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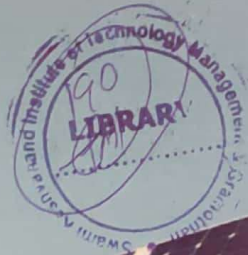


SWAMI KESHVANAND INSTITUTE
OF TECHNOLOGY, MANAGEMENT
& GRAMOTHAN



THE SKIT TIMES

Autumn 2015



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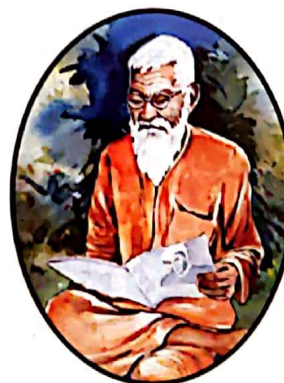
VISION

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

MISSION

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.

OUR MENTOR & PATH FINDER



Swami Keshvanand Ji
(1883 - 1972)

PUBLISHER

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

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THE EDITOR SPEAKS



Dear Readers

Every whirlwind of thoughts brings in new perspectives, different contexts, a more expansive landscape of expression, and not to forget, a release into a lively and panoramic connection with what is beautiful and praiseworthy. All this describes the soul of THE SKIT TIMES. Since its inception, the magazine has been a cornerstone in giving voice to the talented members of the institute. With every new edition, it has presented a sound weaving of a potpourri of the happenings and insights of the SKIT family. At this juncture, when I join as the new Editor-in-Chief, I acknowledge every contribution of the editorial team in establishing the brand called THE SKIT TIMES.

We wish to dedicate the present issue to the recently installed Roof Top Solar Power Plant which is a pioneer step in serving the needs of mankind at large. The dynamism of technology has blinded its users against the threats that seem to be slow in pace, but are devastatingly harmful. Such gestures as relying on our natural resources, will bestow the future generation with a fruitful life. A special word of thanks goes to Prof. (Dr.) S.K Calla, Director (D&W) for providing us with a comprehensive cover story about the Solar Plant at SKIT. The issue also introduces two new segments: Career Calling and Know Your Campus in which our student editors present interesting stories about career pursuits and our own campus.

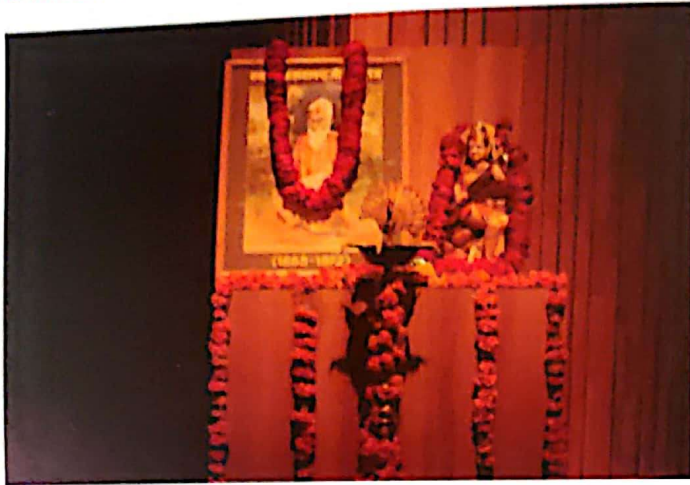
We hope that every reading of THE SKIT TIMES takes you on an engrossing joyride. With apologies for the delay and promises for the future, I invite you to keep contributing to keep this brand name high.

Best Wishes

Mrs. Neha Purohit
Editor-in-Chief

CAMPUS VIBES

ORIENTATION OF B.TECH. I YEAR STUDENTS



The orientation day marked a heart-felt welcome to the first year students of the SKIT family. The ceremony started with the lighting of the lamp before the portrait of Swami Keshwanand and Goddess Saraswati by the distinguished guests. Mr. Surja Ram Meel, Chairman, SKIT, welcomed the gathering. Mr. Anil Bafna, Vice Chairman, SKIT, dedicated his speech to the wholesome development of an individual and refinement of one's character. Mr. Jaipal Meel (Director, SKIT) explained the importance of being dedicated to a passion. After that Prof. S.L Surana (Director, SKIT) encouraged the students to take their zeal to a new level of development.

The induction-cum-orientation programme was sprinkled with knowledge by the Chief Guest of the function. He inspired the students by the biography of Swami Keshvanand. He emphasized the need to have an ideal in life and to have a healthy Teacher-Student relationship to excel in life. Prof. (Dr.) Ramesh Pachar illustrated the infrastructure of the college to the new comers by the means of a



presentation along with the vision and mission of the college. After that came a session where the Head Of Departments (HODs) of various branches threw light on the mission, vision, objectives, laboratories and the qualified faculty members of their respective branches. The advisor the college, Prof. ML Bhargava gave a speech on role of engineers in the society and honored engineering as the 'The noblest course'. After this, the Presiding Guest of the orientation programme, Padmashree, Mr. V.R Mehta filled the environment with his precious words on morality and nobility in human life. He said that in to have wings of success in future, one must have roots deep inside their field of interest. He also highlighted the importance of articulation and communication skills.

The ceremony ended with the most awaited session, the cultural programme, comprising dances like hip-hop and kathak, and a soulful music performance. There was a motivational play enacted by the second year students on 'Life Goes On' which received much appreciation from the audience.

INDEPENDENCE DAY CELEBRATION

Saluting the integrity of our incredible nation and standing by the flag being hoisted was the feeling with which SKIT celebrated the 69th Independence Day. Shri Rajaram Meel Patron, SKIT, highlighted the importance of celebrating the national festivals and motivated students to do their best for the nation. Prof. (Dr) S.L.Surana (Director Academics) stated the importance of the Independence Day, one's own freedom, and helping the nation in keeping a clean and eye pleasing India.

Dr. S.K. Calla (Director, Development and Welfare) encouraged the students to participate in making India a better place to live in by starting small measures by one's own ends. Shirin Bhargava presented a patriotic classical dance, representing the alluring Indian cultural heritage. Rohit Singh, with an energetic dance on Vande Mataram, expressed the feeling of patriotism and national integrity. Certificates of Appreciation were awarded to the teachers who presented the best research papers in the previous academic session. Shri. D.R Bhincher, In-charge, Central Library, was honoured for his impeccable contribution to the development of the central library. Along with him was honoured, Shri Heeralal Choudhary, In-charge, Sports for taking the sports activities to newer heights. The celebration of Independence Day 2015 ended with a vote of thanks by Prof. N. K. Banthiya, HOD, Mechanical Department. He enlightened the audience with his memories of the freedom fighters, history and their philosophy about the struggle.

SHUBHARAMBH: THE BEGINNING OF A SUCCESSFUL JOURNEY

A beginning is the most important and hardest path of any journey. A start can be challenging, but it can also be a great opportunity to do things differently in order to reach the aspiration of success. Keeping

THE SECOND DAY

The second day of Shubharambh initiated an exciting activity "Main Bechunga, Sab Kuch Bikta Hai". In this activity the students got a chance to showcase their marketing skills and understand the trends and development in the marketing field. The session was well coordinated by Mr. Atul Gupta. Followed by this, Prof. Vikas Shrotriya



this in mind, a three-day orientation programme, "Shubharambh: The Beginning of Successful Journey" was organized by the Department of Management Studies from 17th August to 19th August, 2015.

