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SWAMI KESHVANAND INSTITUTE  
OF TECHNOLOGY, MANAGEMENT  
& GRAMOTAN



# THE SKIT TIMES



ANNUAL ISSUE  
2013



# VISION

To promote quality education, training and research in the field of engineering by establishing effective interface with industry and to encourage faculty to undertake industry sponsored projects for students.

# MISSION

To promote higher learning in advanced technology and industrial research to make our country a global player.



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(Reader, Dept. of English)

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(B.Tech., III, Dept. of Information Technology)

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Pallavi Singh  
(B.Tech., III, Dept. of Information Technology)

Neha Purohit  
(B.Tech., II, Dept. of Computer Science)

Rajdeep Sukhwal  
(B.Tech., II, Dept. of Electronics and Communication)

## PUBLISHER

Prof. (Dr.) S.L. Surana  
Director (Academics)

**SWAMI KESHVANAND INSTITUTE OF TECHNOLOGY  
MANAGEMENT & GRAMOTHAN**

Ramnagar, Jagatpura, Jaipur-25 (Raj.) India

Tel.: 0141-2752165, 2752167 • Fax: 2759555

Website: [www.skit.ac.in](http://www.skit.ac.in) • Email: [info@skit.ac.in](mailto:info@skit.ac.in)



## EDITOR'S NOTE



Dear Readers

We have immense pleasure in bringing out the annual issue of The Skit Times . The issue, we hope, will remain as a memoir of activities held at SKIT premises and become a means of transforming the transient into something approaching some permanence in a life time. Daphne du Maurier's nameless heroine of 'Rebecca' wishes, "If only there could be an invention that bottled up a memory, like scent..... when one wanted it, the bottle could be uncorked , and it would be like living the moment all over again."If this magazine has the potential to do that even to a nano degree, we shall feel that we toiled not in vain!

The success of the magazine definitely lies in the erudite articles of the educators and in no less significant contributions which make up for a major part of this publication those of the students. We had a heart -wrenching job trying to pick and choose. We chose matter over (no, not mind) language, but with heart and soul in it. Some sterling stuff and some of high calibre rub elbows with 'commoners', but all have substance.

Most of them have been produced verbatim. The editorial pen has stayed to slay very few dragons of errors, typographical or otherwise, but never to change the content, never to add or detract its essence. Some, especially those few which taxed our comprehension to the utmost , we have to admit were left unchanged to reflect like Snow- white 's mirror 'the truest picture of them all' . Changes in font, font size and italic, were brought in for uniformity; we tender no apology for them.

Lastly the editors would like to have it mentioned here that the opinions stated by the contributors are their own. We hope that this venture of ours will be a fruitful one in disseminating knowledge and in bring together variegated views from student and teacher community.

Dr. Niraja Saraswat  
Editor-in-Chief





## MISSIVE MENTOR'S VOICE

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With immense pleasure, I appreciate the ceaseless endeavours of the editors to bring out the annual issue of SKIT TIMES. This magazine is an expression of the creative side of our students' versatility. I congratulate the team of students and teachers who have assiduously harnessed the literary talent of our budding engineers. Our founder was inspired by the beacon of light that Swami Keshavanand was, and thus began the journey on the path of education and research with a pious motto of excellence in performance. This sincere motive goes in making it an institute par excellence.

At SKIT, we aspire to develop professionally groomed manpower with sound knowledge and skill, a passion for the engineering profession and uncompromising human values and ethics. We are committed to create an ambience for nurturing innovation, creativity and excellence in our students. We strongly support interdisciplinary research for the benefit of industry and society. This will provide the students with an understanding and appreciation not only of the process of knowledge creation, but also of the process by which technology and knowledge may be used to create wealth as well as achieve social and economic goals. In the course, for more than a decade, we have tried to provide a transformational experience where highest integrity, professional commitment and ethics are inbuilt in the training mechanism itself, so that the young engineers may blossom into decision makers, leaders and cultural ambassadors. We have strived hard and improved over the years upon our past performance, to augment SKIT's current stature in the league of the premier colleges of India. The possibilities of exposure are huge, and all we need is a collective effort from the various bodies like faculty members, students and alumni. There is a long way to go. The journey of 13 years is but an inch in the path of the summit that we intend to climb. Let us join hands in performing the huge task, and, at the same time rejoice in the glory of the present success with continuing determination: "More from less far more for the future".

Once again, I applaud the editorial board for raising a multi-faceted platform like SKIT TIMES for students to showcase their hidden talent.

Good wishes,

Jaipal Meel, Director



## MISSIVE MENTOR'S VOICE



Caring, trusting, empathizing and communicating with students are the traits that have always gone hand in hand. When it comes to dealing with students, these traits acquire much prominence.

Our founder envisioned the beacon of light for this institution and here at SKIT our sincere endeavours go in making it an institution par excellence. Creating world citizens with global outlook ready to partake the everyday unfolding challenges is our humble effort. Exclusivity with discipline, versatility with individuality and spirituality with high morality is the quintessence of our education.

We at SKIT have a lot in terms of care, trust, empathy and communication to give to our students. However, we would also love to hear students voice their opinion, share their views and have them unwind themselves by letting their emotions flow in the form of their genuine writings.

'THE SKIT TIMES' is an expression of the students who will become dynamic entities and will shoulder the responsibility of concerned global citizens of tomorrow. My congratulation extends to the members of the editorial board who have assiduously brought forth the talent of the students and highlighted their achievements.

Prof. (Dr.) S. L. Surana  
Director Academics





## MISSIVE MENTOR'S VOICE

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I am highly elated to find the annual issue of SKIT TIMES. The institute which was established in 2000 is scaling new heights every day. The Institute fosters leaders capable of making a difference.

It also inculcates human values and professional ethics in the students, which help them take decisions and lay a path that is good not only for them but also for the society, the nation, and the world as a whole. Our aim is to incorporate the world's best academic practices into all our programmes, namely our engineering and management programmes. SKIT spares no effort to make its curriculum and pedagogy highly competitive. It constantly scans the developments in education and the corporate world to meet the needs of the country. Its faculty members deliver the curriculum with a sense of commitment and service.

SKIT tries to recruit the best faculty available and help them imbibe its culture and values. They are also deeply involved in research and consultancy. To fulfill its mission in new and powerful ways, each member of SKIT strives to achieve excellence in every endeavour - be it education, research, consulting or training - by making continuous improvements in curricula and pedagogical tools. Having established its footprint worldwide, SKIT's vision is to become one of the top engineering institutes not only in the state but also across the country - a vision where every achievement motivates us to set the bar even higher; a vision where knowledge is continuously updated in keeping with the ever changing global business environment; a vision where we are committed to meet our social responsibilities, while setting high standards for all our stakeholders; a vision and a challenge which we at SKIT have pursued relentlessly over the years. I congratulate the editorial board of SKIT TIMES and wish the students a rewarding time at SKIT.

Prof. (Dr.) Sudhir K. Calla  
Principal and Director (D&W)



# GIST... THE ESSENCE WITHIN

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a record of happenings at SKIT

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## CAMEO

an array of clubs

## TECHNIGENIUS

technical finesse of technocrats

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perspicacious perspectives

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## SOME OF OUR CAMPUS RECRUITED STUDENTS



WIPRO BPO

INFOGAIN



CONCIERGE TECHNOLOGIES PVT. LTD



IN TIME TEC



INNORRAFT SOLUTIONS



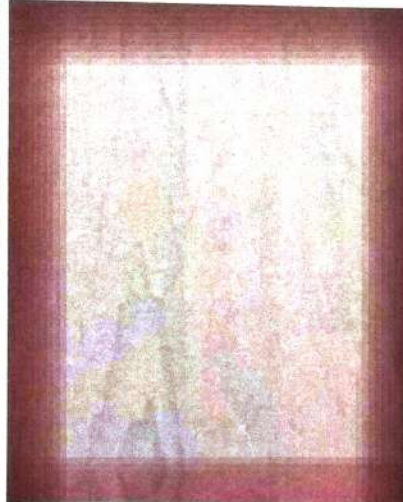




INDIAN NAVY



INDIAN AIRFORCE



QED 42



HCL TECHNOLOGIES



KYRION DIGITAL

DATA 64





## PRAVAH-2013

*'Feel the flow'*

The annual techno-cultural festival of Swami Keshvanand Institute of Technology, Management and Gramothan is a three day extravaganza marked by various activities, cultural performances and events that aim at providing a platform to the students to hone and showcase their talents. PRAVAH 2013 began with great pomp and splendour on 7 March 2013. The inaugural ceremony was held in the college OAT and the campus was graced with the presence of various esteemed guests. Shri H.R. Puri, Chairman of Rajasthan State Human Rights Commission, was the chief guest whereas Shri L. C. Agarwal, Chairman and Managing Director of Power Infrastructures Limited was the guest of honour. In keeping with the tradition of India, lighting of the lamp marked the beginning of the ceremony and this was followed by a floral welcome of the guests accompanied by a welcome note delivered by the Chairman of SKIT, Shri Surja Ram Meel. He extended a hearty welcome to all dignitaries and said that students and the faculty should grab the opportunity to gain inspiration from them.

Pravah signifies flow –flow of ideas and expression, flow of creativity and talent. To set the ambience of the coming days, filled with enjoyment and pure happiness, the theme song- Main Pravah was presented. Then Mr.L.C. Agarwal was invited to share his wisdom and experiences with the audience. In his address he stressed upon the importance of will power and the desire to achieve which is an essential ingredient in the recipe of success. He advised the students to study diligently and to always nurture a spark to do something worthwhile in life. This invigorating speech was followed by yet another exhilarating address by the Chief Guest, Mr.H.R.Puri. He said that spreading education is the greatest service to society and expressed his pride in SKIT for having made a mark in the field of education. He regaled the gathering by sharing his personal experiences and stories of the days when information was limited. He emphasized the need to be well informed and asked the students to be clear about their goal in life. Then a group of students presented a song reflecting the persevering and enterprising spirit of the SKITians, which was appreciated by all. The guests were honoured with mementoes, following which Prof.Dr.S.L.Surana, Director (Academics), delivered the vote of thanks.

Mr. H.R.Puri then formally declared Pravah 2013 open even as several colourful balloons were released in the blue sky to signify the festive spirit, marking the beginning of yet another colourful and memorable festival.

## ANNUAL DAY

The annual day of PRAVAH was marked by a flow of colourful and bright ideas through a spectacular panorama of events. The stage was set with vivid breathtaking performances. The chief guest Mr. Sudhanshu Pant, Secretary, Mines and Petroleum, Govt. of Rajasthan; guest of honour Mr. Naveen Jain, Director, Education Commissionerate, Govt. of Rajasthan; guest of honour Smt. Nora Devi and other dignitaries inaugurated the cultural gala by lighting the lamp, followed by Vishnu Stuti for an auspicious start. Chief patron of the institute, Mr. Raja Ram Meel welcomed the guests and appreciated the sincere efforts put in by all the members of the SKIT family. Mr. Anil Bafna, Vice Chairman, SKIT said that flow of life should be beautiful, constant and unforgettable and insisted on introspection. Mr. K.R. Bagaria, Founder Director, SKIT stressed the need of uplifting those from a rural background and empowering them.

Prof. (Dr.) S.L. Surana, Director (Academics) presented the annual report. He shed light on the progress of the college in the academic session 2012-13. He stressed that the institution is determined to achieve the parameters of success. The chief guest, Mr. Pant said that the students should possess humility as every profession needs sincerity and dedication. He also emphasized the importance of extra-curricular activities. Mr. Jain spelled out the skills required in engineering graduates for good placement. He said that a bridge is needed between the demands of the industry and the skills of an engineer. Smt. Nora Devi asked the audience to keep old values alive along with new values and extended her blessings to all.

The unmatched performances, elegant lyrical harmonies and rib tickling skits left the audience mesmerised.











## ACADEMIC EXCELLENCE AWARD

Prof. R. S. Nirjar Academic Trophy was awarded to Swati Gupta (Computer Science Engineering) for securing overall first rank in the college across all branches of B. Tech III year during the academic session 2012-2013. Alam Singh Trophy was awarded to Disha Bijlani (EE) and Abhishek Vijayvargia (ECE) for securing I rank in I and II shift II Year respectively. Raja Ram Meel Trophy was awarded to Khyati Sethia and Vinay Shrimali for securing I rank in I and II shift, B.Tech. I year respectively.

Pride of SKIT Trophy was awarded to four students including Sanjay Suthar (Computer Science Engineering), Lovraj Ashuja (Information Technology), Jeetram Beniwal (Electrical Engineering) and Anirudh Choudhary (Mechanical Engineering) for performing exceedingly well in all spheres.



## BLOOD DONATION CAMP

Preservation of life by man is the next best thing to God's prerogative of creating life. Following the same spirit a voluntary blood donation camp was organized by Youth Red Cross Club in collaboration with Lions Club, Rotary Club, SMS Hospital, Santokhba Duralabhji Memorial Hospital, Jaipur and Swasthya Kalyan Blood Bank on 29 September, 2012.

The inaugural function witnessed the gracious presence of Dr. Virendra Singh, Superintendent, SMS hospital as the chief guest and other dignitaries including Mr. M. L. Goel, President Lions Club, Mr. Govind Sharma, District Vice Governor, Mr. R.K. Lohariya, President, Rotary Club, Mr. Rajaram Meel, Chief Patron, SKIT, Mr. Surjaram Meel, Chairman, SKIT, Prof.(Dr.) S. L. Surana, Director(Academics) and Dr. S.K. Calla, Principal, SKIT. The programme commenced with a welcome address by Mr. Rajaram Meel. He welcomed the dignitaries and assured them that SKIT students would remain in the forefront in all societal concerns.

The chief Guest of the occasion, Dr. Virendra Singh, exhorted the younger generation to take a pledge and come forward



to donate blood voluntarily. He made the audience aware of the hazardous effects of smoking and drinking. He lauded the efforts of the SKIT family in encouraging the youth and conducting the camp. Dr. S. K. Calla, Principal, SKIT proposed a vote of thanks. He expressed his gratitude towards Lions Club, Rotary Club and all dignitaries and also congratulated Mr. Ashish Nayyar, Reader, Dept. of Mechanical Engineering for successfully coordinating the programme. During the camp 700 units of blood was collected. The camp concluded by honouring the guest with a shawl and the donors with gifts.

## CARVING A NICHE IN SPORTS

When it comes to sports, Skitians always have an upper hand. This sporting season was full of action with SKIT leaving a mark wherever it competed. All the tournaments were successfully coordinated by Mr. Hiralal Chaudhary, Incharge, Dept. of Sports and Physical Training. The details of students participation is as under:



S. NO.	VENUE	CATEGORY	RANK
1.	IIT, Jodhpur	Basket ball boys	Runner up
2.	VIT University, Jaipur	Basket ball boys	Winner
		Volley ball boys	Runner up
3.	KITE ,Jaipur	Basket ball boys	Winner
4.	Global institute of Technology, Jaipur	Basket ball boys	Runner up
5.	AAVEG, SKIT, Jaipur	Basket ball boys	Winner
		Basket ball girls	Runner up
		Volley ball boys	Runner up
		Volley ball girls	Runner up
6.	Jaipur Engineering College, Jaipur	Basket ball boys	Winner



## ORIENTATION OF B. TECH I YEAR STUDENTS

On 6 August 2012, the SKIT family organized an orientation ceremony to welcome the new members to its family. Though the official ceremony began at 10:00 a.m., the senior students initiated the program with a cultural extravaganza. There were mesmerizing performances by the college choir and band. A few final year students also shared their experiences of the college with the entrants. The ceremony commenced with the lighting of lamps and Saraswati Vandana to invoke the blessings of the Almighty. This was followed by the felicitation and floral welcome

of the esteemed guests-Prof. R. P. Yadav (chief guest) and Mr. Rajendra Bhanawat (presiding guest).

Shri Surja Ram Meel ,Chairman, SKIT delivered the welcome address wherein he laid emphasis on a disciplined life and encouraged the students to utilize the four years at college to their fullest by becoming not only technically sound but also good human beings .He also welcomed the parents present and asked for their valuable suggestions.

Prof. (Dr.) S.L. Surana, Director (Academics) shared the vision and mission of SKIT with the new students. He asked students to put their holistic devotion in studies as well as in extracurricular activities with equal vigour.Mr. Jaipal Meel, Director, SKIT, assured the parents that the institution would do its best to nurture qualities like discipline, punctuality and sincerity among students.

The presiding guest, Mr. Rajendra Bhanawat, Managing Director, RIICO, emphasized the fact that each child is unique and has it's competency in one or the other field. There is a need to identify and nurture that talent. He read out an excerpt from Bill Clinton's





biography and warned students to never take things for granted and to be inquisitive. After his motivating talk, Prof. R.P. Yadav, Vice Chancellor, Rajasthan Technical University addressed the gathering. He said that a good engineer is responsible for the country's progress and emphasized the importance of becoming industry ready by developing the requisite skills and knowledge. Quoting examples of the ex SKIT students who had achieved great success, he encouraged the students to grab opportunities and to inculcate leadership skills to become successful in life. Dr. S.K. Calla, Principal, SKIT proposed a vote of thanks.

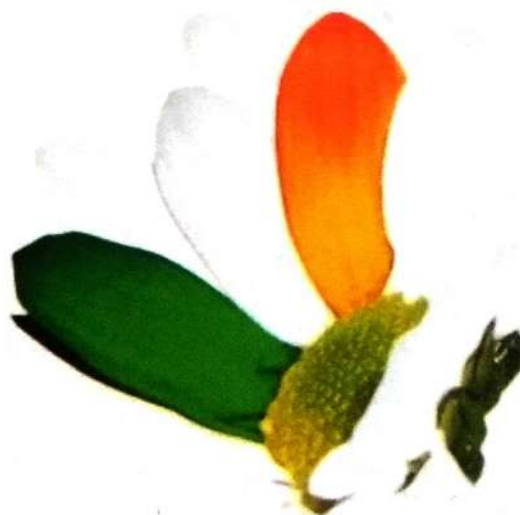
The second half of the session was marked by an enlightening speech by Dr. Satish K. Batra, an acclaimed academician. He kept the audience spellbound with his talk on positive appearance, happiness and satisfaction which can bring a profound change in life. He peppered his speech with stories and anecdotes and encouraged the students to strive for the goal, to have noble ideas and a purpose in life. Taking examples from real life heroes like Dhirubhai Ambani, he laid stress on the importance of perseverance and patience, saying that "winners never quit and quitters never win". With this invigorating speech the ceremony concluded.

## INDEPENDENCE DAY CELEBRATION

Independence Day was celebrated with immense pride and solemnity. It spurred the students to respect, admire and emulate our national heroes. The celebration began with flag hoisting by the chief guest. At the outset Mr. Raja Ram Meel, Patron, SKIT explained the moral meaning of independence. He made the young minds aware of the dangerous consequences of corruption. According to him corruption in physiological, theological or moral discussions is a moral impurity and deviation from the ideal. In a moral sense corruption generally refers to decadence and hedonism.

Mr. Anil Bafna, Vice Chairman, SKIT talked about the Indian culture and traditions. Founder Director Mr. K. R. Bagaria expressed his concern over the fact that our spirit of patriotism gets kindled on Independence Day and Republic Day only. We tend to forget it on the other days. He emphasized the need of planting more trees, saving electricity, curbing corruption and eliminating the menace of ragging.

Director of Academics Prof. (Dr.) S. L. Surana in a short and meaningful speech, drove home the significance of resources. He said that blind imitation of the western culture had proved to be too costly for the country. He invoked the audience to act as the custodians of society. To encourage quality research work amongst the faculty members, certificates and cash awards were conferred. This year the recipients of the award included Prof. Sangeeta Vyas, Dept. of Chemistry, Prof. Archana Saxena, Head,





Dept. of Chemistry, Dr. Niraja Saraswat, Reader, Dept. of English, Dr. Pramila Kumawat, Sr. Lecturer, Dept. of Mathematics, Mr. Praveen K. Jain, Reader, Dept. of ECE, Dr. Sharda Soni, Reader, Dept. of Chemistry, Mrs. Archana Rai, Sr. Lecturer, Dept. of Mathematics, Ms. Rukhsar Zafar, Sr. Lecturer, Dept. of ECE and Dr. Anurag Sharma, Sr. Lecturer, Dept. of Chemistry. Dr. S. K. Calla, Principal, SKIT proposed a vote of thanks to the guests and speakers. The celebrations culminated in a cultural programme put up by the students in the memory of our freedom fighters and ended with distribution of sweets to all.

## REPUBLIC DAY CELEBRATION

SKIT celebrated the 64 Republic day in an atmosphere redolent with patriotism and a deep feeling of gratitude for the freedom fighters. The celebration began with the flag hoisting ceremony. Mr. Surja Ram Meel, chairman, SKIT, expressed his concern over the declining enthusiasm in the student community about national days. He spoke about the sacrifices of freedom fighters which can prove fruitful only if every Indian is committed to the service of the country. He exhorted the youths to be inspired by Swami Vivekananda and Swami Keshvanand who had no resources at their disposal and yet contributed so much towards social development. He invoked the teaching community to find time in their periods to teach ethics to students. He also articulated his deep concern over the decreasing values in the society.

Dr. Anil Bafna, vice chairman, SKIT, termed the Republic Day as a day of introspection and resolutions. Blind imitation of western ideology has led us deep into materialism & commodification of women. He said that the youth has immense potential; the need is to shift the focus from rights to duties. He advised students to frame a charter of their own lives and be guided by that charter to succeed in life.

Mr. K. R. Bagaria, Founder Director of SKIT, also expressed his worry over the decreasing number of students on the national days. He also warned that the nation's future would be bleak if the credibility and moral authority of the constitutional institutions were not restored. Mr. Jaipal Meel, Director of SKIT, extended his congratulations on the occasion and invoked the student community to play a vital role in the innovation and development of India.

Prof. (Dr.) S. L. Surana, Director Academics regretted that though SKIT is committed to an all round development of students, they still get misguided and fail to be regular in their classes. He urged the students to be sincere in their duties towards their parents, society and the country. He said that honesty, discipline and



integrity are essential to be successful in life. Prof. M. L. Bhargava, Advisor, asked the would be engineers to have an analytical approach and inspired them to take initiative and put our nation on the highest pedestal in the international arena.

Mr. Ashish Nayyar, Reader, Dept. of ME, talked about the generation gap.

Prof. N. K. Banthia, Head, Dept. of ME, read out an excerpt reminding us of the legacy of our predecessors. He also proposed a vote of thanks. The celebration culminated in a cultural programme including a skit directed by Nimesh Patni which left the audience spellbound. The programme ended with the distribution of sweets to all.

## ENGINEERS' DAY CELEBRATED

The Institution of Engineers, Rajasthan State Centre, Jaipur in collaboration with SKIT and Rotary Club, Jaipur celebrated the Engineers' Day with great fun and frolic on 15 September, 2012 to commemorate the great visionary and engineer Sir Mokshagundam Visvesvaraya. The celebration was marked by the gracious presence of Mr. R. K. Sharma, Ex-Director, RSEB as the chief guest and Mr. J.L. Sehgal, Chairman, IE, RSC, Jaipur and Mr. P. C. Sanghi, IE member, RSC, Jaipur and current President of Rotary Club, Jaipur as the guests of honour. Prof. S. L. Surana, Director (Academics), SKIT welcomed the dignitaries and expatiated upon the significance of engineers in today's world. He asked the students to apply their scientific knowledge for the unprecedented growth of India.

Mr. J. L. Sehgal highlighted the need of celebrating the Engineers' Day as it involved recognizing the great work done by people like Dr. APJ Abdul Kalam, George Bell and Madam Curie. Mr. R. K. Sharma, the chief guest of the occasion enumerated the achievements of the legendary engineer Sir Mokshagundam Visvesvaraya and explained the benefits of research on conventional technology. He also listed out the achievements of our country in developing nuclear technologies, meteorological





advancements, quality of minerals and plethora of vaccines. Highlighting the vast opportunities for young generation in the field of engineering, he advised not to get confused due to the complexities but to be optimistic and progress ahead in pursuit of success. He also talked about the progress of India in the field of science and technology and the benchmarks set by Indians in various areas. Mr. P. C. Sanghi asked the students to abide by the rules of engineering ethics and not to follow things blindly. Dr. S.K. Calla, Principal, SKIT proposed a vote of thanks to the guests and wished all the budding engineers a bright career. The programme also included cultural events like solo song, group song and poems by the students. The program was coordinated by Mr. Sarfaraz Nawaz, Reader, Dept. of EE, Mr. Ankush Tandon, Sr. Lecturer, Dept. of EE and student representatives.

## GUEST LECTURE HELD

A motivational seminar was jointly organized by Instrumentation Limited (IL), Kota, Rotary Club, Bapunagar, Jaipur and the Rotract Club of SKIT on 1 September, 2012. Er. P.M. Bhardwaj, Chairman and Managing Director, IL, Kota presided over the seminar as the chief guest. Er. P. C. Sanghi, President, Rotary Club, Bapu nagar, Jaipur also graced the occasion with his benign presence.

Mr. Surja Ram Meel, Chairman, SKIT introduced the chief guest and briefed the students about the philanthropic projects of the Rotary Club. He also thanked the dignitaries for sparing their valuable time.

Er. P. M. Bhardwaj highlighted the importance of an industry institution interface. He shared his personal experiences with the students and advised them to read the sayings of the holy saints and try to be good human themselves. He also expressed his belief that the Indian youth is a storehouse of tremendous energy. Laying much store by St. Kabir's sayings, he asked the students to believe in the supreme power of diligence and determination. Dr. S.K. Calla, Principal, SKIT proposed a vote of thanks to the guests for motivating the students and unraveling the emotional aspects of the inner self.

## SPIRITUAL ORIENTATION

A spiritual orientation programme was organized for the students as well as the faculty members where Swami Adhyatmanand Ji (from Shivanand Ashram) threw light on the importance of moral ethics and culture to counter the fast advancing materialism in our society. The fast track generation of today, barely stops to ponder over the basics of human life, whereas the mind and the body should be given ample space to meditate. In this blind rush for success, one tends to skip ones' ideals and is tempted to undertake a short cut that in the long run proves to be fatal.

Swamiji, while addressing a mass of 250 students in the seminar hall, asked them to tread on the holistic track of human life which is devoid of all worldly sins. He advised the students to save themselves from falling prey to the enticing models of current lifestyles and asked them to accomplish their work with diligence and a positive approach. A tree plantation programme was also taken up by Swamiji on the same day. The ceremony was also attended by Mr. Surja Ram Meel, Chairman and Prof. (Dr.) S. L. Surana, Director Academics.



## PROF. G.R. VERMA'S DISCOURSE

A special session by Prof. G.R. Verma, a noted mathematician and Emeritus Professor, University of Rhodes Island, U.S.A. was organized for students. He presented a motivational talk and discussed the importance of mathematics for students. Narrating the excerpts from his own life he shared that mathematicians have contributed with their utmost knowledge. He also enumerated the interesting ways to solve complicated sums.



# DEPT. OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

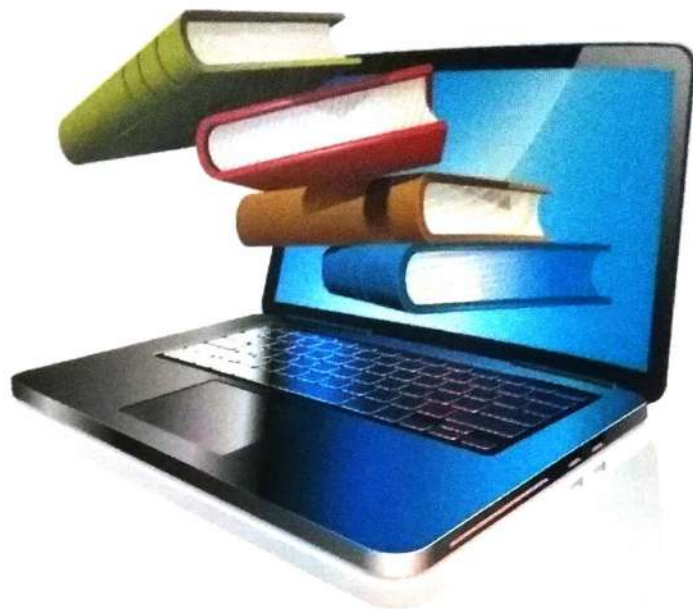
## NATIONAL CONFERENCE ON "EMERGING TECHNOLOGIES IN COMPUTER ENGINEERING"

Department of Computer Science & Engineering successfully conducted a National Conference on Emerging Technologies in Computer Engineering under the technical co-sponsorship of Computer Society Chapter, IEEE, Delhi Section and in association with HCL on 3 Nov. 2012. The conference aimed to deliberate on the enabling infrastructure, policies and resources, and identify the critical success factors that build and sustain initiatives in Computer Engineering and Information Technology.

The conference included focused panels, discussions and sessions providing a unique opportunity for participants to share knowledge, information, news, views and network with peers and experts from the country. The conference included three plenary and three parallel sessions comprising 48 speakers and over 113 participants including key decision makers from government, industry leaders, practitioners and academicians from all over the country.

The eminent guests and dignitaries who graced the occasion included Mr. Rakesh Verma, Principal Secretary, Planning Department, Government of Rajasthan, Mr. Daman Dev Sood, CIO and Head- Sustainability Practice, IEEE Ambassador, India, Mr. Ripu Daman Associate Vice President, HCL Infosystems, Jaipur, Mr. Vinit Goyal, Manager, Infosys Technologies Ltd., Mr. Rajesh K. Jeypaul, Technology Executive, IBM Innovation Center, Bangalore, IBM India, Dr. V. K. Dubey, Retired Chief Scientist, CEERI Pilani, Prof. (Dr.) V. K. Chaubey, Professor & HOD, BITS Pilani.

The IBM panel session was organized to discuss the theme "Meeting the Industry Demand by Academia". The objective was to explore the possibility of having a customized curriculum as per the needs of the industry. There were various experts from IBM, HCL, Infosys, CEERI and also from Rajasthan Technical University. This session was chaired by Prof. R. P. Yadav, Honb'le Vice Chancellor, an initiative aimed at bridging the gap between it and the academia.



Mr. Rohit Khanna, General Manager, IBM laid out before the participants the expectations of the industry in terms of skills, knowledge and attitude. He also apprised the audience of IBM's initiative to create a skilled and competitive IT workforce. Mr. Ripu Daman outlined the various skills like analytical skill, communication skill and team work which are essential for success. Mr. Vineet Goyal defined the dedicated, disciplined and motivated attitude of industry professionals. Dr. V. K. Dubey explained the importance of practical knowledge and stressed upon frequent industry-academia interactions.

