it provides the most important facility of transport to students. There is fleet of around 55 buses connecting the colleges to all the nooks and corners of Jaipur. It is very tedious and responsible task that is endowed to the buses to carry students safely to their college and back to their residences. The buses are named after the names of famous rivers of the world and each bus is allotted a specific number. There are separate buses for faculty and students.

Bus facility is provided to the students even during special lectures or holidays. Whether it is scorching sunlight or heavy shower, we are safe and secure in our buses. We reach timely and safely at home. After the hectic and tiring schedule of the whole day, we enjoy a lot with our friends in bus ride back to home.

We share our day's experiences and enjoy music on our phones. This is the time when we forget all our worries and tensions. So, it's a great fun from going in college bus.

Anshul Patidar
I Year, ME

Uniform and Uniformity

Uniform as the name indicates assigns uniformity to students coming from different backgrounds to the institute for gaining wisdom. Uniform not only institutes a sense of confidence and professionalism but also saves young technocrats from spending their precious time in a task as trivial as thinking of what to wear every day. We see how homogeneity is important in school and colleges, because that is the place where one should not be discriminated on the basis of looks or the brands of clothes he or she wears.

Also wearing the same clothes brings a sense of unity among the students. Representing the college through its distinct uniform inculcate a sense of responsibility among them. It is the attire which distinguishes Poornimites from the hand of commons. The sky blue color of our so elegant and graceful uniform epitomizes the ambitious and zealous attitude to students to strive high till they reach their sky of goals and aspirations. Uniform also allows these naive minds to have a professional ambience so that

They get easily adjusted to the cut throat dead line bound corporate work waiting for them at the other side of the campus gate.

Abhineet Singh Sachdeva
I year, ME



Parents' Share



Dear Sir,

After our son qualified the RPET examination the most herculean task was to find suitable college for him, which could nurture her potential, by providing suitable guidance. After wide search, we stopped upon Poornima Group of Institutions. Why would a parent go anywhere else; given the repute of the institution and the exceptional result it has provided?

The best thing in the college is the teaching method which is traditional yet innovative and aims about bringing the best in its students.

The environment of the college is concise, which helps in carrying proper values in children. The teachers hold a good command in their respective subjects. They also play role of friend, guide and philosopher to the child and feel me relieved that the child is in good hand.

The college helps in building soft skills of the students the introduction of language lab is applaudable step.

The information of college is praise worthy plenty of free space. We firmly believe that under the guidance of director, dean, Head and proctor, the college will attain great height. Thanks for giving us the opportunity of express our thoughts.

Mr. S. P. Pareek
(F/O AyushPareek)
III year, ECE

Dear Sir,

We truly appreciate the dedication and endless efforts made by Poornima Group of Institutions for providing a good platform to our child. We really like the idea of weekly conducting online test and specially designed Self Help Groups which ensure better learning process. It is only by the efforts of Poornima faculty members that our child becomes punctual, learns to avoid procrastination and incorporates discipline in his life, which surely will help in the self-development. Thank you for your support in welfare of our child in bringing them forward as a future engineer. My best wishes for PGI for success and bright future.

Thanks and regards

Mr. Suganchand Contractor
(F/O Jitendra Verma)
IV Year, CE

Dear Sir,

We convey our appreciation and thanks for the role played by the authorities of PGI as a mentor for my daughter. It is through the continued efforts of the faculty that our children have incorporated discipline in her life. The formation of self- help groups and conduction of online test expose her to better learning processes. These efforts will enable her to compete globally. My best wishes for Poornima Group of Institutions for a bright future as an institution.

Thanks and regards.

Dr. Naveen Kumar Mishra
(F/O Kaumudi Mishra)
III Year, ECE

What Guests Say

**Ahmann
Corner**

Recent Advancements in Science and Technology

Future Prospectus: Scientific discoveries are being made every day that are changing the world we live in. This list contains some crazy scientific innovations—and they've all been made in June 2013. From physics to medicine to biology, the following stories are sure to blow your mind. Technological and medical advancements that most people believed would never happen in their lifetime, let alone at this very moment, are real and continuing to develop. These discoveries bring with them a myriad of new technology and techniques that will only grow and improve with time to make the world a better place to live in.

Telekinesis: Being able to control the motion of objects may seem like the plot of a science fiction novel, but thanks to researchers from the Minnesota College of Science and Engineering, it's now a reality. Using a noninvasive technique known as electroencephalography that harnesses brainwaves, five students were able to control the motion of a helicopter.

Facing in the opposite direction of the copter, students were able to move the vehicle in various directions by imagining themselves moving their left hand, right hand, and both hands. After some time and training, participants were soon able to get the helicopter to perform several maneuvers including passing through rings with an image of the flight being showed to them on a screen. Researchers are hoping to expand this new noninvasive brain wave technology to eventually restore motion, hearing, and sight in patients suffering from paralysis or neurodegeneration.

Efficient Electrolysis (Saltwater splitting): In the race to find efficient and plentiful alternative fuels, researchers have always hit a roadblock when trying to come up with an efficient method of splitting seawater to produce hydrogen fuel. On June 10th, a team at the Australian Research Council Centre of Excellence for Electromaterials Science unveiled a catalyst that is able to split ocean water with very little energy needed.

The catalyst has been fashioned into a flexible plastic film that soaks up and uses the energy obtained from light to oxidize the seawater. Unlike current methods that require a large amount of energy to oxidize the water, this method would produce enough energy to power the average home and car for a full day using only 5 liters (1.3 gal) of seawater. The film contains synthetic chlorophyll molecules to harness the energy of the sun in the same way the leaves of many plants do. Nor are there any chemical downfalls to using this method, unlike the current water-splitting method that emits clouds of poisonous chlorine gas. This efficient and effective method could greatly reduce the cost of hydrogen fuel, allowing it to be a competitive alternative fuel to gasoline in the future.

Alternative Fuel Microbes: Imagine a world where high-efficiency, low-cost alternative fuels were as easy to obtain as the oxygen in the air around us. Well, thanks to the collaboration of the US Department of Energy and a team of researchers at Duke University, we might have a microorganism that can make this dream a reality. Recent years have seen great strides in the area of alternative fuels (like ethanol from corn and sugar cane). Unfortunately, these methods have proven inefficient and given rise to a lot of criticism like cutting into the food and land supply. Recently, scientists have been able to come up with electrofuels that are designed to harness solar energy without cutting into the food, water, or land supplies as most of the existing alternative fuels do.

In addition to its low energy need, tiny microbes can efficiently and effectively synthesize these electrofuels in a lab. These electrofuel microbes have been isolated and found living in non-photosynthetic bacteria. Using the electrons in the soil as food, the microbes eat up the energy to produce butanol when exposed to electricity and carbon dioxide. Using this knowledge, scientists extract the genes to complete this photosynthesis substitute and inject them into lab-grown bacteria allowing them to produce butanol in large amounts. Butanol is now being seen as the better alternative to both ethanol and gasoline for a variety of reasons. As a much larger molecule, butanol has a larger energy-carrying capacity than ethanol and doesn't absorb water, so it can be placed directly in the gas tanks of any car and transported through the existing gasoline pipelines. These butanol microbes are very promising for the future of alternative fuels.

Immunity to Cancer: The University of Rochester published a study on June 19th suggesting the mechanism that allows naked mole rats to be immune to cancer. These creepy subterranean rodents may get a lot of heat for their looks, but they seem to be having the last laugh when it comes to their immunity to cancer.

A gooey sugar known as hyaluronan (HA) has been found in the spaces between naked mole rats' cells, which seem to stop them from growing close together and forming tumors. The substance, acting like a parent chaperone at a high school dance, causes early contact inhibition, which is a process that stops cells from multiplying once they reach a certain density. A double mutation in the two enzymes that promote HA's growth and reduce its breakdown is thought to be the reason for the elevated amount of the substance. Scientists tested the theory by infecting skin cells containing both high and low amounts of HA with cancer. It was found that in the cell with low levels of HA, the cancer multiplied rapidly, but in cells with high HA, tumors failed to form. Scientists are hoping to modify laboratory rats to produce high amounts of HA in an attempt to make mice immune to cancer.

Dr. Pradeep Verma

Associate Professor

Department of Microbiology
Central University of Rajasthan

Innovations in Training and Development

People are faster than earlier decades and with the same pace their demands are being changed. Companies are trying to match with the demands and in this race of tapping customers organizations are putting their high demands on their resources. One of these resources is human resource and human resources management is the prominent one who play vital role in this entire scenario. Needless Therefore, the recent phase of training is full of innovations that blend technology with the learning at low cost and vast flexibility.

The dynamic environment of acute competition, high expectation of performance and high pace of changing technologies create demands for work related training not only for information but also for maintaining the level of learning quest. The training-need has been identified due to the economic growth in many regions and the growth has put a challenge to develop new competencies and skills. Therefore new job roles and organization structures are emerging and accordingly talent is not available in market. Talent shortage, Skills mismatch and Knowledge based economy have created demands prominently on hiring and training new personnel and training to the current employees for new roles. Further if we look at the employees' part, the trainings provide value addition in their performance and in their attractiveness of other employers, as per the reward policy they get hike in pay also. Thus in case of increased competition for good jobs, training increases their weight-age. Looking at the demand and time constraints new facets has expanded the horizons of training, such as:

Relying on technology, companies are increasing the opportunities for development and growth and trying to be more competitive in the market. With the pace of technology, job profiles and responsibilities are also changing that

require the employees to update their skills and knowledge on a regular basis. In 2006, e-learning continued its evolution into a mainstream approach to corporate training.

Technology-based instruction includes computer-based training (CBT), multimedia CBT, televised distance learning, video training, and use of the Internet. The term e-learning also includes virtual classrooms, Web-based courses, "Webinars," and digital collaboration. McDonald's developed about 11 different courses for its franchisees' employees, and put the program on DVDs. The program consists of graphics-supported lessons, and requires trainees to make choices to show their understanding.

Furthermore, the economic recession had led to cuts in the budgets allocated for workplace training within companies and organizations. In this regard companies are developing specific technology-based training programs for large corporations. By making training programs interesting and fun to work with, companies are providing interesting and interactive content. They are adding simulations and other high-fidelity activities and exercises to learning programs. As e-learning technology continues to grow and develop, more corporations are also finding that it is a cost-effective and efficient way to provide training to their employees. For instance, IBM has realized several measurable benefits through its e-learning programs. It saved US\$ 166 million and achieved an ROI of 2284% from its basic Blue e-learning programs. It has emerged as the company with the largest number of employees enrolled into e-learning courses in 2002 (Tapomoy, Deb. 2010).

On-line training is another mode that is being developed by the companies due to the advantages of easy reach to more trainees across the globe, reduced travel costs, tests and materials available online and integrated audio conferencing (via computer and telephone). Delta Airlines customer service personnel adopted the mode because of least movement and man hours requirement. (Dessler, Gary and Varkkey, Biju. 2009)

According to the Training Magazine's 2007 Industry Report, virtual classroom was the most used learning tool and technology. It is mentioned that nearly 40 percent of organizations are using a learning management system (LMS); more than half are using a virtual class-room tool; and between 20 and 30 percent are using application simulation and rapid e-learning tools. Among large companies, these numbers nearly double.

- Keeping in view the quickly changing markets and needs companies are developing adaptive-mode among its workforce. In the wake of the dynamism, companies are promoting multi-skill training. Whereas earlier employees were imparted training only in one job, in this model, employees are trained in a wide range of skills with an ability to perform multiple tasks. If an employee's job becomes obsolete or if there is an overwhelming need somewhere in the corporation, the employee can easily transfer to another position and immediately begins to work productively. (Sandy, Dutkowsky)
- In the context of getting high profit and for avoiding severe financial consequences, the concept of cross cultural training has become need of the day and during the recession the concept was one of the popular terms in learning and development. In this context, companies having abroad assignments, have begun to spend good amount on training with variety of approaches like General Motors still spends nearly \$500,000 a year on cross cutting for about 150 Americans and their families headed abroad. Some companies are imparting training for skills in dealing with a wide range of people with different values, like Motorola has instituted a center for cultural training at its headquarters with the goal of making its managers "trans culturally competent".
- The increased stress level and cut throat competition dragging down the employees' efficiency. This is now having been accepted part of company's responsibility to help their employees in coping with the accelerated on and off-the-job stresses and expectations. Keeping this in mind some companies are giving training on life style also. The training is all about encouraging, and inspiring a healthy change in lifestyle through manageable training. As in Wipro more than 110 highly qualified trainers are imparting training on 10 state-of-the-art learning facilities. For Six years in a row, Wipro has been conferred the American Society for Training & Development (ASTD) BEST award for its learning and development practices.

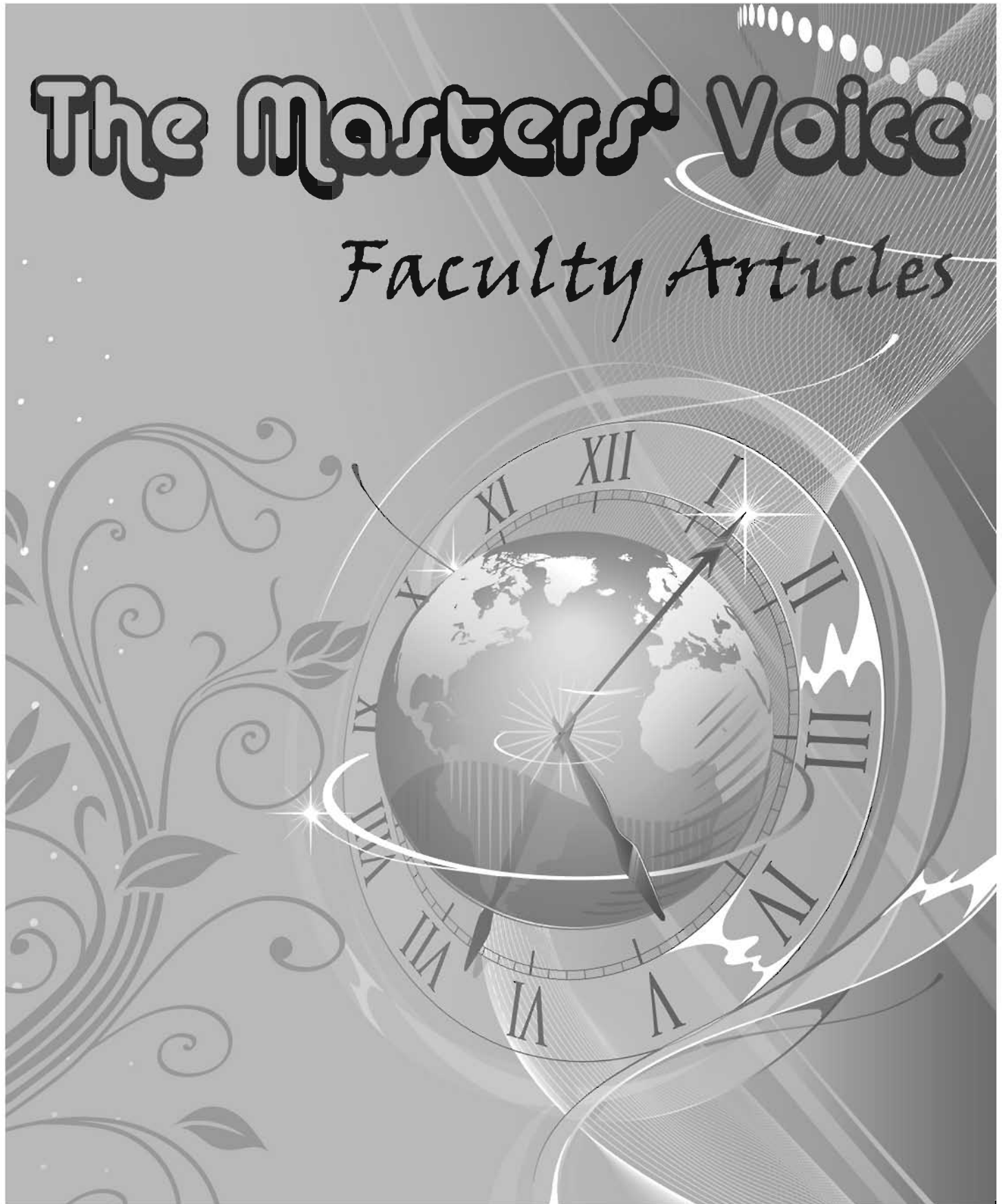
Dr. Shikha Kaushik

Associate Professor-HRM&OB

IILM-Academy of Higher Learning, Jaipur

The Masters' Voice

Faculty Articles



Time Management for Engineering Students



In this fast developing world full of competition, Time Management is the most vital skill for Engineering students to cope up with the heavy Engineering course load. For an engineering student it is must to take 5 or 6 courses, attend labs, complete weekly problem sets, and participate in group projects, means that they have to be able to handle multiple assignments with limited time. So, here follows certain tools to help manage your time:

Task Lists: Producing a task list is a quick and easy way to see what you need to get done in your day or week. Sometimes when you get flustered with a lot of projects you need to do, seeing them all in a list will make it easier to prioritize and then you will be able to accomplish more things! To make a task list, write out all the things you need to do in a day, week, month or semester. From there you can choose the tasks you want to get done first from your methods of prioritization.