The programme was inaugurated by dignitaries including Shri P. M. Bhardwaj, Ex Chairman & MD, Instrumentation Ltd., Mr. Anil Aggrawal, VP & Circle Head, Axis Bank, Shri Surja Ram Meel, Chairman-SKIT, Mr. Jaipal Meel, Director, Prof. (Dr.) S. L. Surana, Director (Academics), Prof. (Dr.) S. K. Calla, Director (D & W), Ms. Rachna Meel, Registrar, Prof. (Dr.) Ramesh Pachar, Principal and Prof. S. P. Garg, Dean-DMS.

Shri P. M. Bhardwaj focused on motivating the students to face challenges ahead. He also gave the mantra of "Everything is Possible" to the students. He stressed upon promoting students for innovation. Mr. Anil Aggrawal addressed the students to adopt a focused and disciplined approach in life for success and gave numerous examples from his long career to prove his point. Shri Surja Ram Meel, while addressing the newcomers, showed great faith that the students would soon realize their decision of choosing SKIT would prove to be a fruitful one. The dignitaries also released the booklet 'PROMISE', an integrated individual developmental programme for young managers.

THE FIRST DAY

On the first day of the orientation, the fresher students were introduced to the institution's profile, infrastructure, faculty members and the exciting world of management. An interactive session on "Scenario of MBA Education: Prospects & Career Opportunities and Expectations from Students" were taken by Prof. S. P. Garg, Dean-DMS. He briefed them about the job market and corporate expectations. He enlightened the students with the upcoming challenges of job requirements and entreated them to foresee the coming opportunities in the burgeoning Indian economy and tap them by gaining more knowledge and skill development. The session was followed by some ICE breaking & Team Building Activities.

motivated the students to be confident and convenient with the changing world and stressed upon the discipline, rules & regulations expected by the students. Some indoor games were also arranged to increase the enthusiasm level of the students.

THE THIRD DAY

The third day of Shubharambh commenced with an enriching session of General Awareness Quiz and Extempore coordinated by Dr. Ona Ladiwal. This session was followed by creating the awareness on 'PROMISE' and other student engagement activities. This part of the day was coordinated by Dr. Savita Choudhary

Everything that starts is bound to come to an end, but good experiences leave their imprints in one's mind. The programme concluded with a valedictory ceremony where prizes for various competitions were distributed by Prof. S. L. Surana, Director (Academics), Prof. S. K. Calla, Director (D & W) and Prof. S. P. Garg, Dean-DMS. The orientation programme was coordinated by Mr. Atul Gupta. He also proposed a vote of thanks to all dignitaries and students.

WORKSHOP ON CLOUD COMPUTING BASICS

Department of Computer Science and IT coordinated a workshop on Cloud Computing Basics and Hands-On on 3rd August, 2015. SKIT declared the day as a "Cloud Day" in order to commemorate the event. The topics covered in the session were: Introduction to Cloud Computing, Cloud Service Models, Introduction to Soft layer, Introduction to Bluemix, Application development on Bluemix, Integration Cloud Foundry & Bluemix. Mr. Mani Madhukar, an expert from IBM addressed the gathering and highlighted the importance of the workshop. The event was coordinated by Mr. Mehul Mahrishi, Sr. Lecturer, Department of Computer Science.

AWARDS FOR FACULTY MEMBERS

Faculty members from the CS and IT Department received "Inspire Faculty Excellence Awards-2015" from Infosys. The names of the faculty members are:

- Prof. (Dr.) Anil Chaudhary, HOD-IT (Gold Partner Faculty Award).
- Mr. Mahender Kumar Beniwal, Reader (Gold Partner Faculty Award).
- Mr. Pankaj Dadheech, Reader (Gold Partner Faculty Award).
- Ms. Shubhra Saxena, Reader (Bronze Partner Faculty Award).
- Mrs. Aakriti Sharma, Sr. Lecturer (Bronze Partner Faculty Award).

SOFT SKILLS BATCHES ENROLLED

All branches of engineering at SKIT (CS/IT, EC, EE, ME & CE) for I semester & III semester were enrolled with the Soft Skills Programme under the aegis of Infosys Campus Connect Programme. The students of I semester were trained for business English communication that deals with the necessary nuances of the English language. The students of the third semester were directed towards a more focused training module that covers modules about personality and behavioural enhancement. The programme is anchored by Dr. Lalit Gehlot, Reader, Department of English.

FDP BY EMC CORPORATION

EMC Corporation, a Leader in cloud computing, Data storage & Big Data has announced partnership with Rajasthan Technical University (RTU), Kota to support the students and faculty members on "Train The Trainer Concept" for enhancing their skills in the areas of Cloud Computing, Information Storage and Data Analytics. Mr. Pankaj Dadheech, Reader and Mrs. Aakriti Sharma, Sr. Lecturer attended the Faculty Development Programme on "Cloud Infrastructure & Services-Industry Readiness Enhancement Program" conducted by EMC Corporation and got benefitted for pursuing the training further.

CHHAU DANCE PERFORMANCE AT SKIT

Chhau dance is a genre of Indian tribal martial dance which is popular in the East Indian states. A subgenre of this dance Purulia chhau was depicted by Shri Tarapada Razak in the college auditorium. The performance was a perfect blend of both dance and martial practices. The performance was a harmony in skilled dance and mesmerizing music of traditional folk music made out of mohuri, dhol and shehnai. The dance had a theme related to traditional story of Goddess Durga's win over the demons. The dance attracted the audience because of the use of colourful and vibrant masks by the dance group, which were made out of the earthen oils and water. The masks were able to connect the students to the characters of the Hindu mythology. Some of the martial dance moves by the artists were simply exotic and won accolades for the well endorsed and scintillating performance. The dance performance was organized under the umbrella of SPIC-MACAY, a society which promotes the traditional Indian music and dance art forms all over the world and works for their protection. The event gave a strong message of the win of truth over the evil. In the end of the program Shri Tarapada



Razak was honored by a shawl and a memento and the group was presented by floral thanks by the dignitaries of the college.

ACTIVITIES BY THE NSS CLUB

NSS, a Self-Financed Unit, is a pioneer in supporting several programmes at the campus. This year the NSS students campaigned for blood donation under the banner of RED CROSS Club. They initiated a short awareness programme and dispelled the superstitions regarding blood donation by presenting a NUKKAD NATAK in collaboration with DOCU. DRAMA club. In order to revive the patriotic feel in students, a programme was organized in collaboration with DIVINE BAND & its lead singer Mr. Manish, also known as RAJWADA SINGER. The NSS students also organized an event to spread awareness about National Service Scheme for the new batch 2015 of all disciplines in the SKIT campus. The volunteers are planning have an inter-college PPT competition on DIGITAL INDIA



SPOTLIGHT: INTRA COLLEGE DANCE COMPETITION

An electrifying and energetic dance competition, Spotlight, was organized as a Wednesday activity. Enthusiastic participation and the support of the students made the show a great success. Stars were added to the event by the gracious presence of the judges Mr. Moscow, who is a hip-hop mentor at Mishap Studio, Mr. Dheeraj, a renowned dancer and choreographer and Mr. Veeru, Senior Choreographer at ACL Dance Academy. The stage was set on fire by the dynamic performances by Mr. Moscow that left the crowd awestruck. The first position was bagged by Shubham Singh (2nd year) and the second position was a tie between Rohit Singh (4th year) and Mitali (2nd year) for solo performance. In the group performances, the second runners up was the group 'MADS' followed by 'BEAT DEMONS' as first runners up & finally the winning crown was shared between the groups 'DFA' and 'RHONTHRONZ'.