Undoubtedly this day-long interface unveiled the challenges and set forth illuminating ideas, fresh insights and alternative ways of thinking about the competitive yet cooperative combat that the world of computing is readying itself for.

## CAMPUS CONNECT WEBINARS

A webinar is an effective virtual communication and collaboration medium using Internet. It helps to bring together subject matter experts (SMEs) and a target audience, i.e., students in a virtual meeting room, and allows them to share the knowledge and discuss the issues effectively.

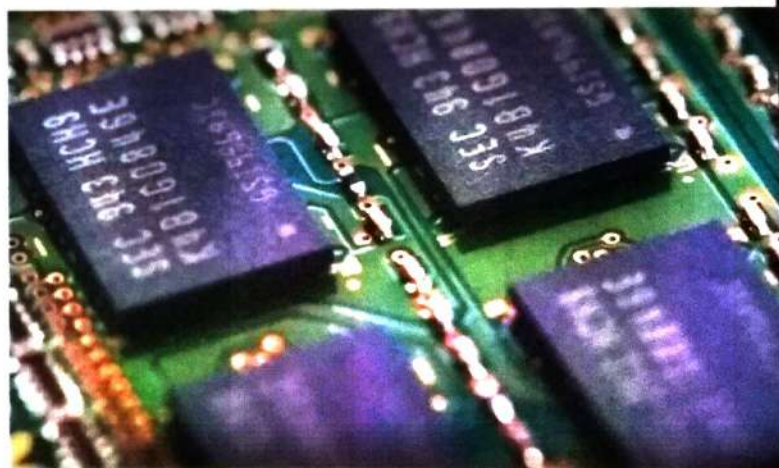
1. The Campus Connect Webinars were held on 30 November, 2012 and 4 December, 2012 on "Practitioner's View on the Significance of Software Engineering" and were attended by all the faculty members of the department. Ms. Deepti Madan Nirmal, Technology Lead, Engineering Services interacted with the faculty members on Test Strategizing in a Software





World. Mr. Yogesh K. Rohilla, Project Manager, Engineering Services spoke to the faculty members on Planning: an Effective Metrics Model for a Software Release.

2. Neeraj Kakar, Senior Project Manager, Infosys conducted a webinar on 14 Feb. 2013. The main motif was to elaborate the concept of Product Engineering and its relevance in today's scenario.
3. A webinar on Customer Relationship Management was organized on 21 February 2013 .Mr. Saket Aggarwal, Senior Project Manager, Infosys Ltd.spoke about the Evolution, Relevance, Features Technologies and Career Prospects of CRM Domain.
4. Various webinars were organized by the department on varied themes such as Current Trends in Product and Application Development, Significance of Implementing Coding Standards", "Test Plan Generation, "Object Oriente Concepts with real world examples - Learn the Industry way".The webinars were addressed by eminent resource persons from the industry including Mr. Abhishek Srivastava Technology Architect, Sunil Sahoo, Senior Member, Education and Research, Bhupesh Deka ,Education and Research, Infosys Technologies Ltd.
5. Campus Connect Webinar was held on "The World of Product Engineering" on 7 May, 2012. Mr Sudhir Srivastava, Delivery Manager, Engineering Services, Infosys Technologies addressed the faculty members. The purpose was to leverage the global project's experience of Infosys to create awareness about the use of IT in different industry verticals.
6. Prof. M. L. Bhargava, Advisor, SKIT organized a Campus Connect Webinar on "Values and Ethics in Engineering Education" on 3 August, 2012.



## FACULTY ENABLEMENT PROGRAMME

To familiarize the faculty members with the Infosys Campus Connect Programme, an in-house Peer Faculty Enablement Programme was conducted by CS/IT department over five days from 26 Nov. 2012 to 1 Dec. 2012. It included various sessions on modules like ICS, OS, PST, P&T, OOC, RDBMS etc. It was successfully coordinated by Mrs. Sanju Choudhary and Mrs. Richa Rawal, Lecturer in the department.



## WORKSHOP ON CHALLENGES AND SOLUTIONS FOR AN IT PROFESSIONAL

Department of CS/IT organized a workshop for IV, VI & VIII semester students on 13 March, 2013. The session was conducted by Prof. Sagar Hawaldar from Carnegie Mellon University USA who instructed the students on "What challenges does an IT professional face and what are the solutions".

## IBM ACADEMIC INITIATIVES

IBM conducted a Rational Functional Tester (RFT) from 25-28 July, 2012 at SKIT premises. The introductory course is designed to familiarize professionals with the basics of the rational test automation tools for use in testing Java, Microsoft VB.net and HTML based Web applications. Testers can build, enhance and maintain scripts in a full-function Java IDE that integrates with the IBM Rational Software Development Platform products. Hands-on lab exercises were provided so that participants could explore the power of using Functional Tester. The Functional Tester application builds effective and resilient test scripts using Java code and Script Assure technology. The training was attended by 109 participants and was conducted by Mr. Sunny Narang, Team Leader, IBM SWG. The programme was successfully coordinated by Ms. Jyoti Bhatnagar, Lecturer, Dept. of IT/CS.

## CAMPUS CONNECT 'CO TEACH ELECTIVE'

Infosys Campus Connect "Co-Teach Elective" is a new offering for Campus Connect Partner Institutions and offers an opportunity for the students to learn the principles from Infosys subject matter experts and practitioners. Technology will be leveraged to conduct these virtual classroom sessions to a live audience. This programme aims to make the students industry ready by providing application oriented exposure to fundamental concepts, and also by exposing them to the best practices of the industry.

In the same series a Pre -Know Foundation Programme Test was conducted on 4 Feb 2013. SKIT is also a key participant in "Co-Teach Elective" scheduled from Feb. 2013 to April 2013.

## INDUSTRIAL TOUR

No. of Students	: 89
Company Visited	: RSB Systems Gurgaon, HCL Mohali, Intex Shimla
Faculty Accompanied	: Mr. Manoj Nama, Sr. Lecturer, Mr. Kailash Soni, Lecturer, Ms. Poonam Varshney, Sr. Lecturer, Ms. Jyoti Bhatnagar, Lecturer, Dept. of CS/IT
Dates	: 22 January-26 January 2013



## INDUSTRIAL TOURS

To promote research work amongst the faculty and staff members, the department purchased a variable compression ratio computerized diesel engine in IC Engine Laboratory and a Five Axis Pick and Place Robot in CAM and Robotics laboratory.

Industrial tours for VI Sem. Mechanical Engineering students were organized by the ME Department. The students were divided in three groups. The details of tours are as follows:

Kota; Rana Pratap Dam and Hydro Electric Station, Rawatbhata.

For  
Date  
Industry Visited  
Coordinated By

: B. Tech. VII Sem. Students  
: 13 August, 2012  
: BOSCH Ltd. Jaipur  
: Mr. S.B. Bheem, Reader, Dept. of ME,  
Mr. Anandi Lal Kumawat, Lecturer  
and Mr. Vishal Vijayvergia, Lecturer,  
Dept. of ME



### Group-A

No. of Students : 57  
Faculty Coordinators : Mr. Ashish Nayyar (Reader, Dept. of ME), Mr. Nitin Goyal (Lecturer, Dept. of ME)  
Industries Visited : Hindware Sanitary Ware India Limited, Orient Syntex & Mikuni Automobiles, Bhiwadi

For  
Industry Visited  
Supervised By

: IV year  
: BOSCH Jaipur  
: Mr. Vishal Vijayvergiya, Lecturer, Mr. S. B. Bheem, Reader, Mr. Anandi Lal Kumawat, Lecturer, Dept. of ME

### Group-B

No. of Students : 46  
Faculty Coordinators : Mr. S. B. Bheem (Reader, Dept. of ME), Mr. Sandeep Bhaskar (Lecturer, Dept. of ME)  
Industries & Places Visited : Orient Syntex, Federal Mougul and Visteon Climate, Bhiwadi; Ashok Leyland and Hindustan Zinc at Rudrapur; Nainital tourist spots and Taj Mahal.

For  
Industry Visited  
Supervised By

: II year  
: RSRTC Central Workshop  
: Mr. Dinesh Kumar Sharma and Mr. Bhaskar Sharma, Mr. Monu Gupta, Lecturer, Dept. of ME

### Group-C

No. of Students : 23  
Faculty Coordinators : Mr. Dheeraj Joshi (Reader, Dept. of ME), Mr. Anandi Lal Kumawat (Lecturer, Dept. of ME)  
Industries & Places Visited : Instrumentation Ltd., Kota; Kota Thermal Power Station (KTPS),

For  
Organized by  
Industry visited  
Supervised by

: II year  
: Dept. of Mechanical Engineering  
: SARAS Dairy, Jaipur  
: Mr. Dinesh Kumar Sharma and Mr. Sandeep Kumar Bhaskar, Lecturer, Dept. of ME



## INDUSTRIAL TOURS

To promote research work amongst the faculty and staff members, the department purchased a variable compression ratio computerized diesel engine in IC Engine Laboratory and a Five Axis Pick and Place Robot in CAM and Robotics laboratory.

Industrial tours for VI Sem. Mechanical Engineering students were organized by the ME Department. The students were divided in three groups. The details of tours are as follows:

Kota; Rana Pratap Dam and Hydro Electric Station, Rawatbhata.

For  
Date  
Industry Visited  
Coordinated By

: B. Tech. VII Sem. Students  
: 13 August, 2012  
: BOSCH Ltd. Jaipur  
: Mr. S.B. Bheem, Reader, Dept. of ME,  
Mr. Anandi Lal Kumawat, Lecturer  
and Mr. Vishal Vijayvergia, Lecturer,  
Dept. of ME



### Group-A

No. of Students : 57  
Faculty Coordinators : Mr. Ashish Nayyar (Reader, Dept. of ME), Mr. Nitin Goyal (Lecturer, Dept. of ME)  
Industries Visited : Hindware Sanitary Ware India Limited, Orient Syntex & Mikuni Automobiles, Bhiwadi

For  
Industry Visited  
Supervised By

: IV year  
: BOSCH Jaipur  
: Mr. Vishal Vijayvergiya, Lecturer, Mr. S. B. Bheem, Reader, Mr. Anandi Lal Kumawat, Lecturer, Dept. of ME

### Group-B

No. of Students : 46  
Faculty Coordinators : Mr. S. B. Bheem (Reader, Dept. of ME), Mr. Sandeep Bhaskar (Lecturer, Dept. of ME)  
Industries & Places Visited : Orient Syntex, Federal Mougul and Visteon Climate, Bhiwadi; Ashok Leyland and Hindustan Zinc at Rudrapur; Nainital tourist spots and Taj Mahal.

For  
Industry Visited  
Supervised By

: II year  
: RSRTC Central Workshop  
: Mr. Dinesh Kumar Sharma and Mr. Bhaskar Sharma, Mr. Monu Gupta, Lecturer, Dept. of ME

### Group-C

No. of Students : 23  
Faculty Coordinators : Mr. Dheeraj Joshi (Reader, Dept. of ME), Mr. Anandi Lal Kumawat (Lecturer, Dept. of ME)  
Industries & Places Visited : Instrumentation Ltd., Kota; Kota Thermal Power Station (KTPS),

For  
Organized by  
Industry visited  
Supervised by

: II year  
: Dept. of Mechanical Engineering  
: SARAS Dairy, Jaipur  
: Mr. Dinesh Kumar Sharma and Mr. Sandeep Kumar Bhaskar, Lecturer, Dept. of ME



## DEPARTMENT OF ELECTRICAL ENGINEERING



### AICTE SPONSORED NATIONAL CONFERENCE - 'PSOEM : POWER SYSTEM OPERATION & ENERGY MANAGEMENT VISION 2020'

EE Dept. and IE student chapter of SKIT organized a two day national conference on 'POWER SYSTEM OPERATION AND ENERGY MANAGEMENT: VISION 2020' on Feb. 16-17, 2013. The conference aimed at sharing knowledge on the existing procedures and applications based on semiconductor technology and sought to contribute in the evolution of new generation power systems. A discussion was held on critical issues concerned with the development of today's power systems. The various talks and research papers, presented during the conference delineated the existing operating and control strategies used in the power system.

Shri S.R. Meel, Chairman, SKIT welcomed the invited guests and the participants. Dr S. L. Surana, Director (Academics) introduced the theme of the conference and described the growth of power system, the challenges before the Indian Power system and the remedial steps needed to face the challenges. Motivational speeches were delivered by guests Dr. Dinesh Kumar Goyal, Principal Secretary, Horticulture Department, Govt. of Rajasthan and Mr. B.N. Saini, Director Operations, RRVNPL, Jaipur. Papers



were presented in 4 technical sessions which were chaired by Dr. K. R. Niazi, Dr. Jayashree Vajpai, Dr. Nitin Gupta and Dr. C.M. Arora respectively. Apart from paper presentations, keynote addresses were also delivered by the chairpersons of the sessions. The conference provided a deep insight into the existing control procedures and suggested ways to evolve new generation of power networks as well.

### S2S PRESENTATION FORUM

The Electrical Technical Club (under IE Students' Chapter) organized Student to Student Interaction Forums, in which two selected Final Year Students' Projects were discussed and explained to students of I, II and III Year. Each Forum was attended by 80 students. It provided an open platform to the students, to interact and learn from their senior batches. The following Presentations were made by groups of final year students:

1. "Mobile Control of Induction Motor", by Shivam, Shivam Dwivedi, Md. Shahazam and Piyush Rawat, on 20 Feb. 2013
- "Wireless Transmission of Electrical Power", by Debojyoti, Aarti Gupta, Rishabh and Aayush on 27 Feb. 2013.

### TECHNICAL BAZAAR

A Technical Bazaar was organized by E-week on 15 Feb. 2013 in which the students of Electrical Technical Club (under IE Students' Chapter) displayed 15 projects. Students of all the years took part in it. The visiting dignitaries appreciated the projects.





## TEACHERS' DAY CELEBRATED

Teachers' day was celebrated in the college campus on 5 September 2012, by the students of II Year, EE. The students organised games like musical chair for the faculty members. They also hosted cultural programmes like dancing, singing, play, mimicry etc.

## EXPERT LECTURE

An expert lecture was delivered on 'Power System Restructuring' by Dr. M.P. Sharma (M.E., Ph.D, AEN, JVVNL) on 20 October 2012 at SKIT. The students were made aware of the economic decline of the power sector in India, which necessitates the restructuring of the existing system according to the present demands and future expansion of the network.

## AICTE GRANT

AICTE granted 1.25 lakhs as a grant to organize national conference on 'POWER SYSTEM OPERATION AND ENERGY MANAGEMENT: VISION 2020'. Consequently the conference has been organised successfully.

## SEMINAR ON RESEARCH PERSPECTIVE AND ITS IMPORTANCE

A Seminar on 'Research Perspective and its importance' was delivered by Mrs. Smriti Jain, Sr. Lecturer, EE Dept. on 20 March, 2013 by ETC under IE Students' Chapter. The functions of IC 555 and its applications with circuit configurations and calculations were explained in brief.

## IE STUDENT'S CHAPTER

The department of Electrical Engineering registered its students as members of the IE (I) Student's Chapter in July 2012, under the guidance of Mr. Sarfaraz Nawaz, Reader, Dept. of EE. It aims at promoting the general advancement of engineering, engineering science, its applications, and facilitates the exchange of information and ideas amongst the members.

IE (I) is a pioneer body which functions with and amongst professional engineers, academicians and research workers providing a vast array of technical, professional and support services to the government, industries and the academic and engineering communities.

## PS-CAD WORKSHOP

Recently a new simulation software, PS-CAD, was purchased by the Electrical Engineering department. A two day workshop on 10 and 11 January 2013 was organised to explain all significant practical features of PS-CAD to the faculty members.

## INDUSTRIAL TOURS

For	: III year
Date	: 26 September 2012
Industry visited	: Kalptaru Power Transmission Ltd. ( 7.8 MW Biomass Power Plant), Uniyara, Raj
Supervised by	: Mrs. Smriti Jain, Mr. Deepak Pareta, Lecturer, Dept. of EE
For	: III year
Date	: 17-22 Jan., 2013
Industry visited	: Parle, Neemrana, EPIP Park, Neemrana, Havells Electricals, Neemrana, Anchor Power Ltd., Delhi, BHEL, Haridwar, Rajaji Hydro Power Plant, Haridwar
Supervised by	: Ms. Kavita Jain, Mr. Deepak Pareta, Mr. Hemant Sharma, Lecturer, Dept. of EE



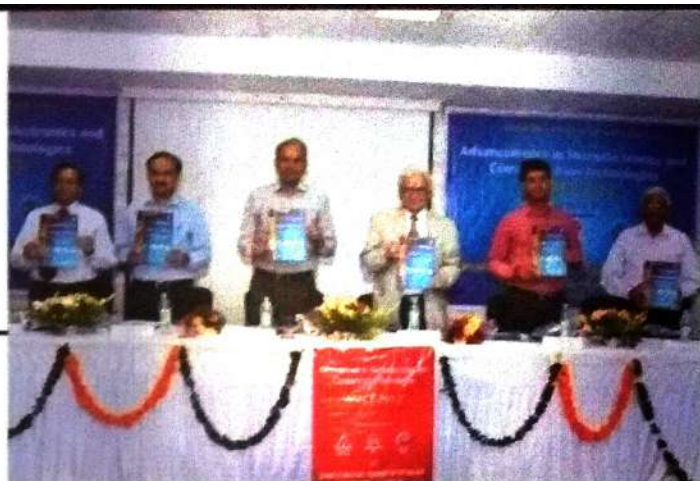
# DEPARTMENT OF ELECTRONICS AND COMMUNICATION

## NATIONAL CONFERENCE ON ADVANCEMENTS IN MICROELECTRONICS AND COMMUNICATION TECHNOLOGIES

Engineering is not merely being knowledgeable like a walking encyclopedia; engineering is the art of practising the ongoing technological change. Keeping in view the aforesaid quote, the department of Electronics and Communication Engineering, SKIT, Institution of Electronics and Telecommunication Engineers (IETE), Jaipur and Pilani and CSIR-CEERI, Pilani jointly organised tutorials and a national conference on Advancements in Microelectronics and Communication Technologies (AMCT 2013) from 15 March 2013 to 17 March, 2013.

The first session was devoted to two tutorials on Microsensors, MEMS packaging and Nano Technology. The day was graced with the presence of Dr. P.K. Khanna, Chief Scientist and Head, Hybrid Microcircuits Group, CSIR-CEERI, Pilani and Dr. Nitin Kale, Chief Technical Officer, NanoSniff Technologies, IIT, Mumbai as esteemed guests. The topics discussed were Advanced Packaging Techniques, LTCC technology and Nano technology. These tutorials prepared a breeding ground for the upcoming topics.

The second day of the conference was observed as the inaugural day and witnessed the gracious presence of Dr. S.Pal, distinguished scientist and Chief Adviser, ISRO Satellite Center, Bangalore as the Chief Guest. Mr. Surja Ram Meel, Chairman, SKIT heartily greeted everyone in his welcome note and talked about the practical benefit of the conference. Mr. Jaipal Meel, Director, SKIT presented a briefing of the conference and highlighted the importance of the continuous flow of knowledge. Dr. S.K. Bhatnagar, Director(R&D), SKIT presented his views on the relevance of the conference and also revealed what would be extracted from this jackpot of knowledge. Another dignitary, Mr. Sanjay Kumar, General Manager, BSNL, Jaipur talked about IETE student-industry interface and the chapters of IETE. The Chief



Guest, Mr. Pal apprised the audience of technologies like processor handling, miniaturization etc. He also talked about encouraging innovative ideas. Talks were given by guests who included Prof.J.P. Raina, Director, Centre for Nanotechnology Research, Vellore, Dr. Anil Kumar, Chief Scientist, Sensors and Nanotechnology Group, CSIR-CEERI, Pilani, Dr. S. K. Koul, Dy. Director, IIT, Delhi and Dr. G.D. Sharma, Director (Academics & Research), JEC, Kukas, Jaipur. A souvenir of the conference was also launched by the guests.

The third day started with technical sessions, but also included talks by some eminent guests like Dr. Vijay Janyani, Associate Professor, ECE department, MNIT, Jaipur, Mr. R.C. Dubey, Professor, ECE deptt., IES, IS Academy, Indore, Mr. Rajesh Agrawal, Additional General Manager, BSNL, Jaipur, Mr. Y. K. Morya, Additional General Manager, BSNL, Jaipur, Mr. O.P. Mehra, Chief Communication Engineer, N. W. Railway, Jaipur and Dr. Vishnu Srivastava, Chief Scientist, CSIR-CEERI, Pilani.

The valedictory ceremony was held in the second half of the day. Present on the occasion was Prof. R. P. Yadav, Vice Chancellor, RTU, Kota who was also the chief guest. He spoke on the emerging need to understand this technologically advanced world. Dr. S.K. Calla, Principal, SKIT presented a vote of thanks. The conference proved highly beneficial for the students as well as the faculty members.

## INDUSTRIAL TOURS

To prepare students for global workplaces, illustrate theoretical concepts, and make abstract topics/concepts more concrete, industrial tours have been conducted:

For	: B. Tech. V Sem. Students
Date	: 27 September, 2012
Industry Visited	: Akashvani Kendra, Jaipur



## DEPARTMENT OF CIVIL ENGINEERING

### INDUSTRIAL TOURS

For : II year  
Industry visited : Ultra-Tech Cement Manufacturing Plant,  
situated near Kotputli  
Supervised by : Prof. L. N. Dutt, Head, Mr. Dipendra Singh  
and Mr. Manmohan Sharma, Lecturer, Dept.  
of Civil Engineering



## DEPARTMENT OF BASIC SCIENCES AND HUMANITIES

### SEMINAR ON COMMUNICATION SKILLS

On 13 September, 2012, an interactive seminar was organized for the faculty members where Ms. Geetha Ramamurthy, Executive Director of TIE, Boston emphasized the need of communication skills in all walks of life-familial, social and professional. She also asserted that English has acquired unlimited significance because it is not only the language of international business but also the language of the cyber world.

### POISE EXTEMPORE DECLAMATION CONTEST

'POISE' (Personality Orientation through Interactive Skills Enhancement) was brought into being to prod the students to communicate in English and that it has been doing by organizing stimulating activities like G.D. , P.I. and debates in its sessions .It held Hindi and English extempore declamation contest for B.Tech. II year students on 10 and 11 of October .Extempore speeches are hard to make for they are carried out without any preparation or forethought. But the numbers and performance of the participants belied our fears.

Rajdeep Sukhwil of EC-B with his witty and humorous speeches on "The Wall Clock" and "Bhole Bhale" in English and Hindi

respectively was the winner in both the events and was awarded the gold medal. The I runner up in Hindi getting the silver medal, was Sandeep Agarwal of IT-B. He delivered his speech on the famous poem of Ashok Chakradhar, "Bol Gappe" . The bronze medal was won by Narendra Singh of EE who also bagged the silver medal in the English debate. Tripti Mathur of IT-B spoke on the topic "Words" and was the II runner up and thus got the bronze medal in the English counterpart of the event. It was a hardfought competition in both the events and it was warmly appreciated by a large and patient audience. The guests of honour at the competitions were Prof. (Dr.) S.L. Surana, Director (Academics) and Dr. S.K. Calla , Principal, SKIT. The jury comprised Mrs. Abha Meel , Dr. Niraja Saraswat , Mr. Harminder Singh and Mr. I.B. Abrol . The masters of ceremonies were Ankul Jain and Mansi Patel for the English debate and Abhishek Saxena and Jahnavi Sharma for the Hindi one. The entire event was a huge success with the active participation of the students and the hard work of the organizing committee led by Mr. I. B. Abrol and Ms. Manisha Kaushik.

### MODEL EXHIBITION

A one day model exhibition was organized by the students of first year, department of Civil Engineering on 8 May, 2013. The event saw young enthusiastic participants putting up 15 participatory exhibits comprising of innovative working models and investigation based projects. The exhibits by the participants were indeed eye openers on various topics related to Green Energy, Innovation in Transport, Communication, Agriculture, Technology, Bio- diversity, Community Health, Environment



## DEPARTMENT OF MANAGEMENT STUDIES

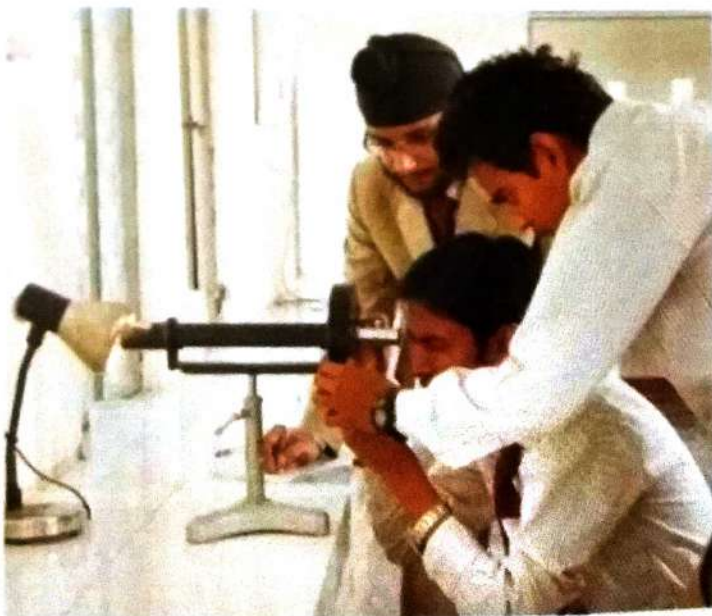
- Department of Management Studies organized an industrial tour to Chandigarh and Shimla for 6 days to visit the well-known companies like Milestone Gears Pvt. Ltd., Jay Bee Industries, Himtelnoforge Ltd., Morepen and Directorate of Mushroom Research. It gave practical exposure to the students by allowing them to witness the production processes and marketing strategies adopted by these companies.
- Department of Management Studies arranged a one day industrial visit to Parle Biscuits Pvt. Ltd., Neemrana in the month of April.



Modeling. The projects delivered strategies to enhance the impact of research/technology and strengthened regional capacities for the sustainable management of water resource. The judges applauded the students for their novel ideas which would help the world to become a much better place to live in. The models entitled as Civil Modern Colony, Indian Island City and Hotel Golden Tulip were declared as winner and runner ups model. The event was coordinated by Dr. Vinita Sharma, Chief Coordinator, Extra Curricular Committee.

## INDUSTRIAL VISIT

Date : 27 Feb. 2013  
 For : B. Tech. I year  
 Industry visited : Bhaskar printing Plaza, Jaipur  
 Supervised by : Prof. Archana Saxena, Head, Dept. of Basic Sciences and Humanities, Dr. Lalit Gehlot, Sr. Lecturer, Mrs. Chitra Munro, Lecturer, Dept. of Physics, Dr. Shalini Shekhawat, Lecturer, Dept. of Mathematics





## RESEARCH PAPERS PUBLISHED

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**TITLE** : Biodiesel Production from *Jatropha Curcas* in India: A Review  
**PUBLISHED** : International Journal of Engineering Research & Technology, Feb.2013, Vol.6, No.2, pp.143-146, ISSN 0974-3154.  
**AUTHORS** : Mr. Dinesh Kumar Sharma ,Lecturer, Dept. of ME, Mr. Ashish Nayyar ,Reader, Dept. of ME

**TITLE** : Accreditation of Undergraduate Engineering Degree Programmes in India: Changes due to Washington Accord.  
**PUBLISHED** : Journal of Engineering, Science & Management Education, Vol-5 Issue-II (445-451)  
**AUTHOR** : Prof. N.K. Banthiya, Head, Dept. of ME

**TITLE** : Sequential Design & Implementation of 2D-DCT.  
**PUBLISHED** : ICEEE-2012, International Conference for Electronics & Electrical Engineering  
**AUTHOR** : Ms. Suman Sharma, Sr. Lecturer, Dept. of ECE

**TITLE** : Improved Design of Photonic Crystal Waveguide With Electrical Hole for Enhance Slow Light Performance.  
**PUBLISHED** : International Journal, Optical Engineering 51 (6), 064001, June 2012, SPIE  
**AUTHOR** : Ms. Rukhsar Zafar, Sr. Lecturer, Dept. of ECE

**TITLE** : Multiband Circularly Polarized Micro Strip Patch Antenna for Mobile Communication.  
**PUBLISHED** : International Journal of Soft Computing and Engineering, ISSN-2231- 2307, Vol-2, Issue -3, July 2012  
**AUTHOR** : Mr. Mukesh Arora, Reader, Dept. of ECE

**TITLE** : Introducing New Meta Search Model through Content based Image Retrieval Algorithm.  
**PUBLISHED** : International Journal of Computer Applications IJCA (09758887) Volume 52-No.13, August 2012  
**AUTHOR** : Mr. Pankaj Dadheech, Reader, Dept. of CSE

**TITLE** : L.R.S. Bianchi type V Cosmological Model with Heat Conduction in General Relativity.  
**PUBLISHED** : Proc. Computatia -2012 , pp 81-85 published by Rajasthan Academy of Physical Sciences  
**AUTHOR** : Dr. Pramila Kumawat, Sr. Lecturer, Dept. of Mathematics.

**TITLE** : History and Myth in Shashi Tharoor's *The Great Indian Novel*.  
**PUBLISHED** : International Journal of Language, Literature and Literary Theory. Oct 2012. Vol 1, Issue 4, ISSN-2277 3967.  
**AUTHOR** : Dr. Nidhi Sharma. Sr. Lecturer, Dept. of English.

**TITLE** : Art of Story Telling in Tharoor's *The Great Indian Novel*.  
**PUBLISHED** : Contemporary Discourse : an International Journal, ISSN 09763686, Vol 3, Issue 3.  
**AUTHOR** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English.

**TITLE** : Reduction of Distribution Losses by Combined Effect of Feeder Reconfiguration and Optimal Capacitor Placement  
**PUBLISHED** : International Journal of Recent Research and Review, Vol. II, June 2012  
**AUTHOR** : Mr. Sarfaraz Nawaz, Reader, Dept. of EE

**TITLE** : Improved Design of Photonic Crystal Waveguides With Elliptical Holes for Enhanced Slow Light Performance"  
**PUBLISHED** : International Journal of Optical Engineering, SPIE, 51(6), 064001 ,June 2012  
**AUTHOR** : Ms. Rukhsar Zafar, Sr. Lecturer, Dept. of ECE

**TITLE** : Impact of Politics on Caste and Gender in Nayantara Sahgal's *Rich like Us*  
**PUBLISHED** : The Criterion, An International Journal in English, quarterly refereed and indexed open access Journal. Dec. 2012, Vol.III, Issue IV, ISSN 0976-8165.