Flexible Time: Make sure you allot extra time for your plans. A good rule of thumb is to multiply the amount of time you allot to a task by 1.5. This way, if you need extra time for a task or need to squeeze something else in, you'll have that time accounted for!

Schedules: A schedule will help you plan ahead and prioritize tasks. Make a schedule of your classes and include time to have fun! To keep on track, write out the tasks for each class and activity you're involved in on a calendar, day planner or schedule sheet. You might find it useful to make daily or weekly schedules to stay on top of homework.



Take Breaks: In addition to making time for fun, if you have a big project that will take a long time, make sure you plan on taking breaks. These can include things like working on simpler projects, exercising, or just going outside and having fun for a bit!

Dr. Archana Singh
Assistant Professor,
Chemistry, 1st Year

World's First Transparent Tablet



Tablets were Conceptualized in the mid-20th century and prototyped and developed in the last two decades of that century, and became popular in 2010.. Everyone seems to have one and both iPad and Android tablets flew off shelves this holiday season. It is very common to have android phones and tablets this year. Tablet styles, sizes and technology constantly evolve, but the next big thing in tablet computing may just be transparent tablets. We predicted to see such a device in 10 years' time, but Grippity plans to be the first on the market next year and is promising a dual-sided typing experience we have never seen before.

The man behind the slate is Jacob Eichbaum from Tel Aviv, and he is looking to raise \$199,000 by January 24th. With 29 days to go, the tablet is about \$182,000 short of the goal. A pledge of \$159 or more will get you one of the tablets with an expected shipping date of October 24th. Grippity, is a 7-inch tablet with a 800 x 480 resolution — low by today's standards — semi-transparent display designed by Taga. What makes it so unique, though, is that it allows typing from both sides of the tablet. In fact, Grippity could change the way we interact with tablets: it's easier

to type on with all 10 fingers thanks to its two sides and solid frame. Taga claims that it's easier to use the back panel to type so that pixels aren't hidden when you touch them. The company also mentions that playing Angry Birds is more fun on their device, although we doubt it on a resolution that low.

Grippity comes with Android 4.2 Jelly Bean (it will get 4.4 KitKat if it's funded), front and back capacitive multi-touch, a quad-core processor, IR transmitter, SD card slot, 8GB of internal storage, 2,400 mAh Li-ion battery and Wi-Fi and Bluetooth capabilities. It will also be one of the less expensive tablets in the market:



Vijay Kumar Sharma

Assistant Professor,
ME, I Year

M.B.A. - The 3 Factors of Success

You will often hear it said that things come in 3's. I've found that Motivation, Belief, and Action (M.B.A.) are three factors that go hand-in-hand and are all needed to succeed with anything you do in life, including doing business online. To accomplish anything, you must not only be motivated by your dream, but you must believe you can accomplish it, and then you must Act.



Motivation begins with a dream or a desire. It may be for better working conditions, more money, a better house in a better neighborhood, a desire to travel and see the world, play a musical instrument, learn a foreign language, prepare a fabulous feast, or whatever else your imagination can conjure up. Motivation is usually accompanied by enthusiasm. It sets your blood tingling, puts that fervent look in your eye and a smile on your face.

The old saying, "when the student is ready, the teacher appears" is often true when keen motivation is present. You suddenly become aware of things you were not aware of before. It seems everything you need is made available to you. Opportunity knocks, so to speak. When you are motivated, your enthusiasm leads to passion. You become passionate about your dream, and you can think of nothing else. That is what leads to the second factor - Belief.

Without Belief, you may as well forget about doing whatever you've set out to do. As soon as you DON'T think you can achieve something, you will not achieve it. Remember another old saying, "you experience what you believe, unless you believe you won't, in which case you don't, which means you did!" We've all been told the mind is a powerful thing. Do not doubt the validity of that statement. If you focus your mind on believing you can accomplish something, your mind will believe you!

With the strong adherents of Motivation and Belief as partners, Action, the remainder of the trio, falls into place. Naturally, if you are motivated about your dream and believe you can accomplish it, you will be anxious to take action. Would there be a more logical next step than to answer the door when opportunity knocks? You will be ready to take action, even if it means taking risks. The benefits of taking action far outweigh the risks when you are motivated and you believe.

So, dream big, my friend. Open your spirit to a new abundance and you will be motivated to pursue that dream. Then, believe that you can achieve your goal, and take action! And remember what my Granny said about good things coming in 3's!

Shubhra Mani Verma

Assistant Professor,
English, I Year.

Amazon's Prime Air

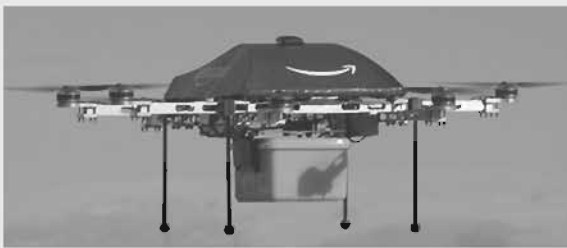
Amazon just unveiled a self operated Prime Air delivery vehicle. Made to fly and deliver packages autonomously, the devices make decisions on their own about how to fly and where to land — no human operator required.

Amazon Prime Air is by far the most ambitious commercial drone program in development, but there is no reason it couldn't work. Today plenty of companies have demonstrated delivering goods via drone, including Domino's Pizza and the infamous Taco Copter.

Separating Hype from Reality on Amazon's Drones

Yet, in some contexts, drone delivery has shown potential. Last year, a startup called Matternet in Palo Alto, California, tested drones as a way to deliver supplies to refugee camps in Haiti and found it cost only 20 to 70 cents to deliver a two-kilogram package 10 kilometers—at least a fivefold savings compared to standard truck delivery.

“Technically it is totally feasible,” says R. John Hansman, a professor of aeronautics at MIT. “The key issues will be if the [Federal Aviation Administration] allows this kind of operation—they should—and if the business case makes sense.” For home delivery to work safely and ubiquitously, it would mean avoiding every power line on a suburban street, deciphering satellite maps to decide what precise spot on a property to land, and making sure a drone didn't hit an errant child or dog. Hansman called those challenges “not insurmountable.”



Even if those challenges were dealt with, in the United States, drone use by Amazon would likely be a niche, high-cost service for high-value items. The FAA is currently working on drone safety and usage rules that are supposed to take effect in 2015. The rules are expected to lead to new commercial uses, including building inspections, police work, and delivery services (see “Flying Robots”).

But in an online Q&A, Amazon expressed confidence in the technology and said it would be ready as early as 2015—and even offered a 30-minute delivery promise for packages of up to five pounds, if the regulations allowed it.

Bhanwar Veer Singh
HOD, ECE.

Oasis of Desert: Hiware Bazar

Where there is a Will there is a way. Every few years, villages in central Maharashtra, like those in other drought-prone regions across the country, face crippling water scarcity that threatens lives and livelihoods and fuels migration. Despite decades of drought-relief programs, there has been little change over the years. Seems highly unlikely in case of Hiware Bazar in Ahmednagar district of Maharashtra.

The village experienced mass exodus during the severe drought in 1972. However the village experienced a turnaround after 1989, when Popatrao Babuji Pawar the only postgraduate in the village became the gram panchayat sarpanch. He managed to get the illicit 22 liquor retail outlets closed, secure bank loans for farmers and started rainwater harvesting water conservation and management programs, which involved building 52 earthen bunds, percolation tanks, 32 stone bunds and nine check dams. Its development plan was based on village Ralegan



siddhi, 35 km away, also in the same district, turned around by Anna Hazare. By the 1990s, reverse migration started as families started returning home. In 2012, the village with its 235 families and an overall population of 1,250, had a monthly per capita income Rs 30,000, up from Rs. 830 in 1995, plus it had 60 millionaires.

Hiware Bazar lies across 977 hectares (ha) at the foothills of the Sahyadris. The village receives only 300-400 mm of rainfall a year. Over time, with steady degradation of their forest land, villagers found themselves with little water available post the monsoon. Without water to irrigate their fields 90% of the villagers migrated. Despondency, hopelessness and



unaddressed anger punctuated the villager's lives. They started selling of illicit alcohol Over 90 percent of families lived below the poverty line (BPL) with monthly per capita income was around Rs 830. Its literacy rate at 30% was well below the national average (45% all-India rural literacy in 1991). Hiware Bazar began its watershed development program in 1992 with reforestation of their hilly forest land. Villagers also built trenches along contours in the hills to trap and slow rainwater runoff. Along natural drainage lines, they built shallow dams of stone, cement or earth. Once ground behind the dam walls is saturated, additional water remains stored as surface water To allow groundwater stored in the upper reaches of the village to reach farms downstream, villagers undertook an 'aquifer blast' - a controlled underground explosion to create cracks for groundwater to flow through. On individual plots, farmers have leveled land and constructed low earthen barriers along the perimeter to hold rainwater within the fields. Wealthier farmers have dug Plastic-lined 'ponds' for additional surface water storage.

In the past 11 years, the village has received an average annual rainfall of just 315 mm. Despite this, the village has maintained its water table at a safe level, realizing that protecting the ecological balance is necessary for sustainability. They announced ban on open grazing in watershed development areas: grazing is only permitted on private land, ban on tree cutting, ban on bore wells (except two for drinking water): To control groundwater over-extraction, drilling bore wells is banned and water access is restricted to open wells directly connected to rain/surface water recharge, water-intensive crops: like sugarcane and banana cannot be grown. For fodder, half an acre of sugarcane per farm may be grown but only with use of drip irrigation.

School students at the primary level go through a compulsory course on water management. To ensure that water is not overused, water budgets are designed to estimate its use by measuring water levels and then prescribe cropping patterns. Monthly readings are done to calculate the amount of water available. Babool trees used to be cut for fuel, but now, it is being protected as villagers harvest gum from them, which is priced at Rs 2,000 per kg. The focus on livestock resulted in the gradual increase in milk production bringing in steady revenue soon, the villagers built 52 earthen bunds, two percolation tanks, 32 stone bunds and nine check dams. In 2008, the gram sabha passed a resolution requesting that cars should not be used within the village to save fuel and cycles could be used instead. They also want to slowly ensure that every food item from Hiware Bazar is organic. "Only 20 percent of chemical fertilisers are used now, but we will slowly turn organic. Now the major crops grown are jawar, bajra, wheat, onion, potato, and vegetables along with floriculture and horticulture. The dairy sector has also registered a remarkable improvement. In 1995, the villages' daily milk production was 250 liters, which is 2,600 liters, today. This miracle village won National Agricultural Award, National Productivity Award and AGRI GOLD Award "Certificate of Honour" from the International Association of Hydrogeologists (I.A.H.).

Tiyasha Das,
Assistant Professor, Civil

Environmental Impact Assessment



EIA is an important procedure for ensuring that the likely effects of new development on the environment are fully understood and accustomed before the development is allowed to go ahead. It is a systematic process to identify, predict and evaluate the environmental impact on proposed action of the project.

The Environmental Impact Assessment was started in 1976-77 in India. The EIA consists of eight steps with each step equally important in determining the overall performance of the project.

The eight steps of the EIA process are presented in brief below:

Screening: It is the first stage of EIA which determines whether the proposed project requires an EIA and if it does, then the level of assessment is required.

Scoping: This stage invigilates the key issues and impacts that should be further investigated. This stage also defines the boundary and time limit of the study.

Impact analysis: This stage of EIA identifies and predicts the likely environmental and social impact of the proposed project and evaluates the significance.

Mitigation: This step in EIA recommends the actions to reduce and avoid the adverse environmental consequences of development activities.

Reporting: This stage presents the result of EIA in a form of a report to the decision-making body.

Review of EIA: It examines the relevance, adequacy and effectiveness of the EIA report and provides the information necessary for decision-making.

Decision-making: It decides whether the project is rejected, approved or needs further changes.

Post monitoring: This stage comes into play once the project is commissioned. It checks to ensure that project must not exploit the legal standards and also the implementation of the mitigation measures are in the manner as described in the EIA report.



Ms. Shaktibala
Technical Assistant

Sunflower New Hope for Solar Technology



The Solar energy is now can be more easily and economically generated by using sunflowers . Researchers in Germany have come up with a design that reduces the amount of land required to build a concentrated solar power Plant (CSP), while increasing the amount of sunlight by collection of mirrors. The researchers found that by rearranging the mirrors, or heliostats, in a pattern similar to the spirals on the face of a sunflower, they could reduce the pattern's "footprint" by 20 percent and increase its potential energy generation. The sunflower-inspired pattern allows for a more compact layout, and minimizes heliostat shading and blocking by neighboring mirrors.

Mr. Brij Mohan Mahaver
Technical Assistant



Gravelly Hill- Spaghetti Junction U.K

Gravelly Hill Interchange also known as the Spaghetti Junction is one of the iconic civil engineering works in Birmingham, United Kingdom. Gravelly Hill became famous as the Spaghetti Junction due to its complex design.

This junction is spread across 30 acres and has 18 routes which include slip roads (4km or 2.5 miles). It has a total of 559 concrete columns and passes over two railway lines, three canals, and two rivers. The construction work started in 1968 and was completed in May 1972 and till date it is considered as one of the most complicated road network in the world.



Ms. Suchi Sharma
Assistant Professor, Civil

Developing the Art of Leadership

Many people are born leaders, yet the ability to lead is actually an art and an amazing collection of skills which can be learned and sharpened. The following top ten daily habits will help you and/or your clients grow as a leader personally, professionally, and spiritually.



1. **Spend 30 minutes each morning looking for "cracks" in the major areas of your life.** Spend 30 minutes each morning looking at the major areas of your life: career, marriage, family, community, and spirituality. Write down any instances where you see "cracks" (you have cut corners, something is inconsistent, you have not kept your word, you have been dishonest, etc.) Do all in your power to repair those cracks by apologizing and dealing with the consequences of your actions. After facing up to past actions, begin a plan that will rebuild you and prevent you from making further mistakes.
2. **Show up and be ten minutes early for every appointment.** Great leaders show up for every appointment, and they are always on time. Each day, practice not only showing up but being ten minutes early for each and every appointment. "The early bird gets the worm" has never been so true than when it applies to becoming a great leader that others want to follow.
3. **Be dedicated to a high level of learning.** Great leaders are highly competent, because they are dedicated to a high level of learning, growth, and improvement. Spend 15-30 minutes each day devoted to learning something new. Do not settle for knowing "how" to do something. Dig deeper by asking the question "why" and then, go find the answer. Search the internet, interview an expert, or take a day trip to find the answer to a question that is on your mind or the minds of those who follow you.
4. **Be simple and crystal clear in all communication.** As a leader, your communication should be simple, clean, and clear as a bell. Examine both written and verbal communication for simplicity and clarity. Use as few words as possible, and eliminate jargon and "big words" from your vocabulary. Express yourself in a way that your listeners can understand.
5. **Surround yourself with great people.** One of the secrets of a great leader is great people. Hire the right staff, surround yourself with a strong inner circle, and spend time daily with people who have a variety of gifts. With the support of a strong circle of men, women and children, you will be ready for anything that comes your way.
6. **Develop a sense of commitment and responsibility.** People do not follow leaders who are not committed and responsible. Commitment and responsibility can be measured by the hours you spend and how you spend them, the money you spend and how you spend it, and by what you do for others. Spend 15 minutes each day

analyzing your time, your checkbook, and your volunteer work. Look closely at how much time you spend with family and friends as compared to work, how you spend your money, and how you give back to the community. You may be very surprised at what you find.