ABHIVADAN 2015

Continuing with the tradition of celebrating Teachers Day and Engineers Day, the students of SKIT organized Abhivadan 2015. The celebration witnessed a beautiful cultural programme, specially crafted for entertaining the audience. It was a combination of several performances including songs, dances, skit, poetry recitation, etc. The teachers also came up with their performances. The programme was attended by the members of Administration and Management, faculty and staff members.

BLOOD DONATION CAMP

SKITians have always put in their endeavours for serving the community. In the same spirit, a blood donation camp was organized for another consecutive year on 26th September 2015. It was held in collaboration with the Redcross Society, Lions Club Jaipur, SMS Blood Bank, Santokba Durlabhji Memorial Hospital, Jaipur, Jaipur Hospital, Swasthya Kalyan Group of Hospitals and Rotary Club, Jaipur, Bapu Nagar. Chairman Shri Surja Ram Meel, in his welcome address, assured the dignitaries that SKIT students will remain in the forefront in all societal concerns. He reminisced that the tradition of organising blood donation is an old one and since then SKIT has been organising it once a year. Dr. G.L Sharma, Director, Heart Institute, Jaipur Hospital, was the chief guest of the occasion. In his address, he said that donation of blood empowers one to overcome fear. He appreciated that nowadays girls are also coming forward for this noble cause. He also pointed out that patients suffering from heart diseases need blood as badly as any other patients suffering from



other deadly diseases. Dr. S.S Agarwal, Chairman and Director, Swasthya Kalyan Group of Hospitals, a highly qualified doctor and member of several associations, was the guest of honour. In his speech, he said that all kinds of myths are associated with blood donation. He said that one blood donation can help save three lives. He espoused the need of organising more such camps to fulfil the need. A nukkad natak on the theme of blood donation was presented on the occasion. Prof. (Dr.) Ramesh Kumar Pachar proposed a vote of thanks to the dignitaries and the team members. He expressed his gratitude towards the hospitals, Lions Club, Rotary Club and all dignitaries and also congratulated Mr. Ankush Tandon, Reader, Dept. of Electrical Engineering for successfully coordinating the programme. During the camp 850 units of blood was collected. The camp concluded with honouring the guests with a shawl and memento and distribution of gifts to the blood donors.

NEW MEMBERS

The SKIT family welcomes the new members of faculty who have joined us during the present academic session. We wish them a bright future and a rewarding stay at SKIT.

COMPUTER ENGINEERING/INFORMATION TECHNOLOGY

Ms. Deepti Khanduja	Lecturer
Ms. Niketa Singhal	Lecturer
Ms. Nikhar Bhtnagar	Lecturer
Mr. Nitin Purohit	Lecturer
Ms. Deepa Modi	Lecturer

ELECTRONICS & COMMUNICATION ENGINEERING

Mr. Sudhir Kumar	Senior Lecturer
Ms. Pooja Choudhary	Lecturer
Mr. Harshal Nigam	Lecturer
Ms. Nivedita Chauhan	Lecturer
Mr. Mohit Joshi	Lecturer
Ms. Aayushi Nanda	Lecturer

ELECTRICAL ENGINEERING

Mr. Gaurav Kansal	Senior Lecturer
Mr. Akash Deo	Lecturer
Mr. Akshay Rana	Lecturer
Mr. Ramesh Prakash	Lecturer
Ms. Esha Gupta	Lecturer
Mr. Vikas Ranveer Singh Mahala	Lecturer
Ms. Nidhi Vijay	Lecturer

MECHANICAL ENGINEERING

Dr. Manu Augustine	Reader
Mr. Vinay Singh Marwal	Reader
Mr. Jitendra Kumar Vyas	Senior Lecturer
Mr. Sanveer Singh Puri	Lecturer
Mr. Suresh Choudhary	Lecturer
Mr. Sandeep Kumar	Lecturer
Mr. Ashish Kumar Singh	Lecturer

SCIENCE & HUMANITIES

Ms. Deepika Jain	Lecturer
Ms. Pooja Sharma	Lecturer
Ms. Geetika Patni	Lecturer

ASME STUDENTS SECTION: CAD AND SOLID WORKS CLUB

The ASME Students Section, SKIT, started CAD and Solid Works training under a new club "CAD and Solid Works Club" on 19/08/2015. The Club has about 50 active participants at present. In this training programme, training will be given on every Wednesday from 1:30 PM to 3:30 PM by the trained students of V Semester Mechanical Engineering. Dr. N. K. Banthiya, Advisor ASME Student Section and Head Mechanical Department, motivated and appreciated the students for this programme. Mr. Manoj Kumar Sain, Reader, ME, Mr. Brij Mohan Sharma, Sr. Lecturer, ME and Mr. Arun Beniwal, Lecturer, ME will be the faculty coordinators for the training programme. The student coordinators are: Mohit Soni, Manish Jalan and Naman Garg (V Semester, ME)



A THREE-DAY FACULTY DEVELOPMENT PROGRAMME ON MAT LAB

A Three-day Faculty Development Program on "Basics of MATLAB" was organised for the faculty and staff members of the Department of Mechanical Engineering from 13-15 July, 2015. The programme was scheduled from 9 am to 3 pm for all three days. The programme started with the inaugural function where, Dr. Ramesh Pachar, Principal, SKIT was the chief guest. Dr. N. K. Banthiya (HOD, ME) welcomed the Chief Guest and appreciated the efforts taken by the faculty members to conduct the FDP.

Dr. Pachar encouraged the faculty members to participate and conduct more such FDPs which would help in enhancing their teaching and technical skills. He, in his speech, highlighted the importance of MATLAB for engineers. The programme was attended by 35 faculty members and one staff member of the Mechanical Engineering Department. The Programme was conducted by Dr. Manu Augustine, Reader, ME and Mr. Arun Beniwal, Lecturer, ME who were also the resource persons of the programme.



GANDHI IN ME: A TALK

Department of Management Studies organized a Talk Show on 1st of Oct 2015 in J.C. Bose Seminar Hall. The theme of the show was GANDHI IN ME. The objective of this discourse was to ignite an understanding of the Gandhian principles in the young generation. The talk brought to fore the idea how the Gandhian ideology helped us save our culture and how can the youth abide by Gandhi's thoughts in their personal life. There were noted speakers from different backgrounds. The Speakers were:

1. Dr. Santosh Bakaya (a renowned writer and academician, the first in the world to write a poetic biography on Mahatma Gandhi)
2. Ms. Tanaya Gadkiri (a young theatre artist, voice make-over artist and writer)
3. Mr. Anil Dutta Mishra (a famous young Gandhian and also a member of Indian Institute of Gandhian Studies)

The talk put forth the belief that this one small step could bring some respectable changes in many lives. The talk show was coordinated by Dr. Savita Choudhary.