**AUTHOR** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English

**TITLE** : Innovative Techniques for Teaching English to Second Language Learners

**PUBLISHED** : International Journal of English and Literature (IJEL), ISSN (Print):2249-6912 ISSN(Online): 2249-8028, Vol.3, Issue1, Mar 2013,83-88.

**AUTHOR** : Dr. Niraja Saraswat, Reader, Dept. of English

**ITILE** : "Truncated Elliptical Patch Antenna for Broadband Performance"

**PUBLISHED** : Proceeding of SPIE (International society for optics and photonics) Vol. 8760, pp 87601 Q1 –Q8 [2013].  
(proceedings.spiedigitallibrary.org)

**AUTHOR** : Mr. Braj Raj Sharma, Sr. Lecturer, Dept. of Physics

**TITLE** : Design and Performance of a Broadband Circularly Polarized Modified Semi Elliptical Patch Antenna",

**PUBLISHED** : Proceeding of SPIE (International society for optics and photonics) Vol. 8760 pp 87602 E1 –E6 [2013].  
(proceedings.spiedigitallibrary.org)

**AUTHOR** : Mr. Braj Raj Sharma, Senior Lecturer, Dept. of Physics

**TITLE** : "Circularly Polarized Wideband Semi Elliptical Patch Antenna with Annular Slot"

**PUBLISHED** : Proceeding of National Conference on Recent Trends in Microwave Techniques and Applications (Microwave - 2012), Jaipur, 30 July–1 August, 2012.

**AUTHOR** : Mr. BrajRaj Sharma, Senior Lecturer, Dept. of Physics

**TITLE** : Wide Band Elliptical Patch Microstrip Antenna using Shorting Pin

**PUBLISHED** : Proceeding of National Conference on Recent Trends in Microwave Techniques and Applications (Microwave - 2012), Jaipur, 30 July–1 August, 2012

**AUTHOR** : Mr. BrajRaj Sharma, Senior Lecturer, Dept. of Physics

**TITLE** : Dual band and Broadband Rectangular Patch Patch Antenna with T Shaped Slot for WiMax Applications

**PUBLISHED** : International Journal of Engineering

Research and Development, Volume 3, Issue-12, p.p. 14-21.

**AUTHOR** : Dr. Komal Sharma, Reader, Dept. of Physics

**TITLE** : *Shaw's Career Heroine: An Analysis of Mrs. Warren's Profession and Major Barbara*

**PUBLISHED** : The Criterion, An International Journal in English, quarterly refereed and indexed open access Journal. March 2013, Issue 12, ISSN 0976-8165

**AUTHOR** : Dr. Niraja Saraswat, Reader, Dept. of English

**TITLE** : Encountering Chaos from Colonial to Post colonial World

**PUBLISHED** : Wavelength of Accord, Bodhi Prakashan, Issue: 1, ISBN : 978-93-82452-40-9

**AUTHOR** : Dr. Lalit Gehlot, Sr. Lecturer, Dept. of English

**TITLE** : Photonic crystal fibre as low loss dispersion flattened fibre and ultra low confinement loss

**PUBLISHED** : International Journal of Engineering Technology and Advanced Engineering(IJETAE)

**AUTHOR** : Mrs. Rajni Idwal, Sr. Lecturer. Dept. of ECE

**TITLE** : "Analysis of Variation in Solar Panel Parameter with respect to Solar Idolization and Temperature"

**PUBLISHED** : International Journal of Scientific & Engineering Research Volume 3, Issue 9, September-2012,

**AUTHOR** : Mr. Sarfaraz Nawaz, Reader, Dept. of EE

**TITLE** : "Understanding Operation of Shunt Capacitors and OLTC for Transmission Loss Reduction"

**PUBLISHED** : International Journal of Electrical Engineering& Technology (IJEET) , Volume 4, Issue 2, March – April (2013), pp. 344-357

**AUTHOR** : Mr. Sarfaraz Nawaz, Reader, Dept. of EE

**TITLE** : The Plight of Less Privileged in Mulk Raj Anand's 'Untouchable' and Premchand's 'Godan'

**PUBLISHED** : International Journal of English Literature, Language & Skills, ISSN 2278-0742, Volume 2, Issue 1, April 2013

**AUTHOR** : Dr. Niraja Saraswat, Reader, Dept. of English.

**TITLE** : Exposition of Internal Emergency in Sahgal's 'Rich like us'

**PUBLISHED** : International Journal of English Literature, Language & Skills, ISSN 2278-0742, Volume 2, Issue 1, April 2013

**AUTHOR** : Dr. Nidhi Sharma, Reader, Dept. of English.



## RESEARCH PAPERS PRESENTED

**TITLE** : Energy Saving Through Biomass Gasification  
**SEMINAR** : National Conference on Energy Efficient System Design and Manufacturing  
**DATE** : 31 March, 2012  
**VENUE** : VIT Campus, Jaipur  
**AUTHORS** : Mr. Manoj Kumar Sain, Reader, Ms. Anshul Singh, Lecturer, Mr. Nitin Goyal, Lecturer, Dept. of ME

**TITLE** : Railway Tie: Dynamic Composites.  
**CONFERENCE** : National Conference on Energy Efficient System Design and Manufacturing  
**DATE** : 31 March, 2012  
**VENUE** : VIT Campus, Jaipur  
**AUTHORS** : Mr. Dinesh Sharma, Lecturer, Mr. Praveen Saraswat, Lecturer, Dept. of ME

**TITLE** : A New Approach for Designing Rectangular Micro Strip Antenna  
**CONFERENCE** : National Conference MICROWAVE - 2012.  
**DATE** : 31 July- 2 August, 2012  
**VENUE** : S.S. Jain Subodh P. G. College, Jaipur  
**AUTHOR** : Prof. S.K. Bhatnagar, Head, Dept. of ECE

**TITLE** : Remote Monitoring System Based on Embedded System.  
**CONFERENCE** : All India Seminar on Convergence of Telecommunication Technologies and Computers.  
**DATE** : 14 April - 15 April, 2012  
**VENUE** : MNIT, Jaipur  
**AUTHOR** : Mr. Sarabjit Singh, Sr. Lecturer, Dept. of ECE

**TITLE** : Certain Triple Integral Relation Involving Multivariable H- Function  
**CONFERENCE** : National Conference on Computational and Mathematical Sciences  
**DATE** : 30 Nov.-1 December, 2012  
**VENUE** : Vivekanand Institute of Technology. Jaipur  
**AUTHOR** : Dr. Shalini Shekhawat, Lecturer, Dept. of Mathematics

**TITLE** : Innovative Techniques for Teaching English

**CONFERENCE** : to Second Language Learners  
 International Conference on Empowering the English Language Classroom  
**DATE** : 18-19 January, 2013  
**VENUE** : Malaviya National Institute of Technology, Jaipur  
**AUTHOR** : Dr. Niraja Saraswat, Reader, Dept. of English

**TITLE** : The Sexual Politics: Human Trafficking inside the Business of slavery  
**CONFERENCE** : UGC sponsored National Conference on Human Trafficking: A Humane Perspective  
**VENUE** : Nehru Studies Centre, University of Rajasthan, Jaipur  
**DATE** : December 22-23, 2012  
**PRESENTER** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English

**TITLE** : Electrochemical Study of Ti(II)Complexes of Pyridine in Water & Aqueous Ethanol Media  
**CONFERENCE** : New Directions in Chemical Sciences , NDCS  
**DATE** : 7-9 December 2012  
**VENUE** : Indian Institute of Technology, Delhi  
**AUTHOR** : Dr. Vinita Sharma, Reader, Dept. of Chemistry

**TITLE** : Corporate Entrepreneurship and Role of Information Technology in Employee Retention  
**CONFERENCE** : National Conference on Human Resource Management : Challenges, Opportunities and Their Relevance in Indian Society  
**DATE** : 22 - 23 January, 2013  
**VENUE** : Faculty of Commerce, S.S. Jain Subodh P.G. College, Jaipur  
**AUTHOR** : Ms. Maneesha Kaushik, Training & Placement Officer

**TITLE** : Nanofluids for Heat Transfer Applications: A Review  
**CONFERENCE** : All India Seminar on Nanotechnology Applications  
**DATE** : 6-7 October, 2012  
**VENUE** : MNIT, Jaipur  
**AUTHOR** : Mr. Dinesh Kumar Sharma , Lecturer , Dept. of ME, Dilip Kumar Garg, V sem., Kaushik Trivedi V sem. ME

**TITLE** : Advances in Automobile with Nanomaterials  
**CONFERENCE** : All India Seminar on Nanotechnology Applications  
**DATE** : 6-7 October, 2012  
**VENUE** : MNIT, Jaipur



**PRESENTER** : Mr. Dinesh Kumar Sharma, Lecturer, Dept. of ME

**TITLE** : Biodiesel Production in India

**CONFERENCE** : National Conference on "Recent Innovations in the Power Generation Trends to Meet Global Energy Demand"

**DATE** : 23-24 December, 2012

**VENUE** : Shrinathji Institute of Technology and Engineering, Nathdwara

**PRESENTER** : Mr. Dinesh Kumar Sharma, Lecturer, Dept. of ME, Dilip Kumar Garg, V sem. ME, Kaushik Trivedi V sem. ME

**TITLE** : Biodiesel Production from Jatropha Curcas in India

**CONFERENCE** : International Conference on World Congress on Frontiers of Mechanical, Aeronautical and Automobile Engineering -2013

**DATE** : 2nd -3rd Feb 2013

**VENUE** : IIT Delhi

**AUTHORS** : Mr. Dinesh Kumar Sharma, Lecturer, Dept. of ME, Mr. Ashish Nayyar, Reader, Dept. of ME

**TITLE** : Performance and Emissions Characteristics of a Compression Ignition Engine using Blends of Corn Oil

**CONFERENCE** : International Conference on Alternative Fuels for I.C. Engines -2013

**DATE** : 6 - 8 Feb. 2013

**VENUE** : MNIT, Jaipur

**AUTHORS** : Mr. Dinesh Kumar Sharma, Lecturer, Dept. of ME, Mr. Ashish Nayyar, Reader, Dept. of ME

**TITLE** : Performance and Emissions characteristics of C.I. Engine operated on Biodiesels: Pongamia and Jatropha

**CONFERENCE** : International Conference on Alternative Fuels for I.C. Engines -2013

**DATE** : 6 -8 Feb. 2013

**VENUE** : MNIT, Jaipur

**AUTHORS** : Sarita Choudhary, Sr. Lecturer, Dept. of ME  
Anshul Singh, Lecturer, Dept. of ME

**TITLE** : TQM Implementation in an Indian Manufacturing Industry: A Case Study

**CONFERENCE** : National Conference on Manufacturing and Logistics Management - 2013

**DATE** : 8 -9 March 2013

**VENUE** : MNIT, Jaipur

**AUTHORS** : Mr. Dheeraj Joshi, Reader, Dept. of ME

**TITLE** : Structural and optical Properties of Se90-xSb10Bix (x=0,2,4,6,8,10) Amorphous Nanocrystalline Thin Films

**CONFERENCE** : National Conference on Advancement in Microelectronics and Communication Technologies

**DATE** : 15-17 march 2013

**VENUE** : SKIT, Jaipur

**AUTHOR** : Prof. R. K. Jain, Dept. of Physics

**TITLE** : On Radiation From Rhombus Shaped Microstrip Patch Antenna with Rhombus Slot For WiMax Applications

**CONFERENCE** : National Conference on Advancement in Microelectronics and Communication Technologies

**DATE** : 15-17 March 2013

**VENUE** : SKIT, Jaipur

**PRESENTER** : Dr. Komal Sharma, Reader, Dept. of Physics

**TITLE** : Broadband Parallelogram Microstrip Patch Antenna with Rectangular Slot for WiMax Applications

**CONFERENCE** : National Conference on Advancement in Microelectronics and Communication Technologies

**DATE** : 15-17 March 2013

**VENUE** : SKIT, Jaipur

**PRESENTER** : Dr. Komal Sharma, Reader, Dept. of Physics

**TITLE** : On Radiation from Rhombus Shaped Microstrip Patch Antenna with Rhombus Slot For WiMax Applications

**CONFERENCE** : National Conference on Advancement in Microelectronics and Communication Technologies

**DATE** : 15-17 march 2013

**VENUE** : SKIT, Jaipur

**PRESENTER** : Mr. BrajRaj Sharma, Senior Lecturer, Dept. of Physics

**TITLE** : Circularly Polarized Broadband Modified Rectangular Patch Antena for Wi Max Applications

**CONFERENCE** : National Conference on Advancement in Microelectronics and Communication Technologies

**DATE** : 15-17 march 2013

**VENUE** : SKIT, Jaipur

**PRESENTER** : Mr. Braj Raj Sharma, Senior Lecturer, Dept. of Physics



**TITLE** : Narrating the Nation: Politics in Literature  
**CONFERENCE** : National Conference on "Politics of Development: A Social Science Perspective."  
**VENUE** : University of Rajasthan, Jaipur  
**ORGANIZED BY** : Indian Social Science Association and PG School of Social Sciences, University of Rajasthan  
**DATE** : March 20-22, 2013  
**PRESENTER** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English

**TITLE** : Women Empowerment : Myth or Reality.  
**CONFERENCE** : Rethinking Feminism: Human Rights Approach to Women Empowerment."  
**VENUE** : University of Rajasthan, Jaipur  
**ORGANIZED BY** : Dept. of Political Science in collaboration with the National Human Rights Commission and Dept. of Life Long Learning, University of Rajasthan.  
**DATE** : 3-4 March, 2013  
**PRESENTER** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English

**TITLE** : Disappearing Daughters: Femicide in India  
**CONFERENCE** : Femicide Foeticide and Gender Violence: The Human Rights Perspective.  
**VENUE** : University of Rajasthan, Jaipur  
**ORGANIZED BY** : Nehru Studies Center and the Dept. of Political Science, University of Rajasthan,  
**DATE** : 11-12 August, 2012.  
**PRESENTER** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English

**WORKSHOP** : Nurturing the Girl Child: Sensitising the Indian Psyche  
**VENUE** : University of Rajasthan, Jaipur  
**DATE** : 30 July, 2012  
**ATTENDED BY** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English

**WORKSHOP** : Human Rights on the Occasion of International Human Rights Day  
**VENUE** : University of Rajasthan, Jaipur  
**DATE** : 8 Dec., 2012.  
**ATTENDED BY** : Dr. Nidhi Sharma, Sr. Lecturer, Dept. of English.

## SEMINAR/CONFERENCE/ WORKSHOP ATTENDED

**CONFERENCE** : Renewable Energy and Climate Change.  
**VENUE** : SMS Convention Hall, Jaipur  
**DATE** : 27 July, 2012  
**ATTENDED BY** : Mr. Ankit Agarwal, Lecturer, Dept. of ME

**WORKSHOP** : Faculty Development Programme.  
**VENUE** : SKIT, Jaipur  
**DATE** : 23 - 25 August 2012  
**ATTENDED BY** : Mr. Anandi Lal Kumawat, Lecturer, Dept. of ME

**SUMMER SCHOOL** : Present Status of Higher Education and Future Challenges - Special Summer School 2012.  
**VENUE** : UGC Academic Staff College, University of Mumbai  
**DURATION** : 23 July - 11 August 2012  
**ATTENDED BY** : Dr. Vinita Sharma, Reader, Dept. of Chemistry

**CONFERENCE** : National Conference on LTCC Technology.  
**VENUE** : CEERI, Pilani  
**DATE** : 6 - 7 September 2012  
**ATTENDED BY** : Mr. C.P. Gupta, Reader, Dept. of ECE

**WORKSHOP** : Hardware and firmware Design for ARM based Embedded System  
**VENUE** : CDAC Hyderabad  
**DATE** : 18 - 29 June 2012  
**ATTENDED BY** : Mr. C.P. Gupta, Reader, Ms. Shweta Sharma, Sr. Lecturer, Dept. of ECE

**WORKSHOP** : System Design Using FPGA and Network Security and Malware Analysis.  
**VENUE** : CDAC Hyderabad  
**DATE** : 14 - 25 May 2012  
**ATTENDED BY** : Ms. Sheetal Verma, Reader, Dept. of ECE

**WORKSHOP** : Infosys Campus Connect - Faculty Workshop on Nurturing an Industry Ready Professional.  
**VENUE** : PEC University, Chandigarh  
**DATE** : 12 - 14 September 2012  
**ATTENDED BY** : Ms. Richa Rawal, Ms. Sanju Choudhary.



Lecturer. Dept. of CS/IT

**WORKSHOP** : Deep Dive Faculty Enablement Program - Business Intelligence & Applications.  
**VENUE** : Development Center, Infosys Ltd., Chandigarh  
**DATE** : 2 - 6 July 2012  
**ATTENDED BY** : Mr. Harpreet Singh Gill, Sr. Lecturer, Ms. Rubal Gill, Sr. Lecturer, Dept. of CSE

**WORKSHOP** : Providing Exposure To Academia on Cloud Computing, Identity & Access Management (IAM), Project & Portfolio Management (PPM) and Independent Solution Vendors (ISV)  
**VENUE** : Infosys Campus Connect Project, Infosys Ltd., Chandigarh  
**DATE** : 11 June- 3 August 2012  
**ATTENDED BY** : Mr. Mehul Mahrishi, Sr. Lecturer, Dept. of CSE

**WORKSHOP** : An Advance Course on Commercializing your Product-Getting to Market  
**VENUE** : NEN at ICFAI Mumbai  
**DATE** : 13- 15 September 2012  
**ATTENDED BY** : Ms. Maneesha Kaushik, TPO

**WORKSHOP** : Campus Connect Deep Dive Faculty Enablement Programme - Business English  
**VENUE** : Infosys Technologies Limited, Chandigarh  
**DATE** : 9-11 October 2012  
**ATTENDED BY** : Dr. Lalit Gehlot, Sr. Lecturer, Mrs. Neha Purohit, Sr. Lecturer, Dept. of English

**WORKSHOP** : Training Programme on "Information Security on Virtual Training Environment"  
**VENUE** : Department of Electronics and Information Technology (DEITY), Ministry of Communications and Information Technology, New Delhi  
**DATE** : 15 - 25 January, 2013  
**ATTENDED BY** : Mr. Naveen Jain, Sr. Lecturer, Dept. of CSE/IT

**WORKSHOP** : Orientation course for National Service Scheme programme officers  
**VENUE** : Centre for Management Studies, HCM Rajasthan State Institute of Administration, Jaipur  
**DATE** : 7-13 January 2013  
**ATTENDED BY** : Dr. Lalit Gehlot, Sr. Lecturer, Dept. of English

**WEBINAR** : IUCEE Virtual Academy Webinar on Energy Systems  
**VENUE** : Department of Mechanical Engineering, SKIT  
**DATE** : 9 January 2013  
**ATTENDED BY** : All faculty members, Department of ME

**SEMINAR** : All India Seminar on Nanotechnology Applications  
**VENUE** : MNIT, Jaipur  
**DATE** : 6-7 October, 2012  
**ATTENDED BY** : Mr. Manoj K. Sain, Reader & Mr. Ankit Agarwal, Sr. Lecturer, Dept. of ME

**SEMINAR** : Seminar on SolidWorks 2013  
**VENUE** : Hotel Park Prime, Jaipur  
**DATE** : 21 November, 2012  
**ATTENDED BY** : Mr. S. B. Bheem, Reader, Mr. Manoj K. Sain, Reader, Mr. Praveen Saraswat, Lecturer, Mr. Sandeep Bhaskar, Lecturer, Dept. of ME

**CONFERENCE** : International Conference on Alternative Fuels for I.C. Engines -2013  
**VENUE** : MNIT, Jaipur  
**DATE** : 6 -8 Feb. 2013  
**ATTENDED BY** : Mr. Ankit Agarwal, Sr. Lecturer, Dept. of ME

**WORKSHOP** : Short Term Course on Communication @the Workplace  
**VENUE** : MNIT, Jaipur  
**DATE** : 18-22 Feb. 2013  
**ATTENDED BY** : Dr. Niraja Saraswat, Reader, Dept. of English

## CHIEF GUEST / GUEST OF HONOUR

**EVENT** : AVION 2k12 (Department Day Celebrations of Department of Electrical Engineering)  
**DATE** : 30 March, 2012  
**VENUE** : Poornima Institute of Engineering & Technology, Jaipur  
**CHIEF GUEST** : Prof. S.K. Bhatnagar, Head, Dept. of ECE

**EVENT** : World Telecommunication Day  
**DATE** : 17 May, 2012  
**VENUE** : Arya College of Engineering and Information Technology, Jaipur  
**CHIEF GUEST** : Prof. S.K. Bhatnagar, Head, Dept. of ECE



## TECHNICAL SESSIONS CHAIRED

EVENT : National Conference MICROWAVE - 2012  
 DATE : 31 July - 2 August 2012  
 VENUE : S.S. Jain Subodh P. G. College, Jaipur  
 CHAIRED BY : Prof. S.K.Bhatnagar, Head, Dept. of ECE

EVENT : National Conference on Advances in  
 Wireless and Optical Communication  
 Systems (AWOCS-2012)  
 DATE : 17 - 18 March 2012  
 VENUE : SKIT, Jagatpura, Jaipur  
 CHAIRED BY : Prof. S.K.Bhatnagar, Head, Dept. of ECE

EVENT : National Conference on Microwave  
 Devices and Components.  
 DATE : 22 March 2012  
 VENUE : Global Institute of Technology, Jaipur  
 CHAIRED BY : Prof. S.K.Bhatnagar, Head, Dept. of ECE

## EXTERNAL/INTERNAL EVENTS JUDGED

EVENT : M. Tech., I Sem., Practical Examination for  
 the Communication Systems Lab.  
 DATE : 26 March, 2012  
 VENUE : Government Engineering College, Ajmer.  
 JUDGED BY : Prof. S.K.Bhatnagar, Head, Dept. of ECE

EVENT : M. Tech. Dissertation of Mr. Satya  
 Narayan Vijay  
 DATE : 17 April, 2012  
 VENUE : Jaipur Engineering College, Jaipur  
 JUDGED BY : Prof. S. K. Bhatnagar, Head, Dept. of ECE

## INVITED TALKS

TITLE : Two invited talks on A. An Overview of MEMS  
 Basics B. Technologies and Materials for  
 MEMS Structures in the Short Term Course on  
 Recent Trends in Electronics and  
 Communication Engineering

VENUE : MNIT, Jaipur  
 DATE : 26 June - 27 June, 2012  
 SPEAKER : Prof. S. K. Bhatnagar, Head, Dept. of ECE

TITLE : LTCC Technology for Photonic Microsystems:  
 An Overview, at the IETE Seminar on Photonic  
 Devices and LTCC Technologies  
 VENUE : CSIR-CEERI, Pilani  
 DATE : 6 September - 7 September, 2012

SPEAKER : Prof. S. K. Bhatnagar, Head, Dept. of ECE

TITLE : Greywater Reuse in Schools and Colleges  
 for Sustainable Water Management in  
 National Conference on Environmental  
 Pollution - Challenges and Remediation

DATE : 19-20 October 2012  
 VENUE : Marudhar Engineering College, Bikaner  
 SPEAKER : Prof. Sangeeta Vyas, Dept. of Chemistry

## INSTITUTIONS VISITED

INSTITUTION : California Institute of Technology, Los  
 Angeles, USA

DATE : July 2, 2012  
 VISITED BY : Prof. Alok Mathur, Dept. of ME

INSTITUTION : Chapman University, California, USA  
 DATE : July 5, 2012

VISITED BY : Prof. Alok Mathur, Dept. of ME

## PAPERS REVIEWED

TITLE : Determination of AS(III) by Differential  
 Pulse Polarography in the Waters of  
 Camarones Area, Chile

JOURNAL : International Journal of Environmental  
 Analytical Chemistry, Taylor & Francis  
 Group

REVIEWER : Dr. Vinita Sharma, Reader, Dept. of  
 Chemistry

TITLE : New Intercalation of Organic-Inorganic  
 - 2, 4,5 Trichlorophenoxy Butyric Acid  
 Nanohybrid Into Hydroxalite-Like  
 Compounds

JOURNAL : Arabian Journal of Chemistry (Elsevier),  
 Impact factor - 1.3

REVIEWER : Prof. (Dr.) Archana Saxena, Head, Dept.  
 of Basic Sciences and Humanities

## INDUSTRIAL VISIT BY FACULTY

INDUSTRY VISITED : CEERI Pilani  
 OBJECTIVE : To establish a research centre in SKIT  
 DATE : 6-7 September, 2012  
 VISITED BY : Prof. S. K. Bhatnagar, Head, Dept. of  
 ECE, Mr. C. P. Gupta, Reader, Dept. of  
 ECE



## BOOKS PUBLISHED

TITLE	: Noise, Vibration and Harshness
AUTHOR	: Mr. Manoj K. Sain, Reader, Dept. of ME
TITLE	: Chemistry and Environmental Engineering
AUTHOR	: Dr. Sharda Soni, Reader, Dept. of Chemistry
PUBLISHER	: Vardhman Publishers and Distributors

## STUDENT'S PARTICIPATION/ ACHIEVEMENT

### CONGRATULATIONS!!!

Mr. Surendra Lamba an alumni of ECE and a former faculty member for securing 380 Rank in Indian Administrative Services.

CONFERENCE	: ASME CONCLAVE-2012
VENUE	: India Habitat Centre, New Delhi
DATE	: 13-14 October, 2012
ORGANIZED BY	: ASME
ATTENDED BY	: Atul Agarwal (Final Year) represented SKIT as Chairperson of SKIT ASME student section

CONFERENCE	: National Conference on Youth Democracy and Human Rights
VENUE	: Kanoria College, Jaipur
DATE	: 30 Nov. 2012
ORGANIZED BY	: People's Union for Civil Liberties (PUCL)
ATTENDED BY	: B. Tech. I year NSS members

EVENT	: Student Design Competition (SDC), KL University, Vijaywada
TASK	: Design and Run Wireless Controlled

DATE	: 9-10 March 2013
PARTICIPANTS	: SKIT ASME Student section
ACHIEVEMENT	: Team-2 got 3rd Rank in SDC
EVENT	: Old Guard Oral Presentation
PAPERS	: "Applications of Nano Fluids" by Abhishek Sharma, I B. Tech., EE "Effects of EGR System on CI Engine" by Dilip Garg, III B.Tech., ME

EVENT POSTERS	: Old Guard Poster Presentation "REFUSED DERIVED FUEL" by Shyam Khandelwal III B.Tech., ME "EGR SYSTEM" by Mukul Mathur, I B. Tech., CS "ENERGY STORED IN UNDERWATER" by Jayjeet Singh, II B.Tech., ME
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EVENT	: Annual Techno Cultural Festival, IIT Jodhpur
RANK	: III in Tech Egjo
PARTICIPANT	: Dheeraj Bhargava, I B. Tech., ME

EVENT	: Project Exhibition, Sangram 2013
ORGANIZED BY	: Laxmi Devi Institute of Engineering & Technology, Alwar
RANK	: I
PARTICIPANT	: Dheeraj Bhargava, I B. Tech., ME

EVENT	: Innovations 2013, National Level Project Exhibition
ORGANIZED BY	: SIES GST student branch
RANK	: I position
PARTICIPANT	: Dheeraj Bhargava, I B. Tech., ME

EVENT	: National Level Project Exhibition
ORGANIZED BY	: VIT Campus
RANK	: II
PARTICIPANT	: Dheeraj Bhargava, I B. Tech., ME





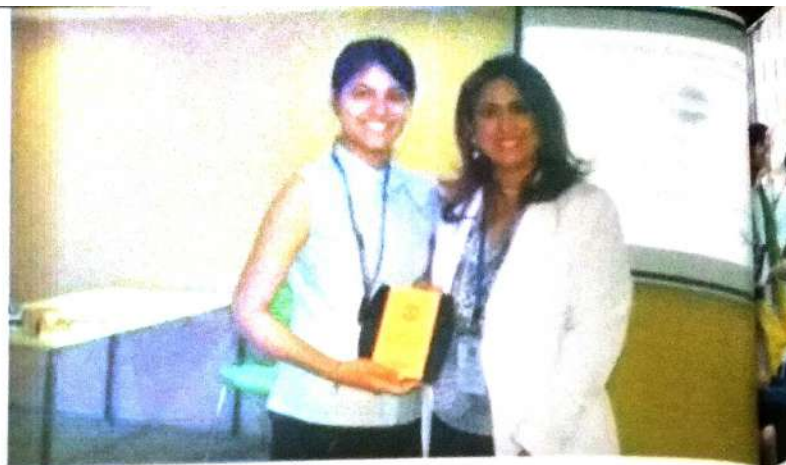
## TOASTMASTER CLUB

President : Mr. Vineet Jain  
Club VP education : Prof. Pramila Bafna

Toastmasters International, California, U.S.A, is a world leader in communication and leadership development. Toastmasters International have their chartered community clubs all across the globe in colleges and corporate firms and SKIT Toastmasters is one such distinguished part of it in Jaipur. SKIT Toastmasters Club has been one of the most prominent clubs in the college since its inception. It aims at nourishing communication skills of students, enhancing their personality and developing self confidence in order to prepare them to face the corporate sector. Some of the toastmasters have been able to achieve good scores in exams like GRE, TOEFL and this has opened the doors of foreign universities for them. The club also encourages students to realize their role as responsible citizens of India.

Members of SKIT Toastmasters are continuously improving and giving tough competition to other public and corporate clubs at the area, division and district levels of international speech making competitions of Toastmasters International. This year at the area level contest held at Infosys, Jaipur on 23 March 2013, Sanchita Rajvanshi (5th sem IT) and Akansha Singh (5th sem EE) represented the club whereas in table topic competition Sanchita Rajvanshi and Gaurav Vyas (5th sem ECE) gave tough competition to the eventual winners. Sanchita Rajvanshi brought laurels to the college by winning the first runners up prize in both international speech contest and table topic competition while the others were also applauded for their brilliant performances.

An international speech and table topic contest of Toastmasters International was held in the auditorium of Schneider Electric Pvt. India Limited, Gurgaon on 14 April 2013. SKIT Toastmasters made a mark in the contest when Sanchita Rajvanshi of B. Tech III year (Information Technology) won the first prize in divisional level International Speech Contest. The division conference saw the participation of various corporate and community clubs including people from IBM, TCS, SAP LABS, GOOGLE India, Infosys and various other professionals. The winners of the contest will participate in Oration-2013 which is a district level conference to be held at Hyderabad from 17-19 May 2013. It will be the first time in the history of our young college that its student will represent it in division J in district -41



conferences.