7. **Develop a positive attitude by altering your mind.** It is very possible to alter your attitude by altering your mind. Saturate yourself daily with motivational literature, positive people, and inspiring music/art. By conditioning your mind to be more positive on a daily basis, you will find that winning will be a daily reward of your life.
8. **Accept responsibility.** Great leaders never play the role of a victim. They recognize that part of being a great leader is being ultimately responsible for all successes and failures. On a daily basis, analyze your current projects, and ask yourself "Have I done all that needs to be done? What have I not done that I should?" Once you have analyzed each project, if you find a weakness, go the extra mile by working extra hours, hiring an outside expert, or getting really creative to repair the weakness or to turn it into a success!
9. **Make self-discipline a part of your lifestyle.** What do you need to develop self-discipline? Following a better diet or exercise routine? Getting up one hour earlier? Being rigorous with your spending? Learning something new every day? Eliminate excuse-making from your life, and begin to develop habits that will invite self-discipline to become the foundation of your life. Hire a coach to support you during the development of a routine of self-discipline, and remove rewards until the job is done!
10. **Develop courage by facing fear.** By a show of courage, you will inspire others to follow and to walk in your footsteps. Spend 15-30 minutes each day doing something simply for the sake of developing courage: speak to an audience, make a difficult phone call, learn a new skill, write an article or a top ten, or visit someone you have always wanted to meet. As Eleanor Roosevelt acknowledged: "You gain strength, courage, and confidence by every experience in which you really stop to look fear in the face. You are able to say to yourself, 'I lived through this horror. I can take the next thing that comes along.' You must do the thing you think you cannot do."

Swapnil Rani

Assistant Professor, Physics

Migration to 4G- A Challenge

Second-generation (2G) mobile systems were very successful in the previous decade. Their success prompted the development of third generation (3G) mobile systems. As all these systems have their own merits and shortcomings, there is no single system that is good enough to replace all the other technologies. We believe establishing 4G systems that integrate existing and newly developed wireless systems is a more feasible option. 4G systems provide facilities for integrated services. Users can use multiple services from any service provider at



the same time. Just imagine a 4G mobile user, X, who is looking for information on movies shown in nearby cinemas. His mobile may simultaneously connect to different wireless systems. These wireless systems may include a Global Positioning System (GPS), a wireless LAN (for receiving previews of the movies in nearby cinemas), and a code-division multiple access (CDMA) (for making a telephone call to one of the cinemas).

Pawan Chauhan

Assistant Professor, ECE

5D Data Storage

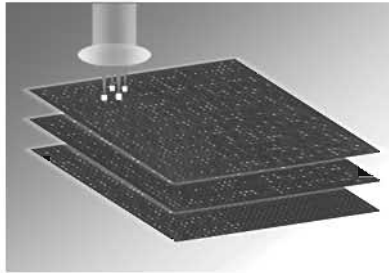


In conventional optical media, such as DVDs, information is stored by burn-ing tiny pits on one or more layers on the plastic disc, using three spatial dimensions. But two additional, optical dimensions can also be exploited for data storage. The new technique [Ref: IEEE Spectrum July 2013] invented by Jingyu Zhang uses a format which has five dimensions; three spatial and two optical dimensions, to store data with a density that allow more than 300 tera-bytes to be crammed onto a standard optical disc with additional advantages of thermal stability up to 1000°C and practically unlimited lifetime. But unlike an optical disc, which is made of plastic, the media is quartz glass.

When the data-recording laser marks the glass, it doesn't just make a pit: it changes two parameters of the birefringence of the glass, the Slow Axis Orientation (4th dimension) and the Strength of Retardance (5th dimension) in addition to three spatial coordinates, by controlling the polarization and intensity of the laser beam. The result is "5-D data storage". The slow axis orientation and the retardance are controlled by polarization and intensity of the incident beam, respectively. The laser writes to multiple layers of the glass, making for dense data storage.

Working: The intensity distribution at the focal plane is modulated via a spatial light modulator (SLM), which split the incident light into 256 beams. The hologram generated on the SLM is then reimaged via a 4-f optical system on the back pupil of the objective. In addition, a half-wave plate matrix, imprinted by the laser Nano-structuring of fused silica, is also added to the 4-f optical system for the motion-free polarization control. The combination of the SLM and a half-wave plate matrix allows the removal of relatively slow rotating and moving components for retardance and slow axis orientation control. The polarization direction is controlled by a half-wave plates matrix imprinted in silica glass. This ultrafast laser writing costs higher, though, since changing birefringence in glass requires fine control of a laser's polarization and intensity, but for a memory that will last a million years, this will certainly be a cheaper deal.

Bhoopesh Kumawat
Assistant Professor, ECE



Motorcycle with Canopy and a Hi-tech. Helmet: *Design for the future*



Anelectric motorcycle that doesn't requires its rider to wear a helmet. Yes, no helmet, no itchy hair. This is an extreme all weather electric motorbike that features a canopy cover like a shield to protect its rider from any danger, it offers the next level of safety for motorcyclists.

This auto-mastic canopy has been beautifully designed based on the riding position, in this way, the rider's legs are still free to maintain stability and have full control at low speeds, and at the same time, maximizing aerodynamics for high speed engagement. Folding Helmet Overatecan bear out of the collaborations between our company and a design agency based in India. The problem with wearing bicycle helmets is that the helmet becomes cumber-some after use; I don't want to leave it on the bike because someone might steal it, yet I hate to carry it with me. This innovative folding helmet design is like the answer to my prayers (all cyclists' prayers) for good looking, stylish and easy to carry helmet.

Bhanwar Veer Singh
Assistant Professor, ECE



How to Improve English Communication Skills



In today's day and age, having solid English skills is a must. It's becoming the language of the world and all of us need to keep up. But if you've been learning for a while and don't find yourself really communicating with ease, how do you get around the learning slump? You'll need a bit of ingenuity and dedication, but luckily it's easier now more than ever. You can learn it right now through some small steps.

Step One: Improving Your Speaking

Find native English speakers. In certain areas it's the hardest thing to do, but it's the best use of your time. Talking to actual native speakers is the most effective way to improve your English skills, speaking or otherwise. So whether you have to Skype them, call them, or beg them to speak to you, do so. Your progress will be faster this way than any other. **Watch people.** Watch how their mouths form the words. Watch how emotion is communicated. Watch where the emphasis goes on certain sentences and how that provides context. Apart from just deciphering their words, take notice of the humor, the feeling, and the formality they employ. **Slow down.** Above all, if you want to be understood, slow down. The more slowly you speak the better chance your listener has of understanding you. **Record yourself.** Though we hear ourselves all the time, we really don't know quite what we sound like. So record yourself! What are the weak and strong points you hear in your speech? And then you can concentrate on what you need to work on. A great idea is to get a book on tape, record yourself reading an excerpt from it (or mimicking the narrator), and compare yourself to the recording. **Speak English at home.** Make a point to speak it at home, too. Have only English at the dinner table. Stick to English TV at home. Make it as 24/7 as possible.

Step Two: Improving Your Listening

Talk. Really, passive listening is okay, but interacting is even better. If you want to get good at listening, you have to ask questions. And this way you have control of the conversation! **Be patient!** Your mind will get used to their accent in time. English-speaking people have to adjust for each other all the time. **Repetition,** watching TV shows and movies where you have same characters over and over, you can get used to their speech. **Have an English exchange.** If you have a friend who speaks English that is trying to learn a language you speak, start an English exchange! Half the time you speak your language and the other half you speak English. And you get to spend time drinking coffee and relaxing, too! If that's not a possibility, **find some friends who all want to practice their English.** Though practicing this language with non-native speakers isn't ideal, it's definitely way better than nothing. You'll be less nervous speaking it in front of them and you can learn from each others' strengths. **Listen to English music.** Even just learning a song a day can widen your vocabulary extensively. And it's fun and energizing, too. You can grow your musical repertoire, learn new words, and expand your knowledge without even realizing it. **Stick to songs that are slow and clear.** The Beatles and Elvis are two great places to start, though modern music is good, too -- just aim for the ballads; they're usually the easiest to understand. Rap can wait till later.

Step Three: Improving Your Writing

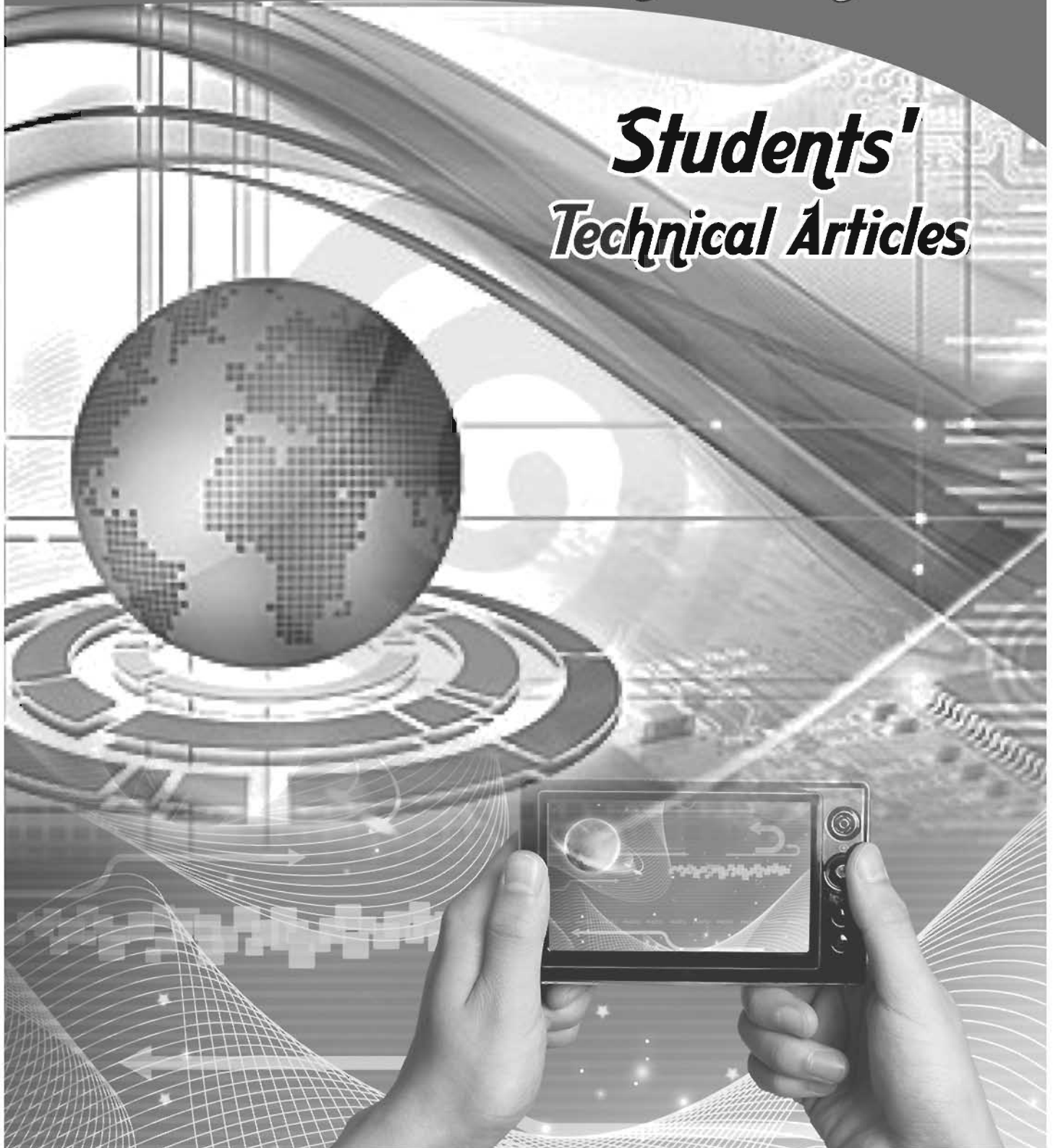
Write. It's as simple as that. To get good at something, you have to do it. You have to do it over and over and over. So write every day. It can be a diary entry, it could be your next bestseller; it doesn't really matter. Just put that pen to paper and get going. **Keep it all in one place.** Having a notebook or binder dedicated to your English work will keep you organized and motivated. The better you get, the easier it will be to see your progress. You can look back and marvel at how bad you used to be and how awesome you are now. **Get it checked.** However, it's truly pointless if you don't ever get it checked or corrected. You want to get better at the entire language, not just the language you're capable of right now. You have two options here: The Internet. It's amazing; it really is. Sites like italki.com and lang-8 can correct your work for free! A friend obviously. But the great thing about writing is that you can email your friend and wherever they are, they can get it, correct it, and get it back to you. **Add phrases to your vocabulary** whenever you run into a phrase you want to start. *Happy learning.*

Soni Vijayvargiya

Assistant Professor, Department of English.

Techno Crazy' Sight:

Students' Technical Articles



What to Look for when Buying a Desktop Computer

Desktop computers normally have more processing power than notebook computers, tablet computers, and netbooks; they also give you more equipment for your cash. These smaller computer devices may be more practical for transportability, but if you have the workspace in your home and you don't need to be working on the move, a desktop computer is what you should buy.



The **motherboard** is the main electronic board that all the major components like RAM, (main memory), graphics card (or graphics chip), DVD drive, hard drive, sound card (or sound card chip), are attached to. The motherboard is the main interface for all communications between devices and components in a computer. **CPU** is the brains of a computer and it does most of the computation processes for it. You need to buy a computer with the fastest CPU that you can afford; this is because it has the biggest impact on how quickly your computer is going to run. **RAM** is where all of your work or information is kept temporarily for the short term until you save it to permanent media like your hard disc drive, DVD disk, USB drive, etc. Having lots of fast RAM will help your software programs load quicker, you will also be able to have more programs open at the same time. If you have lots of fast RAM, you will definitely notice how much quicker your computer works. Today's RAM is measured in GB's (Gigabytes) and the speed of the RAM is measured in MHz (Megahertz). You should look for fast memory that has lots of Gigabytes. The RPM tells you how fast the drive spins, for example a drive that spins at 5,000 rpm is (generally speaking) slower than a 7,200 rpm drive. The other main factor that affects how quickly you can access your information from a hard drive is the amount of **CACHE** that it has. Cache memory is a temporary storage area of memory that is built into the CPU and hard drives. This type of memory tends to be used to store data that is frequently used and it can be accessed much quicker than normal RAM. If you open and close a software program on your computer you may notice that it loads quicker when you open it again, this is because it already has that information stored in cache memory. Cache memory is rated in MB's (megabytes), so if you have 64 Mb of cache on your hard drive it is much better than having only 16MB's. Hard drives have a speed of access time that is measured in MS (milliseconds), this speed tells you how quickly a drive can read and access information, the smaller the number in milliseconds, the faster the access time of a drive.



Modern hard drives have much lower power consumption and are very quiet when your computer is on. typically adequate for many people, however, when you want to play the most up-to-date online games, make use of your computer as a recording studio, use high-end graphics, video, or multimedia software, a computer system that has more hard drive storage capacity and memory, and one that has a much better quality audio and visual specification, is a must.

Aditya Gour
II Year, CS

Taking Care of Your Printer is Easier than You Think

Households can have various printing needs and demands. Usually, these devices are for school work and for business. However, a person who always uses a printer should also know how to take care of it. So it means the printer must be maintained for longer use and purpose. So if you do have this equipment, make sure that you know how to maintain its functionality. Aside from saving your money when you buy a new one, this means getting the most out of your past purchase. Moreover, you can save time and effort instead of bringing the printer to a service center because of unwanted damage repairs. So how can we take care of our printers?