MOVIE PROMOTION

The team of an upcoming movie, Merathiya Gangster, visited SKIT for its movie promotion. The cast and crew shared their experiences and spent some joyful moments with the students.

WORKSHOP ON DEVELOPING EFFECTIVE LEARNING SKILLS

A workshop on "Developing Effective Learning Skills" was organized in the Department of Management Studies by Mr. Atul Gupta on 8th September, 2015. The workshop was inaugurated by Mr. Jaipal Meel, Director, Prof. (Dr.) S. L. Surana, Director (Academics) and Prof. (Dr.) S. K. Calla, Director (D & W). Prof. S. P. Garg, Dean-DMS covered the various Effective Learning Approaches & Expectations from Participants. Following this session, Prof. (Dr.) Vikas Shrotriya emphasized the practical aspects of learning and discussed a few Case-Studies with the participants. The final session was conducted by Mr. Atul Gupta, where he laid emphasis on the Problem Solving Approach through Situation Handling & Role Play Activities.

The workshop improved the foundation skills of the participants and helped them shift from being an individual contributor to a skilled manager who can achieve team success and drive the bottom line performance.

LAUNCH OF ENTREPRENEURSHIP DEVELOPMENT PROGRAMME (EDP) IN ASSOCIATION WITH SIDBI

Inaugural session of EDP 2015 was held on 16 September at JC Bose seminar hall at 1:30 pm. Prof. S.P. Garg, Dean DMS, addressed the gathering on all important areas of startups development with a special focus on sector specific capabilities of an entrepreneur. Ms Maneesha Kaushik, Faculty Coordinator, EDP, briefly introduced and shared the framework of the EDP programme. All the students were addressed by Prof. S.L. Surana (Director Academics), Prof S.K.Calla, & Prof. M.L. Bhargava about strategic managements of tasks with perfection in Entrepreneurship.

Mr.Vivek Malhotra, DGM, SIDBI, addressed the students discussing about the importance of the EDP programme.



Shree Surja Ram Meel, Chairman, SKIT, addressed the students on the importance of pursuing entrepreneurship and stressed on becoming more enterprising. A video on entrepreneurship was displayed, providing knowledge about the scope of entrepreneurship in our lives. Ms Maneesha Kaushik, Senior Lecturer, DMS would be the Faculty Coordinator for the EDP Course.



E-MOMENTUM- 2015

An orientation ceremony of EDC (Entrepreneurship Development Cell), TOPAZ for the year 2015-16 was held on 9th September'15. The session started with a brief introduction TOPAZ, SKIT. A couple of videos enlightening the audience about entrepreneurship were played. Prof. M. L.Bhargava (Advisor, SKIT) and Prof. S.P. Garg, Dean, DMS, enlightened the audience on ' WHY ENTREPRENEURSHIP?'. The TOPAZ after-movie gave the audience a clear picture of what the club is all about. Mr Vaibhav Jain, our Alumni Entrepreneur, and Director, Ways and Means Technology, also shared his views on the challenges and opportunities for an entrepreneur. Ms. Maneesha Kaushik, Faculty co-ordinator, EDC, SKIT, motivated the students to take up entrepreneurship as a career option and also proposed the vote of thanks. The programme was coordinated by Ms Maneesha Kaushik, Senior Lecturer, Department of Management Studies.



DANDIYA PERFORMANCE

Once again the students of SKIT proved their mastery over extra-curricular activities with their zesty performance. In the ICDC i.e Inter College Dandiya Competition by ETV Rajasthan, SKIT stood fourth among twenty three colleges. Winning a beautiful trophy, the group Dandiya ManiaX promises to give more beautiful performances in the upcoming events.

PROGRAMMES HELD IN THE DEPARTMENT OF MANAGEMENT STUDIES

DMS fruitfully launched two value addition certificate courses under 'PROMISE' programme on August 24th, 2015. The first one was on "International Business and Export-Import Mechanism" and other was on "Financial Consultancy and Services". The resource persons for these certificate courses were Prof. S. P. Garg and Dr. Vikas Shrotriya.

DMS effectively organized a panel discussion on "Downfall of Stock Market" on August 26th, 2015, coordinated by Dr. Vikas Shrotriya.

DMS productively organized a three-day workshop on "Enhance Your Employability Skills (EYES)", under PROMISE programme, from Sept 7th to 9th, 2015, with the objective of increasing marketability of MBA students. The workshop was coordinated by Dr. Vikas Shrotriya and co-coordinated by Dr. Savita Choudhary.

The Department successfully organized a workshop on Sept 15th, 2015, on "Retail Payments Digital Money". Mr. M. K. Kothari, Ex-Executive of RBI was the expert. The workshop was coordinated by Dr. Vikas Shrotriya. DMS successfully organized a seminar in collaboration with the Directorate General of Foreign Trade (DGFT) on Sept 23rd, 2015, on "Foreign Trade Policy and Procedures, 2015-20, coordinated by Dr. Vikas Shrotriya.

DMS organized a workshop on the International Students Day to pay tribute to Late. Dr. A.P.J. Abdul Kalam. Various competitions were organized under the same like Poetry recitation, Poster making, quiz competition etc. A panel discussion was also held on the theme 'People's President Kalam.' The programme was organized by Ms. Maneesha Kaushik On 14th October 15.

ACTIVITIES HELD BY ETC (IE STUDENTS CHAPTER)

The student coordinators of the Club have been working on modern issues such as free energy and Tesla devices. Projects and presentations were made on free energy and working on Tesla principle. A working model of Tesla Bifilar coil was made which converted 150 W to 2850 W, with the help of Induction Cooker. Another project – magnetic generator was developed with the help of permanent magnets. A free energy mobile charger was also devised by the students.

A seminar was conducted on the topic 'Permanent Magnet Charging'. The club is planning to work on wireless electricity also known as 'Witrocity' in the sessions to come. In addition to the project making, the students also thrive to develop their personality by delivering seminars themselves and holding group discussions related to their own field of expertise.

Summary of Activities Organized by Electrical Technical Club (2015-16, Wednesday 1:30 pm onwards)

S.N.	Date	Event/Activity	Venue	Presenter
1	5/8/2015	Presentation & Demo of project 'Electromagnetic Induction based bifilar Tesla Coil'	5F:L1, M. Visvesvaraya Block, SKIT	Navdeep Singh, Vikramjeet Singh, II Year, EE
2	19/8/2015	Presentation of project 'Principle, working and a construction example of Tesla Coil'	7F:EE-Lab-12, M. Visvesvaraya Block, SKIT	
3	26/8/2015	Seminar on 'Magnetic Generator'	5F:EE-Lab-7, M. Visvesvaraya Block, SKIT	
4	2/9/2015	Seminar on 'Permanent Magnet Recharging'	7F:EE-Lab-12, M. Visvesvaraya Block, SKIT	
5	9/9/2015	Second discussion on 'Permanent Magnet Recharging'		
6	16/9/2015	Entrepreneurship	Meghnath Shah Seminar Hall, Vishvakarma Block (ME Dept)	Ravi Ramrakhyani, EE, IV Yr
		Constitution of India		Sachin, IT, IV Yr
		Self motivation-fight depression		Pragya, CS, IV Yr
		Education System of India		Sunil, IT, IV Yr

QUIZ COMPETITION

Swami Vivekanand Kendra, Kanyakumari, organized a state level youth motivation competition named as Safal Yuva- Yuva Bharat at SKIT. The quiz competition was held on 30th September 2015. More than 200 students participated in the competition.