The Club is growing in all direction as it has incorporated different kinds of new activities like panel discussions, brainstorming sessions, debates which help students hone their speaking and leadership qualities in a friendly atmosphere.

## TOPAZ (TACTICS TO PURSUE AMBIENT ZEAL)

Mentors: Prof. M. L. Bhargava, Mrs. Abha Meel, Ms. Maneesha Kaushik & Mr. Harminder Multani

TOPAZ which is the entrepreneurship development cell of SKIT Jaipur was incubated in the year 2007. It is associated with NEN (Wadhvani foundation and TIE) to provide students a platform where they can interact with real life entrepreneurs.

This year TOPAZ launched its mentoring unit Paramarsh to help and advise the upcoming entrepreneurs on campus and help them in converting their ideas into successful business ventures. TOPAZ regularly conducted the various activities round the year including movie screening, E-Talks, business ethics and idea generation workshop for their skills development. This year the cell participated in E-WEEK 2013 for national championship trophy (organised by NEN) with great zeal and enthusiasm. They came out with flying colours and managed to win 1 runners up trophy @E-WEEK 2013 held at Dayanand Sagar Institute of Technology, Bangalore on 23 February, 2013. More feathers were added to its cap when Sankalp Vidhani (MBA-II Sem.) and Miling Agarwal (B.Tech CS-VIII Sem.), won the young Entrepreneurs Award Gautam Sihag (CS-VIII Sem.) and Sanchita Rajvanshi (IT-V sem) won the Judges's choice E-Cell award. Miss Manisha Kaushik (E-Cell coordinator) was awarded Emerald Educator.

Under the able guidance of Prof. M. L. Bhargava, Mrs. Abha Meel, Mr. Harminder Multani and Ms. Manisha Kaushik TOPAZ is continuously working hard to instill the spirit of entrepreneurship in our students. During the current year several activities have been organized and the details are as under:





1. An interactive session was organized for the registered students of TOPAZ, where Prof. M.L Bhargava, Advisor, SKIT and Ms. Maneesha Kaushik, TPO briefed the students about the importance of having an entrepreneurial spirit. They encouraged the students to follow innovative ideas to become entrepreneurs themselves.

2. A workshop was conducted during 23-25 August in SKIT premises to integrate entrepreneurship with Engineering Education. It was addressed by Prof. C Amarnath, Professor, Department of Mechanical Engineering & Head- SINE IIT Mumbai, Mr. Rajendra Bhat Chief Mentor, NEN and Mr. Vasanti Venugopal, Educator, NEN. The programme aimed at providing engineering and business students with an intense, immersive entrepreneurial experience.

It was built upon successful UF industry interaction model programmes such as the Integrated Product and Process Design (IPPD). The course offered a virtual situation as one of the participating students acted as the "CEO" of a hypothetical organization, the other posts being similarly were divided among different students. This helped them in honing their decision making skills. They were taught that understanding the accounting principles is equally important in conducting business. The basics of financial management were also discussed during the workshop. The students also learnt how to identify the target market and launch a venture after getting it funded either by angel investors or entrepreneurs themselves. The workshop was coordinated by Ms. Maneesha Kaushik, Coordinator, E-Cell.

3. On Sunday, 25 November 2012 TOPAZ, the E-cell of SKIT, organised a 'Hundred Rupee Venture' exercise for students. This activity saw a great buzz as all the students were eager to register themselves and start their one-day venture. The pre-briefing session for the exercise was conducted by Prof. M. L. Bhargava, Advisor, SKIT and Ms. Maneesha Kaushik, Training and Placement Officer. Prof. Bhargava discussed the ethics associated with business and explained how to pursue a business venture.

The activity was organised keeping in view the following objectives:-

1. To understand the process of entrepreneurship.
2. To transform apprehensions into enthusiasm.
3. To fine tune presentation skills - 5 minute pitch.
4. To set the stage for writing a business plan.

The event was judged by Ms. Preeti Singh, NEN co-ordinator and head, Rajasthan Chapter, Mr. Adarsh Pandey, Associate Professor, MBA, SKIT and Mr. Harminder Singh. The debriefing session of the exercise was conducted by Ms. Maneesha Kaushik, co-ordinator, EDC, TOPAZ. She explained the procedures and the challenges of the activity.

As glittering trophies and awards are one of the important highlights of any event, the 'Hundred Rupee Venture' exercise also saw the teams emerging as winners among a total of ten teams. The prizes were given in the following four categories:-

1. TOPAZ Entrepreneur Award (Overall Best Performance)
2. Innovative Entrepreneur Award (Most Innovative Idea)
3. Big Bucks Award (Most Profitable Idea)
4. Exceptional Entrepreneur Award (Best Revenue Model)

The event was a huge success. It was hosted by Rajdeep Sukhwai and Ankul Jain and was co-ordinated by the E-leaders.

## E WEEK

This year TOPAZ started the E-Week celebrations by unveiling the E-Week banner. Several activities were organised during the week which saw massive participation from the students. The activities included Panel Discussion, My Story Session of Local Entrepreneurs, E-Talk: Business Ethics & Seed Money Fundamentals, Readifining And Thus Innovating India(Cultural Aspect), Lekhak Ki Kalam Se, Be-gaadi (no vehicle day), Seed For A Good Deed, Junk2jazz Contest, Green Globe Clean, 1 Day CEO Activity (Put Yourself in Other Shoes), Prototype Designing (The Wallet Project), Nukkad Natak, Movie Screening - Its Debrief and Contest, Chhota Entrepreneur, Tech Bazar.





Accolades: Topaz Won the National Runners up Championship Trophy. Topaz won some other awards as well which are mentioned below:

- 1) Most Vibrant E Cell Award
- 2) Strong Capacity For Building Entrepreneurship on Campus
- 3) Judges choice Best E Cell Award
- 4) Best Alumni Entrepreneur award- Mr Vaibhav Jain
- 5) Emerald Educator Award- Ms Maneesha Kaushik



## SPIRITUAL CLUB

**President: Dr. Pramila Kumawat**

The club is a dynamic spiritual community of like minded people, each one on a special journey of enlightenment. The club aims at finding the inner "you" and expanding awareness of yourself and others. The club provides a rare opportunity to enjoy spiritual fellowships and to attain greater heights of spirituality as also to realize spiritual vibrations. The spiritual society of SKIT intends to raise the concentration level of the students and for that a question answer session and group discussion session is organised on every Thursday. During this various techniques which could help in improving the concentration power were taught to the students. The various programmes organized by the club are as under:

In order to minimize stress and foster positivity amongst engineers, the Spiritual Society, SKIT, in collaboration with BIGGYAN organized special seminars on every Thursday. Mr. Dharmesh Sharma, an associate of Hare Krishna Movement, delivered his lectures on Science and spirituality, universal brotherhood, the law of Karma, Super happiness and Material diversity and spiritual equality. Through his teachings, he tried to obliterate the misconceptions prevailing about the existence of GOD. Every session concluded with the chanting of Vedic Mantras and the distribution of Prasadam.



## ROBOTICS CLUB

**President: Mr. Sarfaraz Nawaz**

The SKIT Robotics Club was started by a cluster of students on 15 August 2012. The passion to create, to innovate and to provide practical knowledge to the students about robotics is the impetus of Robotics Club team. During the year the Club organized a technical event titled Speed and Control 001 in November. The objective of organizing the event was to explore and enhance the creativity and technical forte of students. It was a race of wireless operated cars in which the participants had to cross various obstacles and finish the race. But the robo-cars had to be handmade and built as per the specifications of the race. The event was a massive success among the students as it witnessed enormous participation and enthusiasm.

There were 16 entries for the race out of which 8 qualified for the next round and finally 4 qualified for the final round where the parameters were on the basis of speed. Intercept555 was declared as the winner of the event whereas High Wheels and Mech Civ stood runners up in the competition. Director (Academics) Prof. (Dr.) S. L. Surana commended the winners and the organizers for the event and espoused the need of practical implementation of academic principles.

## THE SKIT NSS UNIT

**President : Dr. Lalit Gehlot**

The NSS unit of SKIT has aroused an awareness of the realities of life and a better understanding and appreciation of the problems of people among the students. It is thus a concrete attempt in making the campus relevant to the needs of the community. There are several instances of excellent work and exemplary conduct of the NSS unit which has earned it the respect and confidence of the people. Community service rendered by the students has covered several aspects like adoption of villages for





intensive development work, programmes of mass immunization, sanitation drives, adult education programmes for the weaker sections of the community, helping inmates of orphanages and the physically handicapped, etc.

1. In the year the unit organized a seven day special camp from 27 Feb. to 5 March 2013 at Government Senior Secondary School, Bilwa. The camp provided the platform to synchronize and synergize learning with the demands of contemporary society. The camp included various activities like tree plantation, slogan writing, special lectures on the importance of Education, malnutrition, swine flu prevention, nasha mukti rally etc. During the camp the students of SKIT visited various places and guided children and labourers about the importance of education. The camp was successfully coordinated by Dr. Lalit Gehlot.

2. SKIT NSS Unit, in collaboration with Rotary Club, Jaipur organized a NUKKAD NATAK named "Give up Alcohol Addiction" on 23 September, 2012. It was enacted by the NSS students in the slum area behind the Reliance petrol pump, Jagatpura. The NSS and Rotary Club student associates exhorted the slum dwellers to shun the habit of consuming alcohol through their banners. Mr. P.S. Sanghi, President and Mr. Ravi Shankar Sharma, Secretary of Rotract Club, Bapu Nagar, Jaipur were present in the programme. The programme was coordinated by Dr. Lalit Gehlot, Incharge NSS and Mr. Aman, Student President, Rotract Club.

## SCIENCE AND TECHNOLOGY CLUB

**President: Dr. Sharda Soni**

Science and Technology Club was established with the objectives of making the students more sensitive to general science and current issues and to boost their morale and self-confidence. The club provides a platform for the students to acquire a holistic learning experience through paper presentations, working/ non working models, extempore speech making, science quiz competitions etc. The unflagging support of students and faculty coordinators has enabled the club to organize various lectures on

'Activity Day-Wednesday' and has helped in its unprecedented growth.

This year, the club provided an opportunity to the students from rural background to overcome the problem of not being introduced to computers so far. It is due to the unconditional support of faculty coordinators and the management of the college that practical sessions could be held for the benefit of such students. Lectures and practical sessions on some interesting topics like 'Inside a Computer', 'Internet Security', 'Basics of C language', 'Gmail secured', 'Gadgets around you', 'LAN Gaming' etc. have been organised in the club under the guidance of lab technicians and club coordinators.

The club also conducted an inter college event- 'SCIENCE CANVASS' on 7 and 8 of March, during PRAVAH-2013. The event comprised two levels- First level- 'Tech Seek'; a quiz on science and latest technology. Second level- 'Incord'; LAN gaming. The event saw active participation of students from other colleges as well.

## PHOTOGRAPHY CLUB

**President: Mr. Vivek Jain**

SKIT Photography Club aims at developing the skill & talent of interested pupils & faculty members of SKIT and to discover new photographers of the generation. It nourishes the essence of photography via GD's, exhibitions, seminars & trips.

The club, founded with the vision of 7 members and launched on 1 October 2012 at SKIT, is now successfully working with a membership of 60. The club focuses on learning with fun, as the students learnt photography in a trip to Nahargarh Fort on 2 Feb, 2013. The club also organised Seminar & GD's on "Lens Guides & Photographs". Also the team captured all the memorable moments of the 5 day events of "PRAVAH & AAVEG 2013". The future endeavours include projection of emerging





photographers on a professional basis through "Lights, Camera, and Action". The club wishes to collaborate with the extra-curricular clubs of SKIT in order to record the memorable moment of its socio-cultural events.

## THE ECO FRIENDS CLUB



**President:** Prof. (Dr.) Archana Saxena  
**Vice- President:** Prof. (Dr.) Sangeeta Vyas

Being concerned about the environment is not only important for its aesthetic and economical values but also for the sustainable development of our future generations. Hence the club follows the principle of "CCC", i.e. CONCERN, CONSERVE & COMMIT. It works with the vision of protecting the environment and curbing the menace that has plagued our society and also carries out multifarious in-house as well as field activities. It also wishes to train young minds to be economical in the utilization of resources and to practice conservational methods.

## EXTRA CURRICULAR ACTIVITY

**President:** Dr. Vinita Sharma

This new session is brimming with the aftereffect of varied extra-curricular activities that gripped the campus with its zest and

talent. A bee-line of events under the technical and nontechnical banners took the students in their stride, where the fervor was infectious. Dr. Vinita Sharma, Reader, Dept. of Chemistry proved her extra-curricular acumen in systematically organizing the events by segregating the responsibilities to the respective club co-coordinators. Wednesdays and Thursdays gained a cultural momentum and the seminar halls and OAT echoed with the ceaseless applauses of the audience. The session commenced with a nail-biting inter-branch basket-ball tournament, where Civil and Mechanical branches stood 1st and 2nd respectively.

Under the umbrella of Technical events, CS-IT, EC, EE and ME Departments hosted subject-oriented quizzes that witnessed a huge participation, duly conducted by their faculty co-ordinators: Mrs. Anjana Sangwan (CS), Mr. Praveen Jain (EC), Mrs. Smiriti Jain (EE) and Mrs. Sarita Chaudhary (ME). To enhance and explore the creative and engineering instincts of invention in the students, Mrs. Smiriti Jain successfully organized a project-making competition dealing with the subject of utilization of solar energy. Similarly Mock Tests based on GATE and PSUs were also conducted under her leadership. Robotics club emerged with flying colors where the students presented their robotic projects under the banner of SAC and supervised by Mr. Sarfaraz Nawaz.

On the cultural front, previous year came out with its agility in presenting events like solo dance, group, solo singing, rangoli and sketching competitions. The open-air theater spilled over with the students clinging on to the parapets and struggling to grab a foothold somewhere in the audience. Participants exuded extraordinary confidence in flawlessly matching their dance-steps in co-operation as well as competition. Similar was the case in the rangoli completion where the colour spoke the language of creativity. This burst of riot into colours was skillfully managed by their club co-ordinators: Mrs. Chitra Manro, Dr. Shalini Shekhawat, Ms. Sheetal Verma and Mr. Ankush Tandon.

IMAGES flagged off the session by asking the students to let their imagination run wild. Conducting the competition, Dr. Nidhi Sharma flashed some images on the screen and asked the participants to concoct a story based on their individual interpretation. Subsequently, the club staged a play entitled "Where there is a will, there is a way" to whet the speechmaking talent of the students. The play unraveled the dubious conditions into which society often drives an individual. The details of the events conducted during the semester July-Dec 2012 are mentioned as below:



Sr.No	Name of the Event	Winners	Year	Prize	Faculty Co-ordinators
1.	On the spot pencil sketch	1. Aditi Gupta	II Yr EC	1 <sup>st</sup>	Dr. Shalini Shekhawat (Maths) Ms. Chitra Manro (Physics)
		2. Nitiksha Rathod	I Yr EC	2 <sup>nd</sup>	
		3. Akash singh	I Yr CS	3 <sup>rd</sup>	
2.	Rangoli competition	1. Nikita Panwar	I Yr Civil	1 <sup>st</sup>	Dr. Shalini Shekhawat Ms. Chitra Manro
		2. Meenakshi Sharma	II Yr EC	2 <sup>nd</sup>	
3.	Beat the Height	1. Akansha Gupta	II Yr CS	1 <sup>st</sup>	Mr. Praveen Jain(EC)
		2. Ankita gupta	II Yr CS	1 <sup>st</sup>	
		3. Rajat Gupta	I Yr CS	1 <sup>st</sup>	
		4. Shubham Kucheria	I Yr CS	1 <sup>st</sup>	
		5. Mayank Pal S.Kanwar	I Yr CS	1 <sup>st</sup>	
		6. Shubam Shukla	I Yr CS	1 <sup>st</sup>	
		7. Prashant Kotharia	I Yr CS	1 <sup>st</sup>	
		8. Shubam Deo	IYr CS	1 <sup>st</sup>	
4.	Group Dance Competition	1. Freaks of beats		1 <sup>st</sup>	Mr. Ankush Tandon(EE)
		2. Classic pearls		2 <sup>nd</sup>	
5.	Electrical Technical Quiz	1. Reshu Mittal	III Yr EE	1 <sup>st</sup>	Ms. Smriti Jain (EE)
		2. Mukesh Gurjar	II Yr EE	1 <sup>st</sup>	
		3. Garvish Garg	IYr EE	1 <sup>st</sup>	
6.	CS-IT Technical Quiz	1. Ashish Mittal	III Yr. CS	1 <sup>st</sup>	Ms. Anjana Sangwan (CS)
		2. Nikita Maheshwari	II Yr CS	1 <sup>st</sup>	
		3. Monu Bansal	II Yr CS	1 <sup>st</sup>	
		4. Damyanti Kanwar	II Yr IT	1 <sup>st</sup>	
		5. Harshita Kataria	II Yr IT	1 <sup>st</sup>	
		6. Neha Yadav	III Yr IT	1 <sup>st</sup>	
7.	ASME Technical Quiz	1. Govind Singh	IIIYr ME	1 <sup>st</sup>	Ms. Sarita Chaudhary (ME)
		2. Nasir Khan	IIIYr ME	1 <sup>st</sup>	
		3. Ajit Yadav	IIIYr ME	1 <sup>st</sup>	
		4. Deepak Yadav	IIIYr ME	1 <sup>st</sup>	
		5. Mohd.Junaid Khan	I Yr ME	2 <sup>nd</sup>	
		6. Priyanshu Jain	I Yr ME	2 <sup>nd</sup>	
8.	EC Technical Quiz	1. Keshav Joshi	II Yr EC	1 <sup>st</sup>	Mr. Praveen Jain (EC)
		2. Rajat Rrora	II Yr EC	1 <sup>st</sup>	
		3. Puneet Purohit	II Yr EC	1 <sup>st</sup>	
		4. Jitendra Kr. Jain	II Yr IT	1 <sup>st</sup>	
9.	Project Making Competition (Electrical)	1. Bharti Krishna	II Yr EE	1 <sup>st</sup>	Ms. Smriti Jain (EE)
		2. Shivani Khara	II Yr Civil	1 <sup>st</sup>	
		3. Ankit Jangid	I Yr EE	2 <sup>nd</sup>	
		4. Janit Garg	II Yr EE	2 <sup>nd</sup>	
		5.Pritesh Mundra	II Yr EE	3 <sup>rd</sup>	
10.	EC Technical Quiz	(Mock Test I for GATE)			Ms. Smriti Jain (EE)
		1. Kuldeep Kaushik		1 <sup>st</sup>	



10.	EC Technical Quiz	2. Sachin		2 <sup>nd</sup>	Ms. Smriti Jain (EE)
		3. Pradeep Mahiya		3 <sup>rd</sup>	
		(Mock Test II for PSUs)			
		1. Kapil Rastogi		1 <sup>st</sup>	
11.	Inter-Branch Basket-ball Tounament	1. Civil		1 <sup>st</sup>	Mr. Heera Lal (Sports)
		2. Mechanical		2 <sup>nd</sup>	
12.	Solo Singing Competition	1. Swati Garg		1 <sup>st</sup>	Ms. Sheetal Verma (EC)
		2. Shwetank Jain	I Yr	2 <sup>nd</sup>	
		3. Abhishek Panchariya	I Yr	3 <sup>rd</sup>	
		4. Tinu Bhandari	I Yr	3 <sup>rd</sup>	
13.	Mehandi Competition	1. Resham Agrawal	IYr EE	1 <sup>st</sup>	1. Dr. Shalini Shekhawat (Maths) 2. Mrs.Chitra Manro (Physics )
		2. Rashami Sharma	II Yr CS	2 <sup>nd</sup>	
		3. Soniya Kumawat	II Yr CS	2 <sup>nd</sup>	
		4. Akshita Jain	IYr CS	3 <sup>rd</sup>	
14.	SAC (Speed and Control)	1. Rahul	I Yr EE	1 <sup>st</sup>	Mr. Sarfaraz Nawaz (EE)
		2. Rahul Sharma	I Yr EE	1 <sup>st</sup>	
		3. Rahul Tiwari	I Yr EE	1 <sup>st</sup>	
		4. Manoj Taneja	IYr CE	1 <sup>st</sup>	
		5.Sohil Ahmed	IYr EE	2 <sup>nd</sup>	
		6. Zuber Alam	IYr EE	2 <sup>nd</sup>	
		7. Rishabh Kumar	IYr EE	2 <sup>nd</sup>	
		8. Ranjit Singh	IYr EE	2 <sup>nd</sup>	
		9. Tarun dadlani	IYr ME	3 <sup>rd</sup>	
		10. Rajendra Singh	IYr ME	3 <sup>rd</sup>	
		11. Shubham Jangid	IYr ME	3 <sup>rd</sup>	
		12. Gaurav Dutt	IYr CE	3 <sup>rd</sup>	
15.	Story Writing Competition	1. Pulkit Solanki	I Yr CE	1 <sup>st</sup>	Dr. Nidhi Sharma(English)
		2. Rishabh Joshi	I Yr ME	2 <sup>nd</sup>	
		3. Anchal Garg	IYr, CS	3 <sup>rd</sup>	
16.	(I) Science Go Magical	1. Bhanu Mathur	II Yr, EE	1 <sup>st</sup>	Mrs. Smriti Jain
	(II) Quiz Competition	1. Shriram Sharma	II Yr, EE	1 <sup>st</sup>	
		2. Abhishek K. Singh	II Yr, EE	2 <sup>nd</sup>	
		3. Hemant Mewani	II Yr, EE	3 <sup>rd</sup>	
	(III) Buzzer Making Competition'	1. Bharti Krishna	I Yr, EE	1 <sup>st</sup>	
		2. Anurag Kaushik	I Yr, EE	1 <sup>st</sup>	
		3. Ankit Jangid	I Yr, EE	2 <sup>nd</sup>	
	(IV) Project Making Competition	1. Ankit Dubey	I Yr, EE	1 <sup>st</sup>	
		2. Ranjeet Kumar	I Yr, EE	1 <sup>st</sup>	
		3. Ankit Jangid	I Yr, EE	2 <sup>nd</sup>	



## A KEYNOTE ADDRESS AT THE NATIONAL CONFERENCE ON POWER SYSTEM OPERATION AND ENERGY MANAGEMENT: VISION 2020

The concept of a centrally located power station was first proposed and implemented by Thomas Alwa Edison in 1878. The first stand-alone 30 kW Pearl Street Power Station was commissioned on September 4, 1882 in New York City. It was a D.C. power station. The first D.C. transmission line at 2.4 kV DC and 59 km long was installed in Germany. The first A.C. single phase transmission line at 4 kV and 21 km long was installed in Oregon, USA. The first three phase A.C. transmission line at 2.3 kV and 12 km long was again installed in California, U.S.A.

At the beginning of the 20th century a fierce battle was fought over how electricity would be generated, transmitted, distributed and utilized: alternating current or direct current. This is popularly known as the 'War of currents'. Thomas A. Edison favoured D.C. whereas George Westinghouse and Nikolai Tesla advocated A.C. Primarily due to A.C.'s ability to transmit electricity more efficiently over long distances and Tesla's polyphase A.C. motors established the superiority of A.C. over D.C.

The early A.C. systems operated at various frequencies including 25, 50, 60 and 133 Hz. In 1893 60 Hz was adopted in the U.S.A., Canada, Japan and Brazil whereas 50 Hz was adopted in Europe, Russia, South America except Brazil and in India and many other countries.

### INDIAN POWER SYSTEM

Since independence our country has witnessed a tremendous growth in the power sector. We have moved from small isolated power stations to 'one nation one grid' concept. Five interconnected regional grids serve electricity to a large section of 1.2 billion population distributed over 28 states and 7 union territories. The current installed capacity by the end of November 2012 is 2,10,937 MW out of which 57% is produced from coal, 19% hydro, 9% gas, 2% nuclear, 1% diesel and 12 % renewable energy sources.

### CHALLENGES

The challenges before this rapidly growing power sector are:

1. Power shortages – Load growth is faster than capacity addition. Energy shortage is about 9 % and peaking power shortage of about 12 %. It is going to increase further.
2. High rate of population growth – Lack of access to electricity.
3. Unequal distribution of energy resources
  - 70 % coal in Eastern region
  - 70 % liquid and gaseous hydrocarbons in Western regions
  - 70 % hydro potential in Northern and N.E. region
4. High technical and commercial losses – Losses are as high as 30 % in some states. Attempts have been made during the last decade to reduce these losses. After an initial success these losses have started rising again. As per CEA report the total revenue loss during 2011-12 (due to energy losses) was around Rs. 68000 crore which is equivalent to 1% of Indian GDP.
5. Poor financial health of public utilities due to various kinds of subsidies.
6. Environmental degradation.
7. Environmental regulation.
8. Non-availability of right of way for laying new T.L.
9. Depletion of conventional sources of energy.
10. Weak links in the transmission systems.
11. Inadequate fail-safe systems to prevent cascading failures.
12. Modernization of ageing power plants.

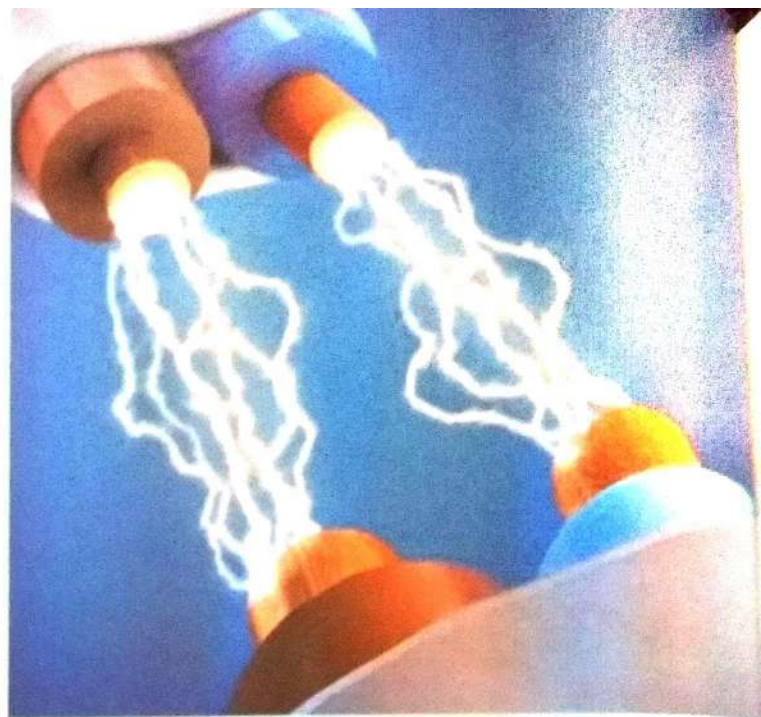
### REMEDIAL STEPS TAKEN

1. Power generation capacity is added continually but load is growing at a faster rate. It is proposed to add 76000/- MW during 12th Plan. To protect environment, more emphasis has been placed on renewable sources of power and also on development of nuclear power.
2. The new Electricity Act 2003 has provided an open access to



the grid to any one for exchange of power with payment of necessary charge for use of grid infrastructure. This change in the act attracted several private players to generate and sell power to a third party using grid infrastructure.

3. Power generating capacity is added continually, but there hasn't been an equivalent investment in transmission and distribution networks. In the 12th plan new transmission lines to the tune of 109,000 circuit km will be installed. Three more HVDC links having a capacity of 13,000 MW would be added.
4. In the 12th plan 95 thermal units with a total capacity of 21,503 MW would be updated under renovation and modernization plan.
5. Most of the India's demand is growing in the Western states whereas surplus power generation is in the east. It is difficult to secure the right of way for the new lines. Upgradation of the existing lines is therefore essential. Aurangabad-Wardha 400 kV Quad double circuit line from Mundra ultra mega power project would be converted into 1200 kV single circuit line. This is the highest transmission voltage anywhere in the world. To test equipment at this voltage a 1200 kV Test Station has already been created at Bina in MP under Public - Private Partnership and dedicated to the nation on 26th December 2012. Increasing transmission voltage from 400 kV to 765 kV and from 400 kV to 1200 kV increases the power handling capability of the line to 4 times and 10 times respectively.
6. The country experienced two major blackouts on 30th and 31st July 2012. The second outage was the largest in the history leaving nine states including Delhi without electricity. To avoid such blackouts in the future, it has been decided in the 12th plan to strengthen inter regional links by adding new links having a capacity of 37,800 MW.
7. In order to strengthen the National Grid, provision has been made in 12th plan to interconnect the grids of South Asian countries. This will provide at least 100,000 MW of power in the region for common use among its member countries. Bhutan and Nepal have already been connected with the national grid. Bhutan is supplying 1200 to 1400 MW to the Indian grid. MoU has already been signed between India and Bangladesh and between India and Sri Lanka. HVDC link between the southern regional grid and Sri Lankan grid would be completed by 2013. In the first phase an exchange of 500 MW and in the 2nd phase 1000 MW would take place.



8. Smart Grid in transmission is being set up to improve reliability and efficiency. In the northern region a smart grid pilot project has already been implemented involving WAMS (Wide Area Measurement System). Smart Grid Pilot Projects are also proposed to be implemented in other regions i.e. WR, ER, SR and NER.
9. The distribution system is the weakest link of our power system. Technical and commercial losses involved are very high. The distribution sector needs to improve its network, forecasting, planning and execution skills on an accelerated pace.

## VISION 2020

One hundred years after the first war of currents was over, the second war of currents seems to be hotting up. It is because of emerging applications of D.C. at the end use level and at energy resource and energy transmission levels. In business electronics, data servers, variable frequency drives in industries require tremendous amount of energy conversion from A.C. to D.C. Today nearly 30% of the power generated passes through power electronics converters before it is utilized. It may even go upto 80% in the near future. These frequent conversions from AC. to D.C. and back involve losses and bring in inefficiency. All these changes may lead to the development of hybrid AC/DC infrastructure and operations.