You need to ensure that ink is available in your cartridge. The cartridges in printers are very sensitive so you need to check on them. You can easily see the container level with the label attachment. There is usually a limit on the ink availability in the cartridge. This means you can have it refilled or simply buy a new container. When you do the printing, you can still maintain the quality of the prints. There will be no ink mess on the paper and you can easily have documents that are clean and perfect. You should be able to monitor the ink every month if you do the printing regularly.

You should also recognize the integrity of the printer parts. There are some instances when broken printers are due to stuck papers or loose parts. This is possible when it comes to old brands and models. You can easily just monitor the integrity of the printer by daily inspection. There must be no jammed paper or broken parts. One should see if the paper drums are able to accept papers when printing. There should also be a way to monitor the electrical systems of the printer. The cables should be attached with proper settings. You can then isolate other possible problems. You can also prevent any damages from electrical shocks and injuries.

One more thing to realize is the proper function of the printer. If you already have a brand new unit, make sure to understand the operations first. So you can prevent any damages due to misuse. Of course, the important benefits of using it without any troubles. Just read the manual and learn everything about it. For sure, the manual will also have a specific section about troubleshooting. This is usually included so that each client will know what to do for printer problems. But you can always count on a hotline if you have any troubles with the printer. This service is usually free of charge if the unit is covered by a warranty.

Anurag Mathur
II Year, CSE

Lotus Notes: Smart Application!

There is no doubt that managing personal and professional life together is very difficult for everyone. If you are also finding it difficult then there are a number of ways that can help you in this regard. With the support of one smart application that is none other than android lotus notes, one can conveniently manage his dual roles. This is the application which is available in the market from the past four years and offering numerous benefits to the users. These are the apps grabbing huge attention of the people, these days. If you are in search of a smart application that can easily manage your personal and professional life then android lotus notes is the best option to opt for. These innovative apps have grabbed a huge attention since its inception in the market. At present, there are several service providers facilitating their clients with the best services and that too as per their budget limit. Individuals who have installed lotus note platform for mails and also using Google calendar should consider paying attention towards an app that can efficiently help them in terms of synchronizing the lotus note platform with their Google service. If you are in search of a smart application that can easily manage your personal and professional life then android lotus notes is the best option to opt for. Today, you can enjoy both the services together on a latest Smartphone with great ease. With the support of lotus notes applications, you can easily fulfill your desire of synchronizing the lotus platform with your Google calendar service. This application has been especially developed to cater the needs of the people who use this software platform and Google calendar both. This application can help people to share their plan on Google calendar list of people conveniently. Thus, people can now plan their schedules with the support of this smart app. currently, there are a number of suppliers available online offering this app. So, you would not find any kind of difficulty in terms of getting this app. An online store can surely help you to get this app conveniently.



Swati Saxena II Year, CSE

Android Kitkat

So, after a little gap of announcement of Android 4.3, Google has announced the name of next iteration of Android i.e. Kitkat with version 4.4. After returning from a "whirlwind trip from Asia" to visit Android manufacturer partners, Sundar Pichai, Vice President of Chrome and Android, confirmed that next version of Android will be named Kikat. This is the name of Chocolate manufactured by Nestle. It will be the version 4.4. Google ended the rumours that next version will be Android 5.0 "Key Lime Pie". With Kitkat, Google is following the



name of introducing Android versions in alphabetical order, on the names of desserts.

This is the first time when Google unveiled the name before the launch of platform. Director of Android partnership John Lagerling told BBC that Google actually planned name of next Android platform will be Key Lime Pie, but actually very few people actually know the taste of Key Lime Pie. So company decided to change the name to something which is people's favourite and also unexpected.

What's more amazing is, 50 million Kitkat bars will be sold in 19 countries promoting Android 4.4 and will also give buyers the chance to win Nexus 7 and Google Play Gift cards. There are also 500 specially prepared Kikats

which have the shape and look of new Android

Google said "It's our goal with Android KitKat to make an amazing Android experience available for everybody." It may be possible that upcoming smartphones such as Nexus 5 and others, smartwatches, gaming consoles and even laptops will run on Kitkat.

Ritesh Singh
I Year, ME

Types of Malware: To Be Aware Of

Computers, laptops and even smartphones are constantly exposed to different malicious programs aimed at causing various damages to the system. These nasty programs are generically known as malware. Malicious software (or shortly malware) is any type of software which can be harmful for your computer. Let's have a closer look at the most common malware types you should be watchful of.



Bots and Trojans : A Bot (short for Robot) is an automated program which allows your computer to be operated by other users. Generally, this malicious software infects several computers which allows sending a huge amount of spam email messages or executing Denial of Service attacks.

A Trojan (short for Trojan Horse) can be contracted with an email message or a usual file download. This software inserts a so-called backdoor to the system making it accessible to the unauthorized users.

Adware and Spyware : Adware and spyware programs are usually contracted when surfing the Internet. The main aim of adware is to expose Net surfers to commercial ads. For example, adware may cause a browser directing you to websites you did not plan visiting, or may trigger the appearance of pop-up advertisements on your computer. Generally, this malware is not dangerous, but its effects can be quite annoying.

Contrary to adware, spyware can be extremely harmful. This piece of software steals information from your PC and sends it to a third party. Spyware may steal your personal or financial information, passwords, bank account details, fax/telephone numbers, addresses, etc. At the same time it can collect information about your browsing habits. This

may be information about the sites you visit or files you download.

Viruses : Viruses are the most common malicious programs which have been around for quite a long period of time. Several decades ago viruses were mainly distributed by means of physical media, like floppy disks. However, in the days of Internet technology viruses are distributed online (via hidden documents or email attachments). At the same time, this type of malware can be contracted anytime you connect any type of physical storage (MP3s, flash memory sticks, etc) to your computer. The effects of catching computer viruses can be different, from minor annoying troubles to the severe damages of files and hardware.

Keyloggers : This type of malicious software is extremely dangerous, as it helps executing the most harmful online activity - identity theft. A key logger records everything computer owner types on the keyboard. This software allows cybercriminals getting access to passwords, logins, bank account information and codes a computer owner uses to access secure information.

With a wide variety of malicious programs ready to attack your PC, you need to learn how to protect yourself and your computer.

By **Vikram Panwar**
II year, CSE

A Car that's ready for Take-off

When you talk about the Transition, created by Terrafugia, Woburn, MA, it isn't too long before someone mentions "The Jet sons." But you won't hear the founder of the company start humming the theme song just yet. Aerospace engineer Carl Dietrich is quick to caution that his company's invention of a 115-mph hybrid plane-car will not be leading to everyone literally flying to work in the next five years. Still, when you mention 40 years, he pauses. Could it be the start of a revolution? "It has that possibility," he says. "We're rolling it out slowly through people making orders. If we can get 80 a year, we turn a profit. Can it grow from that? I don't see why not."



Neither does futurist and former Jet Propulsion Lab Fellow David Brin. He points out that those who can afford the finer things often lead the way. With a retail price between \$200,000 and \$250,000, it will clearly be a select group to take the Transition leap. "This will definitely appeal," Brin says. "It partly comes from the problems in airline service. The well-off no longer fly commercial like they used to. This is a side effect of 9/11. They don't want to deal with things

like frisking. When a means of travel is abandoned by the wealthy, it rapidly deteriorates. It happened to the railroads after World War II. It can happen again."

Of course, the change may go beyond the present transportation industry, as roads could suddenly have less traffic. But before you conjure images of the skies being bumper to bumper, Dietrich is quick to point out that local airports have a large amount of room for flights. "There would need to be a ton of these kinds of aircraft in the air before congestion would ever be a factor," he says. "It's amazing to even think of that."

Shreyansh Jain
III Year, ME

Cloud Computing Skills are Skyrocketing



According to a report from Wanted Analytics, a talent research firm, the demand for cloud computing skills has exploded with hiring for cloud computing expertise growing 61 percent year over year. According to the report, over the past 90 days employers and staffing firms have placed more than 10,000 job ads that included cloud computing skills and experience as requirements. Those ads came from more than 2,400 companies in that 90-day period, which ultimately pushed cloud hiring demand 61 per cent year-over-year. Solution providers are seeking cloud-ready employees to bring their businesses to the next level. Additionally, a host of major IT companies, including HP and others, have launched cloud-specific certifications to arm the market with cloud skills and competence. The cloud computing market is evolving at such a pace that while the number of job postings is skyrocketing, the talent isn't there to fill the positions.



Among the most common positions that require cloud computing experience are computer specialists and programmers, but the recent cloud boom has also created a major need for cloud expertise in software and cloud applications. San Francisco represented the metropolitan area with the highest volume of job postings and ads seeking cloud computing skills during the past 90 days. According to Wanted Analytics, San Francisco-area recruiters placed more than 1,000 unique job listings, representing growth of 95 percent year-over-year. San Francisco was followed by Seattle, San Jose, Washington DC and New York. San Jose was the only location to see a decline in the year-over-year volume of online cloud job postings, which dipped to 12 percent fewer than in the same 90-day stretch last year. Meanwhile, Wanted Analytics found that recruiting for cloud computing is likely moderately difficult and conditions vary based on talent supply and hiring demand per location. For example, Washington DC has some of the more difficult recruiting conditions in the US, Wanted Analytics said, which creates a longer time-to-fill and job ads that are posted online for longer than the national average of 44 days. The cloud job push also extends beyond IT jobs. Positions including marketing managers, sales managers, customer service representatives and cargo and freight agents are also requiring cloud computing skills. "Overall, hiring demand for cloud skills for jobs that are not IT-related has been strong," Wanted Analytics said. "In the past 90 days, there have been about 3,300 job ads posted online by employers and staffing firms, representing a 70 percent year-over-year growth."

Divyesh Bhatnagar
III Year, CSE

Smarter Future: Phone Application Development



Mobiles have changed over time. And they are evolving every day. Increasing number of companies, and different platforms has created a wide range of options to choose from. With minor similarities in the base program, the supporting platform has been modified creating versions. Technology development at its best is seen with mobile phones. The evolving software and the regular updates of the mobile platforms often render the applications useless. Keeping up with the cutting edge technology is most essential when it comes to mobile app development. Applications range from media, photos to video processing and many more, in various platforms like Java, android, hybrid, iOS and many others. With a huge variety of supported programming languages including some high level object-oriented languages the development has been made easier.

Mobile application development not only requires programming for the development of the functionality but also a design. 'Design' provides the effect on the user along with the functionality of the application. With the changing trends, mobile app design is not at all lagging behind. The modern mobile platforms are equally compatible with the

responsive design approach and supports HTML 5 and CSS 3. With changing design trends the languages too are changing. Inclusion of the languages like C, C++, objective C, java, java script, and many more has rendered the compilation and the development much easy along with increasing demands and complexity. The platforms are developing and so is the language that supports the application framework. With the increasing concept of object-oriented programming, the functions have changed and so has the concepts of DBMS or Database Management Systems. Displays are now coming with more dpi, and much better resolution creating a havoc change in the conventional design patterns and thus the increasing development of the supported design platforms in the operating system of the mobiles. The latest addition to the world of mobiles is "Windows". It has the capability of supporting all the major high level languages, OOP concepts, and other application based framework platforms.



Technology has not only changed the operating system of the mobiles but also the technical structure. The simplest example would be the internal memory of the phones. That is perhaps the most minor part of the advancements all together. Modern day phone comes with processors, the speed of which is almost 2.4GHz. This advancement in nanotechnology field has created an expectation more than that of average. With this kind of technical specification the mobile can handle more and more heavy application with much better efficiency. The simultaneous change of technical aspects along with the operating systems has rendered a huge platform for the development of mobile application. The development of the applications has been merged with satellites and is now capable of receiving data from them directly.

The technology that is under development, and is about to create the next revolution in the field of mobiles. Although it is a project completely under research, but the next generation phone would be based on sixth sense.

With technology the operating systems have changed, along with the technical aspects of the mobiles creating a huge expanse of development, design for mobile apps.

Abhishek Sihag
II Year, CSE

Robotic Fire Fighting Vehicles

Fires create dangerous conditions, but fires at some locations, like flammable or explosive material storage areas and nuclear power plants, are too hazardous for human fire-fighters to enter.

Fire and rescue organizations now have a new option: Fire Rob, the MVF-5 Autonomous Fire fighting Robotic Vehicle. Manufactured by Croatian manufacturer DOK-ING, Fire Rob is a specialty fire fighting vehicle that a single operator can direct on the ground by remote control. It extinguishes fires without intervention of fire-fighters with high-pressure cannon on a hydraulic arm that pumps water up to 55 m away. It carries 1,800 L of water and 600 L of foam in its two on-board tanks. DOK-ING says it was inspired by video games.



It looks like a small tank and can be used in locations where traditional fire fighting vehicles cannot go. The manufacturer claims, it turns on a dime and is able to climb and move through challenging terrain. It is powerful enough to tow objects to safety or push objects out of the way, clearing a path for traditional fire fighting vehicles.

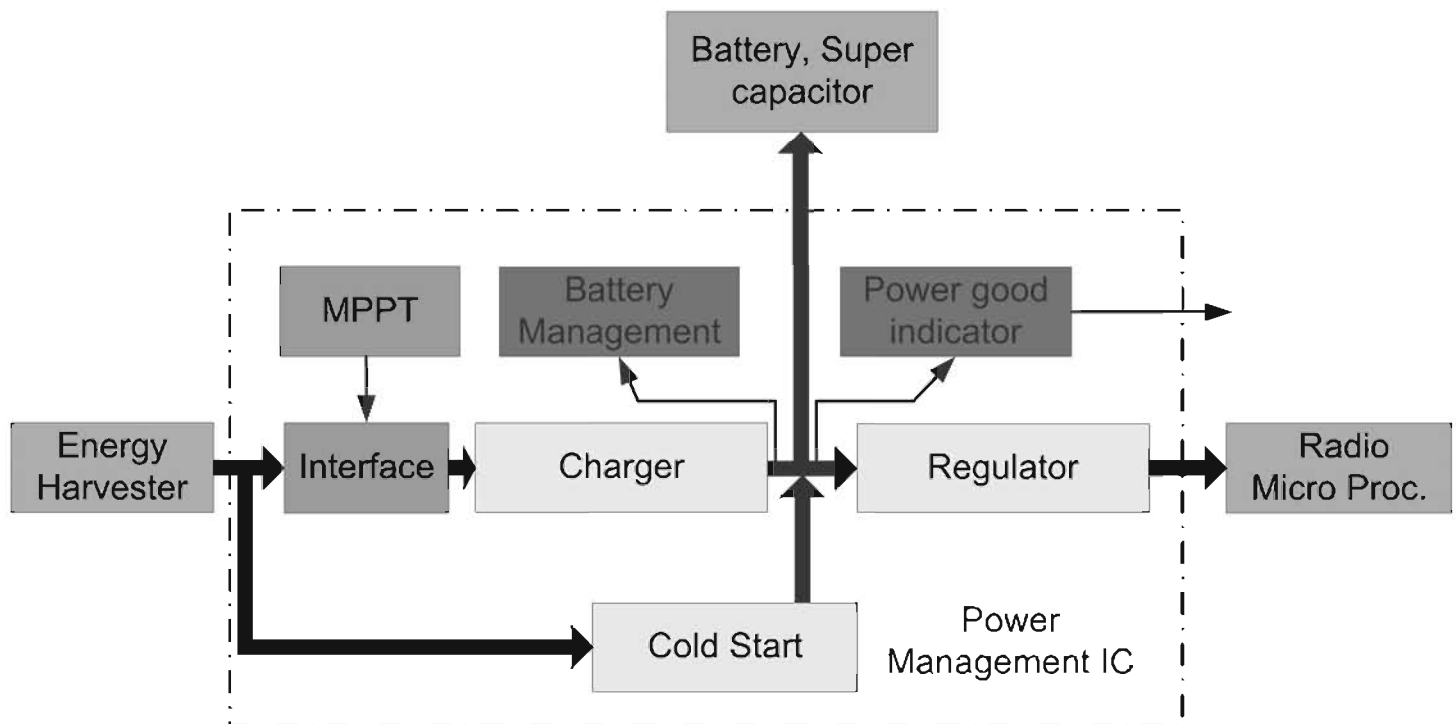
It punches through objects such as walls and it grips, lifts, and removes objects and obstacles with its blade-tool attachment at the front of the vehicle.