The competition was coordinated by Dr. Sharda Soni, Reader, Chemistry Department. All the participants were awarded with a certificate of participation along with a book on the life and philosophy of Swami Vivekanand.



BHOLA RAM KA JEEV

Docu.Drama, a club to foster amateur theatre, recently staged a Hindi play, Bhola Ram ka Jeev. This play was a dramatic trans-creation of a story written by the noted Hindi writer Shri Harishanker Parsal who is well known for his acute sense of repartee and wit. The play, in a sarcastic undertone, pictured the tradition of procrastination of the official work and greasing the officer's palms for getting the job done on time. The actors, properly clad in their costumes and make-up, presented an impressive show. The play was directed by a senior member of the club, Ritwik Tak from Computer Science branch, 4th year.

DELNET WORKSHOP SUMMARY REPORT

"DELNET Resource Sharing facilities and DSPACE: An open source software building Digital Library Institutional Repository"

DELNET (Developing Library Network) and SKIT jointly organized a one day workshop on "DELNET Resource Sharing facilities and DSPACE: An open source software building Digital Library Institutional Repository" at Gyanmandir Auditorium, SKIT, Jaipur on 24th October, 2015. The objective of the workshop was to make library professionals familiar with the advanced IT skills and create awareness about the services of DELNET. The following topics were covered in this workshop.

- Managing Quality Resources and Services: New Trends and Technologies
- DELNET: Resources, Services and Facilities.
- Dspace: Open Source Software for Building Digital Library, Institutional Repository.

More than 200 Library professionals, Library and Information Science students, and Research Scholars from various institutions, in Rajasthan and other states, registered themselves and took an active part in the workshop. The workshop was inaugurated by Prof. R. P. Yadav, Former Vice Chancellor, Rajasthan Technical University Kota, who was the chief guest at the inaugural function.

The other dignitaries present on the dais were Dr. H. K. Kaul, Director DELNET, New Delhi; Dr. Sangeetha Kaul, Network Manager, DELNET; Shri Surja Ram Meel, Chairman, SKIT; Shri Jaipal Meel, Director, SKIT;



Prof (Dr.) S. L. Surana, Director (Academics) & Patron, SKIT Libraries; Prof. (Dr.) S. K. Calla, Director (D&W), SKIT; Prof. (Dr.) Ramesh Kumar Pachar, Principal, SKIT; and Mr. D. R. Bhincher, Librarian, SKIT & Coordinator of this DELNET Workshop.

The workshop comprised three sessions namely:- Managing Quality Resources and Services: New Trends and Technologies", presented by Dr. H. K. Kaul, Director, DELNET.

Networking Libraries through DELNET (Access to DELNET Online) by Dr. Sangeetha Kaul, Network Manager, DELNET.

In The post lunch-break session Dr. Sangeetha Kaul, Network Manager, DELNET talked about Dspace: Open Source Software for Building Digital Library, Institutional Repository The post lunch session was concluded with an open discussion.

The workshop ended with the valedictory function which was presided over by Prof. (Dr.) Ramesh Kumar Pachar Principal, SKIT. The president and other dignitaries on the dais handed over the certificates to the participants.

Orientation Programme for Newly Appointed Faculty Members -2015



ORIENTATION PROGRAMME FOR NEWLY APPOINTED FACULTY MEMBERS-2015

A Faculty Development Programme titled Orientation Programme for Newly Appointed Faculty Members-2015 was organized from 19th August, 2015 to 21st October, 2015 every Wednesday in the Mechanical Engineering Department. The objective of the programme was to acquaint the newly appointed faculty members with the effective teaching skills and rules and regulations of the Institute.

Dr. N.K.Banthiya, Professor & Head, Mechanical Engineering Department who was also the chief resource person of the programme, gave his inputs on 'Techniques of Teaching', 'Classroom Communication', 'Explaining Skills', as well as on 'Accreditation, POs, POs and Cos'. Programme Coordinator, Mr. Dheeraj Joshi, highlighted specific faculty roles in the accreditation process and also gave inputs on preparing an effective course file. Another resource person, Dr. S.P. Garg, Dean, DMS in his interaction with the participants, discussed about 'Effective Teaching and Learning: Be a Good teacher'. The participants also had privilege to listen to Dr. S.L.Surana, Director (Academics) who explained about various rules and regulations and expectations from faculty members in the Institute. The programme observed the Valedictory function on 4th November, 2015 where 32 participants from different departments of the Institute were awarded certificates by Dr. N. K. Banthiya. Mr. Dinesh Kumar Sharma, Programme Co-ordinator proposed a Vote of Thanks at the end of the session.

TECHNOVOLTZ IIT

As per the culture of IIT BOMBAY, Mumbai, every academic year an inter-college technical fest 'TECHFEST' is organized for aspirants from various engineering colleges. The competitors should have a very high competitive spirit to participant and with a strong determination to include their achievements & accomplishments to their resumes.

The zonal round for the north zone TECHNOVOLTZ was conducted in SKIT, in collaboration with Robotics club SKIT, ASME and IIT Bombay.



This year a new zeal was seen among the participants and the huge crowd that gathered to see the creativity of the student in the technical field of ROBTICS. The fest is organized every year with an objective to provide a platform for the students to showcase their talent with a competitive spirit. The event was successful enough to attract more than 500 students and about 200 teams for registrations in one day.

The fest executed with a total of 3 events planned and organized at its best of quality. Events and strategies of the fest were decided by the fest coordinators Priyanshu Jain, Rajeev Ratna Singh, Suraj kumar, Sunil kumar and team ROBOKON.

The fest included three events:

1. Maze Runner
2. Battle Code
3. Block warrior



More than 200 teams from all over North India, including the states like Jammu Kashmir, Uttar Pradesh etc, participated in these events. The prize distribution ceremony was conducted by faculty coordinator Mr Saurabh Gupta (M.E. Deptt.). The ceremony was graced by the presence of Dr. N.K. Banthiya (HOD M.E. Deptt.) and Dr. S.L. Surana (Director Academics). Winners were awarded with a cash prize. SKIT stood second in the code battle and qualified for all the events.

Mechanical Department feels proud to organize such a successful event and would like to convey thanks to SKIT Management and Mr. Praveen Saraswat.

SOLAR POWER PLANT AT SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur has always been a forerunner for a multifarious development in academics as well as in the infrastructure. This is to provide a coveted platform to the students of engineering while fulfilling the aim of Gramothan which ultimately improves the motif of society. Keeping the commitment alive, the institute has taken up a project of 440 kW Solar Power Plant in the campus. It was inaugurated on the 20th of Oct. 2015 at SKIT premises by the Chief Guest, Shri Gajender Singh, Minister of Industry, Rajasthan. He was accompanied by Shri B K Doshi, MD, RREC, as the Presiding Guest, Shri S S Meena, Director, RVVNL, Shri Surjaram Ji Meel, Chariman SKIT, Prof. S. L. Surana, Director Academics, SKIT, Dr. S. K Calla, Director Development and Welfare, SKIT, Dr. Ramesh Pachar, Principal SKIT, and Shri Rahul Gupta, Chairman RAYS Power.