**PROF. DR S.L. SURANA**  
Director Academics



# POWER SYSTEM OPERATION AND ENERGY MANAGEMENT: VISION 2020

The global population is increasing by 78 million people per year. Consequently it has doubled during the last 5 decades. At present approximately one quarter of the global population of 6.5 billion does not have access to power. As a result, electricity consumption is growing faster than any other form of energy. It is expected that the present global power consumption of 16595 TW is expected to double to roughly 30673 TW by the year 2030. Four percent of the electricity generated globally is consumed in India, and the annual rise of 9.5 % in capacity addition is required for the twelfth plan to cater to the increased requirement (in addition to meeting the present shortage). The worldwide growth in electricity generation by the year 2030 is expected to be 85%.

Presently coal based power plants contribute approximately 65 % of the total electricity generated globally. Pulverised coal technology is the most widely used coal firing option in the world. The steam conditions (pressure and temperature) at the inlet of the steam turbine define different types of pulverized coal plants and determine the plant efficiency.

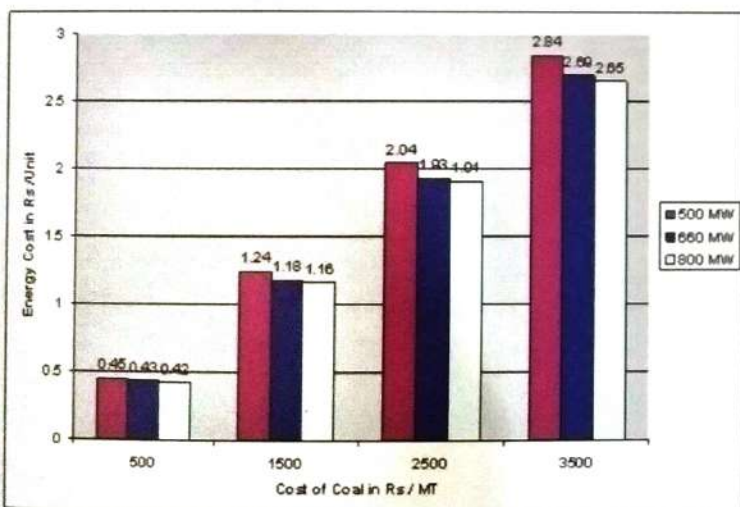


Fig.1 : Effect of Rise in Coal Price in the Selection of Technology

Climate change concerns and the rising price of coal are driving the power generation market towards more efficient cycles. Conventionally, in the past coal fired plants have operated in sub a critical condition which with the advent of technology has now entered into more efficient super critical operating conditions, and concurrently there is an ongoing effort worldwide to move towards further more advanced and efficient ultra super-critical operating conditions. Figure 1 shows the effect of rise in coal price in selection of technology.

Capacity addition in 10th, 11th, 12th and 13th five year national plans is indicated in Table 1.

TYPE THERMAL	10 th PLAN (2002-2007) (Actual)	11 th PLAN (2007-2012) (Planned)	12 th PLAN (2012-2017) (Tentative)***	13 th PLAN (2017-2022) (Tentative)***
		MW	MW	MW
SUB-CRITICAL (Upto 600 MW)	12114	46490	30473	NIL
SUPER CRITICAL (660 & 800 MW)	----	5040	43640	64100

Government of India promoted super-critical thermal plants in India are shown in Fig. 2

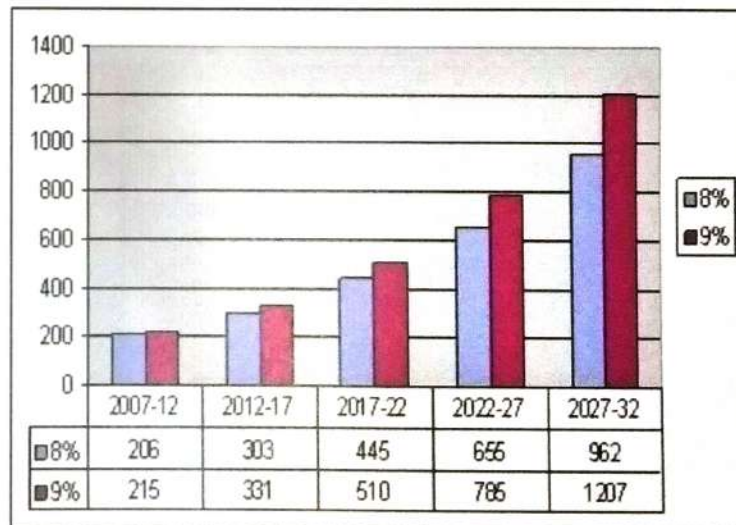


Fig. 2 : Promotion of super-critical thermal plants (India)

Super critical parameters are :

- Widely prevalent cycle parameters (at turbine end) :
  - Pressure : 246 -250 kg/cm<sup>2</sup>
  - Temperature : 537/566 deg C (in 660MW Sipat & Barh TPS), 565/593 deg C (in 660 MW Barh-II and 2 X 800MW Krishnapattanam), 593/593 or 600/600 deg C (Ultra Supercritical parameters-Yet to be adopted in our country)
- Parameters adopted for 800MW are 247 kg/cm<sup>2</sup>/ 565/ 593 deg C.



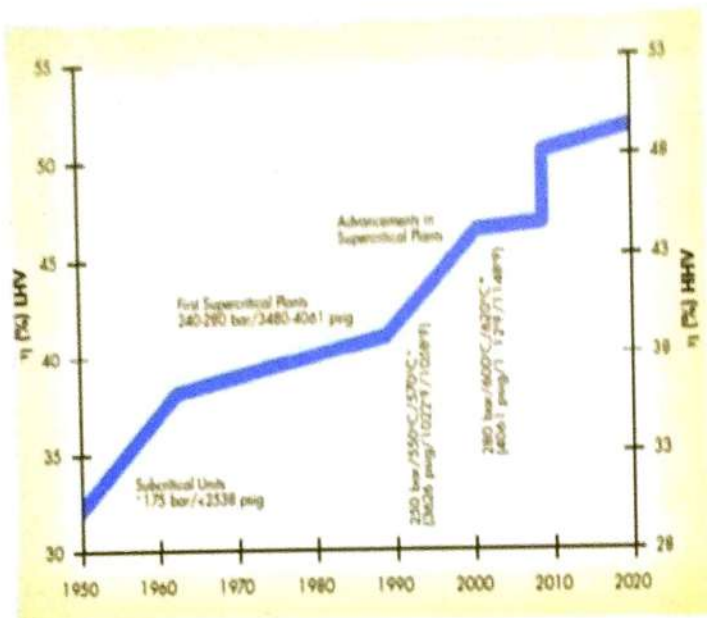


Fig. 3 Steam Power Station Efficiency Worldwide

The following are the key drives for super-critical technology :

- Advanced proven technologies
- Optimal use of resources
- Eco-friendly power generation (lower emissions)
- Operational flexibility (better load cycling)
- Increased pace of capacity addition. Larger Unit sizes ( 660MW ~ 1,000MW)
- Competitive tariff : UMPP tariff discovery

TABLE 2

	Unit	500 MW	660 MW	800 MW
Cycle parameters	Bar/ $^{\circ}$ C/ $^{\circ}$ C	170/538/538	246/538/565	246/565/598
Heat rate improvement	%	Base	2.1	3.6
Savings in annual coal consumption	tons	Base	56000	96000
Reduction in annual CO <sub>2</sub> emissions	tons	Base	64600	105600

Fig. 3 shows evolution of Steam Power Plant efficiency worldwide. Super-critical technology reduces coal consumption and CO<sub>2</sub> emissions. Table 2 shows that with the improvement in heat rate, reduction in coal consumption and CO<sub>2</sub> emissions the size of super-critical plant increases.

## SOLAR AERO ELECTRIC POWER PLANT (SEAPP) WITH FLOATING CHIMNEY

### INTRODUCTION:

Solar chimney technology is used in an electricity power generating method working with the warm air of a large solar collector up drafting through a tall chimney. In order to increase the efficiency of solar chimney power plants and to decrease their cost, Floating Solar Chimneys are invented. Floating Solar Chimney (FSC) is a low cost alternative of the concrete solar chimney. The Floating solar chimney, lighter than air structure, can be raised anywhere and its cost is as low as 2% of the cost of the respective concrete chimney.

The FSCs can easily be constructed to heights up to 600-700 m. Due to its patented construction the FSC is a free standing lighter construction than air structure and behaves like bending when external winds appear, as shown in the figure 1.

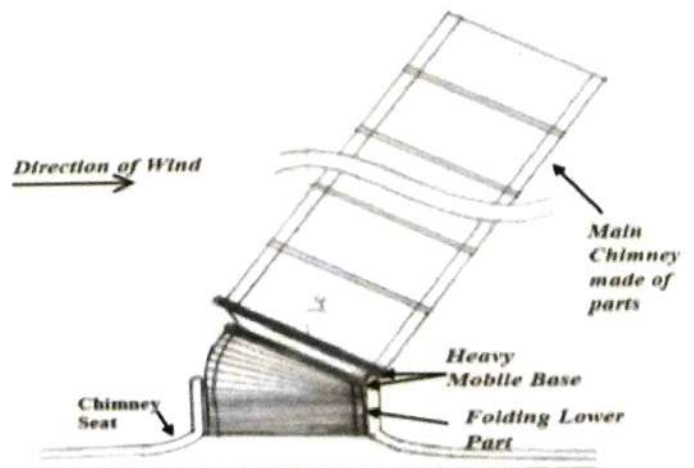


Figure:1 Floating Solar Chimney (FSC)

### COMPONENTS:

Solar aero electric power plant has three main components

- 1) A large circular solar collector with a transparent roof supported a few meters above the ground (the green house)
- 2) A tall warm air up drafting, cylinder on the centre of the greenhouse (the floating solar chimney)
- 3) A set of air turbine geared to appropriated electric generators around the base of the solar chimney (the turbo generator)



DR S. K. CALLA  
Principal & Director (D&W)



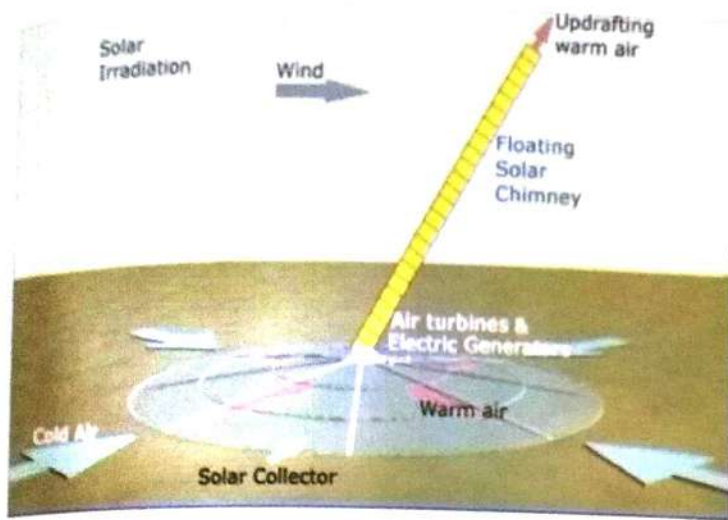


Figure:2 Floating Solar Chimney Power Plant in operation

### WORKING :

The Greenhouse warms the air inside it, due to the solar irradiation. The warm air becomes lighter than the ambient air and tends to escape through the solar chimney, up drafting to the upper atmospheric layers. New ambient air is entering in the Greenhouse through its open periphery that, as is moving towards the chimney, becomes warm by the solar irradiation and is also up drafting through the chimney, etc.

The first two parts of the FSC power plant form a huge passive thermodynamic machine circulating the air from the ground to the upper layers of the atmosphere. In the path of the airflow of the warm air are placed appropriate air turbines, geared to electric generators that transform a part of the thermodynamic energy of the moving air mass to electricity.

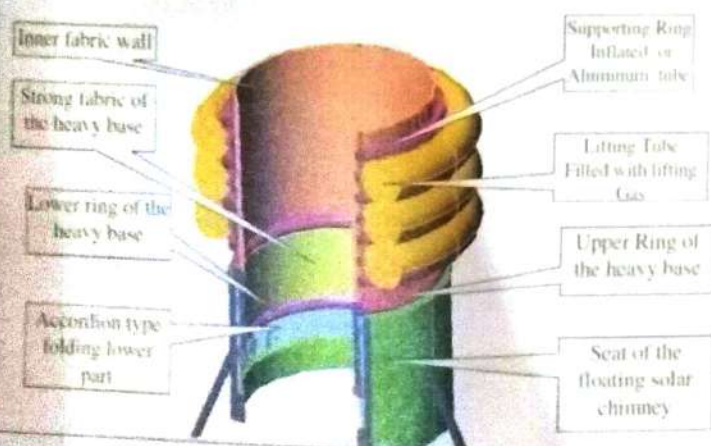


Figure:3. A small part of the fabric cylinder of the FSC

### FEATURES OF SOLAR AERO ELECTRIC POWER PLANTS

- Due to the ground thermal storage (reinforced if necessary with artificial thermal storage) they are generating continuous electricity power profiles (24x365) of which their

daily averages are proportional to the daily solar horizontal irradiation (direct and diffuse). Thus their production can enter to the electric grid without limitations

- It is a low investment cost electricity generating technology, thus the direct cost of the produced KWh is low (less than 6 cents/KWh)
- The technology is very simple and can be applied in all continents using local personnel. Its power plants can be maintained and operated also by local personnel
- The construction material of its power plants already exist and all of them are recyclable.
- The technology is not producing CO<sub>2</sub> or any other pollution to the local or global environment.
- The technology does not demand any cleaning or cooling water.
- The best lands for the technology application are the desert or semi desert areas where the horizontal annual solar irradiation exceeds 2000 KWh/sqm.
- With a small part of these desert lands (3%) we can cover up to 50% of the present and any future demand in electricity.
- If more fertile land fields are going to be used (for example in Cyprus ,Greece, Spain, Italy, etc.) most of the ground below the power plant greenhouses can be used simultaneously for farming.

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MRS. SARITA CHOUDHARY  
Senior Lecturer, Dept. of ME



## ALGAE BIOFUELS: A REALISTIC ALTERNATIVE TO PETROLEUM

The scarce and rapidly depleting conventional petroleum resources have promoted research for alternative fuels for internal combustion engines. After the oil crisis in the 1970s, alternative resources are going to find to replace the conventional fuels fully or partially. In this series, a number of researches have been conducted on the compatibility of vegetable oils and biodiesels as fuel for internal combustion engines. Algae Biofuels is also considered as an alternative to petroleum.

The production for algae is required for large algae pond systems. This project also concerns land availability for the purpose. Researchers at the Pacific Northwest National Laboratory have found that nearly 14 percent of land in the continental United States, or roughly the combined area of Texas and New Mexico, could be used for converting algae to transportation fuels.

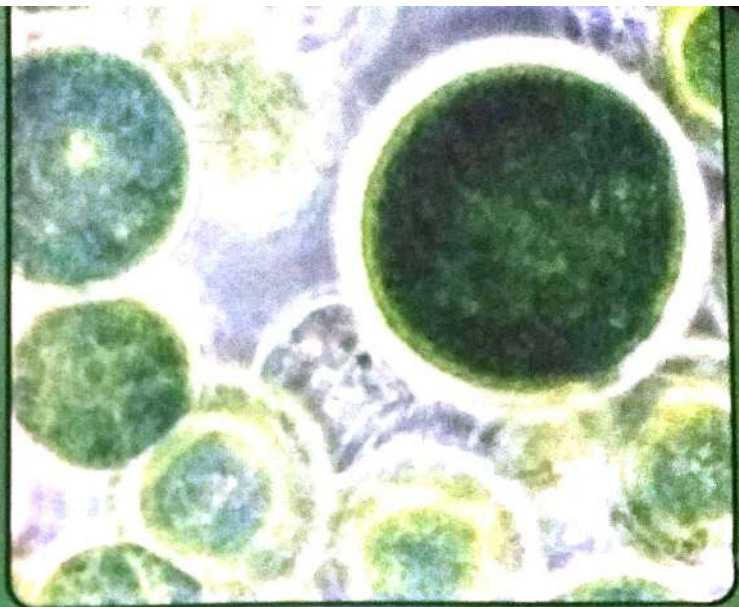


Figure 1: Algae Production

(\*Source: Pacific Northwest National Laboratory, US)

"Our main driver was to look at how much land would be available for installing large algae pond systems," said Dr. Erik Venteris, a spatial modeling engineer at the Pacific Northwest National Laboratory and the lead investigator of the study.

Algae pond facilities require between 1,000 and 1,200 acres of land for one facility, said Venteris. The facilities he envisions would hold up to one million gallons of algae biodiesel per facility. Venteris's study took into account not only areas that were



currently available with a low-slope, but also areas that would be cheap to purchase from their current owners.

Land for algae production concerns primarily the non-productive land. Marginal croplands, or lands that netted the least amount of profit, are useful because the owners have a high incentive to sell their land. Also, this land has been used for agriculture and should share similar climate and resource characteristics that would promote algae growth.

The cheapest land that Venteris found was the arid lands in the West, but two types of land stood out to him as good contenders for algae biofuel facilities: marginal croplands and southern woodlands.

Finding a market for biodiesel is another issue. If algae-based transportation fuels were offered at service stations today, the cost would be quite expensive making it a less attractive option than petroleum fuels.

Venteris said the current market for algae fuels exists in places that don't have a large gasoline market, and once a larger market is found, the algae fuel industry still has to find a way to partner with the petroleum industry so that it can sell its fuel.

"There was no petroleum industry in 1900," said Mayfield, "we needed energy, so we built it." So, still challenges are there but as the demand will rise, options will be open.

Reference: A Report on "Algae Fuels" by Dr. Erik Venteris, Pacific Northwest National Laboratory, 2013.



MR. DINESH KUMAR SHARMA  
Lecturer, Dept. of ME



## BENCHMARKING SUPPLY CHAIN MANAGEMENT

Benchmarking entails managers visiting other companies for extended site visits to get an in-depth look at how they are doing things. In this way, they learn about the best business processes that are in place at the other companies, with the intent of replicating them in some way. However, when it comes to trying to replicate another company's best practice, person has to be careful and evaluate whether it is really right for your company.

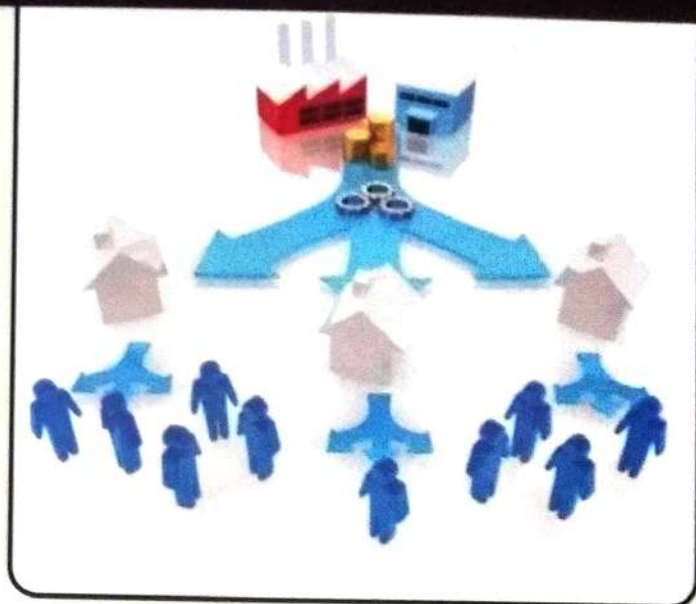
Many companies visit supply chain leader companies, only to find that the best business practices at these lead companies will not make sense for their firm nor can such practices be replicated in their company's business environment. This is because so-called "best business processes" are not necessarily best for everyone else. In addition, while they may be best for a company using them today, they may not be best for the same company in the future, as its competitive business environment changes.

This does not mean that benchmarking best business practices is not useful. The key to learning something from a best business process is to understand why it is beneficial to the company using it and how does the best business practice add value to the company using it.

An excellent supply chain must do four things:

1. Support, enhance, and be an integral part of a company's competitive business strategy
2. Leverage a distinctive supply chain operating model to sustain a competitive edge
3. Execute well against a balanced set of competitive operational performance objectives (That is, in which all customer-facing and internal Key Performance Indicators or KPIs are aligned to achieve the competitive positioning desired — e.g., to support the lowest cost, highest quality, or fastest delivery strategy)
4. Focus on a limited number of tailored business practices that reinforce each other to support the operating model and best achieve the operational objectives (For example, a few truly innovative practices — such as customer segmentation and demand shaping — that are surgically-focused on achieving KPI targets)

While these four characteristics of excellent supply chain companies sound relatively straightforward and easy to put in



place, but they are not. It takes companies years to mesh the elements together, as well as a great deal of effort to evolve them as the competitive landscape changes over time.

### PRINCIPLES RATHER THAN PRACTICES

Even though there are no best practices, one can still learn from delving into the so-called best practices of another company via Business Process Benchmarking. One needs to avoid the first impulse of exactly copying the business practice. Instead, one has to conduct a thorough analysis to identify the underlying reasons why the practice is working well for the benchmarked company. This means identifying the operating principles of the business practices and how the benefits from those principles align to the four characteristics of a successful supply chain (as discussed earlier).

These operating principles or business models often involve tradeoffs that need to be made among competing resources, objectives, and other factors. It is these principles that need to be leveraged over time and across industries to develop the innovative practices that companies need to enable their competitive strategies, operating models, and operational objectives.

So rather than trying to replicate the best practices of organizations being benchmarked, managers should evaluate whether to take advantage of the underlying principles being leveraged by them. So these are Principles rather than Practices that make the organization to become the best in the market.

### SUPPLY CHAIN COLLABORATION

Supply chain vulnerability is a network-wide concept, the management of risk has to be network-wide too. A high level of collaborative working across supply chains can significantly help



mitigate risk. The challenge is to create the conditions in which collaborative working becomes possible. In the fast moving consumer goods industry there is now significant collaboration between manufacturers and retailers in the form of Collaborative Planning, Forecasting and Replenishment (CPFR) initiatives.

The principle of collaborative working in the supply chain is that the exchange of information can reduce uncertainty. Thus a key priority for supply chain risk reduction has to be the creation of a supply chain community to enable the exchange of information between members of that community. The aim is to create a high level of 'supply chain intelligence' whereby there is a greater visibility of upstream and downstream risk profiles (and changes in those profiles).

Supply chain intelligence is the phrase to describe the process of using knowledge generated and shared by partners in the supply chain. The type of knowledge that can aid the creation of supply chain resilience pertains to the identification of sources of risk and uncertainty at each node and link in the supply chain. Supply chain knowledge might also be categorized as Strategic, Tactical and Operational.

Supply chain agility is also important. It is defined as the ability to respond rapidly to unpredictable changes in demand or supply. Many organisations are at risk because their response times to demand changes or supply disruption are too long. Agility has many dimensions and it relates as much to networks as it does to individual companies. Indeed, a key to agile response is the presence of agile partners upstream and downstream of the focal firm. Two key ingredients of agility are 'visibility' and 'velocity'.

**Supply Chain Visibility:** Supply chain visibility is the ability to see from one end of the pipeline to the other. Visibility implies a clear view of upstream and downstream inventories, demand and supply conditions, and production and purchasing schedules for example. It also implies internal visibility with clear lines of communications and agreement on 'one set of numbers'.

Visibility in a supply chain can be obscured by the presence of intervening inventories upstream and downstream of the focal firm. These intervening inventories are usually created independently of each other as a result of decision rules, the basis of which may not be readily apparent. Visibility will be further distorted by the presence of the bullwhip effect that can magnify small changes in marketplace demand as it moves back up the supply chain.

The achievement of supply chain visibility is based upon close

collaboration with customers and suppliers as well as internal integration within the business.

Collaborative planning with customers is important firstly to enable visibility of demand to be gained but also for information to be shared on market trends and perceptions of risk. Equally, upstream visibility also requires high levels of collaborative planning with suppliers and the use of 'event management' logic to enable alerts of potential supply disruptions to be signaled.

A significant barrier to supply chain visibility is often encountered within the focal firm's internal organization structure. The presence of 'functional silos' inhibits the free flow of information leading to 'second guessing' and a general lack of communication. This situation is often exacerbated when the company has internal suppliers or customers with limited integration between them. The challenge here is to break down these silos to create multi-disciplinary, cross-functional process teams.

**Supply Chain Velocity :** The second ingredient of supply chain agility is velocity. Velocity is defined as distance over time. Hence to increase velocity, time must be reduced. Here we are referring to 'end-to-end' pipeline time i.e. the total time it takes to move product and materials from one end of the supply chain to the other. End-to-end pipeline time – as it relates to agility – can be measured as the elapsed time from when the focal firm places orders on its first tier suppliers to when it delivers to its customers. It is not just velocity that matters in the creation of agile supply chains, it is acceleration. In other words how rapidly can the supply chain react to changes in demand, upwards or downwards?

There are three basic foundations for improved supply chain velocity and acceleration: streamlined processes, reduced in-bound lead-times and non-value added time reduction.

Streamlined processes are simplified processes in that they have been engineered to reduce the number of stages or activities involved, they are designed to perform these activities in parallel rather than in series and they are e-based rather than paper-based. At the same time these streamlined processes are designed around minimal batch sizes – be they order quantities, production batch sizes or shipping quantities. The emphasis is on flexibility rather than economies of scale.

The second key ingredient to enhanced velocity in supply chains is a reduction in in-bound lead-times. One of the criteria for the choice of supplier and the source of supply should be their ability to respond rapidly in terms of delivery and to be able to cope with

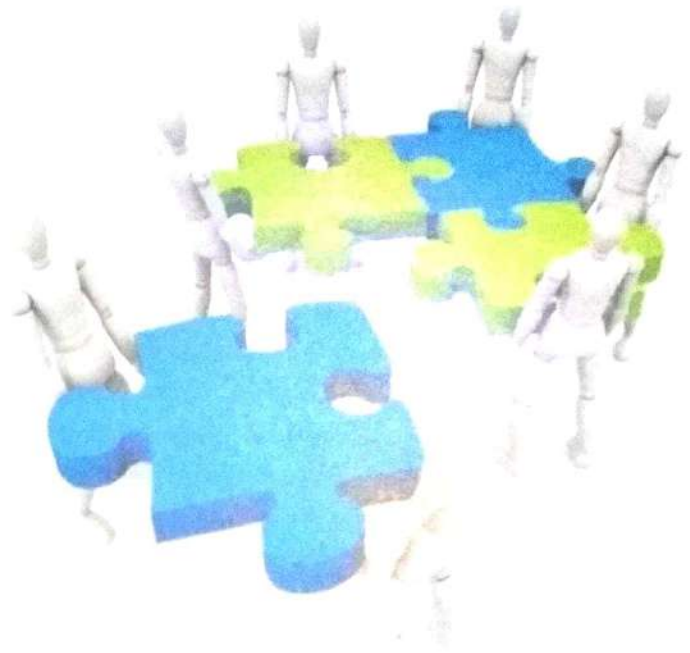


short-term changes in volume and mix requirements.

Synchronisation of schedules based on shared information enables suppliers to become more agile without necessarily having to rely on inventory as a buffer with all its consequential problems. The third building-block in achieving velocity improvements comes from reducing the non-value adding time in the pipeline. Most time spent in a supply chain is not value-adding from a customer perspective. More often than not it is idle time i.e. inventory. That inventory is itself generated as a result of cumbersome processes – every day of process time requires at least a day of inventory to cover during that lead-time.

Here are some guiding principles for supply chain management:

1. Segment customers based on service needs. Companies traditionally grouped customers by industry, product, or trade channel and then provided the same level of service to everyone within a segment. Effective supply-chain management, by contrast, groups customers by distinct service needs--regardless of industry--and then tailors services to those particular segments.
2. Customise the Supply Chain Management network. In designing their supply chain management network, companies need to focus intensely on the service requirements and profitability of the customer segments identified. The conventional approach of creating a "monolithic" Supply chain management network runs counter to successful supply-chain management.
3. Listen to signals of market demand and plan accordingly. Sales and operations planning must span the entire chain to detect early warning signals of changing demand in ordering patterns, customer promotions, and so forth. This demand-intensive approach leads to more consistent forecasts and optimal resource allocation.
4. Differentiate product closer to the customer. Companies today no longer can afford to stockpile inventory to compensate for possible forecasting errors. Instead, they need to postpone product differentiation in the manufacturing process closer to actual consumer demand.
5. Strategically manage the sources of supply. By working closely with their key suppliers to reduce the overall costs of owning materials and services, supply-chain management leaders enhance margins both for themselves and their suppliers. Beating multiple suppliers over the head for the



lowest price is out, Andersen advises. "Gain sharing" is in.

6. Develop a supply-chain-wide technology strategy. As one of the cornerstones of successful supply-chain management, information technology must support multiple levels of decision making. It also should afford a clear view of the flow of products, services, and information.
7. Adopt channel-spanning performance measures. Excellent supply-chain measurement systems do more than just monitor internal functions. They adopt measures that apply to every link in the supply chain. Importantly, these measurement systems embrace both service and financial metrics, such as each account's true profitability.

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**MR. D.HARIYANI AND  
MR. A.K.MATHUR**  
Reader, Dept. of ME



## SOCIAL NETWORKING SITES: PART OF LIFE OR LIFE FOR YOUTH

Social networking websites are virtual communities that encourage and foster interaction among members of a group by allowing them to post personal information, communicate with other users and connect their personal profiles to others' profiles. Examples of popular social networking websites include MySpace, Facebook, Bebo, YouTube, Last.fm, and LinkedIn. Social networking websites allow members to promote themselves and their interests by posting personal profiles that contain enough information for others to determine if they are interested in associating with that person.

As Internet communication technology developed and more applications could be added to a social networking site, the number of features available to users increased drastically, adding to the sites' success. Services such as Facebook allow users to add digital photos and video streams, or build customized applications to enhance personal pages. Teenagers have become the frequent users of social networking websites.

One consequence of the popularity of social networking websites is the drawing of a distinction between Internet users and their online personae. The trend may lead to a legal distinction between the rights of people in the real world and in the virtual world. The limited liability persona (LLP), which would be the legal version of a person's online self, is one possible outcome. Another concern is that the ability to create a whole new persona is impacting teen's ability to socially interact in the real world.

Social networking sites are popular the world over. Such popularity also brings negative attention. Cases involving the stalking of minors, bullying and privacy issues have become part of the public debate over social networking. Several minors have been lured into relationships with sexual predators they met online, forcing MySpace and other services to adopt age requirements and other safety measures. Other notable cases involve the use of social networking websites to investigate the claims or attitudes of job and college applicants. Copyright infringement cases have also arisen as a result of the use of music and video clips on personal profiles.