Abhineet Singh Sachdeva
I Year, ME



ELECTROMAGNETIC HARVESTING

The omnipresence of electromagnetic fields is implied just by simple current flow. We are surrounded by electromagnetic fields which we are producing for information transfer or as a byproduct. Many of those fields are very capacitive and can be harvested with coils and high frequency diodes. Accordingly, I built special harvesting devices that are able to tap into several electromagnetic fields to exploit them. The energy is stored in a usual battery. So you can for example gain redundant energy from the power supply of a coffee machine, a cell phone or an overhead wire by holding the harvester directly into the electromagnetic field whose strength is indicated by an LED on the top of the harvester.



Dennis Siegel, a digital media student, has developed a small wireless device used to harness electromagnetic fields. The device uses the fields to charge up AA batteries. The use of Electromagnetic Harvester is in holding it up to any electrically charged object which gives power to the battery. Whether it is static from a thunderstorm or the waves leaked from an antenna. The energy slowly starts transferring through charging the AA batteries. Depending on the strength of the electromagnetic field, it is possible to charge a small battery within one day. The system is meant to be an option for granting access to already existing but unheeded energy sources. By exploring these sources it can create a new awareness of the invisible electromagnetic spaces while giving them a spatial dimension.

There are two types of harvester for different electromagnetic fields: a smaller harvester that is suitable for lower frequencies below 100Hz which you can find in the general mains (50/60Hz, 16,7Hz) and a bigger one that is suitable for lower and higher frequencies like radio broadcast (~100MHz), GSM (900/1800MHz) up to Bluetooth and WLAN (2,4GHz).

Aviral Vijay
III Year, EC-A

The INS Vikramaditya



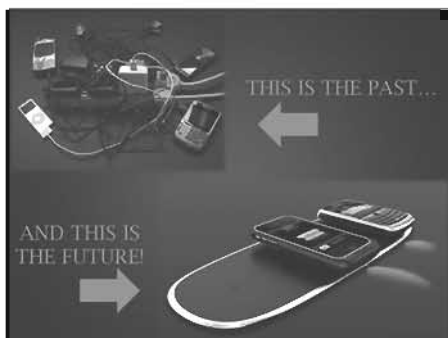
The INS Vikramaditya was formerly known as Admiral Gorshkov. It was offered to India by the Russian government after India was looking for a replacement for INS Vikram. Negotiations with the Russian government started in 1994 to acquire Admiral Gorshkov. Standing at a length of 284 m it will have naval combat aircraft MiG 29k along with Kamov 31 and Kamov 28, anti submarines warfare and surveillance helicopters. The aircraft carrier weighs 44, 500 tonnes. INS Vikramaditya weighs 44, 500 tonnes. About 40 percent of the carrier is original whereas remaining is newly retrofitted and upgraded with the entire process amounting to \$2.3 billion. However it lacks in its own air defence missile system. The Indian Navy chose Barak Missile, which will be fitted on the carrier once it arrives and this will help in protection from aerial attacks. The carrier is renamed after legendary emperor of Ujjain, Vikramaditya, who is known for his strength and valour. Defence Minister AK Anthony arrived in Russia for the commissioning of INS Vikramaditya, which will arrive in Karwar after its two month voyage. An escort group of warships will be side by side INS Vikramaditya enroute to the India.

Some facts on INS Vikramaditya

- To start with Indian Army, as always has the lion share in defence budget, this time of 49%. Air force, 28%. Though Navy is allocated 18% of the defence budget it is already an increased one.
- Unfortunately this carrier does not have protection against air attacks(neither air missiles nor close in weapons), however it has ability to become invisible on radar through its electronic warfare systems.
- The Military build-up at Andaman and Nicobar gives India a key geostrategic edge.

Naveen Kumar Jatav
III year ME

Wireless Charger Transfer



Wireless charger may one day replace plugs and wires similar to how WiFi and Bluetooth have modernized personal communication. Wireless charging breathes new life into application where traditional contact method of recharging is unreliable. Wireless transfer of power is not new. In 1831, Michael Faraday discovered induction and stated that electromagnetic forces can travel through space. Wireless chargers use inductive charging technology the process of transferring energy between two objects through the use of induction coils (using Direct Induction followed by resonant magnetic induction). Radiation is the form of microwaves or laser

and electrical conduction through natural media. The receiver must be directly adjacent to the transmitter or induction unit in order to efficiently couple with it. (Performance can be further improved by modifying the drive current from a sinusoidal to a non-sinusoidal transient waveform).

Simply these coils produce a magnetic field which sends energy from a charging base station (transmitter) to a coil on a portable device (receiver) via a process called inductive coupling.

The electrodynamics induction wireless transmission technique is near field over distances up to about one-sixth of the wave length used

Benefits of wireless chargers:

- Electronics can be fully enclosed, reducing the risk of corrosion due to elements such as oxygen as water
- Manly for smartphones.
- Wireless transmission is useful in cases where interconnecting wires are inconvenient, hazardous, or impossible.
- Potential applications are Power tools, medical devices, e bikes and electric cars (EVs).
- Make devices safer by eliminating the sparking hazard associated with conductive interconnectors.

Sourabh Kumar Lakhmara
IV year, ECE.

Boosting PC Penetration

The MAIT-sponsored KPMG report on ways to increase PC penetration in India is a welcome initiative though a few years late.

According to the report, PC sales are expected to grow at a CAGR of 6 percent from 11 million units in FY2012-13 to 15 million units by FY2017-18. During the same period tablets are expected to grow at a CAGR of 73 percent from 1.9 million units to 51 million.

Today India ranks the lowest among emerging countries in PC penetration. With just 10 percent PC penetration among households, it is way behind Malaysia's 64 percent, Russia's 57 percent and China's 35 percent. The report highlights issues impacting PC penetration in households, MSMEs, large enterprises and the government.

A key challenge to PC penetration in Indian households is their limited perceived utility, high ownership cost and lack of localization to appeal to rural India. KPMG has recommended a reduction in indirect taxes on IT hardware; this includes lowering excise rates on hardware from 12 to 6 percent and increasing the abatement on MRP from 20 to 35 percent to align the duty structure with mobile phones. The report calls for aligning the CVD rate on components with other inputs such as microprocessors and HDDs where the CVD rate is 6 percent.

KPMG believes that the government should provide tax exemption to individuals against PC purchases, and that the industry and the government should devise purchase schemes for segments such as students and households with annual incomes of less than Rs 5 lakh. On the MSME front, the challenges include low perceived utility of IT in the core business and the high cost of software. KPMG notes that despite good government schemes there is low awareness in this segment. For instance, many MSMEs are not aware of the IT spend component in the existing Credit Linked Capital Subsidy Scheme. Among large enterprises the key challenge is mostly about lack of incentives to refresh technology. KPMG has recommended a depreciation policy that allows 175 percent deduction of expenditure on IT hardware from business income.

To increase IT penetration and use in the government segment, KPMG contends that limited flexibility in the ERV clause impacts procurement during adverse currency movements and recommends that the government should consider revising the clause and add more flexibility. It also recommends making IT education and training compulsory for existing government employees and job aspirants.

While many of these recommendations are not new, and various industry bodies including MAIT have been lobbying for them, a few of the recommendations, if implemented, can help boost IT penetration in India.

Divyesh Bhatnagar
III Year, ECE





What-if Analysis

Also defined as sensitivity analysis, what-if analysis is a brainstorming technique used to determine how projected performance is affected by changes in the assumptions that those projections are based upon. What if analysis is often used to compare different scenarios and their potential outcomes based on changing conditions.



The Benefits of What-if Analysis : Conducting a what-if framework is beneficial in several ways. Not only can you make better and more informed decisions by changing assumptions and observing or estimating the results, you are also better able to predict the outcome of your decisions. For example, if you have conducted sensitivity analysis before deciding to increase your prices, your decision is less risky than if you didn't go through this exercise. After all, you've already determined how the price increase will affect your business. In addition to providing you with a glimpse into the future, sensitivity analysis leads to faster decisions.

Using Sensitivity Analysis in a Business Plan : While sensitivity analysis is often used by researchers, analysts, scientists, and investors, it also makes sense for start-up entrepreneurs and small business managers. After all, starting and managing a new business involves uncertainty and risk. By asking what-if questions and running a financial simulation, you can make better decisions as well as demonstrate the strength of your business plan to investors.

Look for software application that has what-if functionality built in. Business planning software typically walks you through the process, prompting you to answer questions and fill in the blanks. With a built-in "what if" modeling tool, you can ask your own questions and address the risks and uncertainty surrounding your start-up. These are powerful tools that can help you make better decisions, prove your company's viability



under various scenarios, answer questions bankers and investors may have, and guide you toward creating the strongest business possible. What if you could see into the future? How would it affect your decisions?

Or, you could create a business plan that addresses a wide range of likely scenarios? You can. What-if analysis comes built into some of the best business and strategic planning software on the market. Make a smart decision now by choosing strategic planning solution with this vital tool built into it and make even smarter decisions in the future.

Sakshi Jain
II Year, CSE

Engineering Jobs in India

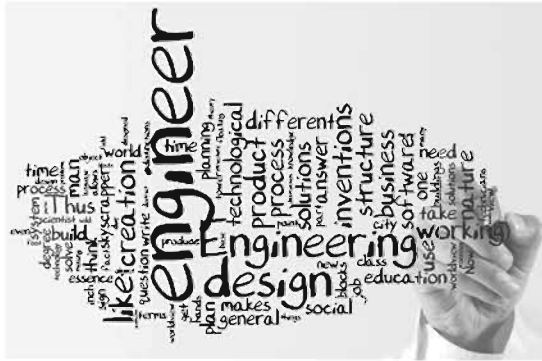
Engineering is extremely versatile field that offers an infinite array of specializations. Almost every aspect of the modern economy has been invigorated by engineering technology. It offers lots of career prospects to individuals upon graduation.

Engineering is a field that deals mainly with design, manufacture and the latest in cutting edge technology. Today, India is a rising economic superpower and the rapid industrial growth has opened up a plethora of opportunities. If one has the requisite skills, and a good academic record, then there is a huge scope for a good career due to the huge employment opportunities.

Some of major specializations in engineering where job opportunities have opened up recently are civil, mechanical, electrical and electronics, automotive, food production, software and aerospace.

For electronics engineering students, opportunities are available in private and government companies for the installation, operation and maintenance of critical equipment and systems. Other areas of scope include signal processing and telecommunication. Graduates of instrumentation and control engineering can find employment in





production and manufacturing industries, automobile manufacturing plants, computer hardware, networking and communication systems.

With the infrastructure boom accompanying the economic growth story, civil engineering students find employment in turn-key construction projects for highways, bridges, dams, building projects and others in both the private and public sector. Those with entrepreneur mindset start their own concern to undertake projects once they have achieved a certain level of experience. Those from a mechanical background find employment in automobile industries, tools and machine manufacturing companies, petroleum and oil industries, power plants and the Indian railways among others.

India has emerged as a key software hub and provides services to companies worldwide. The field of IT is this one of the key areas of opportunity and many IT graduates find employment in software companies. Aside from the well known names like TCS and Infosys, there are also a number of upcoming firms that open their doors to new talent.

The availability of skilled talent at a reasonable labour cost has ensured that the axis of manufacturing is slowly shifting towards India. With the growth of communication, the world has shrunk to be a global village and new avenues of engagement are continuously opening up. Many of the engineering colleges have upgraded their infrastructure, shifted focus on modern methods and have tie-ups with leading universities the world over to give complete knowledge to students. The engineering education system in India is thus sound and gives a complete understanding of the theoretical and practical aspects of any field. Surely with emerging economic growth, the scope for engineering jobs in India will only increase further.

Engineering is an extremely versatile field that offers an infinite array of specializations. Every year, thousands of youth graduate from Indian universities in a variety of areas. In this article, we take a look at the scope of engineering jobs in India.

Pankaj Balani
II year, CS

Entrepreneurship: The First Step

An entrepreneur is who searches for change, responds to it and exploits opportunities. First of all, customers are the people that will ultimately decide if your business goes boom or bust. A good entrepreneur should always remember that it's all about the customers. This journey starts from the generation of a new idea and never ends because the road to the success is always under construction. A great example of this field is Mark Zuckerberg, who started the FACEBOOK in his college life and now he is listed in 100 Wealthiest and Most Influential People in the World. Having a positive business image and a forward looking approach, an entrepreneur should start his journey with a small but strong team. An entrepreneur should have leadership qualities and innovative and influential communication skills which will help him in building a rock solid reputation and a good relation with the customers. A good entrepreneur needs to be able enough to turn every obstacle into an asset and that obstacle is RISK. It is all about the risk therefore one should have risk tolerance abilities and for this, an entrepreneur should limit the number of hats he wears. An effective entrepreneur is who invests in himself and becomes a shameless self-promoter because entrepreneurs are non-fixed income earner who pays known cost of production but gets uncertain incomes. "The secret of getting ahead is getting started."



Abhishek Shekhar
II Year, ME

Advantages of Engineering



Throughout human history, engineering has driven advancements in civilization.

From the metallurgists who ended the Stone Age to the shipbuilders who united the world's peoples through travel and trade, the past witnessed many marvels of engineering prowess. As civilization grew, it was nourished and enhanced with the help of increasingly sophisticated tools for agriculture, technologies for producing textiles, and inventions transforming human interaction and communication.

Inventions such as the mechanical clock and the printing press irrevocably changed civilization. In the modern era, the Industrial Revolution brought engineering's influence to every niche of life, as machines supplemented and replaced human labour for countless tasks, improved systems for sanitation enhanced health, and the steam engine facilitated mining, powered trains and ships, and provided energy for factories.

In the century just ended, engineering recorded its grandest accomplishments. The widespread development and distribution of electricity and clean water, automobiles and airplanes, radio and television, spacecraft and lasers, antibiotics and medical imaging, and computers and the Internet are just some of the highlights from a century in which engineering revolutionized and improved virtually every aspect of human life. Engineering solutions are always designed with economic considerations in mind — for instance, despite environmental regulations, cheaper polluting technologies often remain preferred over more expensive, clean technologies.

Engineers also design formidable political obstacles. In many parts of the world, entrenched groups benefiting from old systems wield political power that blocks new enterprises. Even where no group stands in

the way of progress, the expense of new engineering projects can deter action, and meeting many of the requirements which are unprecedented levels of public funding.

Thus, it can be said that engineering provides infinite number of solutions and advantages to the modern society. And we can hope that it will continue to do so in the forthcoming future.



Yakeen Sohu
I Year, CE

Alphabets are so intelligently arranged.....

"A"lways "B"e "C"ool "D"on't have "E"go with "F"riends "G"iveup "H"urting "I"ncidences "J"ust "K"eep "L"oving "M"ankind "N"ever "O"mit "P"rayers "Q"uietly "R"emember God "S"peak the "T"ruth "U"se "V"alid "W"ords "X"press "Y"our "Z"eal.....

Abbreviations which are not known to many of us-

CHESS : Chariot, Horse, Elephant, Soldiers.

COLD : Chronic Obstructive Lung Disease.

JOKE : Joy Of Kids Entertainment.

AIM : Ambition In Mind.

DATE : Day And Time Evolution.

EAT : Energy And Taste.

TEA : Taste And Energy Admitted.

PEN : Power Enriched In Nib.).

SMILE : Sweet Memories In Lip expression.

BYE : Be With You Everytime



Ayush Pareek
II Year, ECE

Smartness of Smart Phones



In this era of technology, mobile phones are one of the most fascinating technologies that we use the most. Mobile phones have come a long way from just a medium of communication to one of our best mates. Today, it is very difficult to spend even a single day without the mobile. If our phone breaks down, it makes us quite nervous.

Nowadays, mobiles come bundled with a lot of features. It's like many of the gadgets are mixed together and made into a single powerful gadget with the main features of all. Mobile serves as an iPod for listening to music, as a digital camera for taking high resolution images, as a handy cam for making videos, as a computer for browsing the Internet and playing games, etc. Though it's not as good as using the individual gadgets but still the output is quite satisfying. If the advancement in mobile technology continues at this pace, we might observe new inventions in the field of individual gadgets applied to mobiles as well. This means that the mobile will be as advanced as the individual gadgets it is made up of.