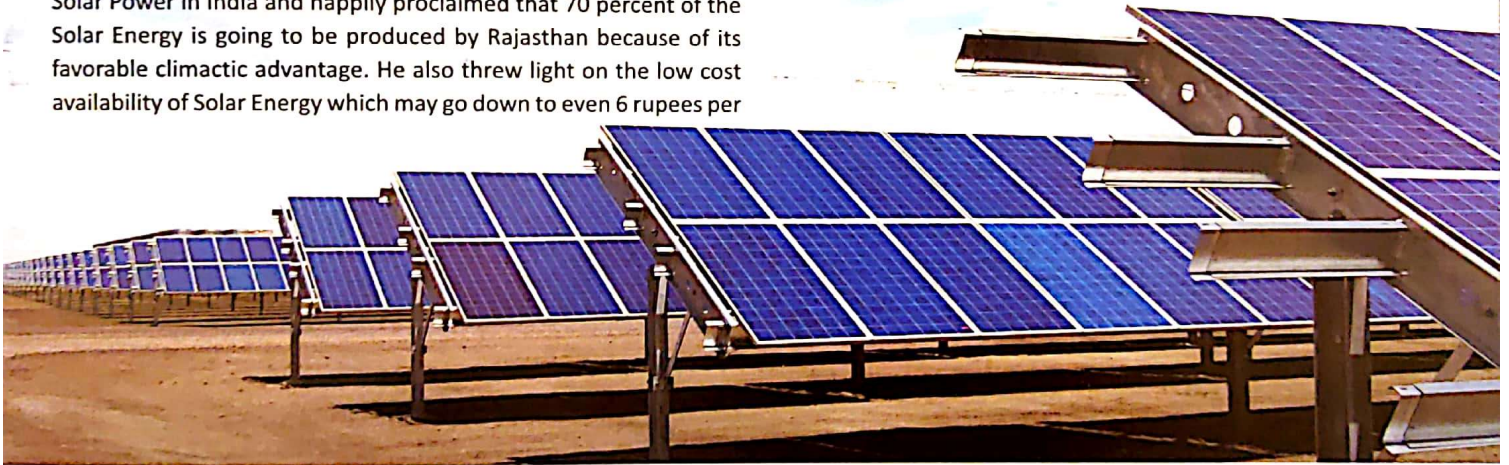
The Minister of Industry, Shri Gajender Singh shared future plans of Solar Power in India and happily proclaimed that 70 percent of the Solar Energy is going to be produced by Rajasthan because of its favorable climactic advantage. He also threw light on the low cost availability of Solar Energy which may go down to even 6 rupees per

unit in the future.

Shri. B K Doshi declared SKIT as a source of inspiration for establishing many more Solar Power Plants in other institutes to save energy in Rajasthan. SKIT is now the pioneer engineering college in Rajasthan having a huge Solar Power Plant of 440 kW.

'The engineering students of SKIT also worked diligently on this project', informed Shri Rahul Gupta, who is the key technical support in it. He is also going to help the student to learn the wireless metering to supply the unused electricity out of the campus.

Dr. Calla thanked all the guests and members for their benign presence and rendering assistance in accomplishing the venture.



DEPARTMENT OF CIVIL ENGINEERING SURVEY CAMP-2015

As a part of the curriculum, a Survey Camp was conducted for B.Tech. III year (V semester) students from 05/10/2015 to 14/10/2015 at Chandwaji near Jaipur-Delhi (NH-8) Highway.

The students did a Triangulation survey of the area near Sevad Mata Temple in Chandwaji. Initially, they did a reconnaissance survey of the area to be surveyed. Then the stations were erected on different locations in the village. The intervisibility of all the stations were checked and a baseline was marked in front of the temple. The students worked with the theodolites observing horizontal and vertical angles and calculating distances with the help of the trigonometrical formulae. A levelling exercise was also done with the help of the instrument Autolevel. The students also performed a plane table exercise at a central station. At the end, the students were able to draw a triangulation map of the area surveyed. Apart from all the technical exercises, the students learnt team-work and management skills as they were divided into seven different groups with each group having a group leader. The remaining members of the groups were also responsible for other activities which indirectly helped to improve leadership skills.

TOASTMASTERS SPEECH CONTEST

Speech is the mirror of the soul and a good speaker can persuade, convert and compel. Nothing compares to a dash of humour added to a speech as humour is an important business asset and the best antidote for anxiety. On 20th September, 2015, the SKIT Toastmasters Club provided a platform where the best of speakers of various Toastmasters clubs of area B 41 collected under one roof to showcase their verbal talents at the area level Humorous Speech and Evaluations contest. The contest was presided over by some of the most esteemed Toastmasters like Mukesh Kulothia (Programme Quality Director-district 41), Nachiketa Goyal (Division Director) and Nitesh Gupta (Area Director). It was an enriching experience for all of us as the humorous speeches filled the room with many faces laughing and enjoying the moments as the contest unfurled.

VANDE MATARAM RECORD

On October 6th, the students of SKIT went to Janpath to witness, as well as be a part one of the largest ever sung VANDE MATARAM. The event was graced by the presence of city's eminent leaders, socialites and our Honourable Chief Minister, Mrs Vasundhara Raje. "The future of nation is secured in the hands of youth," she said. The show was held under a banner of Hindu Spiritual and Service Fair (HSSF) in the morning.

NIRMAAN THE CIVIL ENGINEERING ASSOCIATION

The Department of Civil engineering runs a club "NIRMAAN" which helps the students of civil engineering enhance their technical knowledge and review the recent advancements and innovations as well as latest technologies emerging in the field of civil engineering. The following activities were organized in the month of August.

S.No	Name of the Activity	Date	Winners
1.	CARD - CASTLE COMPETITION Students were provided with a pack of cards and they had to make an innovative CASTLE with them.	05/08/2015	Group 1. Dilip Singh, Girraj Prasad Saini Group 2. Vikas Prajapat, Rohit Khandelwal Group 3. Shubham Garg, Nitin Garg
2.	POSTER - MAKING COMPETITION Students had to make their posters on the topic "Connection : Ancient to modern architecture in India"	12/08/2015	Group 1. Manoj Kumar Khudiya, Kamlesh Punia, Gagan Bansal, Krisnan Choudary, Jitendra Gothwal Group 2. Prveen Kumar, Rajendra Choudhory, Rohit Shihag, Om Prakash
3.	BRIDGE- O - MANIA COMPETITION Students had to make their models on different types of Bridges, maximum in group of five, using waste newspapers. The basis of selection was design, elegance, creativity and technical aspect of the model.	19/08/2015	Group 1. Vikas Kr. Prajapat, Rohit Khandelwal, Sumit Mittal, Vikky Jindal, Tarun Kasliwal Group 2. Swati Achar, Shivani Goyal, Sunita Meena, Kishore, Uday Bhanu



THE SPIRIT OF SKIT-SPORTS

SKITians have always inherited within themselves a great fervour and enthusiasm for sports. SKIT hosted the inter college Basketball Tournament under the aegis of Rajasthan Technical University from September 1st to September 3rd. Over 40 colleges affiliated to RTU participated with great endeavour and sportsmanship. The host college, SKIT, walked away with most of the Laurels. The tournament culminated as one of the best organized RTU inter-college tournaments.