Youth is busy all the time on these types of social networking sites. It has moreover become life for youth, as it has become passion and fashion for youth to be available and updated all the time on these sites. They feel mandatory to share every event of their routine on the social networking sites. But the sharing of



personal information on the internet destroys the personal space of a person. The cases of cyber crime are increasing rapidly.

So, one should decide involvement of social networking sites in day to day life. Do not wait to get late, when all things are gone. Be aware; make it a part of life but not life itself.



**MR. DINESH KUMAR SHARMA**  
Lecturer, Dept. of ME

## SOLAR ENERGY FOR SOLAR COOKING

Solar energy has the greatest potential of all the sources of renewable energy in the world. The total solar power reaching the earth's surface is 1016 watts, whereas the total worldwide power demand for all needs of human beings is 1013 watts. So the sun gives us 1000 times more power than we require.

There are many applications of solar energy. One of them is solar cooking in which sunlight is converted to heat energy that is used for cooking purpose. Solar cooking is the simplest, safest, and most convenient way to cook food without consuming fuels or heating up the kitchen. A solar cooker can cook food without any cooking gas or kerosene, electricity, coal or wood. It saves fossil fuels, wood, electricity etc., which are otherwise required for cooking. This cooker works with solar energy, which is freely available. A solar cooker can cook two meals per day for four to five persons. It does not emit any smoke or smell and hence does not pollute the environment. There is thus no chance of causing cancer and affecting eyesight or lungs.

A solar cooker is a simple, zero emission device that cooks food





and boils water using only the light of the sun. It turns sunlight directly into heat for cooking unlike photovoltaic cells, which convert sunlight into electricity.

There are three types of solar cookers: panel, box and parabolic. They vary in size, weight, cost, durability, portability and cooking time. The box solar cooker is more common for domestic use. It consists of a well insulated box or tray; the top of the box and the inner surface of the tray, which is exposed to the sun, is painted dull black and is covered by one or more transparent covers. The purpose of these transparent covers is to trap heat inside the solar cooker. These covers allow the radiation from the sun to enter inside and get absorbed by the blackened surface and also reduce the heat loss from the hot black absorber.

In normal cooking heat from the open fire is transferred to the cooking vessel. In this process, a large amount of heat is wasted from the fire to the environment; Heat is also lost in the form of steam which comes out from the cooking medium carrying 540 calories of heat (which is the latent heat of vaporization) per gram of water.

In rural areas, wood stoves or open chullahs are quite common.

The efficiency of these stoves or chullahs is extremely low. As a result a large amount of fuel is wasted during cooking. The use of the solar cooker can help in cutting down the practice of using fuel wood which is playing havoc with our forests.

Thermal solar cooking technologies offer a healthier, cheaper and more environmentally sustainable alternative to cooking with wood or other more costly fuels. They are already in use by millions in China and India. Unlike photovoltaic cells which convert solar energy to electricity, thermal solar technologies harness and concentrate solar energy directly for cooking food, pasteurizing water and other purposes.

The solar cooker has its limitations also. It does not work at night and on a cloudy day, and can not be used for preparing chapattis. However, in spite of all these limitations, if a solar cooker is used throughout the year, it does result in saving of a substantial amount of cooking fuel and contributes towards the economy of the country.



**DR. VINITA SHARMA**  
Reader, Dept. of Chemistry

## PURE AND WHOLESOME WATER

Pure and wholesome water is defined by Dr. S. W. Taylor, a renowned bacteriologist and ex-Director, Metropolitan Water Board, London, U.K. thus

**"Water, which is collected from a properly protected source and subjected to an adequate system of purification, free from visible suspended matter, colour, odour and taste, devoid of objectionable bacteria indicative of the presence of disease producing organism and contain no dissolved matter of minerals or organic**

**origin which in quality would render it dangerous to health and will not dissolve substances injurious to health".**

Some of the important physical and chemical parameters are discussed below:

### 1. pH

The safe prescribed limit by ISI 7.0 to 8.5 pH, regulates most of the biological processes and biochemical reactions. Minor fluctuations in pH of water cause health problems. Due to change in pH, water supply pipelines some times are corroded and metals from the pipes dissolve, ultimately



causing health hazards.

## 2. Electrical Conductivity(EC):

Conductivity of distilled water ranges between 1 to 5  $\mu\text{mho}$  but the presence of salts and contamination with waste waters increases it. Consequently, a sudden rise in conductivity in the water indicates addition of some pollutants to it.

## 3. Alkalinity:

Alkalinity in most of the natural waters is due to the presence of carbonate and bicarbonate of sodium. Alkalinity itself is not harmful to human beings, still the water supplies with less than 100 mg/L are desirable for domestic use.

## 4. Total hardness:

The maximum acceptable limit and maximum allowable concentration are 200 mg/L and 600 mg/L respectively (ISI).

Hardness is usually not regarded as a pollution, because it does not harm the health in a major way. Water that contains salts of calcium and magnesium, and to lesser extent, other polyvalent metals such as iron, aluminium and manganese, is referred to as hard water.

## 5. Chloride:

Bleaching powder or chlorine gas is used for chlorination of drinking water. But excess of chloride in drinking water may also be a health hazard. The maximum acceptable concentration of chloride is 200 mg/L and the maximum allowable concentration is 600 mg/L.

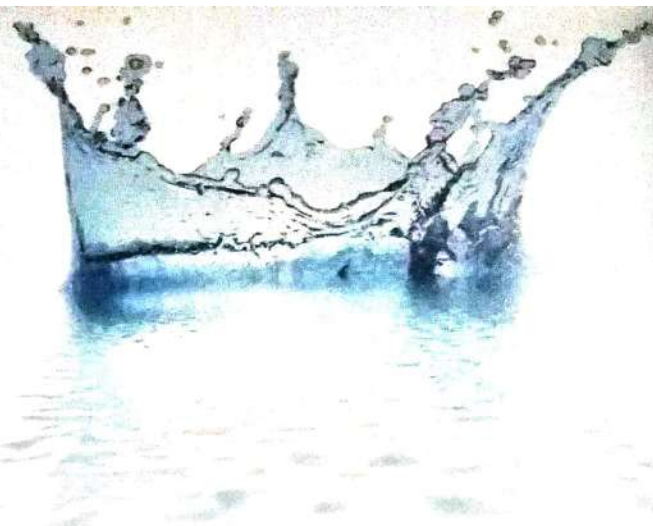
## 6. Sulphate ( $\text{SO}_4^{2-}$ ):

Excess of sulphate in drinking water has a cathartic effect on human beings and cattle, when the concentration exceeds the upper limit of 200 mg/L. If the concentration is above 500 mg/L ( $\text{Na}_2\text{SO}_4$ ) or 1200 mg/L ( $\text{MgSO}_4$ ), it causes diarrhoea in human beings. Sulphate is important from public water supplies point of view because of its tendency to form hard scales in boilers and heat exchangers.

## 7. Fluoride:

Fluoride concentration has a dual effect on physiology. Concentration less than 0.7 mg/L and more than 1.5 mg/L are injurious. Approx. 1.0 mg/L of fluoride content is desirable in public waters for optimal dental health; at decreasing levels dental caries become a problem. This problem may be solved by fluoridation.

Excessive concentration of fluoride ( $> 1.5 \text{ mg/L}$ ) causes dental



fluorosis (disfigurement of the teeth) and harm to bony structures (Sclerosis). The pathological symptoms become evident in the form of yellow to brown patches on the teeth and, at certain times, development of cracks in teeth takes place. This condition is well known as mottling. In order to have a better supply of water defluoridation of water is must.

## 8. Nitrate ( $\text{NO}_3^-$ )

The excess of  $\text{NO}_3^-$  in drinking water is also a health hazard. The surplus use of fertilizers for boosting up production is not uncommon today.  $\text{NO}_3^-$  being water soluble leaches down to lower horizons and ultimately finds its way into ground water.  $\text{NO}_3^-$  has been reported to cause cyanosis or blue baby disease and heart troubles. The maximum acceptable limit for  $\text{NO}_3^-$  is 45 mg/L.

## 9. Dissolved Oxygen (DO)

Dissolved oxygen is one of the most important parameters in water quality assessment. High value of dissolved oxygen indicates purity of water. In drinking water the recommended limit of DO value by WHO should be  $\geq 5 \text{ mg/L}$ . Low concentration of oxygen is generally associated with heavy contamination by organic matter. Some inorganic reductants such as hydrogensulphide, ammonia, nitrates, ferrous ion and other oxidizable substances also tend to decrease dissolved oxygen.

So, it is evident that water which we use for drinking purpose should be free from all types of physical, chemical and biological impurities.



**DR. SHARDA SONI**  
Reader, Dept. of Chemistry



# 5-S WORKPLACE ORGANIZATION

The 5-S workplace organization was initiated from Japan keeping in mind the employee participation in lean manufacturing. It helps the company to improve productivity, quality, on time delivery, reduces cycle time and minimize inventory. The 5-Ss are as follows:

## 1. Seiri (sort):

It is the procedure by which one identifies what is value adding and what is not value adding to the customers. What is not adding value to the customer is a waste and needs to be segregated and disposed off.

The following steps are adhered during sort:

- Identify the items not in use category wise
- Attach red tag to the items
- Form a CFT for disposal
- Take disposal action and record the action

## 2. Seiton (set in order):

Having identified and disposed the items which are not adding the value, the next step is to arrange the items required in such a way that there is no waste. All the areas of the company need to be set in order including sales forecast, shop floor organization, supply chain process, production process, and quality assurance process and information flow.

The following steps are adhered during sort:

- Rearrange the shop layout
- Reposition machinery and equipment
- Have proper location for safety equipments
- Arrangement for maintenance spares
- Arrangement for meeting area
- Reorganize supply chain
- Review and improve the quality control process
- Improve the information flow

## 3. Seiso (shine):

It means to keep the things clean which means to be ready for immediate use. If any machine, equipment, tool, material, procedure, drawing etc. is not ready for immediate use, then delays will get created. Any form of delay is a waste. Lean manufacturing insists on elimination of waste. The following steps are taken in Seiso:

The following steps are adhered during sort:

- The shop floor should be cleaned and painted with a proper colour scheme
- At the beginning and end of each shift each and every machine /equipment should be cleaned.
- Keep the tools clean and grease before storage.
- Keep all the record, job orders and work orders clean and in their respective places.
- Make sure that safety equipments are ready for use.

## 4. Seiketsu (standardize):

Standards are created after the completing sort, set in order and cleaning. All employees should strictly follow the standards, so that uniformity is followed throughout the organization. The standardization of following is compulsory:

The following steps are adhered during sort:

- Amount of inventory
- Tools that belongs in the area
- Location and colour of aisle ways
- Location of tool, equipment and documents
- Cleaning schedule
- Processes
- Procedure
- Vendor selection
- Shop production standards
- Shop quality standards

## 5. Seitsuke (sustain):

To maintain its objective, the organization has to sustain its cleaning and standardization process. Sustain is not deviating from the accepted norms in all circumstances. For this the top management has to continuously monitor the process and see that if there is any slippage, then they must be corrected immediately. This can be done by:

The following steps are adhered during sort:

- Amount of inventory
- Forming a communication board
- Formulating visual standards and procedures
- Develop weekly 5S application and prepare monthly management reviews

## REFERENCE:

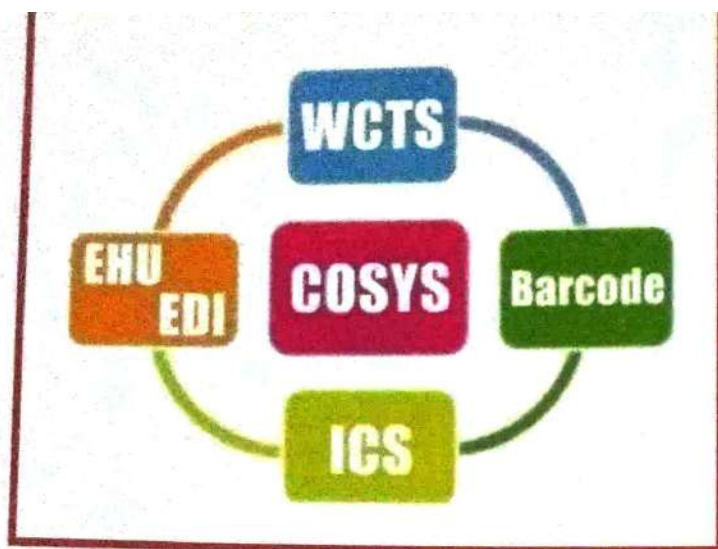
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**MR. MANOJ KUMAR SAIN**

Reader, Dept. of ME





## COSYS

I was asked to write about CoSys so that readers can get a hint of how this platform works, all technical details. I won't be answering these questions in this article rather I will be talking about how all this started and its journey so far but if you are interested to know more of the technical part of it, you can visit <http://about.cosys.in/>

Most of us live in a world where we have been taught to prepare ourselves for the challenges that life will throw at us. It doesn't matter if we are ready for it or not, it will come and we would have to survive them in order to sustain. One could be a smart student who got a bad test score because he didn't study; but in the eyes of the grader, it doesn't matter what our excuse is. What matters is the result. We are living in a world which is result oriented and not skill oriented. We at CoSys begin our journey to bring about this change, to change the rules and develop the culture where we can focus on our skills, our interests instead of living life for someone else's expectations. We wanted to do this because of our belief that we can live for 100 years and still not enjoy and even a day of our life. We don't want to be a walking corpse waiting to be buried rather we want to grab life and embrace it. So we thought let's do the things we have always planned to do. To make all this possible we worked day and night to develop a system where we can collaborate to learn, to share. Collaboration used to be easy real-time, face-to-face conversation, but we lost something along the way. For us true meaning of collaboration is a place where people are at the centre, where strangers doesn't exist, where ideas have voice, where( reactive becomes proactive become interactive), powerpoint has the meaning, where the individual contributor become team player. CoSys understands this and it is a place where new era of collaborative network begins. CoSys is all about connecting our dreams to reality. We did extensive research to make things simple yet complex to give away such an efficient system to use.

People come to me and ask "You are doing things that already exist; so what's the need of CoSys" ?

I simply say, bricks, cement, rocks, pipes all are available in the market; but you can't build a home if any of the above things is missing. The same goes with CoSys; everything is pre-existing but nothing at one place. So come to CoSys and see what you can do beyond yourselves.

Below are the lines from poem Invictus which I thought would be apt for the end of this article-

"I am the Master of my fate, I am the Captain of my Soul"



**SHUBHAM PALIWAL**

III B. Tech., CSE

### "I WILL CROSS THE MILES"

*I am neither a gem nor a stone,  
All I have learnt is to stand alone,  
Face that carries a big fake smile,  
Walking amidst the thoughts,  
I need to cross miles.*

*The world is bleak, greedy and liar,  
Dreading the expected, will set me on fire.  
I'll be lost while taming people's thoughts,  
Later realising the precious time I lost.*

*I am silent with nothing to spray,  
It's how the world goes, that's what they say.  
They made me carry that fake smile,  
Setting aside the thoughts, I am crossing miles.*

*Standing by the riverside, I realised my thirst,  
Which was all lost in the battle of 'trust',  
I do not regret the battle I lost,  
It showed me that which I never thought,  
But now I have seen my 'zenith' smile,  
Forgetting the past, Taming the thoughts,  
I will cross miles!!*



**TANVI ARORA**

III B. Tech., ECE



## "THE OATH OF THE VAYUPUTRAS": A REVIEW-

The idea of humanising the mighty Shiva worked well for the first book by Amish Tripathi, "The Immortals of Meluha". The second instalment was better with a somewhat intriguing tale sufficiently, and could engross the readers to ignore a bull in a china shop. With "The Oath of the Vayuputras", all those readers who booked advance copies in anticipation of a repeat performance must be plodding through a dreary tome.

Though the story has a good plot, nothing sparkling has been done with the storyline. It seems as if the story has been submerged in a morass of verbosity. The suspense element is missing in the story as the events are self explanatory. The reader can easily skip a few pages every now and then and not miss any twist of the plot.

While it is interesting to note that the story about an ancient, fictitious event has been written in contemporary style, the lack of consistency becomes jarring. Words like "pitritulya" for godfather and phrases like 'queering the pitch' seem to confuse the story's timeline. There are instances when the reader is elevated to a state of joy, sadness and respect, as if he feels for the characters in the book but the book could have been somewhat shorter.

Again, it is a lack of general knowledge that made Tripathi say battle-trained elephants could be deflected with chilli powder, contrary to the fact that chillies came to the subcontinent just a few hundred years ago!

At a time when the author is going so great and that Karan Johar has decided to film the Shiva trilogy, readers may opt for an instant best-seller. But if the search is for an everlasting tale, then readers should pick this at their own risk.



**RAJDEEP SUKHWAT**  
II B. Tech., ECE

## DREAMS TO REALITY

### ENGINEERING PROFESSION

Every student pursuing engineering education has a dream that the profession will fulfill his/her aspirations in life. For this to become a reality one needs to understand why society wishes to reward you through this profession and how should you pursue the education for it.

The function of engineering is to find or create solutions to an existing or potential problem. An ability to make use of mathematical equations and scientific concepts is the skill that engineers need to use for developing a concept, product or service. Engineering is a very old profession and has played a significant role in meeting the needs of the society. Today whatever you enjoy as products and services is possible because of this profession only. As the diversity and complexity has grown in the products and services available to the society, specialization in various fields has become a necessity, and therefore there are different branches of engineering now. It is noteworthy that though the branches are many, they are interdependent, and therefore elementary knowledge of all the branches is a basic need for pursuing the profession. Engineers use problem solving skills combined with practical application in order to come up with inventions & innovations that present resolutions to everyday quandaries.

### APPROACH TO PURSUE ENGINEERING STUDY

Right from the first semester students should put in efforts to understand the significant applications of all topics in the curriculum. It is noteworthy that every topic in the curriculum has relevance from the viewpoint of its application. All basic science subjects and mathematics are essential for pursuing engineering studies. When pursuing studies of any topic, 'Why?' should always be there in the mind. All the labs are equally important. Likewise workshop sessions also need to be pursued with interest to understand the operation of all machines. It may puzzle you what is the relevance of a workshop for an engineer? It is relevant because you may be required to take the help of workshop activities in your branch of specific activities. All branches are interconnected and inter-dependent, and therefore your study should proceed by taking note of this aspect. One may think, "What is the role of mechanical engineering in computer science?" Can computer hardware be produced without the use of mechanical engineering and other branches? You also apply information technology to solve problems in Mechanical Engineering. If you do not possess basic understanding & context



of the problem statements, it would be difficult to work on the solution.

### SIGNIFICANCE OF APPLICATION ORIENTATION

Engineering education has to be assimilated from the viewpoint of its application only. If the applications of the topic/subject are not clear, the knowledge will not prove to of any help in pursuing the profession. Students should therefore keep surfing the websites of the companies of their interest to gather knowledge about their activities and to ponder over how their knowledge is relevant in the activities of the companies.

### RELEVANCE OF INDUSTRIAL ECONOMICS & MANAGEMENT

Without the knowledge of industrial economics & management the engineering profession cannot be pursued because the cost effectiveness of the product/service is of the foremost importance for any for its survival. Likewise knowledge of efficient management is also important for pursuing the engineering profession. All activities in an industry need to be managed effectively for its success. Although the topic is being taught through lab, its importance should be made clear.

### IMPORTANCE OF WRITTEN AND COMMUNICATION SKILLS

Whatever knowledge you seek for pursuing the profession will have to be shared with others to give shape to it. Also seeking information from others is equally important for the profession. The engineering profession cannot be pursued in isolation. The medical profession can be pursued without good communication skills as the patient alone will have to communicate with the doctor to make him/her understand his/her problem; but in case of the engineering profession two-way communication is a basic need. This is the reason why English is not included in the curriculum of the medical profession.

### CONCLUSION

As you start your journey to become successful engineers, take time to understand your destination and see the curriculum as a step toward the goal. This perspective will help you make the most of your engineering education and have a rewarding career.



**PROF. M. L. BHARGAVA**  
Adviser, SKIT

## A MESSAGE FOR JUNIORS

*"Anybody can have a brain. That's a very mediocre commodity. Every pusillanimous creature in the world has a brain. But back where I come from, we have universities and colleges, seats of great learning, where men go to become great thinkers. And when they come out, they think deep thoughts with no more brains than you have."*

**- Wizard of Oz**

Usually when you ask somebody in college why they are there, they'll tell you it's to get an education. The truth of it is, they are there to get a degree so that they can get ahead in the rat race of the world.

From my experience I can say that college life is the best phase of one's life; that's why you look back you don't have anything to repent for.

In the four years of my college life, I put in efforts in every activity I was interested in besides studies. I believe in forging a good combination of the curricular and the extracurricular.

As far as studies are concerned, in engineering, you have to study smart to grasp the concept, not to mug up the book. In the end it's the concept that you have that is going to make the difference.

As for the extracurricular, in college life I applied my foresight in choosing the activities and took up those which were either beneficial for my career or in which I was interested. As I had a great interest in robotics and embedded systems, I participated in the annual robotics workshop for 3 consecutive years. This helped me gain not only the fundamental knowledge of Electronics(my branch) with hands-on experience on the provided robotics kit but also helped me in winning good contacts with brilliant seniors and Prof. Bhatnagar Sir(organizer of such events) who turned out as great support for me. In such environment one may start thinking about his future also. Finding a role model always helps here. A senior, a professor or a sibling may be especially inspiring. But be mindful of your originality. Don't imitate anyone. Select your contacts and friends with the utmost care and patience. I can say with the force of experience that college friendships will be among the most satisfying and long lasting in your life.

In the second year I opted for Linux classes that used to be organized in the college after 2:30 pm everyday. As I am not that good at computer related subjects, I took this up as a challenge. It was an effort to learn something new. Eventually I was the only girl to pass the Linux exam to become an R.H.C.E(Red Hat Certified





Engineer) and, believe me, it was a tough call.

In third year, I joined a soft skills programme under Infosys Campus Connect that helped me in various ways to come out of my shell. I always took an initiative in managing events in the annual tech-fest Pravah to become more extrovert and open because basically I am an introvert person. I also pursued my hobby of singing by grabbing opportunities whenever possible.

I went through rigorous summer training with Bosch Ltd. Jaipur. Here I got an excellent exposure by helping with their live project of migration of their machines from Windows 2003 to Windows XP. I also managed to undergo training in Nokia Siemens Jaipur side by side during that period to enhance my knowledge in the field of communication.

In the fourth year I didn't get an opportunity to indulge much in such activities as I was involved in campus placements going on at that time. In my technical interview for Wipro, the HR person questioned me about Linux commands, which I answered correctly. When he gave me a chance to ask something I asked whether I would be able to sell my own research work project to the company as they do in Bosch. This question was an attempt to

make him realize that I had gone through a rigorous training and knew not only the core material of training but also other ins and outs. This obviously worked and helped me get the job.

It's said that "a college is a place where pebbles are polished and diamonds dimmed." It's upto you whether you want to shine or get dimmed. You'll always be on your own, your own boss 24\*7. But you need to be careful here. Enjoy your freedom but don't go flying off at the end of the pier. Talk about your ambitions, your fears, your achievements, your mistakes with your buddies. Explore the city with your friends. Remember though that with freedom comes responsibility. Even though your parents won't be around to follow up on your loose ends, you shouldn't let the things go completely. Just invent your own way. Going to college is as much about finding who you really are as it is about getting that degree. Because in the end everybody has a degree but life is easy only for those who have that 'something extra' in them.



**Vidhi Mohan (2011 Batch)**  
Associate Software Consultant  
BSD Division Wipro Infotech. Ltd

## THE RETURN OF ULYSEES

Ladies & gentlemen, I am honoured to be a part of the team. But more than that I feel privileged to lead the team to the contest, to the battlefield. I need all of us to remember all through the contest that we are champions. We are born to fight & win what is ours... we will conquer what has not been conquered. Defeat will have no place. We will believe in what others have doubted. We

will always strive for the prestige of our team. We have trained our minds, and our bodies will follow. We need to acknowledge the fact that our opponents do not expect us to win; but we will not surrender. Weakness will not be in our hearts. We will look to our comrades, to those who have brought us into this world and those who have trained us, and will draw strength from them. We will move, groove and do everything that we can do. We will achieve our goals by any means at our disposal. We will fight our





hardest for every inch.

The extra inch is the way to accomplish results beyond expectations. At 211 degrees water is hot but it boils at 212 degrees. And with boiling water comes steam and with steam we can power a train. It has been rightly stated by Polybius "Some men obtain victory by exerting at the last moment, by putting in more vigorous efforts than ever before". Triumph is always closest when defeat seems inescapable, and one may have to fight the contest more than once to win it. By going the extra inch normal individuals have become champions and so will we. The extra degree is something which we all have to fight for and everyone will do so as a team and not as an individual. I want all of us to clinch that extra inch for the team and for our common goal. It's our fight and we only shall be responsible for our results, results that will take all of us beyond expectations. It's the time to turn up the heat. At some point of time and some of us might feel that the task assigned to us is small and insignificant; but remember that a small ripple can gain momentum and build a current that is insurmountable. We have started with small steps and one step at a time, but we will not be bothered about those who stand in our way but will just walk past them. Some may laugh but some will appreciate. Anxiety of failure makes people small but we will run towards them and embrace them. Beyond the biggest failures lies the brightest life.

And when we get to the goal, we will arrive with vigour and zeal. We will rip the victory from the clinches of our opponents because they cannot restrain us from winning our prize. On our side we have comrades, team members that have been with us through thick and thin, through sacrifices, through efforts, through sweat, through hard work. Never shall we let them fall. Never shall we let them down and never leave any stone unturned. Even if the whole world confronts, even if everyone defies us, we shall not let them dampen our spirits. No one shall tell us who and what we are and can be. Self belief will change our world. It has moved continents and countries and put man on the moon. The same will guide us through our trials. Defeat, retreat & impossible are not our words. We do not understand those definitions. We do

not understand when things would go wrong. We do not understand mistakes, but we do understand victory and we understand never to give up, no matter how bad things go. Our minds & our hearts will carry our bodies when our limbs get weak, when we feel drowsy. But we will not go to bed unless we have travelled a hundred miles. Today will be that day, not tomorrow, not next week, but right now, right here in our house and in our lanes. We will make history and we will be remembered. We will not expect our opponents to be afraid of us and to under-perform. We will define ourselves, we will write our own praises. And no one shall tell us what we can and cannot be.

I want all of us to get up, step up and play the game of life. We have dreamt it & dreamt big. Now is the time to make them come true! "We are the masters of our fate; we are the captains of our soul."



Gautam Sihag  
IV B. Tech., CS

## DYING HUMANITY

India is a place where a girl is neither safe inside the womb nor outside. I think rape is the most brutal act. I was used to be a proud citizen of my country, but now I feel ashamed. I feel ashamed because I live in a society where man's desire is more important than a woman's respect. I am ashamed of being a male. For the very first time in my life, I am not able to look straight into the eyes of my mother or any other woman. My heart aches a lot after hearing all the suffering you went through, being a girl.

In newspapers we daily find a lot of rape cases. Sometimes I think.....Can someone's sexual desires be more than a girl's life, her respect and her feelings???? If the answer is 'yes', then I would really like the Indian government to legalize prostitution. I know that it is not a part of Indian culture, but neither is rape. So to get a little change and to make things right from the worst, we will do anything.

I hope when prostitution is legalized, there will be a huge decrease in the rate of rape cases. At the end I would like to apologize for my ignorant behaviour for all these years, as I am a man and enough matured to realize my responsibilities towards the citizens of this country.

But now I want all the victims to know, that they haven't died for



nothing. All of them have awakened the souls of millions of Indians including me. I have taken my first step ahead by writing this article even though knowing that this is not enough to ensure that such incidents will not happen in future.



**VANSH SOOD**  
III B.Tech., EE

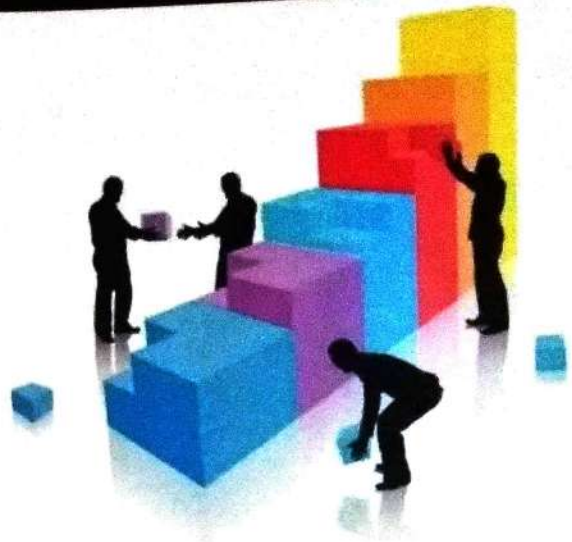
## INDIAN ENGINEER IN CURRENT SCENARIO

Engineers are scientists, mathematicians, inventors, and project planners combined. An engineer takes information from various fields and applies that information to solve problems. He creates! He is a force to be reckoned with! Everything that we use today is essentially designed by an engineer. An engineer is the driving force of modern technology. He sees the world from a different perspective. He innovates, designs and delivers performance. An engineer applies scientific knowledge, mathematics, and ingenuity to develop solutions for technical problems.

This is what an "ideal" engineer is: he is a thinker, an analyst and a problem solver. Yes, ideal, because the engineer described above is a rare thing to find in today's scenario. What an engineer should be, and what today's Indian engineer is becoming are like two rivers flowing in the opposite directions.

When a child passes his tenth standard exam, he is faced with the dilemma of choosing a subject for himself, a subject which will decide his career and shape his future. He has no plans for his tomorrow and no idea about how to make a career for himself. Parents give their children an easy choice, "Go for PCM beta, you can then become an engineer and would be rewarded with a job in some software company with a heavy package." And his fate is sealed. He has no idea what an engineer is or what he does, he just blindly follows his parents' counsel. He enters the college and finds himself at the wrong place. His interests and inclinations are entirely different. But he is stuck. In order to make something of his life, he has to wade through these four years.

Today's engineer is package driven. He works for the fat cheque. The reason behind why a huge segment of the Indian youth is going for the technical degree is to gain a job in the MNCs with lucrative packages and contracts. It's only once in a blue moon that one would spot a passionate and enthusiastic student who becomes an engineer because of his love for machines or his keen interest in inventions and new ideas. The present Indian engineer



is not hungry for knowledge. Nor does he seek new ideas and inventions. He is just finding new ways to fill his pockets. For most of them, the engineering degree is a gateway to other higher platforms of MBA and civil services. They need to realize that their destination has other doors too; they should stop wasting this resource.