You can now access the Web from virtually every handset, although it's still expensive to do it on a regular basis, since data bundles can be expensive if you go over your limit. But you can subscribe to receive news or sports updates texted directly to your phone, so you can be in touch on what's happening very easily.

If you want to exchange instant messages with your friends, some sets can connect to Windows Live Messenger or Yahoo. There's now even a Face book phone for those who love social networking sites, meaning you can update your status, with applications that will even put you in contact with those local to wherever you might be at the time, thanks to the power of GPS systems.

These days cameras are standard on mobile phones, sometimes with picture quality as good as many stand-alone digital cameras, as well as the ability to shoot short

movies and send them to others. But you can also have music on your mobile, downloading MP3s from your own collection to store and play back, or taking out a subscription to a music service that lets you download and play tracks on your handset for as long as you keep paying.

Some 3G (third generation) handsets can receive television broadcasts. However, before you start doing this you should take a look at the data bundle included in your contract, or it's going to cost you a lot of money when the bill arrives, since around four minutes of viewing can spend up to one megabyte of data.

We're in the era of the Smartphone these days, a term that's bandied around freely without being clearly defined. It's fair to say that it's a handset that can also function, at least to an extent, as a computer. It has an operating system, just like a computer, and you can use it as a phone, an entertainment center, e-mail to and from it. They include Android, iPhone, Blackberry among others.

Aditya Kumar
I Year, ME

PROMOTING ENTREPRENEURSHIP IN INDIA

It's a known fact that India, today, is an emerging economy that is destined to achieve milestones, on various fronts, in the near future. However, for India, to acquire the status of a "developed" nation, it needs to create 100 million jobs, statistics point out!

Experts confirm, in an endeavour to achieve this mark, tapping the potential of the unemployed and exploring opportunities in the employment market, so that each and every person plays a crucial role in contributing towards the growth of the Indian economy is necessary. However, how can one create 100 million jobs? And the million-dollar question is which industry will absorb people and bridge the employment gap? While experts are busy contemplating the possibilities of the army, the railways, the government and the private sector to recruit, speculations about the difficulty in employing in such huge numbers continue to persist.

So, is there any solution to this problem? The answer is entrepreneurship! With several organisations understanding the importance of entrepreneurs and the ways in which they can create jobs for the unemployed, thus paving the way for an enriching economy, they are partnering with several expert bodies such as institutes, financial firms, etc. to foster all kinds of entrepreneurship- rural, ICT, social, etc.

Partners in growth

India has almost 300 million youth, but only 100 million jobs. Therefore, the country faces a 200 million employment gap. And Amy Christen, Vice President, Corporate Affairs & General Manager, Networking Academy Operations, Cisco Systems, Inc. believes that this gap can be bridged through self-employment and entrepreneurship-driven employment.

"We strongly believe in the entrepreneurial spirit of India's youth. In order to support entrepreneurship, the right framework, funding and mentoring needs to be provided. Entrepreneurs and small businesses are always most vulnerable in times of crisis when funding becomes dearer and difficult to come by.

If you look at the last two decades of economic growth, it has been, solely, due to the rise of various entrepreneurial start-ups in this country, primarily in the IT and ITseS sectors, experts say. Entrepreneurship, even in the future will drive economic growth, they confirm. "In the next two decades, I foresee an opportunity in the social entrepreneurship domain that will positively influence the global economy. With over 70 per cent of the population still working in the agricultural sector, 90 per cent of the jobs are still driven by this industry. Come to think of it, the country has been chugging along, only because of the emergence of small and medium start-ups in this sector," adds R Sreenivasan, Co-Founder, Career Launcher that has initiated partnerships with central and state governments to encourage youth to start their own small entrepreneurial ventures.

Nishikant Parashar
IYear, CSE



Definition of Time

Slow, when you wait!
Fast, when you are late!
Deadly, when you are short!
Short, when you are happy!
Endless, when you are in pain!
Long, when you feel bore!

Sometime, time is determined by your feeling
and your psychological condition not by clock.



Ritesh Singh
1st Year, ME

SMART Goals

Many entrepreneurs have used the SMART process to set structured goals for their business and to provide their employees a target to aim for.

How goal setting works

Specific: First, your goals should be specific. This means you are answering the who, what, when, where, which type questions. You might tell your employees that the goal for the company is to “increase sales”, and that is it. “The sales team (Who), should increase sales (What), of our electronics product line (which), this quarter (When), in the Midwest region (Where)”. This specific goal should help your sales team move toward an action plan.



Measurable: A SMART goal has concrete measures for the sales team to aim for. You should give your team a specific sales increase percentage to aim for, or a specific dollar amount increase so that they can measure progress.

Attainable: Third, your goals should be attainable. If you tell the sales team to increase sales by 150% this quarter and they only increased by 3% last quarter, then you are probably out of touch with what is actually attainable. An unrealistic goal will not motivate you or your employees toward action.

Relevant: Next, your goals must be relevant. If you set a goal for your employees, but no one understands why you are asking them to reach for this goal, your results will suffer. A relevant goal might be like, “talk to 5 of our

current or past customers each day and explain our new product line because we may be able to cross sell these customers with our new and improved product.”

Time-Bound: Lastly, a SMART goal has a specific time frame. Having a goal to increase sales by 150% in the Midwest means nothing without a date. Time also helps a team craft an action plan because they know how quickly they need to move in order to attain the goal.

Srishti
I Year, ME

BUT WHY?

They made her cry, but why?
Wasn't she human?
Or didn't she have rights?
She was a sister, a daughter,
And also a friend;
At that incident beliefs were broken;
They have done a dreadful crime;
With lots of pain she was weeping & crying.
They spoiled her life;

And don't even feel shy.
She lost her life.
In prison they feel pride;
For her sake we light up a candle;
And very soon forget that scandal,
Laws and constitutions all are fake,
“Hang Till Death”
We all want to gaze.



Nishant Saxena,
I Year, ECE

Chetan Bhagat's Article: Especially for Indian Women.



Alright, this is not cool at all. A recent survey by Nielsen has revealed that Indian women are the most stressed out in the world: 87% of our women feel stressed out most of the time. This statistic alone has caused me to stress out. Even in workaholic America, only 53% women feel stressed.

What are we doing to our women? I'm biased, but Indian women are the most beautiful in the world. As mothers, sisters, daughters, colleagues, wives and girlfriends - we love them. Can you imagine life without the ladies?

For now, i want to give Indian women five suggestions to reduce their stress levels.

One, don't ever think you are without power. Give it back to that mother-in-law. Be who you are, not someone she wished you would be. She doesn't like you? That's her problem.

Two, if you are doing a good job at work and your boss doesn't value you -tell him that, or quit. Talented, hard-working people are much in demand.

Three, educate yourself, learn skills, network - figure out ways to be economically independent. So next time your husband tells you that you are not a good enough wife, mother or daughter-in-law, you can tell him to take a hike.

Four, do not ever feel stressed about having a dual responsibility of family and work. It is difficult, but not impossible. The trick is not to expect an A+ in every aspect of your life. You are not taking an exam, and you frankly can't score cent per cent (unless you are in SRCC, of course). It is okay if you don't make four dishes for lunch, one can fill their stomach with one. It is okay if you don't work until midnight and don't get a promotion. Nobody remembers their job designation on their dying day.

Five, most important, don't get competitive with other women. Someone will make a better scrapbook for her school project than you. Another will lose more weight with a better diet. Your neighbor may make six-dabba tiffin for her husband, you don't - big deal. Do your best, but don't keep looking out for the report card, and definitely don't expect to top the class. There is no ideal woman in this world, and if you strive to become one, there will be only one thing you will achieve for certain - stress.

So breathe, chill, and relax. Tell yourself you are beautiful, do your best and deserve a peaceful life. Anybody trying to take that away from you is making a mistake, not you. Your purpose of coming to this earth is not to please everyone. Your purpose is to offer what you have to the world, and have a good life in return. The next time this survey comes, i don't want to see Indian women on top of the list. I want them to be the happiest women in the world.

Cherish Womanhood!!

Compiled by
Asmit Singh Arora
I Year, ME

WHO IS A FRIEND

A friend is one who.....

- Understand that you're sad and feeling upset, even if you're smiling outside.
- Makes amazing desserts and surprises!
- Makes u happy when u r totally broken.
- Who just don't care about you but do the most.
- Is always there to hug you and make things alright!
- Finds his happiness in your happiness.
- Always laugh when you cry, clicks a photo and post it on facebook.
- loves & respects u unconditionally
- is humble enough to re-connect with u even after prolonged silence
- Walks in when the rest of the world walks out.
- Loves you with all your imperfections!
- Is not afraid to shout at you when you're wrong.
- Is never keeping a secret from you...
- Understands what you want without even asking.



Sudarshan Kumar
I Year, ECE



अनार कम करता है हार्ट अटैक का खतरा

अनार जंक फूड से शरीर को हुए नुकसान की न सिर्फ भरपाई करता है बल्कि इससे हार्ट अटैक और स्ट्रोक का खतरा कम हो जाता है। जंकफूड ज्यादा खाने से धमनियों की अंदरूनी परत पर फैट जमा होने लगता है। इससे धमनियों में पॉलीफेनाल एक प्रकार का एंटीऑक्सीडेंट का स्राव करने वाली परत ढक जाती है जिससे धमनियां सिकुड़ने लग जाती हैं। यही हार्टअटैक और स्ट्रोक की वजह बनती है। अनार में पॉलीफेनाल होता है जो धमनियों में जमा फैट को तोड़ता है। यह पॉलीफेनाल धमनियों को फैलने और सिकुड़ने में भी मदद करता है।

दिल का रखता है खयाल



अनार धमनी की अंदरूनी सतह पर गैर जरूरी पदार्थों को जमने से न सिर्फ रोकता है बल्कि पहले से जमे ऐसे पदार्थों को साफ करता है। हाई ब्लडप्रेसर से पीड़ित लोगों के लिए अनार फायदेमंद है क्योंकि ये बीपी के स्तर को कम करता है। शरीर में अच्छे कोलेस्ट्रॉल को बढ़ाता है और बुरे को कम करने में योगदान देता है।

दीनदयालमाहुर
अटेण्डेंट

खुदा से क्या मांगू तेरे वास्ते

खुदा से क्या मांगू तेरे वास्ते
सदा खुशियों से भरे हों तेरे रास्ते
हंसी तेरे चेहरे पर है इस तरह
खुशबू फूल का साथ निभाती है जिस तरह
सुख इतना मिले की तू दुःख को तरसे
पैसा शोहरत इज्जत रात दिन बरसे
आसमा हों या ज़मीन हर तरफ तेरा नाम हों
महकती हुई सुबह और लहलहाती शाम हो
तेरी कोशिश को कामयाबी की आदत हो जाये
सारा जग थम जाये तू जब भी गाए
कभी कोई परेशानी तुझे न सताए
रात के अँधेरे में भी तू सदा चमचमाए
दुआ ये मेरी कुबूल हो जाये



खुशियाँ तेरे दर से न जाये
इक छोटी सी अर्जी है मान लेना
हम भी तेरे दोस्त हैं ये जान लेना
खुशियों में चाहे हम याद आए न आए
पर जब भी ज़रूरत पड़े हमारा नाम लेना
इस जहाँ में होंगे तो ज़रूर आएंगे
दोस्ती मरते दम तक निभाएंगे

आशाराम कुमावत
ई.सी.ई., तृतीय वर्ष

नेत्र दान महा कल्याण !

शांत शरीर, थमी साँसे
सब खत्म
मगर! जिंदा दो खूबसूरत आंखे
लोग इन्हे अग्नि में जला देंगे
या मिट्टी में दफ़ना देंगे
समझ इन को भी मरा हुआ
किसी दरिया में बहा देंगे.....।
लेकिन अगर तुम चाहो
तो ये लौ
सदा सदा जलती रहेगी
तुम्हारे जाने के बाद भी
एक ज़िंदगी इन से चलती रहेगी....।
जो तुम्हारे लिए व्यर्थ,
हैं बेकार
किसी जीवन पर है उपकार
अब बारी उसकी वो भी देखे
जो छोड़ दिया तुम ने संसार
मिट जाए भले तुम्हारे सभी अवशेष
पर ये रहेगी फिर भी शेष
जग में जगमगा ने को
तुम अभी भी हो कही ये अहसास दिला ने को
विश्वास करो ये महादान होगा
किसी जीवन का कल्याण होगा
लोग जिंदगी पर करते हैं गर्व
तुम्हें अपने मरने पर अभिमान होगा !

देवेन्द्र सिंह
ई.सी.ई., प्रथम वर्ष



दर्द कैसा भी हो आंख नम न करो

रात काली सही कोई गम न करो
एक सितारा बनो जगमगा तेर हो
ज़िन्दगी में सदा मुस्कुराते रहो
बांटनी है अगर बाँटलो हरखुशी
गम न ज़ाहिर करो तुम किसी पर कभी
दिल कि गहराई में गम छुपाते रहो
ज़िन्दगी में सदा मुस्कुराते रहो
अशक अनमोल है खोन देना कहीं
इन की हर बूँद है मोतियों से हसीं
इन को हर आंख से तुम चुराते रहो
ज़िन्दगी में सदा मुस्कुराते रहो
फासले कम करो दिल मिलाते रहो
ज़िन्दगी में सदा मुस्कुराते रहो..

अभिनीत सिंह सचदेवा
मैकेनिकल, प्रथम वर्ष



हिन्दी हमारी मातृभाषा है

हिन्दी हमारी मातृभाषा है
भारत में पूर्व से पश्चिम, उत्तर या दक्षिण कहीं भी जाए ।
मानना है मेरा सभी को हिन्दी समझ आए ।
खूबियाँ हैं इसकी अनेक, जैसे बोलो वैसे लिखो
पर्यायवाची और युग्म शब्द को तो देखो
हिन्दी को देना चाहिए, आदर और सम्मान
क्योंकि हिन्दी है हमारी शान ।

रितेश सिंह
बी.टेक. प्रथम वर्ष

दहेज एक अभिशाप

लाखों घर बर्बाद हो गए, इस दहेज की झोली में,
अर्थी चढ़ हजारों कन्या, बैठ न पाई डोली में,
कितनों ने अपनी कन्या के हाथ पीले कराने में,
कहाँ कहाँ तक मस्तक टेके, आती शर्म बताने में, ।।
जिस पर बीती वही जानता, शब्द नहीं ये कहने के
कितनों ने बेचे मकान है, अब तक अपने रहने के
गहने, खेत, दुकान रख दिए, सिर्फ मांग की टोली में
लाखों घर बर्बाद हो गए, इस दहेज की झोली में ।।
फिर भी रुके ना अब तक लगता, मानवता की भाषा में,
लड़के वाले दरें बढ़ाते जाते, धन दौलत की आशा में,
यही हमारा मनुज रूप है, यही अहिंसा प्यारी है,
कन्या को क्यों फेंको, वो भी तो सबसे न्यारी है ।।
अब तो चलो लड़के वालों, कन्याओं की शादी में
नहीं बढ़ाओं हाथ इस तरह, तुम ऐसी बर्बादी में,
आग लगे ऐसे दहेज को, गाँव-समाज की टोली में,
लाखों घर बर्बाद हो गए, इस दहेज की झोली में ।।
तुमको भी ऐसा दुःख होगा, जब क्षण ऐसा आयेगा,
अपनी ही बेटी के लिए तुम्हें, धन देना पड़ जाएगा ।
रोक दो इस कलंक प्रथा को, एक स्वर एक बोली में
लाखों घर बर्बाद हो गए, इस दहेज की झोली में ।।