In general, every year the growth of SKITians in the field of sports grows manifold. Sports has brought many laurels to SKIT in the months gone by. Some of which are summarized below.

EVENT	VENUE	ACHIEVEMENT
1. RTU(Rajasthan Technical University) Basketball tournament.	SKIT	Boys team winner.
1. RTU Badminton Tournament.	Shankara Institute of Technology	Girls team runners up. Boys team winner.
2. RTU Table Tennis Tournament	Shankara Institute of Technology	Girls team runners up.
3. RTU Volleyball Tournament	Balaji Institute of Technology	Boys team winner.

The following students were also selected to represent Rajasthan Technical University (RTU,Kota) in various West Zone tournaments owing to their exceptional talent and hardwork

BASKETBALL BOYS - 1.Yuvraj Singh (4th year Civil)
2. Ripu Daman (4th year Civil)
3. Yogesh Saroha (MBA 2nd year)
4. Piyush Yadav (2nd year, IT)

BASKETBALL GIRLS - 1.Diksha Verma (4th year ,ECE)
2. Tarushi Sharma (3rd year,ECE)

3. Lakshita Bishnoi (2nd year,EE)

BADMINTON BOYS -1.Mayank Soni (3rd year ,ECE)
2. Yash Vijay (2nd year,CS)

BADMINTON GIRLS- 1.Nivedita Jha (4th year,ECE)

TABLE TENNIS BOYS-1.Amol Dhupad (3rd year,ME)
2. Harsh chaturvedi (2nd year ,IT)
3. Himanshu (1st year ME)

VOLLEYBALL BOYS- 1.Ankit Jaat (MBA, 1st year)
2. Yuvraj Singh(4th year,CE)



SKIT CHATRA SANSAD

SKIT Chatra Sansad, in association with Indian Youth Parliament, staged a talk show on 'Effect of Media on Youth in Contemporary Scenario'. The talk show witnessed various eminent speakers from both print and visual media who contemplated on the issue from different perspectives. The speakers also answered questions posed by SKIT students and congratulated the Chatra Sansad team for raising such a contemporary issue, pertaining to all sections of society.

THE AWARD OF GLORY

Rajasthan Technical University (RTU) and Communication Multimedia And Infrastructure (CMAI) jointly organized a National Rajasthan Education Summit and Awards 2015 at Jalmahal Palace, Jaipur on 26 August. The summit was based on the new initiatives started by our Hon. Prime Minister, Mr. Narendra Modi such as 'Make in India', 'Skill Development' and 'Digital India'. The conference witnessed the benign presence of the Minister of Education, Prof. Vasudev Devnani, Prof. Dr N P Kaushik (VC, RTU) and Mr. N K Goyal (President, CMAI).

Mr. Kaushik inspired the audience through his enlivening words and threw light on the new project where the RTU colleges would join through Hon. Prime Minister, Mr. Narendra Modi's initiatives and provide high quality education to the aspiring students so that they could give wings to their dreams. Our Director Mr. Jaipal Meel, Director Academics, Prof. S.L Surana, Director(D&W) Prof. S. K Calla



and Prof. M L Bhargava along with a few students witnessed the national conference and brought glory to our college. SKIT bagged the award for "Creative and Most Innovative College" amongst all the colleges of Rajasthan Technical University.

INDUSTRIAL TOUR ORGANIZED

An Industrial tour was organized for the students of B.Tech. Civil Engineering 7th semester. The students visited the following locations in Gujarat:

1. GIFT City (Gujarat international Finance Tec-city), Gandhinagar
2. Sabarmati Riverfront, Ahmedabad
3. Veraval Harbor and Veraval Light House, Veraval
4. Somnath temple and DIU

KEYNOTE ADDRESS BY PROF. S P GARG

Prof S P Garg, Dean ,DMS delivered a key note address in a Technical Session on "Corporate Social Responsibility" during a National Seminar organized by Dept of ABST, University of Rajasthan on 21st February 2015. In one of the other events, Prof. Garg chaired a technical session during an International Conference on Management and Information Technology on the theme "Technical and Higher Education in India : Emerging Landscapes" on 11th April, 2015

RESEARCH PAPERS PUBLISHED

- | | |
|----------------|---|
| TITLE | : Reduction of Work-In-Process Inventory and Production Lead Time in a Bearing Industry Using Value Stream Mapping Tool |
| AUTHORS | : Praveen Saraswat Sr. Lecturer,ME and Manoj Kumar Sain, Reader, ME |
| JOURNAL | : International Journal of Managing Value and Supply Chains, Vol. 6, 2015 |
| TITLE | : Managing the process Variability of CNC Turning Operation Using Quality Control Tools |
| AUTHORS | : Manoj Kumar Sain, Reader, ME and Sarita Choudhary, Reader, ME |
| JOURNAL | : SKIT Research Journal, Vol. 5, 2015 |
| TITLE | : Performance Enhancement of Single Slope Solar Still using Nano-Particles Mixed Black Paint |