The government of India has established premier engineering institutes across the country. According to the NIT Act 2007, the national institutes of technology (NITs) are declared as institutions of national importance, along the lines of the IITs, and are eligible for a larger amount of funding and support from the Indian Government. The tax payer's hard earned money is being invested in education sector for the development of the nation. A good engineer is a valuable human resource to the nation. He is an asset to India. But today, the engineers graduating from top institutes like the IITs are seeking job offers in foreign lands. They attain education here, and then serve as a human resource to another country.

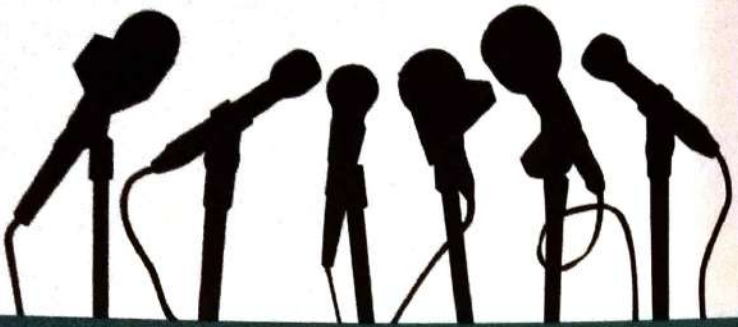
India is a young economy. It is still developing and it has a huge way to go before it reaches great heights. Hence every human resource is indispensable. Although the constitution of India gives full freedom of choice of profession to the citizens of India, a good citizen must realize that receiving expensive technical education at the cost of poverty ridden fellow countrymen and then, leaving the country for personal monetary gains is an act of great betrayal.



**KOSHA AGARWAL**  
I B.Tech., CS



## GIRLS SHOULD STAND AND SPEAK



Arguments and debates are still going on in the parliament, in courts, community clubs, offices, and colleges on how status of women can be raised in the society after the recent Delhi gang rape case. As rightly said night is captain of the new ship which is hope that the fairer sex will earn their respect in society. I am talking about that respect which got lost on the streets but no one dared to take that girl to the hospital, the self respect that got lost under the pressure of family status, the self respect that got lost in the verbal abuse by the eve teasers and a few male chauvinists still living in our society. We are talking about the respect that vanished in considering men superior to women. Women are called the fairer sex but that does not mean they are incapable or weak. Even though she is quiet, a woman also rules and she also struggles. Men may boast of creating giant machines and skyscrapers but a woman is the creator of life, which is the greatest gift of all. She nourishes and nurtures life, she holds the power to

mould the life that she brings into this world, a power that is tender yet firm, power that can change the future, power to impact a nation. She is an enigma, a player of so many roles. She singlehandedly manages both household and career, and holds the reigns of a nation in her hands as president and prime minister. Her presence can be seen in the corporate world as human resource, finance, marketing manager; she has scaled Mt. Everest and has left her mark in the space.

If she is so powerful, then why women are so scared? Women should realise the power within themselves. It is time women raised their voice against the injustice being done to them, whether it be in classrooms or on streets or in the workplace. Women must realise the power within, and speak up against the wrong she has suffered, and every person who dares to demean her. It is the responsibility of every woman to raise her voice against the man who dares utter even a single word against her character. Even cattle retaliate against wrong done to them. All she has to do is to believe in herself. If every woman ignites a single spark, together they can light a bonfire so bright that it will illuminate the entire nation.

Even Gandhiji said: be the change you want to see.



**SANCHITA RAJVANSHI**  
III B.Tech., IT

## HONOUR KILLING

Honour killing is the homicide of a member of a family or social group by other members who believe that the victim has brought dishonour upon the family or community. Honour killings have existed in all societies at all times. It is the most blatant dishonour to humanity. Honour killings are mostly directed against young women.

Honour killing happens when a girl doesn't agree for an arranged marriage, or engages in a love marriage, or if she seeks a divorce even from an abusive husband, or for being the victim of a sexual assault. Honour killing also happens in case of men when they try to marry the girl whom they love and start practising the religion followed by the girl.

It is understandable if the family members feel that the victim has brought them dishonour; but killing them is not the solution.

They do not have the right to kill the victim. The girls and boys have the right to choose and marry the person they want. If it is demeaning for the family, it may break off its relations with them; but killing them is brutal and harsh.

To stop honour killing, the government should make strict laws against people who practise it. It is very necessary as with the passing of time it is increasing.

So the question to be addressed is:

"It's you who have to make the decision: your prestige or your relation; which is better?"



**DIPANSHU PARAKH**  
I B.Tech., ECE



# INDIAN EDUCATION SYSTEM

Even after 65 years of independence India is labeled a developing country. Why is it so? It is because India's education system has failed to achieve the object of inclusive growth.

There are many reasons for one to despair about India, but none is more disheartening than its poor education system. In fact most development economists agree that economic failure and a failed education system are inter-linked.

As Indians we have a wrong perception that a country is said to be developed if and only if they have good number of skyscrapers, malls, etc. But this is not so. A country is developed only if it utilizes its resources efficiently, whether it be human resource, agricultural resource or any other resource. India has lacked in this department as 80% of resources are consumed by 20% of population.

India's biggest resource is its huge population. 550 million people are under the age of 25 years out of which only 11% are enrolled in tertiary institutions compared to the world's average of 25%. The main reason behind this is that India spends only 3% of its GDP on education.

The critical aspect of Indian education system is its low quality. The quality of education that children receive in government schools is inefficient accompanied with poor infrastructure and inadequate pedagogic attention. On the other hand, the private schools are engaged in improving the infrastructure of the school. No one is really concerned about the quality of education.

Education is a source of human capital and can create huge income inequality. An educated person earns at least 10 times more than an uneducated person. Therefore if the government does not improve the education system in rural areas (which comprise 70% of India's population) then the rich will become richer and the poor will become poorer.

Now let us compare the present education system of India with the western education system. Two large economies, India and the US are polar opposites in this context. The Academic Rankings of the World Universities (ARWU) report for 2012 conducted by Shanghai's Jiao Tong University makes for depressing readings for anyone who care about Indian education system.

The US leads the table with top 5 spots in the world rankings: Harvard, Stanford, MIT, UC Berkeley and Cambridge. In top 20 US captures 17 spots, 53 in top 100, 85 in top 200 and so on. The US dominates the world in education. India has one university ranked

in top 500. On the other hand China, which was as poor as India three decades ago, has 42 in top 500.

What's even more pathetic is that quite a few hundred million Indians won't be able to read this report because they are just illiterate, but even those who can read don't bother to ask why this is so.

So the government has to take millions of steps to bring reforms in the Indian education system. This time around people may only can hope that Budget 2013 will bring in some hopes for some improvement in the education sector.



SHIV SHANKAR

II B.Tech., ECE

## IRRATIONAL

Incapable of defying the heavy tides, your boat is helpless and tired. Living one gasp every time, your boat is helpless and tired. All the odds are against you, its time you make a difference.

When I walk, people who pass stare at me, they laugh at me and question my thoughts endlessly. When I see them in their eyes all I see is a question, a question which I too ask sometimes to myself when I am sitting alone. "WHY AM I IRRATIONAL"?

Being irrational is something which will not be suggested by very many people in the world we live in. If you are a dreamer, you have to place your trust in your thoughts than in your senses. People may think you to be illogical and senseless, but your mind is a free pathway to dream and explore the possibilities of your potential.

One thing which I have learnt from my experience is that if a thing is widely accepted by people, you should doubt it. Just because something is "common sense" and "common knowledge" does not validate it always. George Bernard Shaw once said, "The reasonable man adapts himself to the world; the unreasonable one persists in trying to adapt the world to himself. Therefore all the progress depends on the unreasonable man."

Dream big and irrational every time. If the dream you have is not senseless and irrational, you haven't dreamt big enough.



When you have a dream that is big enough, it will be something mind blowing. It will excite you all the time and scare you too at the same time. It will be a dream which will force you to question your own sanity. It will be a dream which will be there to change your life. Don't let it go. So free yourself from all the practical things that are revolving in your mind like how much money you have, what is your job status, where will you end up after 5 years, and the list of questions that haunt us is endless; but this dream which was caught after so many efforts shouldn't be left back on the shore.

If you have a clear idea how your dream should be worked upon with every detail marked properly and if you start working towards it accordingly, it will be flawed. If you are irrational, the picture will not be clear in your mind at first; sure you would have an idea on where to start, but not the whole scenario, but "where there's a will, there's a way". It may sound a cliché but it fits perfectly. The words like success, happiness and fulfilment do not come as a surprise to people who dream big because they have already lived these moments inside their minds many times prior to the day they actually fall into their palms. The spiritual and mental aspects of a man are limitless, boundless, and free in every respect, more powerful than we can ever imagine. They are irrational and senseless.

**"Through faith we understand that the words were framed by the word of God, so that the things which are seen were not made of things which do appear."**

Learn to utilise the power within you. Be irrational.

You are best with you in yourself.

HAPPY DAYS ALWAYS ^\_^



**MONIL NARAYAN**

III B.Tech., CS

## LEADERSHIP

According to George Bernard Shaw "LEADERSHIP is the true joy in life, being used for a purpose recognized by yourself as a mighty one, being a true force of nature instead of a feverish little clod of ailments and grievances complaining that the world will not devote itself to making you happy... I want to be thoroughly used up when I die. For the harder I work, the more I live. I rejoice in life for its own sake. Life is no brief candle to me. It's a sort of splendid torch which I've got to hold up for the moment and I want to make it burn as brightly as possible before handing it on to future generations."

From the above statement of Bernard Shaw, the essence of leadership in our life becomes very clear. Now there are some questions that will help to decide what we have to do in order to become a good leader.

First, what is this time honored and miraculous formula that makes us the toast of social community and leadership? Being a student at the verge of beginning college life, everyone is a leader. Showing new leadership qualities at our work gives us greater respect and a more positive experience of work. Of course there are harder times also and failure is a foreign concept to such a student. But we can achieve a lot in our life. The true source of achievements could be traced back by an almost obsessive desire to win, to do something that could never be done before, to prove ourselves. A well developed base of personal knowledge laid the foundation for successful life. Actually knowledge will always be our best friend, no matter where we go or what we do. There is a power of dedication, diligence and hardwork in a student or a person who shows true commitment to his work or field, which is also a necessary thing in leadership.

Secondly, how can we handle the tensions of a high tech, fast changing world?

Our positive attitude plays a key role in making our minds calm and relaxed. Nothing can defeat us unless we defeat ourselves. Actually we are unable to face the reality. There are areas which need much more improvement. It also depends on the art of managing people and tasks that can be done easily by spending time with colleagues, friends; building relationships with family members and others; cultivating loyalty around our field as self esteem is also linked to our jobs, our respect and impression in our field should be maintained.

Thirdly, who is that wise visitor who revolutionized us and showed us how to become a revolutionary leader these topsy-turvy times call for?

A true believer in our potential and talent must be that wise visitor. That person might be our father, mother, colleague, friend or lover, who believes that you were unstoppable and the world was truly a place of unlimited possibilities for you. Keep a firm belief that life sends us gifts from time to time. Success comes to those who recognize and accept them.

The answers to all such questions will change the way we live. The time has come for us to discover them.



**NITIN SHARMA**

I B.Tech., CS



## SKIT TIPS

- Tip No 1 - You have joined SKIT... MAY THE FORCE BE WITH YOU!!
- Tip No 2 - Your watch is completely fine; it's just that time slows down during lectures.
- Tip No 3 - You are never done with your college work. It literally never ends. You might think you are done but you are not. (Specially your practical files)
- Tip No 4 - It's not always a good professor knows your name. (Popular opinion says it never is).
- Tip No 5 - Life was simple when "A" and "B" were just alphabets.
- Tip No 6 - The guy with the lecture notes and important question ought to be your best friend.
- Tip No 7 - "40" and "70" ... these numbers are going to haunt you throughout your life at SKIT.
- Tip No 8 - At this very moment you are procrastinating.
- Tip No 9 - "GOOGLE" is the solution to all your problems at SKIT...
- Tip No 10 - "Going to library" and "studying in library" are two very different things don't mix them up...
- Tip No 12 - Don't mess with people who handle your grades.
- Tip No 13 - During vacations you will actually be missing college.
- Tip No 14 - You will always feel in the next semester you are going to study 6 hours regularly whatever happens.



**AKSHANSH SRIVASTAVA**  
III B. Tech., IT

insects which seem to be partying, each of them producing a sound of its variety; the clothes on the hanger with a determination of staying wet forever; the black pools on the roads offer the best stains for your clothes. School kids wearing raincoats appear like nuclear scientists, and an interesting sight caused by wet roads is that even boys walk as if they were wearing stilettos.

But the most magnificent experience is the aroma of the soil which is like that of a young lady stepping out of the bathroom after shampooing her hair.



**GOURAV VYAS**  
III B. Tech., ECE

## THE STORY OF A FOETUS

Suddenly I felt I was not able to breathe and I felt suffocated; my heart stopped beating, my blood vessels suddenly became empty, my brain stopped working and my nerves became numb, and tears rolled down my eyes before they were closed forever. I shouted, "please don't kill me. I cried, I lamented but no one paid heed to what I was saying..I told them, I love you all a lot. I have lived with you for four long months'. I am your family member, I also want my grandmother to love me and save me from my parents' scolding. I also want my grandfather to fulfil all my undue wishes. I also want the love and affection of my uncle and aunt. I also want to experience the sweet Tom n Jerry fights with my siblings and my cousins. I also want to feel the protection of my father and love and care of my mother; but before I could really experience all this, I left this world, or I should rather say that this world, full of cruel people, did not let me live. They murdered me brutally without savouring a thought that even I am a human being, though I was not a boy!!

My mother tried to fight against odds in order to save me, but the fear of being thrown out of the house made her surrender in front of her inhuman in-laws and heartless husband. I feel ashamed to even call that person my father. People are fighting for the girl who has been murdered by the criminals, but what about those thousands of foetuses of girls who are being murdered by their own father, own grandparents, the well educated elite doctors of the country? Who will come to my rescue?? Who will come for their rescue??? I wanted to come but .....

Today I want to share with you my entire journey in this inhuman,

## THE JULY FESTIVAL

Recently I was watching the movie 'Zindagi Naa Milegi Dobaara'. In this movie there is a splendid portrayal of Spain and its 'October Festival', a time of colours and crowds. At that time I realized that in India too, we celebrate a festival of this kind, 'the July festival'. July, the time of pouring skies, as if nature is taking a shower bath after the May-June workout.

As the black cotton clusters climb the sky, a feeling of utter enchantment runs through me. But there is more to this season: the bikes that refuse to start if they have to cross a single ditch; the



cruel, heartless world .I got life when my mother conceived me and developed my genes. Within a few days my heart and brain developed and I could feel the love for my family. When I completed 18 days inside my mother my heart started beating for my family, especially for my parents. And now I could eat what my mother ate because my stomach, lungs, intestines, and eyes also developed; and now I was so happy as I could see the world through my mother's eyes. After three weeks of conception my limbs developed and I started sucking my thumb. At about 9 weeks I could respond to touch, I could curl my fingers, and bend my knees; I could communicate .When I turned 11 weeks old I could swallow the delicious food inside my mother..So biologically I was alive even though for the world my existence was small, but I was a human being like others who have eyes to see, ears to hear, mouth to eat, heart to love..The mistake I made was that I wanted to come in this world as a girl which was not at all acceptable to my father and grandparents as they wanted a successor for their family. I just want to convey to you all at the time when the foetus is being aborted it is a full grown human being .It is not abortion, its murder. And you murdered your own daughter. My dear friends Jesse Jackson has said "Anything which is growing is living."Buddhists consider foetus as a being that can achieve enlightenment; therefore a living being. Hinduism states foetus is a life with consciousness. It must be protected. Islam also teaches that the moment conception occurs, life begins. Judaism teaches that all life including that of a foetus is blessed. All religions say the preservation of life is of the utmost impertinence.

Why can't all women stand up to fight for their rights to give their daughters a chance to live??even though my story is over, but my last wish is that every woman should stand up for her girl child .Why can't all men believe in equal status of a boy and a girl, give equal opportunity to their daughter and son? I want my unheard voice to be heard..

Nine months are slowly getting over  
I am surrounded by the blanket of yours  
Slowly I am growing in your womb,  
Please don't send me to the tomb;  
Oh mother, can't you feel my touch?  
Oh father ,can't you hear my voice?  
Don't you have another choice?  
Aren't you both happy? you can see me soon,  
I am excited to see the world of sun and moon.



**SANCHITA RAJVANSHI**  
III B. Tech., IT

## THE UGLY INDIAN

The process of development is always slow and gradual. It is closely associated with the general thinking and common practices of the citizens in their daily life. It can be safely be said to reflect the character of the citizens. Today India, a developing country, witnesses a suspension in of it's overall progress due to a number of unsocial habits of the illiterate, and to some extent even the highly educated sections of our society. Starting at home, it is very easy to notice that people defile their surroundings by irresponsibly throwing the garbage and at the same time invest themselves with the possibilities of deadly diseases.

A scene of the market also shows people parking their vehicles in no parking zones and in a haphazard manner, thus making it virtually impossible for the pedestrians to walk, and frequently causing accidents. People flout traffic rules as if did not exist. They will either not wear a helmet at all or put it on when they see a policeman. This means they just want to circumvent legal action. Most vehicles are overloaded and out of control. Accidents don't teach us any lesson.

An intense dislike of the queue is another hallmark of all Indians, irrespective of their educational or social stature. Observe it at any service counter; people will be forcibly changing positions so as to come to the force. They don't realize that it is unethical and uncivilized. Perhaps they think waiting for one's turn is a sign of weakness and does not sounds like a macho men.

In which other country of the world will you find it so easy to take possession of national property stealthily and then erect shops, houses or (worst still) houses of God there? Anybody can build a temple and then live on it's offerings for the rest of his life, and never pay any taxes.

An early morning visit to a railway station is highly embarrassing. On both sides of the track there are long lines of people defecating in the open and chatting. Passengers in the train have to see them and smell them, or else pull the shutters down. Enter the station or bus stand premises and observe the marks of hotel juice on the walls. Which indeed you will find on the walls of our historical monuments also. Only God has made them stand in the face of this flood. Another attack on their beauty is launched by rejected lovers who write the names of those honorable girls alongside their own on these walls. Did the wildest Arab do it to his monuments?

Another thing that worries one is the habit of drinking gaining grounds in our society. It was there earlier also, but was looked



down upon and people drank stealthily. Now it has acquired social respectability. There are more liquor shops than milk booths around. It has made people desperate and women unsafe. Eve teasing has yielded place to gang rapes by drunk louts. We want foreign tourists to visit our country but how do we treat them? The 'lapkas' often lay the acerbic waste to them, their women are sexually assaulted and even killed. All this happens in a country which is regarded as the 'teacher to the world', where females are worshipped in the form of mothers, wives, sisters and daughters. What daughters? Do we let them be born in our own families?



**NARENDRA SINGH**  
II B. Tech., EE

## THE WORLD FROM A RAILWAY CARRIAGE

Faster than fairies and faster than witches,  
Bridges and houses, hedges and ditches.  
And charging along like troops in a battle,  
All through the meadows the horses and cattle.

And ever again in the blink of an eye  
Painted stations whistle by;  
Here is a mill and there is a river,  
Each a glimpse and gone forever.....

These are a few lines from a poem by R.L. Stevenson that I remember studying in school. But more than the poem itself I remember the feelings it evoked, the memories and the nostalgia that I have come to associate with train journeys.

I still remember how as a child I eagerly looked forward to summer vacations, when the schools would close for two months. Each year I would go to some different place to meet relatives-a never ending list of grandmothers, aunts, uncles and cousins. To me, the most exciting part of the visit would be the train journey. That journey marked the beginning of yet another fairytale adventure.

We rarely travelled in air conditioned coaches, which meant open windows...I would stick my face against the bars to see the rest of the train winding its way through hills, valleys and forests, just like a snake. The medley of sights and sounds changing rapidly, like scenes from a colourful movie, held me bewitched. I would sit

glued to my seat, as the scenery outside the window changed from bustling towns to absolute wilderness. Sometimes there were mustard fields, an ocean of golden flowers nodding their pretty heads in the breeze; sometimes there were little villages with neat rows of huts. Everything was just picture perfect.

Equally fascinating were the sounds made by the train. Sometimes it would make a deep grunt like a beast, sometimes a metallic clanking. As it went over bridges and rivers, it would gurgle like a child, and as it gained speed, the sound made was a rhythmic, almost hypnotic sound like a clock's steady tick-tock.

I don't think I have ever seen as much of India as I did on those train journeys. At each platform a little part of the country would get on to say hello. There were people dressed in all kinds of colourful attire. Observing them, I realised that each of them was a story waiting to be told. Some men would go on the top berths and sleep all through the way, some would sit lost in thought, contemplating life's mysteries. Some would fill the entire compartment with their loud chatter and heated discussions on anything and everything under the sun. There were families, with little kids jumping around stepping on toes and ladies who would gossip over a festive spread of tea and snacks. At each stop I stepped out only to be surrounded by pedlars selling newspapers, soap and sweets. And the unforgettable, hot and sweet tea in earthen tumblers.

Those were the good old days, when people did not mind talking to strangers. People from completely different walks of life would share their stories along with biscuits. New friendships were formed as strangers found common links. Those were the days when I did not mind the dust on the seats, the grime on the window or the flies in the compartment....There was something magical about those journeys. That something, which has taught me to enjoy the journey we call life. For in life too we meet different people, and face different situations. Some bring us joy, some don't. But as on those journeys, we must enjoy the special moments for they will never come by again.

In our haste to reach our destination, we hardly pay any attention to the road on which we are travelling, but we must remember-though it is good to have an end to the journey, in the end it is the journey that counts.



**PALLAVI SINGH**  
III B.Tech., IT



## WOMEN

### EMPOWERMENT- YET TO BE ACHIEVED

Three score and six years ago our fathers conceived a nation believing in the proposition that all humans are equal. They believed that there is no place for discrimination and oppression in a country which for so long had been deprived of freedom. The constitution of India declares that all men and women have equal rights; yet it is the same country where every girl, every woman faces oppression and harassment every day.

According to a report, India is at number 3 when it comes to rape cases. Unsurprisingly in 2010 only 64% cases were investigated and charge sheeted by the police, and courts decided on just 16% of them. In 1991, according to National Crime Records Bureau (NCRB), one woman was molested every 28 minutes. If the unreported cases were taken into account, almost every second a woman was molested.

Most of these cases go unreported because of the family pressure, the manners of the police, the unreasonable and unjust process and application of law. Of course the laws for the protection of women and the girl child have to be made strict and the judicial process should be swift. For instance, death penalty or life imprisonment should be the only punishment for such offenders and the identity of the victim must be kept confidential. In addition the rapists must have to pay a hefty compensation amount for the psychological and medical treatment of the victim.

Not only rape, crime against women in the form of molestation, abduction, dowry, and female foeticide in India is a social problem more than a law and order problem. We as men fail to respect even our mothers, so the question of respecting all women and standing for their rights is out of the question. All this originates from the ideology of male dominance which is planted in our minds by the chauvinistic people in our society from the moment we are born. As we grow up, we find even teasing absolutely harmless and amusing. And subsequently a point comes where many men become free from the fear of the law reaffirming the belief that they can easily commit these and get away with it. Otherwise what was once a popular Hindi movie scene wouldn't have become a reality in a bus en route to AIIMS in New Delhi. It is "we" who make this society, and it is our perception towards women, that makes it a safe or perilous place for them. There is no point in having the highest growth rates or becoming a developed nation when every day a woman is

harassed, molested or raped in India.

"The world will little note nor long remember what we say here but it will never forget what we do here" – ABRAHAM LINCOLN.



DIPENDRA SINGH RATHORE

II B.Tech., ME

### BE THE BEST

If you can't be a pine on the top of the hill, be a shrub in the valley, but be the best little shrub by the side of the hill.

We usually come across the phrase "I want to be the best." But what is being the best in the real sense? It is the utmost utilization of one's own capabilities, talents to achieve success.

The biggest requirement to achieve success is "ACCEPTANCE", learning to accept things as they are, things that cannot be changed. Accepting unchangeable things begins from your own self. Accept yourself as you are, along with your shortcomings. True learning begins with the realization here that a human being can only be improved but not changed.

Each one is important and unique and therefore all of us have certain positive as well as negative points. In the long run of life it is not the achievements that matter but the hard work that you put in. Competition is competing with yourself, your own shortcomings and incapacities. Thus, try to drive the best out of yourself and realize your importance because

"If you cannot be the Sun Be a star. It is not the size that matters, Just be the best of whatever you are."



SHRIYA GOYAL

III B.Tech., ECE

Who is helping you, Don't FORGET them.

Who is loving you, Don't HATE them.

Who is trusting you, Don't CHEAT them.

SWAMI VIVEKANANDA



## A PAGE FROM BHARAT MATA'S DIARY

I am not Durga, I am not Lakshmi nor Saraswati. All the other mata's are utmost essential for the survival of any civilization. But I hold a different share of feelings, respect in my Indians. From the times immemorial, I have always received an ocean of love, care and respect from them. Only due to this remarkable privilege, I had a glorious past, and in present also my children are progressing at a very rapid rate. When my independence was curbed by those silly Britishers, my children displayed a unique example of brotherhood and relieved me.

O mere bharatiyon,  
Apna lahu dekar meri raksha kar sakte ho  
Agar hai himmat toh shaheed hokar mere aanchal  
me sama sakte ho  
Agar meri kokh se paida nahi huwa toh kya hua  
kam se kam meri laj to rakhta jaaa Aae Bharatiya

I possess a very diverse religion, culture, heritage and what I think I miss now a days is basic ethics, morale in my Indians. It is more than 66 years of my independence. The current scenario is just a contrast to the scenario 66 years before. Times have changed a lot. Everything has revolutionized including thoughts and living etiquettes of my Indians but what has not changed is gender discrimination, casteism, biased wealth distribution and all other chronic diseases. I always wanted to eradicate all these from the society but I failed. Stealing, honour killings, rape are all such things which upset me a lot. These all have disastrous consequences, e.g., the recent 5 year old girl's rape case and the Damini case which is one of the most inhuman acts done till date on such a holy land. I wonder if I made human beings most advanced creatures to end up perpetrating such heinous crimes. My blood curdles when I see my daughters in such a great suffering. My heart bleeds when I see name at the top of the list of most corrupted countries. Lakhs of people are born and lakhs of them die. My soul weeps when I see people worshipping me, and on the other side carrying out doing female feticide and infanticide WHY????? . I want to know the reason behind this. How can I change this? I feel helpless. Please deliver this message to all my children! I know they will eradicate this.



**RISHABH JOSHI**  
I B.Tech., ME



## ATTITUDE

Sometime or the other in your life, you must have heard this frustrated outburst,

"The world doesn't understand your emotions; just show your attitude."

Does it mean, don't show your gratitude for someone's help, use them; or does it mean give up your naivety and compete with this highly progressive world.

Attitude, in the sense of airs, can never bring happiness in anyone's life; it always leads to the losing of friends, even relatives and family members. The only thing which is left with a supercilious person in the end is his attitude and his miserable abandoned self. Saying small words like 'sorry' doesn't show that you are weak; on the other hand it shows how strong you are to admit your mistake. Life is too short to be spent in fighting around. Try to make it cheerful through accommodation.

Lots of people care about you, be with you in your need, it doesn't mean they have no work to do. Every moment spent in somebody's care and assistance speaks of the humble man's greatness, and requires your gratitude in response.

If it's hard to win, try to lose; if it's hard to laugh, try to cry; if it's hard to miss someone, try loving somebody else.

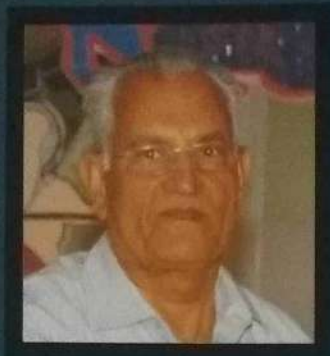
Life is too simple; don't make it complicated.



**AKASH PAMECHA**  
II B.Tech., EC



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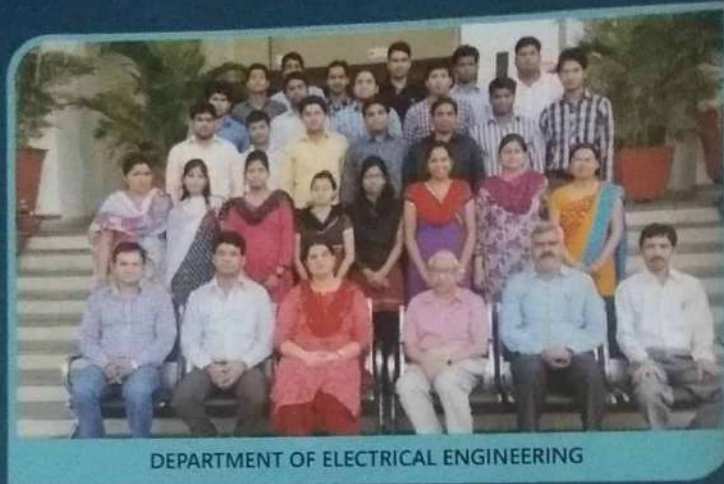
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ELECTRONICS AND COMMUNICATION ENGINEERING



INFORMATION TECHNOLOGY





## An Ode to 'III Semester'

We started with hope,  
hope to excel.  
We never thought this way,  
this doubt.

We wished for usualness,  
as in a routine.  
We never thought of unusualness,  
this doubt.

We dreaded the worse,  
until this time,  
We never thought of worse,  
this doubt.

We wished for a walk over,  
but that wasn't so easy.  
We never thought of defeat,  
this doubt.

Is there any way to end this?  
I doubt.  
There's no way to end this.  
I doubt.



**TANVI ARORA**  
II B.Tech., ECE

## Candle

Wears the colour of purity at its best,  
Provides the warmth to the person at rest,  
Lives with the spirit of giving all life long,  
Opposes the darkness, the evil until its death.  
Surely it melts into nothingness,  
But to a transparent soul at the end;  
May be to the world it appears just a waste,  
As they always turn to it in a haste;  
But those who adore the beauty it holds,  
Recognise the unique nature it has.

For the stumbling thread it's a pillar of strength,  
A support that prevents a fall;  
The weak thread is even vital for its existence,  
They are the inseparable lovers indeed,  
Without one, the other is incomplete,  
In unity lies the power to defeat.