अभिषेक कुमार
अभियांत्रिकी, प्रथम वर्ष

मेरा सपना

आज मैंने एक सपना देखा
सपने में कोई अपना देखा
बूझो तो मैंने क्या-क्या देखा ।
बूझ न पाये जो तुम
चलो मैं हीं तुम्हें बतला दू
कि सपने में मैंने क्या-क्या देखा ।
सपने में मैंने भारत देखा
सत्ता पर बैठा नारह देखा
और न जाने क्या-क्या देखा
आज मैंने एक सपना देखा
भारत की एक दीवार देखी
जिसके आर-पार गरीबी
साथ में मैंने एक शिक्षक देखा
आज मैंने एक सपना देखा
ज्ञान का अधियारा देखा
शिक्षक को लाचार देखा
भ्रष्टाचार को बढ़ते देखा
केसों को कोर्ट में सड़ते देखा ।
आज मैंने एक सपना देखा
न्याया को पैसों में बिकते देखा
नेताओं के ढ़कोसलों को देखा
महात्माओं के पाखण्ड को भी देखा
अब मत पूछो क्या-क्या देखा आज मैंने एक सपना देखा



अखिल गुप्ता,
अभियांत्रिकी, प्रथम वर्ष

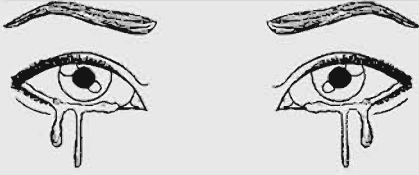
पिता

माँ घर का गौरव तो पिता घर का अस्तित्व होते हैं,
माँ के पास अश्रुधारा तो पिता के पास संयम होता है ।।
दोनों समय का भोजन माँ बनाती है तो
जीवन भर भोजन की व्यवस्था करने वाले
पिता को हम सहज ही भूल जाते हैं ।।
कभी लगी जो ठोकर या चौट तो 'ओ माँ' ही मुँह से निकलता है लेकिन रास्ता
पार करते कोई ट्रक पास आकर ब्रेक लगाये तो 'बापरे' यही मुँह से निकलता है
क्योंकि छोटे-छोटे संकटों के लिए माँ है पर
बड़े-बड़े संकट आने पर पिता ही याद आते हैं
पिता एक वट वृक्ष है जिसकी शीतल छांव में संपूर्ण परिवार सुख से रहता है ।



कुशल द्विवेदी
अभियांत्रिकी बी.टेक. प्रथम वर्ष

तब मुझे रोना आता है



जब जाते नहीं वो नन्हें पढ़ने, तब मुझे रोना आता है ।

देख कर कंधे पर जिम्मेदारियों का बोझ तब मुझे रोना आता है ।

देख खिलौने की जगह उन कोमल हाथों में ईंट और पत्थर का बोझ तब मुझे रोना आता है ।

जब चलते हैं नन्हें पाँव धूप में,
जब फिरते हैं यहाँ वहाँ वो भूख में,
तब मुझे रोना आता है ।

उनका बचपन देख इस अंधियारे में
जब सोते हैं वो उस गलियारे में
तब मुझे रोना आता है ।

जब होती है उनके साथ बदसलूखी
और सूखा होता है उनका हलख
मिलती है पानी की जगह उन्हें फटकारे
अलग-अलग ।

तब मुझे रोना आता है ।

देख अपने देश की यह हालत

जहाँ हो रहे बर्बाद यह नन्हें अलग-अलग
तब मुझे रोना आता है ।

और मुझे रोना आता है ।

निशांत सक्सैना ,
अभियांत्रिकी, प्रथम वर्ष

जीवन

हमने जो बोया वो ही पाया है,

जीवन धूप और छाया है ।

कभी मन मयूर सा नाचे,

कभी अश्को की अविरल धारा है ।

कभी सुबह सुनहरी है तो कभी शाम सुहानी,

कभी रात अंधियारी तो कभी रात है दीवाली

कभी कफन सा सूना जीवन

कभी रंगो की होली

कभी जीवन जीना ही नहीं ऐसा मन विचार रहा

कभी जीवन के लिए किसी दूजे को मार रहा

कभी सावन आया झूमके, कभी पतझड़ छाया है

कभी सूनी राहे, कभी राहों में फूलों को बिछाया है ।

जो बोया वो ही पाया है

ये जीवन धूप और छाया है ।

प्रभु नारायण कुमावत
सांख्यिकी विभाग

दुनिया में रूँ ही होता है

जब-जब दर्द का बादल छाया, जब गम का साया लहराया,

जब आसूँ पलको तक आया, जब ये तन्हा मन घरबराया
हमने मन को यह समझाया, मन आखिर तू क्यों रोता है
दुनिया में रूँ ही होता है ।।

यह जो गहरे सन्नाटे है, वक्त ने सब को ही बाटे है
थोड़ा गम है सबका हिस्सा, थोड़ी धूप है सब का हिस्सा
आँखें तेरी बेकार ही नम है, हर पल एक नया मौसम है
क्यों तो ऐसा पल खोता है, मन आखिर तू क्यों रोता है
दुनिया में रूँ ही होता है ।।

मनीष कुमार खालिया
अभियांत्रिकी, प्रथम वर्ष

माँ

तू जो न होती तो शायद मैं भी न होती, सिर पर मेरे तेरी ममता की चादर इतनी लम्बी न होती ।
यूँ सो न पाती मैं ऐसे चैन से, आज जो भी हूँ मैं हूँ तेरे प्रेम से ।
मेरे लिए एक पहेली है तू हाँ मेरी सबसे अच्छी सहेली है तू ।
तूने ही मुझे चलना सिखाया, इस दुनिया की आग में तुने ही मुझे जलना सिखाया ।
तेरे कदमों तले अपनी दुनिया चुनी है मैंने, तेरे साये में अपना आशियाना बना है मैंने ।
मेरी चीखों को अपनी तड़प बना लेती थी तू, मेरी हँसी को अपनी मुस्कुराहट बना लेती थी तू ।
याद बहुत आता है माँ तेरे आँचल का खुश मिजाज मौसम, तेरे आँगन में बीता वो बचपन ।
यूँ तेरा मुझे सहमे देख गले से लगा लेना, जगा देख रातों में मुझे थपकी दे सुला देना ।
दूर हूँ तूझसे इतना याद बहुत आती है, आज भी गरजते बादल तेज हवाएँ माँ मुझे डरा जाती है ।
तू नहीं तो क्या तेरी यादें सुला जाती है ।
तू मुझसे जुड़ी है, मेरी हर अदा है तू । होना न कभी मुझसे जुदा, माँ मेरी खुदा है तू ॥

नेहा दीक्षित
अभियांत्रिकी, प्रथम वर्ष

हॉस्टल के दिन

बीते हुए लम्हों ने आज हमें नींद से जग दिया । ऐ मेरे दोस्त तेरी याद ने आज हमें फिर रूला दिया ।
हसँना, गाना, रूठना, मनाना यारों के संग गप्पे लड़ाना । एक बार फिर याद दिला दिया ॥
वो साथ में लम्हे चुराये थे जो, वो क्लास में बँक लगाये थे जो, वो आऊटिंग से लेट आए थे जो ।
आज फिर वो सपना दिखा दिया एक बार फिर मुझे याद दिला दिया ॥
लाखों की भीड़ में ढूँढा जिसको, हॉस्टल में आकर मिलना था उसको ।
उस वक्त लगा खूब ने उसे मिला दिया एक बार फिर मुझे तेरी याद ने रूला दिया ॥
रात-रात बैठकर जो हम पढ़े, कॉफी के मग, वार्डन से चुरा कर पिये ।
आज काफी के मग को हमने बिसारा दिया, एक बार फिर मुझे तेरी याद ने रूला दिया ॥
ये है यारों सब की कहानी, तेरी मेरी हम सब की आकाशवाणी, जारी रहेगा ये सिलसिला सालों साल तक ।
कल फिर कुछ कलमे उठेगी, और फिर कहेगी यही कहानी, आज तेरी याद ने एक बार फिर मुझे रूला दिया ॥

लवीना चौहान,
अभियांत्रिकी, ई, सी, तृतीय वर्ष

पूछ रही है क्या नारी

पूछ रही है एक नारी, बोलो मेरे सवाल का जबाब क्या दोगें ?
जिस देश में है इतना अत्याचार, इस पर अपना विचार क्या दोगे ?
कही दुल्हन हवन हो गई, कही बेटियाँ गईं कोख में मारी, कही दुष्कर्म कही बेची जाती है नारी ।
किसी अबला की व्यथा नहीं सुनता कोई, नारी को न्याय क्या दोगे ?
जिस बेटी के पाँव पूजते, जिसको शीश नवाते हैं,
घर-घर में दुर्गा, काली, सरस्वती को हम बैठाते हैं, उसी नारी को दरिंदे नोच नोच कर खाते हैं
जिस देश में नारी शक्ति कही जाती, उस देश में हाल है यह जबाब क्या दोगें ।

हरेन्द्र सिंह
सहायक, निदेशक

औरत हूँ मैं

मोहब्बत के लतरों से दूर तक एक अंजान कली हूँ मैं,
न जाने कितने वारों को सहकर चली हूँ मैं,
रोकना चाहा था, कितनों ने मुझे माँ के कोख में,
पर तुम्हारी जरूरतों से पली हूँ मैं,
दिया इस दुनिया ने नाम मुझे औरत का,
पर जरूरत की एक वस्तु हूँ मैं,
अपनों के ख्वाबों की टीस हूँ मैं,
एक अनसुनी सी चीख हूँ मैं,
कहने को अपनों ने अपना कहा, पर गैरों से भी गैर हूँ मैं,
कभी पर्दे में, कभी भूखे में, कभी चौखट के पीछे धुटी हूँ मैं,
कभी अपनों की हीफाजत में, कभी गैरों के गिरफ्त में टूटी हूँ मैं,
सोचा था, कभी की इंसान हूँ मैं, जब जानवरों ने नोचा तो समझा कि औरत हूँ मैं,
कभी किसी गली, नुक्कड़, चौराहे पे, किसी आवारों के अड्डे पे लुटी हूँ मैं,
कभी किसी चलती बस, दौड़ती ट्रेन में फंसी हूँ मैं,
किसी ने फूल समझ कर तोड़ा, तो किसने खिलौना समझकर छोड़ा,
इन सब में भी, रो कर हंसी हूँ मैं,
अपनों से दूर गैरों की छाँव में, चंद सिक्कों के लिए जली हूँ मैं,
देख इस दुनिया को, लोगों को, रस्मों को, घावों के निशानों को,
जान कर भी सब कुछ फिर जन्म लेती हूँ मैं,
पता नहीं इंसान हूँ, या परमात्मा की एक पहेली हूँ मैं,
फिर सोचा
इंसान नहीं इंसान उपजने वाली एक बेबस औरत हूँ मैं

दीप्ति सिंह,
अभियांत्रिकी, प्रथम वर्ष



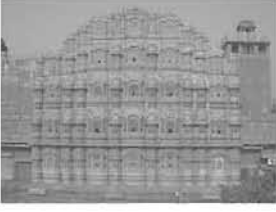
एक नौजवान की व्यथा



कुछ करने का सपना था इन आँखों में,
ना जाने कब इन आँखों की रोशनी खो गयी,
कुछ आगे बढ़ने का विश्वास था इन पैरों में,
ना जाने कब ये पाँव थिरकने लग गये,
कुछ देश के लिए कर गुजरने का इरादा था इस दिल में,
ना जाने कब ये दिल टूट गया,
कलम से देश दुनिया बदलने का जोश था इन हाथों में,
ना जाने कब ये हाथ कांपन लग गये,
इस भाग दौड़ भरी ज़िन्दगी को मैं भी रस समझ बैठा,
और ना जाने कब ये कदम से कदम मिला कर दौड़ने लग गया,
वो कुछ अलग करने का सपना न जाने कब मर गया,
और मैं दूसरों के इस्तेमाल की वस्तु बन कर रह गया ।



अमित थालोर,
अभियांत्रिकी बी.टेक. प्रथम वर्ष



जयपुरम्

जयपुरं भारतस्य राजस्थान प्रान्तस्य राजधानी अस्ति । गुलाबीनगरनाम्ना प्रसिद्धम् अपि । ऐतिहासिकम् आमेरनगरम् अस्य समीपे अस्ति । इदं विश्वस्य सुन्दरतमनगरेषु अन्यतमम् । जयपुरं भारतवर्षस्य एकं सुनियोजितं नगरम् अस्ति । महाराजः जयसिंहः एतत् नगरं १९७२ संस्थापितवान् ।

जंतर-मंतर, नाहरगढ़, जयगढ़, जलमहल, मोतीझूंगरी, अल्बर्ट हॉल, गोविन्ददेवजी मंदिर, सिटी पैलेस इत्यादीनि प्रमुखानि दर्शनयोग्यानि स्थलानि सन्ति। प्रतिवर्षं लक्षाधिकजनाः अस्य नगरस्य दर्शनाय आगच्छन्ति। जयपुरस्य आभूषणानि, वान-व्यापार ब्लुपाटरी इत्यादीनि प्रसिद्धानि सन्ति।

संस्कृतभाषा

संस्कृतं जगतः अतिप्राचीना समृद्धा शास्त्रीया च भाषा अस्ति। संस्कृतवाङ्मयं विश्ववाङ्मये स्वस्य अद्वितीयं स्थानं अलङ्करोति। महर्षिपाणिनिरचिता "अष्टाध्यायी" जगतः सर्वासां भाषानां व्याकरणग्रन्थेषु अन्यतमा वैयाकरणानां भाषाविदां भाषाविज्ञानिनां च प्रेरणास्थानं वर्तते। भारतीयभाषासु बहुलत्वेन संस्कृतशब्दाः उपयुज्यन्ते। संस्कृतात् प्रायः सर्वा अपि भारतीयभाषाः उद्भूताः। तद्वदेव भारत-युरोपीयः भाषावर्गीयाः नैकाः भाषाः संस्कृतप्रभावं संस्कृतशब्दप्राचुर्यं वा प्रदर्शयन्ति।

संस्कृतभाषायाः सुरभारती% देववाणी% देवीवाक्% गीर्वाणवाणी% देवभाषा% अमरभारती इत्यादीनि बहूनि नामानि प्रसिद्धानि सन्ति ।

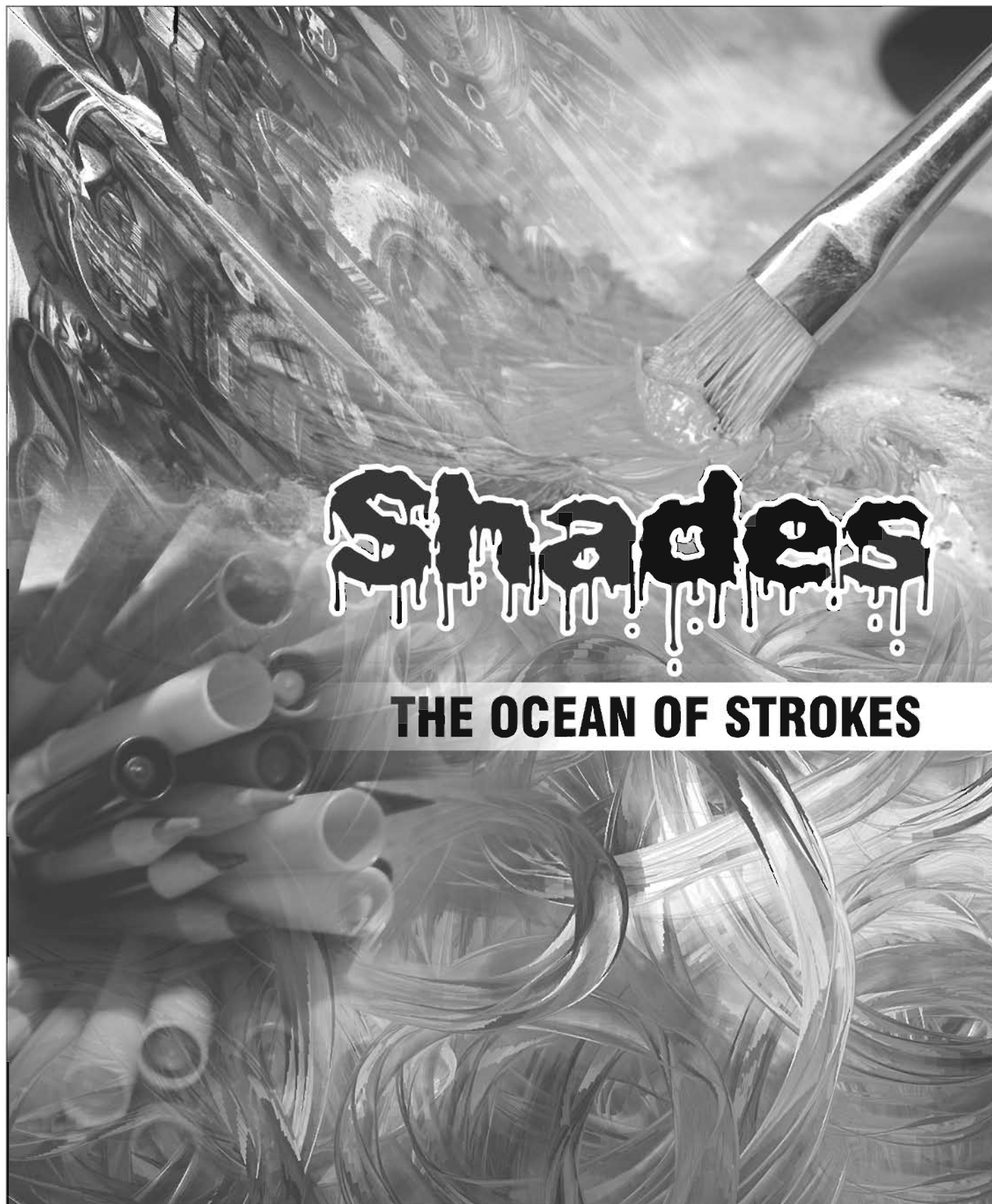
संस्कृते एकस्य धातोः रूपाणि अर्थकालानुसारेण दशसु लकारेषु भवन्ति । प्रत्येक-लकारे प्रथमपुरुषः] मध्यमपुरुषः] उत्तमपुरुषः इति त्रयः पुरुषाः सन्ति। अस्याः भाषायाः वैशिष्ट्यं नाम दंडचिन्हम्। न वर्तते अत्र अन्यानि विरामचिन्हानि केवलं दंडचिन्हमेव। एतदेव चिन्हम् विधानं प्रश्नम् उद्गारं च सूचयति। अतः एकस्यैव वाक्यस्य भिन्नान् अर्थान् प्राप्नुमः वयम्। उदाहरणार्थं वाक्यांशः एकः दीयते। अभ्युत्थानं च धर्मस्य नैव दृष्टं कदाचन इति एतस्य वाक्यस्य द्वौ अर्थौ स्तः ॥संस्कृतस्य प्राचीनतमग्रन्थाः वेदाः सन्ति।

रामायण

रामस्य अयनं (चरितं% रामायणम् । रामायणम् आदिकाव्यं सर्वेषां काव्यानां जीवातुभूतं च भवति । रामायणं महाभारतवत् कश्चित् इतिहासग्रन्थः भवति । संस्कृतसाहित्ये रामायणवत् प्रसिद्धः लोकप्रियः च अन्यः ग्रन्थः नास्तीति वक्तुं शक्यते । नीतिदृष्ट्या काव्यात्मकदृष्ट्या लोकोपकारकदृष्ट्या च रामायणस्य महत्त्वं वर्धते । पितृपुत्रधर्मस्य पतिपत्नीधर्मस्य भ्रातृधर्मस्य तथा अन्यकौटुम्बिकधर्मस्य च आदर्शभूतः अयं ग्रन्थः ॥ आदिकाव्यस्य रामायणस्य कर्ता श्रीमद्वाल्मीकिः । श्रीवाल्मीकिः पूर्वं कश्चित् तस्करः आसीत् रत्नाकरः इति नाम्ना । सप्तर्षीणां दर्शनानन्तरं राममन्त्रजपपूर्वकतपसा रत्नाकरः वाल्मीकिः संजातः । रामायणे न केवलं युद्धमात्रं वर्णितम् अपि च सकलालङ्काराणां प्रकृतिसौन्दर्यस्य च धर्मस्य च वर्णना दृश्यते । सरलसंस्कृतभाषापठनार्थम् अत्यन्तोपयुग्मि साधनं च भवत्येतत् ॥

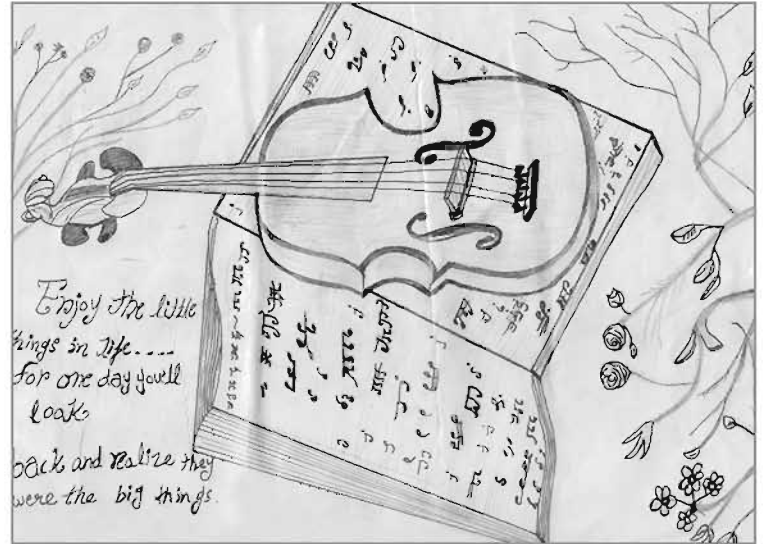
संकलन

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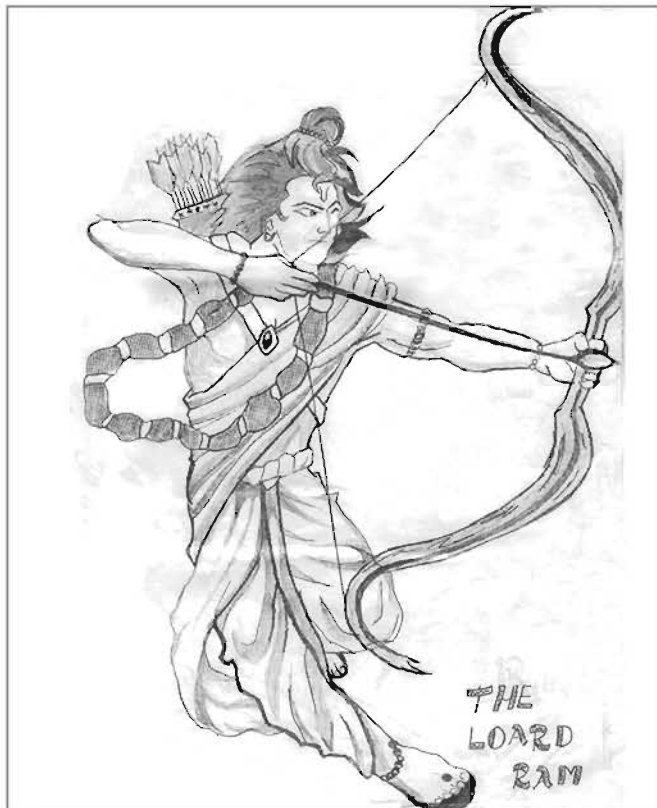




Meenoo Kumari, III Year, EC



Pawan Kumar, I Year, Civil



Kamlesh Jain, II Year, EC



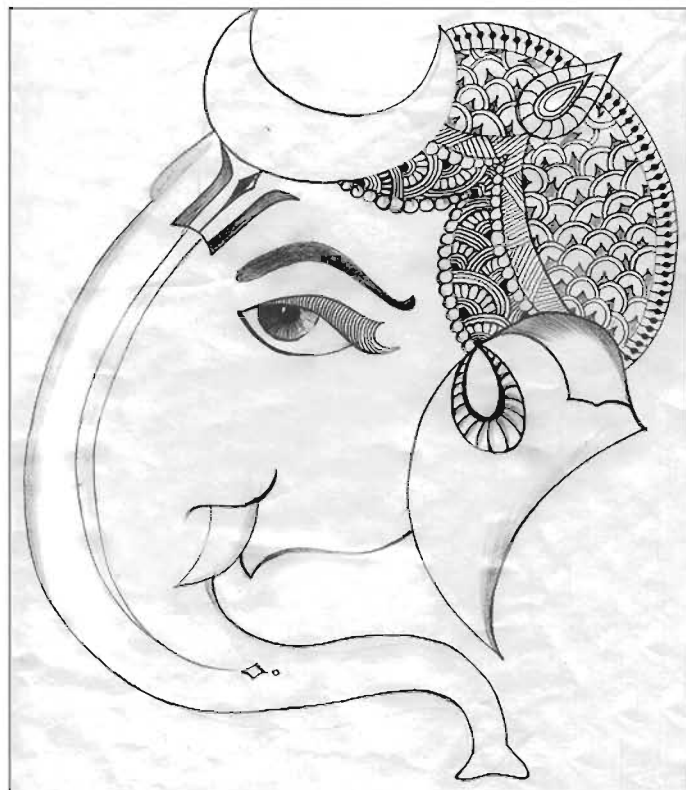
Pawan Kumar, I Year, Civil



Rohit Khinchi, I Year, Civil



Abhishek Sharma, II Year, ME



Kaumudi Mishra, III Year, EC



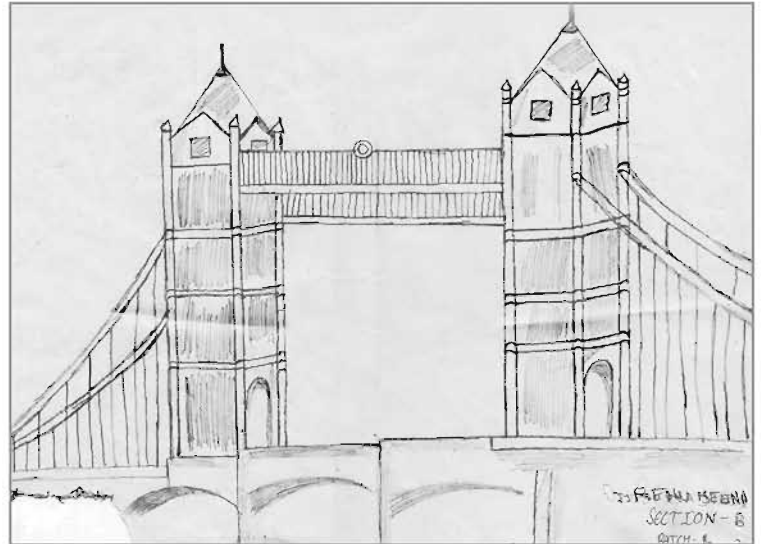
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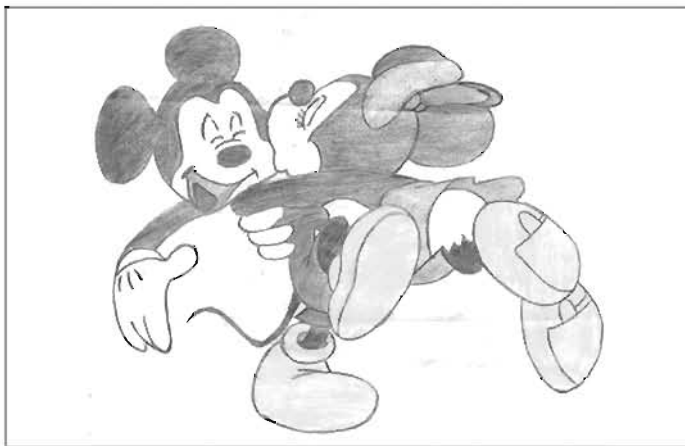
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Kamlesh Jain, II Year, EC



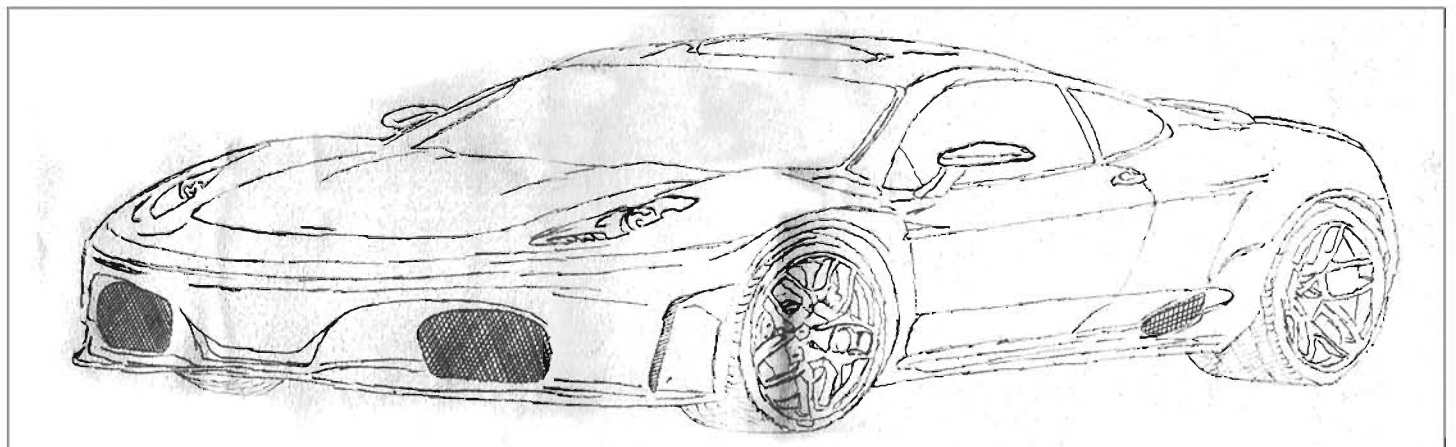
Renu Meena, I Year, Civil



Jaideep Singh Deora, I Year, ME



Pawan Kumar Bairwa, I Year, Civil



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॥ पूर्णिमा गान ॥

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॥ 5 ॥ जय जय

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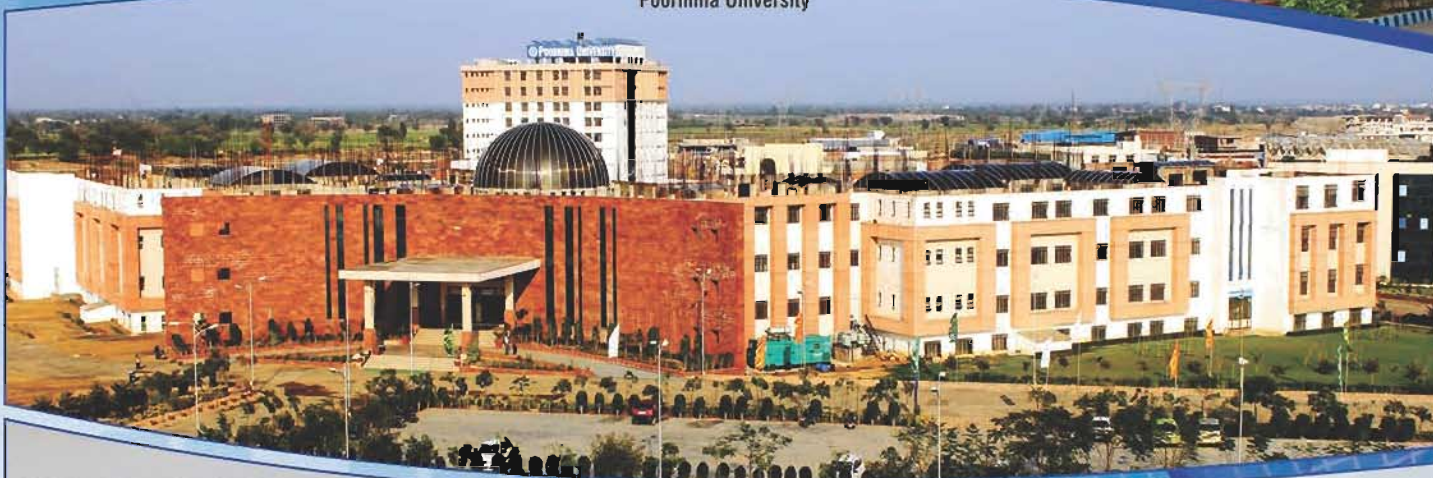
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