What is selfless love they portray to the world,  
One cares, the other dies, holding a bright smile.  
To the eyes it seems, Only a ray of light,  
But the heart very well knows,  
It is a necessary sacrifice,  
Made by both for one another,  
In order to live and die together.

To humans their love is a blessing,  
But to them it's a curse,  
They burn each moment in the fire of love,  
Yet smile, shine, and lead a kindly light.

Ironical it is, So much love these tiny things hold,  
Where we just grow in size,  
While the love shrinks instead of magnifying.

Through the eyes of the heart I perceive,  
A candle as nothing else, But a man filled with love,  
Rather a heart which still beats,  
And gives more than it receives.



**KOMAL MOTWANI**  
I B.Tech., CS



## I will Cross the Miles

I am neither a gem nor a stone,  
All I have learnt is to stand alone,  
A Face that carries a big fake smile,  
Walking amidst the thoughts,  
I need to cross the miles.

The world is bleak, greedy and liar,  
Dreading the expected, will set me on fire.  
I'll be lost while taming people's thoughts,  
Later realising the precious time I lost.

I am silent with nothing to spray,  
It's how the world goes, that's what they say.  
They made me carry that fake smile,  
Setting aside the thoughts, I am crossing the miles.

Standing by the riverside, I realised my thirst,  
Which was all lost in the battle of 'trust',  
I do not regret the battle I lost,  
It showed me what I never thought,  
But now I have seen my 'zenith' smile,  
Forgetting the past, taming the thoughts,  
I will cross the miles!!



ANKITA GOYAL  
II B.Tech., IT

## Is There No End

Carrying empty pots and buckets  
In the blazing sun they go searching;  
All vain efforts, no sign of water,  
Only dry, barren land.

Endless quarrels for a drop  
At the public tank and the lonely tap,  
Only the fittest survives.  
And continues this inequality  
The height of drought and poverty.

One sunny afternoon, in a metro,  
In the midst of common working routine  
Everything illuminated like the brighter sun  
All blazed up buildings, skyscrapers  
No Diwali, no festivity.  
But an explosion-  
An explosion from a wicked intention.

The roads filled with debris.  
Mortal and material  
Streets choked with smoke  
The firemen on their toes  
Extinguishing fire, alas! The woes  
Of those lost and sad.

In the south, the poacher threatens.  
Killed in this battle have been numerous  
The minister orders the army  
"Capture the thug"  
The west end has been converted  
Into a human abattoir  
Countless massacred, innumerable butchered  
Countless families gunned down and erased  
In the name of terrorism.

At the summit, in the north  
The chill, it once brought warmth,  
The pleasant snow, for aeon and calm  
but now the chill freezes our blood  
The snow like a white ghost, scares our breath,  
For a land strip on this huge earth,  
Blood gushes, heads roll  
The supreme sovereign DEATH.

What's all this?  
The theme of a movie new?  
Selected from a novel's lines few!  
Or a tale of fantasy,  
Violent, latest, aggressive!  
Nay! This is our INDIA  
In violence, war & grief plunged  
Our own "motherland"  
Is there no end.....?



RISHABH JOSHI  
III B.Tech., CS



## Money Matters

Money matters to a person who hasn't much to spend.  
Though no one can buy cards of happiness,  
even with plenty of that...

Money matters for survival and dignity.  
Though no one can live in a city of gold all alone...

Money matters in making a temple with bricks and  
tricks.  
Though God will never mind,  
living in true hearts...

Money matters for satisfying all the needs and deeds.  
Though it's not only the need,  
as it can not buy a single penny of wisdom...

Money never matters when good thoughts are there.  
then even money follows....  
no more needs!



**ATUL ASIJA**  
II B.Tech., ECE

## Strange Girls

Their bag is always overloaded with stuff,  
Objects from the entire universe, present in that buff.  
All these girls are 'Hermiones' in their mind,  
Their bag gives them all they want to find.

Each one of these dehydrated dolls carries a water  
bottle, Some little plastic ones, some ewers made of  
metal. Every ten minutes they need to take a sip,  
I suggest that they should rather take a dip.

Eew! They make sort of sounds,  
Whether encountered by an ant or big hounds.  
On every meager situation, their reactions are more,  
The art of exaggeration is in their core.

Gossips are the essence of their lives,  
I wonder without them whether they would survive.  
Each piece of information becomes as precious as  
pearls,  
My college's unique features are these strange girls...B)



**GOURAV VYAS**  
III B. Tech., ECE

## Sky and I

When I was a little child,  
I wished to touch the sky.  
To bring those little shining stars,  
To blacken out the sky.

When I was a little child,  
I wished to reach the moon.  
To sit in that 'cradle',  
To sleep like a cocoon.

When I was a little child,  
I wished to fly high.  
To fly high with birds,  
To journey through the sky.

When i was a little child,  
I wished to climb a cloud.  
To feel to be at cloud nine.  
To express my joy out loud.



**SHIPRA JOSHI**  
II B.Tech. ECE



यह कहने की हिम्मत न करते हैं कि 'मैं नबुश हूँ' जब हम नबुशी के मानदंडों को देखते हैं तो ऐसा नहीं प्रतीत होता कि नबुशी एक दुष्प्राप्य वस्तु है। हमें से अधिकांश लोगों के पास अच्छे नवाने और अच्छे पहनने की आजादी है, हमारे पास परिवार है, नौकरी है जहाँ हम योग्यता साबित करते हैं, नवाली समय में नबुश को व्यस्त नवाने के लिए गाने सुनने या किताब पढ़ने जैसे शौक है, पर फिन भी हम नबुश न होने की निरंतर शिकायत क्यों करते हैं? अगर आपने नबुशी देने वाली चीजों की सूची ध्यान से पढ़ी है तो आप यह भांप गए होंगे कि नानबुश रहने कि वजह क्या है। हम नबुशी के आनिबनी और पांचवे मानदंड को ही नबुश होने कि वजह बनाते हैं। जाने अनजाने हम जीवन के उस मोड़ पर अपने लिए लक्ष्य नवते हैं मेने कहने का अभिप्राय है कि हम सबने अपने जीवन में नबुशियों की कीमत लगा दी है। जब छत्र खेते हैं तो प्रथम स्थान को अपना लक्ष्य बनाते हैं और सोचते हैं कि प्रथम आने पर हम नबुश होंगे। परिणाम आने पर यदि द्वितीय स्थान आ गया तो बन्स दुःख के घने बादल छा जाते हैं। हमारी नबुशी अकों पर निर्भर होती है। जब नौकरी करते हैं तो यह सोचते हैं कि प्रमोशन मिलने पर नबुश होंगे, प्रमोशन एक साल लेट ले जाता है और बन्स ले गई एक साल की नबुशियों कि छुट्टी। जीवन के उस मोड़ पर हम नबुश होने चाहते हैं पर अपनी ही शर्तों के कारण नबुश नहीं रह पाते।

मानव मन्तिष्क नबुशियों की सबसे उंची कीमत लगाता है और वह कीमत न खमिल कर पाने पर उदासी की चादन ओढ़ लेता है। मनोविश्लेषकों के अनुमान असफलता से असफलता का सफल तय करने के तीन चरण होते हैं। पहला चरण होता है असफलता या खन को स्वीकानने का, दुसरा चरण होता है अपनी गलतियों को पहचानने का और तीसरा और आनिबनी चरण होता है फिन से कोशिश करने की रूपनेवा बनाने का। हम उदासी से इसलिए नहीं उबर पाते क्योंकि हम खन को नकानते हैं। अपने लक्ष्यों को न खमिल कर पाने कि स्थिति में हम अपने नबुश रहने के चार कारणों की अनदेखी करते हैं और परिणाम स्वरूप नानबुश रहते हैं और अपने साथ दुई नाइंसाफी के लिए नियति को कोसते हैं। इस उदासी के कुचक्र में फंसने से पहले क्या हम यह सोचते हैं कि नियति ने जीवन के अन्य पहलुओं में हमारे साथ न्याय किया है। जना सोच कर देनिये एक छोटा बच्चा एक वयस्क की तुलना में कितना नबुश होता है। एक बच्चे कि जिन्दगी एक वयस्क कि तुलना में बहुत कम होती है अतः उसे भोजन, शेलना और माता-पिता का ननेठ ही नबुश रहने के लिए काफी होता है। चोट लगने पर वह थोड़ी देन होता है और माँ के ननेठ का आंचल पा कर फिन ठंन पड़ता है। तो क्या जीवन के सनलता ही नबुश रहने का रहस्य है? यह संभव है की जीवन को सनल बना कर और अपनी जरूरतों तथा आकांक्षओं को कम कर के नबुश रह जा सकता है परन्तु नबुशी खमिल करने कि कोई कुंजी नहीं है।

यह अवश्य कह जा सकता है कि नबुशी पाने की नहीं, सनल करने कि भावना है। इसका पीछ करने इन्ने पाया नहीं जा सकता परन्तु इन्ने एक जगह बैठ कर अवलोकित किया जा सकता है। शायद इसलिए विचारक नथानिएल अश्वीने ने कहा है कि नबुशी उस तितली की तरह है जो पीछ करने पर आपसे दूर जाती है पर एक जगह स्थिर होने पर आपकी मोद में आकर बैठ जाती है। लक्ष्य जीवन जीने की शिखर होते हैं परन्तु अपनी नबुशियों को लक्ष्य प्राप्ति पर निर्भर बना देना बुद्धिमत्ता नहीं। जब मन पर उदासीनता छ रही हो तो नबुश को सकात्मक बनाये और देखें की जीवन ने आपको नबुश होने के अनेक कारण दिए हैं और साथ में यह भी याद रखें कि इस क्षण जब आप उदास होते हैं तो आप नबुश के 60 सैकड़ से देते हैं।



**शिव कुमार व्यास**  
तृतीय वर्ष, कम्प्यूटर अभियंत्रिकी

## सब दुख जनसंख्या वृद्धि का

सब दुःख जनसंख्या वृद्धि का, बेरोजगानी, भूखमरी का। नहीं दोष विधाता का इस में, हम झूठ खोष लगाते हैं। मर्यादा का नहीं करें काम, कांटों का पेड़ लगाते हैं। दिनचर्या का भी ध्यान नरवें, घन-घन में वृक्ष लगाना है। छोटा सा परिवार नरवें, शिक्षा का पूना ध्यान नरवें। मानव ले मानवता नरवों, मानवता का काम करने। नहीं बाल विवाह करना है, ये कानूनी अपनय है। मन्तिष्क भी कमजोर बने, यह बहुत बड़ा अपनय है। है दहेज हमारी कुप्रथा, इसको हमें मिदना है।

माँ बहनों को उँचा उठाएँ, दुनव उनका दूर हटना है। छुआ-छूत से सवण्ड बने, सब गाँव और समाज में। ये भेद भाव भी ठीक नहीं, जो काम बिगाड़े गाँव में। मीठी वाणी प्यासी सबको, कोयल की मन में भाती है। कागा की वाणी ना बोले, जो सब के मन चुभ जाती है। संकल्प करें हम मिलजुल कर, ना रहे निरसन एक भी। शिक्षा से अन्याय मिदये, अधिकार अज्ञान भी।



**सुरेश चन्द्र मीणा**  
मैस प्रबंधक, एसकेआईटी



## हमारे नौनिहाल - कितने सुरक्षित?

यह सवाल लाजिमी है क्योंकि देश के आधे से ज्यादा बच्चे यौन शोषण का शिकार हैं। नन्हे मन कुचले-मचले जा रहे हैं। इस समस्या का दवानल मानसूओं के भविष्य को जला सकता है। बात एक ऐसे अपनाथ की है, जो चुप्पी की साजिश तले चल रहा है। यह अपनाथ है बच्चों का यौन शोषण। आज से नहीं, सदियों से समाज इससे जूझता, रहा है और अपने ढंग से निपटता भी रहा है। जैसे-जैसे समाज आधुनिक हो रहा है और हमारा देश विकास की राह पर तेजी से बढ़ रहा है, बच्चे अकेले हो रहे हैं और जाने-अनजाने यौन शोषण का शिकार हो रहे हैं। खुद सरकार भी आंकड़े बताते हैं कि देश के 53 फीसदी से ज्यादा बच्चे यौन शोषण का शिकार हैं।

ऐसे उदाहरण ज्यादा हैं, जहां बच्चों का अपना ही कोई और नहीं, परिवार, पड़ोसी और निश्चिंतन ही हैं। कुछ एक वर्ष पहले की बात है कि दिल्ली के एक नामी विद्यालय में पढ़ने वाले एक ही परिवार के तीन बच्चों को विद्यालय लाने ले जानेवाला उनका चालक मछीनों तक बच्चों को अपना शिकार बनाता रहा। विद्यालय जाते वक्त वह उन्हें नशे की चीजें बिखलाता और फिन अपनी छत्र का शिकार बनाता। मामले का खुलासा तकनीकन साल-डेढ़ साल बाद हो पाया। अब गुनहगार कैद में है, मगर बच्चे अपना बचपन खो चुके हैं। इस घटना के बाद से दूसरे बच्चों के माता-पिता और ज्यादा डरे हुए हैं। फिन भी अलग-अलग रूपों में, अलग-अलग शहरों में ऐसी घटनाएँ दोहराई जा रही हैं। कानपुर की एक छात्रा की बलात्कार के बाद मौत की घटना हो या फिन मध्य प्रदेश के एक बड़े अधिकारी के बेटे और उसके दोस्तों पर लगा एक नाबालिक के बलात्कार का इल्जाम, एक के बाद एक बच्चों के साथ हो रहे यौन शोषण की घटनाओं में से ये चंद ही कलिनियाँ बाहर आ पा रही हैं।

बहुत कुछ मौन है, जो चुपचाप घट रहा है। घरों के अंदर, अपने निश्चिंतनों के खतों लुट रहे और प्रताड़ित हो रहे बच्चे किससे शिकायत करें? अगर करते भी हैं, तो घर की मर्यादा के नाम पर उनकी आवाज दबा दी जाती है। ये इसलिए भी हो रहा है कि समाज एक बदलाव के दौर से गुजर रहा है। संयुक्त परिवार लगभग टूट गए हैं। शहरों नवासरतन मछनगनों में रहने वाले ज्यादातर माता-पिता नौकरीशुदा हैं। इनके पास घर पर रहकर बच्चों की देखभाल करने का वक्त नहीं है। बात करने और बच्चों की समस्याएँ सुनने से ज्यादा ये अभिभावक बच्चों की मांगें पूरी करने के लिए पैसे जुटाने में लगे हैं। बच्चे की असली जरूरत माता-पिता के साथ से पूरी होती है। पहले, ये कमियाँ संयुक्त परिवारों में पूरी हो जाती थी। अब बच्चे एकाकीपन में ही समय बिताते हैं। ऐसे में बच्चे के साथ कोई खदसा हो भी, तो उनकी सुननेवाला कोई नहीं। कुछ हद तक अकेलापन भी बच्चों में कुंठा भर रहा है। इस अनदेखी में बच्चे कभी-कभी गलत रास्तों पर भी निकल रहे हैं। दोनों ही

परिस्थितियाँ बच्चों के शारीरिक और मानसिक विकास पर असर डाल रही हैं। या तो ऐसे बच्चे होन भावनाओं का शिकार हो रहे हैं या मानसिक विकृति में डल रहे हैं।

बच्चों के प्रति ये बेपरवाही हमारे समाज के स्वास्थ्य पर भी असर डाल सकती है। जरूरत इसे नोकने की है। सरकार इसके लिए 'बाल अधिकार संरक्षण कानून' में बदलाव करने जा रही है, ताकि बच्चों के कानून को और कड़ा किया जा सके। लेकिन अधिकार पाने या देने से ज्यादा, सचेत रहने की जरूरत है। माता-पिता को बच्चों के साथ खुलकर बात करने की आवश्यकता है और यौन शोषण के बारे में उन्हें आगाज करना भी जरूरी है। बचपन मजबूत होगा तो भविष्य बेहतर बन सकेगा। इसे किसी एक बच्चे की या एक परिवार की समस्या नहीं मानना चाहिए। बच्चों के विकास से जुड़ी हर संस्था को इसमें बढ़-चढ़कर काम करना होगा। विद्यालय, समाज और सबसे बढ़कर परिवार का बच्चों से जुड़ना जरूरी है। बच्चों के इन को दूर करने व उनके कोमल मन को पल्लवित कुसुमित होने दें।



**राजदीप सुखवाल**  
द्वितीय वर्ष, इलेक्ट्रॉनिक्स एवं संचार अभियांत्रिकी

## हर सांस में एक आस

मिलता नहीं यों ही जीवन, निराशा में खो जाने को।  
छेता है यहाँ नोज अन्धेरा, एक नई सुबह मछकाने को॥  
दाना लेकर चींटी चढ़ती, बार-बार वह गिरती है,  
कन्ती है कोशिश तब तक, जब तक आस मन में रहती है।  
है नन्ध-आ जीव मगर यहाँ, पछड़ों पर भी चढ़ जाता है,  
पूछे तो जना इससे, क्या करूँगा इसे आता है?  
गिरते हैं यहाँ जीव सभी, गिरकर वापस उठ जाने को।  
छेता यहाँ नोज अन्धेरा, एक नई सुबह मछकाने को॥  
चलता है पथिक यही सोचकर, मजिल तक मुझे जाना है  
चाहे हो कितनी ही बाधाएँ, उन बाधा को मुझे छानना है,  
छेता है यही विश्वास मन में,  
गोतारवोन समन्दन में जब जाता है  
कन्ता है कोशिश बार-बार मोती आनख ले आता है।  
छेती है एक आस उन मन में, छटा अमावस चांदनी लाने को।  
छेता है यहाँ नोज अन्धेरा एक नई सुबह मछकाने को॥  
छेता है जब मौन सागर, हृदय उसका मचलता है



मन में छुपा फिन तूफा बनकन निकलता है  
 चलता है नाविक इन्सी आनस में,  
 कभी तो किनारा नजन आयेगा,  
 पान कन इन्स नजाकन को  
 यही मजिल को गले लगायेगा।  
 है यही आनस आज तुमने छी,  
 छे योय्य तुम्हीं मनुज कठलाने को  
 छेता है यहाँ नोज अन्धेना, एक नई सुबठ मठकाने को॥



मधुरिमा जाट  
 द्वितीय वर्ष, बी.टेक., सिविल अभियांत्रिकी

## सवालियों के घेरे में हिन्दुस्तान

पाकिस्तान की अनेतिक, अमानवीय गतिविधियां किन्सी से छुपी नहीं है। ठम भानतीयों ने पाँच ठजान वर्ष पुनानी सभ्यता के पथिक चिह्न छेने के नाते ठमेशा पाकिस्तान से दोस्ती की पल्ल की। पणिणामनवरूप ठमें केवल धमाकों की गूँज मिली जो कश्मीर की घाटी से कन्याकुमारी तक और नजधानी दिल्ली से लेकर हैदराबाद तक कोने-कोने में दहशत दिन्वा चुकी है। शहीदों को शत-विस्रत कनने की नपुंसक घटना आम बन चुकी है। इन्सके तल्लवरूप भानत देश के इन्स पल्ल (दोस्ती) कनने के तनीके का विनोधाभानस कनाती कविता-

छनतनफ लथ बढ़ाने को तू क्यूं आगे बढ़ता है,  
 जब न्वंजन को तेनी पीठ में घुसना है।

कभी बॉम्बे निशाना था, आज बर्फों की वादी निशाना थी,  
 छनबानतेनी धनती निशाना थी,  
 फिनलथ बढ़ाने को क्यूं आगे बढ़ता है।

कभी चीन तो कभी पाकिस्तान छेता है,  
 छनबानशीश तेना छलाल छेता है,  
 उदानी से धिना चेछा छिन्दुस्तान छेता है,  
 फिनलथ बढ़ाने को क्यूं आगे छेता है।

पल्ले लथ मिलाया तो ताज जमीं पे आया,  
 आज लथ मिलाया तो त्रिपाछी का त्रिनकटा पाया,  
 छनबानऔंघे मुँह तू छी जमीं पे आया,  
 फिनलथ बढ़ाने को तू क्यूं आगे आया।

कभी तूने छोड़ी सुनों की जंग,  
 तो उन्हींने बिछई बान्दी सुनंग।  
 कभी तूने नवेला क्रिकेट,

छनबानगिना तेना विकेट,  
 फिनलथ बढ़ाने को क्यूं आगे छेता है।

अन की वो नात कोई भूला नहीं छेगा,  
 जब चीन का झंडा भानत माँ के कलेजे में घुभा छेगा।

तब ठम कमजोर थे,  
 चौतनफा ठमलों से झकझोर थे,  
 आज ठम मजबूत हैं,  
 पाकिस्तान नवाली कनाने में मजबूत हैं,  
 कोई ठमानी पीड़ा नमझें  
 नाननीति के आगे मजबूत हैं ठम देश की

जब मुद्दा विदेशी न लोकन न्वदेशी छे, अर्थात्  
 ठमाना आंतनिक मुद्दा भुनवमनी, गनीबी, मठगाई, दुष्कर्म  
 की त्रानसदी से अन्त जनता का आता है, तो  
 भानत अपने कदम पीछे छटाता है, उन्नी पनिवेश को  
 प्रनतुत कनती पक्तियां-

लथ बढ़ाने को तू क्यूं पीछे छेता है।  
 जब चलती गाड़ी में देश शर्मिन्दा छेता है,  
 दर्निदगी से आत्मा पन ठमला छेता है,  
 महिला संग बच्चियों पे न्रीधा निशाना छेता है,  
 तब। तो लथ बढ़ाने से तू क्यूं पीछे छेता है।

जब नानी के सजने का कानण छिनता है,  
 बेटे के त्रिन से पिता का आया उठता है,  
 नानवी से लथ नूठता है, तब लथ बढ़ाने से तू क्यूं पीछे छटाता है।

जब भूखों की थाली पन ठमला छेता है,  
 कोई भोजन तो कोई शिक्षा को नोता है,  
 ठंड में सड़कों पे वो नोता है, तब लथ बढ़ाने को तू क्यूं पीछे छेता है।

जब इन्सान-बिजली के झटके नवाता दिन्वता है,  
 गैस-पेट्रोल से जलता दिन्वता है,  
 एफडीआई के लथों बिकता दिन्वता है।  
 तब लथ बढ़ाने को तू क्यूं पीछे छटाता दिन्वता है।

जब प्यास से नोया किन्सान, गन्ने की फांसी चढ़ता है,  
 गोली बनसाने से तू क्यूं नहीं नूकता है,  
 लथ बढ़ाने से तू क्यूं पीछे छटाता है।



सौरव चौधरी  
 द्वितीय वर्ष, इलेक्ट्रो. अभियांत्रिकी



# OUR ACADEMIC JEWELS

1	2012	OVERALL	SAKSHI AGARWAL	CSE	82.2	1
2	2012	OVERALL	MONIKA AGARWAL	CSE	80.1	2
3	2012	OVERALL	ANKIT JAIN	CSE	80.1	2
4	2012	OVERALL	JYOTI SINGH	EE	80.8	1
5	2012	OVERALL	SAITU GOYAL	EE	79.0	2
6	2012	OVERALL	BHAVYA AGARWAL	ECE	82.4	1
7	2012	OVERALL	SEEMA JAIN	ECE	80.8	2
8	2012	OVERALL	KSHITI AHUJA	IT	80.1	1
9	2012	OVERALL	MONIKA KHANDLWAL	IT	78.1	2
10	2012	OVERALL	ANKIT SWARNKAR	ME	77.5	1
11	2012	OVERALL	PANKAJ GOYAL	ME	75.6	2

1	2012	VII- SEM	SAKSHI AGRAWAL	CSE	80.9	1
2	2012	VII- SEM	ANKITA AGRAWAL	CSE	79.8	2
3	2012	VII- SEM	BHAVYA AGARWAL	EC	81.4	1
4	2012	VII- SEM	NEHA GARG	EC	80.5	2
5	2012	VII- SEM	ISHA GROVER	EC	80.5	2
6	2012	VII- SEM	KSHITI AHUJA	IT	79.3	1
7	2012	VII- SEM	MONIKA KHANDLWAL	IT	77.8	2
8	2012	VII- SEM	ANKIT SWARNKAR	ME	76.4	1
9	2012	VII- SEM	BHASKAR SHARMA	ME	73.1	2
10	2012	VII- SEM	SAITU GOYAL	EE	81.3	1
11	2012	VII- SEM	JYOTI SINGH	EE	77.7	2

1	2012	IV- SEM	SWATI GUPTA	CSE	84.7	1
2	2012	IV- SEM	GOURNIKA MALHOTRA	CSE	82.0	2
3	2012	IV- SEM	MAHIMA	CSE	82.0	2
4	2012	IV- SEM	JYOTI GUPTA	EE	80.0	1
5	2012	IV- SEM	SHUBHAM PATWARI	EE	79.9	2
6	2012	IV- SEM	DIKSHA NAGPAL	ECE	81.7	1
7	2012	IV- SEM	ARPITA JAITAWAT	ECE	81.6	2
8	2012	IV- SEM	KOMAL PARASHAR	IT	86.1	1
9	2012	IV- SEM	BHAVESH TAMBHI	IT	83.6	2
10	2012	IV- SEM	SUMIT GUPTA	ME	79.5	1
11	2012	IV- SEM	KUNWAR CHANDRA	ME	77.4	2

1	2013	V- SEM	SWATI GUPTA	CSE	82.0	1
2	2013	V- SEM	GAURAV SONI	CSE	81.4	2
3	2013	V- SEM	JYOTI GUPTA	EE	80.5	1
4	2013	V- SEM	ROHIT GUPTA	EE	77.3	2
5	2013	V- SEM	SHUBHAM PATWARI	EE	77.3	2
6	2013	V- SEM	DIVYA KUMARI	ECE	81.7	1
7	2013	V- SEM	NIDHI GUPTA	ECE	80.4	2
8	2013	V- SEM	KOMAL PARASHAR	IT	81.6	1
9	2013	V- SEM	RAKHI MANDHANIA	IT	79.3	2
10	2013	V- SEM	SUMIT GUPTA	ME	83.5	1
11	2013	V- SEM	KUNWAR CHANDRA	ME	80.7	2

1	2013	VI- SEM	SWATI GUPTA	CSE	84.5	1
2	2013	VI- SEM	TEENA SHARMA	CSE	81.2	2
3	2013	VI- SEM	JYOTI GUPTA	EE	79.7	1
4	2013	VI- SEM	SHUBHAM PATWARI	EE	79.0	2
5	2013	VI- SEM	ROHIT GUPTA	EE	79.0	2
6	2013	VI- SEM	NIDHI GUPTA	ECE	84.3	1
7	2013	VI- SEM	ARPITA JAITAWAT	ECE	83.4	2
8	2013	VI- SEM	RAKHI MANDHANIA	IT	84.3	1
9	2013	VI- SEM	KOMAL PARASHAR	IT	83.8	2
10	2013	VI- SEM	KUNWAR CHANDRA	ME	80.0	1
11	2013	VI- SEM	ATUL AGARWAL	ME	77.3	2

1	2014	III- SEM	VINITA SHARMA	CSE	83.2	1
2	2014	III- SEM	SHASHANK MISHRA	CSE	80.9	2
3	2014	III- SEM	DISHA BIJLANI	EE	90.2	1
4	2014	III- SEM	SUCHITA JAIN	EE	82.9	2
5	2014	III- SEM	NEHA SINGH	ECE	83.0	1
6	2014	III- SEM	SUMAN SAINI	ECE	82.4	2
7	2014	III- SEM	SWATI AGARWAL	ECE	82.4	2
8	2014	III- SEM	SURABHI GUPTA	IT	81.0	1
9	2014	III- SEM	ANJALI JAIN	IT	79.2	2
10	2014	III- SEM	ABHISHEK KUMAR DUBEY	ME	80.2	1
11	2014	III- SEM	DILIP KUMAR GARG	ME	79.5	2

1	2014	IV- SEM	AISHWARYA SHARMA	CSE	84.1	1
2	2014	IV- SEM	ADITI TAMBHI	CSE	83.7	2
3	2014	IV- SEM	DISHA BIJLANI	EE	88.7	1
4	2014	IV- SEM	RESHU MITTAL	EE	86.6	2
5	2014	IV- SEM	KOMAL GUPTA	ECE	82.9	1
6	2014	IV- SEM	SUMAN SAINI	ECE	80.2	2
7	2014	IV- SEM	SURBHI GUPTA	IT	85.7	1
8	2014	IV- SEM	NEHA YADAV	IT	81.8	2
9	2014	IV- SEM	SAURABH MALU	ME	80.0	1
10	2014	IV- SEM	VIKASH PRAJAPAT	ME	79.4	2

1	2014	III- SEM (II SHIFT)	DEEP KACHHWA	CSE	79.3	1
2	2014	III- SEM (II SHIFT)	AKASH GOYAL	CSE	78.8	2
3	2014	III- SEM (II SHIFT)	ABHISHEK VIJAYVARGIYA	ECE	83.1	1
4	2014	III- SEM (II SHIFT)	PEENAL JAIN	ECE	80.1	2

1	2014	IV- SEM (II SHIFT)	SURBHI BHATIA	CSE	78.8	1
2	2014	IV- SEM (II SHIFT)	DEEP KACHHWA	CSE	77.9	2
3	2014	IV- SEM (II SHIFT)	ABHISHEK VIJAYVARGIYA	ECE	83.9	1
4	2014	IV- SEM (II SHIFT)	AADITYA MATHUR	ECE	82.4	2

1	2015	I- SEM (II SHIFT)	VINAY SHRIMALI	ECE	82.9	1
2	2015	I- SEM (II SHIFT)	SHWETA JASORIA	CSE	81.2	2
3	2015	I- SEM (II SHIFT)	AAKANSHA AGARWAL	ECE	80.7	3
4	2015	I- SEM (II SHIFT)	AAYUSHI JHA	ECE	80.3	4
5	2015	I- SEM (II SHIFT)	SHUBHAM JAIN	ECE	80.2	4



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Write in to:  
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SKIT CAMPUS, JAIPUR





**SWAMI KESHVANAND INSTITUTE OF  
TECHNOLOGY, MANAGEMENT & GRAMOTHAN  
SWAMI KESHVANAND INSTITUTE OF PHARMACY**

Ramnagaria, Jagatpura, Jaipur - 302 025, Rajasthan  
Tel No : +91 141 275 2165, 275 2167, 275 9609, 516 0400  
Fax : +91 141275 9555 | Email : [info@skit.ac.in](mailto:info@skit.ac.in)

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