- AUTHOR** : Manoj Kumar Sain, Reader, ME
JOURNAL : Advanced Nanoscience and Technology: An International Journal, Vol. 1, 2015
- TITLE** : The Analytic Hierarchy Process – An Application in Engineering Education
AUTHOR : Dr. Alok Mathur, Professor, ME
JOURNAL : SKIT Research Journal Vol. 5, 2015
- TITLE** : Optimization of EDM Parameters for Minimum Surface Roughness during EDM using Two Level Full Factorial Designs
AUTHORS : Suman Anand, Lecturer, ME and Chandan Kumar, Lecturer, ME
JOURNAL : International Journal of Science Technology and Engineering, Vol. 1, 2015
- TITLE** : Study on MRR on AISI D3 Die Steel with Different EDM Parameters using Two Level Full Factorial Design
AUTHORS : Chandan Kumar, Lecturer, ME and Sunil Kumar Lecturer, ME
JOURNAL : International Journal of Science Technology and Engineering, Vol. 1, 2015
- TITLE** : Study on Surface Roughness on AISI H11 Die Steel Face Centered Design
AUTHOR : Sudesh Garg, Lecturer, ME
JOURNAL : International Journal of Science Technology and Engineering, Vol. 1, 2015
- TITLE** : Study on MRR on AISI H11 Die Steel using Face Centered Design
AUTHOR : Sudesh Garg, Lecturer, ME
JOURNAL : International Journal for Innovative Research in Science and Technology, Vol. 1, 2015
- TITLE** : A Study on Upcoming Technology in Automobile
AUTHORS : Sushil Surana, Reader, ME and Chandan Kumar, Lecturer, ME
JOURNAL : SKIT Research Journal, Vol. 5, 2015
- TITLE** : BBO based algorithm for transmission constrained economic load dispatch problem
JOURNAL : SKIT Research Journal, An International Journal of Engineering, Science, Humanities and Management, ISSN: 2278-2508, vol. 5, Issue.1, April 2015.
AUTHORS : Jitendra Singh, Sunil Kumar Goyal, Deptt. of EE
- TITLE** : Some Integrals Involving I-function and Wright's Generalized Hypergeometric Function
JOURNAL : Caspian Journal of Applied Mathematics, Ecology and Economics V. 3, No 1, 2015, July ISSN 1560-4055.
AUTHOR : Dr Rohit Mukherjee, Department of Mathematics
- TITLE** : Some Integrals Involving I-function and Wright's Generalized Hypergeometric Function
JOURNAL : Caspian Journal of Applied Mathematics, Ecology and Economics V. 3, No 1, 2015, July ISSN 1560-4055
AUTHOR : Dr Amber Srivastava, Professor, Department of Mathematics
- TITLE** : A Chronological Review and Comparison of Four Evolutionary Based Algorithms
JOURNAL : European Journal of Advances in Engineering and Technology, vol. 2 no.1, pp.no.35-41, 2015.
AUTHORS : Akash Saxena, Bhanu Pratap Soni & Vikas Gupta
- TITLE** : A Polynomial Approximation Objective Function Approach for Optimal Design of Power System Stabilizer by Embedding Particle Swarm Optimization
JOURNAL : TELKOMNIKA Indonesian Journal of Electrical Engineering, ISSN: 2302-4046, vol.14 no.2, pp.no.191-198, May 2015
AUTHORS : Bhanu Pratap Soni, Akash Saxena & Vikas Gupta
- TITLE** : Comparison of Population Based Intelligent Techniques to Solve Load Dispatch Problem
JOURNAL : European Journal of Advances in Engineering and Technology, vol.2 ,no.3, pp.no. 84-89, 2015.
AUTHORS : Anirudh Singh, Akash Saxena & Bhanu Pratap Soni
- TITLE** : Robust Generation Control Strategy Based on Grey Wolf Optimizer
JOURNAL : Journal of Electrical Systems, Vol.11 no.2, pp.no.174-188, June 2015.
AUTHORS : Esha Gupta and Akash Saxena
- TITLE** : Social Swarm Optimization for Damping Control of Multimachine Power System
JOURNAL : International Journal of Science, Engineering and Technology Research, Vol.4 no.7, pp. no. 2609-2616, July 2015.
AUTHORS : Baibhav Bishal, Akash Saxena and Sunil Goyal
- TITLE** : Optimal Placement Strategy of Distributed Generators based on Radial Basis Function Neural Network in Distribution Networks
JOURNAL : Procedia Computer Science, Volume 57, 2015, Pages 249-257, ISSN 1877-0509
AUTHORS : Swati Gupta, Akash Saxena, Bhanu Pratap Soni
- TITLE** : Optimal Network Reconfiguration of a small distribution network by using selective particle swarm optimization
JOURNAL : SKIT Research Journal , vol.5 no.1 pp.no.13-19.
AUTHORS : Ankush Tandon and Akash Saxena
- TITLE** : Comparative Study of Optimization Algorithms for Enhancement of Small Signal Stability by Designing PSS for Multi-machine Power System
JOURNAL : IEEE explore, IEEE International Conference on Energy Economics and Environment
AUTHORS : Vivek Prakash, Bhanu Pratap Soni, Akash Saxena and Vikas Gupta

RESEARCH PAPERS PRESENTED

TITLE : Efficient Density Based Clustering Using Automatic Parameter Detection
DATE : 9-10 October, 2015
CONFERENCE : Springer International Conference on Information & Communication Technology (ICICT - 2015)
VENUE : Hotel Golden Tulip, 63rd Avenue, Sardarpura, Near Sukhadia Circle, Udaipur, Rajasthan, India
PRESENTER : Ms. Priyanka Sharma, Lecturer, Dept. of CSE

TITLE : On Certain Properties of Generalized Mittag-Leffler Function
DATE : September 10 - 12, 2015.
CONFERENCE : International Conference on Special Functions & Applications (ICSFA-2015)
VENUE : Department of Mathematics, Amity University, Noida
PRESENTER : Dr. Amber Srivastava, Professor, Dept. of Mathematics

TITLE : Transmission Constrained Economic Load Dispatch using Biogeography Based Optimization
CONFERENCE : IEEE International Conference on Computational Intelligence and Computing Research-2014, ISBN: 978-1-4799-3974-9, pp. 1197-1201.
VENUE : Park College of Engg. & Tech., Coimbatore, Tamilnadu
DATE : 18-20 Dec. 2014
PRESENTER : Jitendra Singh, Sunil Kumar Goyal, Deptt. of EE
PUBLISHED IN : IEEE Xplore

TITLE : Optimization of Economic Load Dispatch problems using Biogeography Based Optimization Technique
CONFERENCE : IEEE International Conference on Energy, Economics and Environment-2015, ISBN: 978-1-4673-7491-0, pp. 1-5.
VENUE : Galgotias College of Engineering and Technology, Greater Noida
DATE : 27-28, March 2015
PRESENTER : Jitendra Singh, Sunil Kumar Goyal, Deptt. of EE
PUBLISHED IN : IEEE Xplore

TITLE : On Uniformly Starlike and Uniformly Convexity Properties of Generalized Mittag-Leffler Function
DATE : July 25-26, 2015.
CONFERENCE : DST sponsored National Conference on "Advances in Mathematical Sciences and Applications in Engineering & Technology"
VENUE : Poornima University, Jaipur
PRESENTER : Dr. Rohit Mukherjee, Professor, Dept. of Mathematics

TITLE : On N-Fractional Calculus Pertaining To H-

Function", in the DST sponsored National Conference on

DATE : July 25-26, 2015.
CONFERENCE : DST sponsored National Conference on "Advances in Mathematical Sciences and Applications in Engineering & Technology"
VENUE : Poornima University, Jaipur
PRESENTER : Dr. Amber Srivastava, Professor, Dept. of Mathematics

WORKSHOPS/SEMINARS ATTENDED

TITLE : India's Engagement with Free Trade Agreements: Opportunities and Challenges "
DATE : 3rd March 2015.
ORGANIZED BY : CII and Government of India
ATTENDED BY : Prof. S.P Garg, Dean, DMS

TITLE : AICTE sponsored short term course on "Additive Manufacturing"
DATE : July 13- July 17, 2015
ORGANIZED BY : IIT, Kanpur
ATTENDED BY : Brij Mohan Sharma, Sr. Lecturer,

TITLE : Campus Connect Five Day Faculty Enablement Program
DATE : 15th-19th, Sept. 2015
ORGANIZED BY : Infosys Chandigarh
ATTENDED BY : Mr. Kanak Giri, Lecturer, Ms. Anjali Pandey, Sr. Lecturer

TITLE : Infosys Campus Connect: Three Day Train the Trainer Workshop
DATE : 8th -10th June, 2015
ORGANIZED BY : Infosys Chandigarh
ATTENDED BY : Ms. Poonam Varshney, Sr. Lecturer Ms. Shubhra Saxena, Reader

TITLE : Campus Connect Five Day Faculty Enablement Program
DATE : 20th-22nd, August 2015
ORGANIZED BY : Infosys Chandigarh
ATTENDED BY : Ms. Anjali Pandey, Sr. Lecturer, Ms. Neha Kapur, Sr. Lecturer

TITLE : Faculty Development Program on "Cloud Infrastructure & Services-Industry Readiness Enhancement Program
DATE : 10th-12th Sept. 2015
ORGANIZED BY : EMC Corporation
ATTENDED BY : Mr. Pankaj Dadheech, Reader, Mrs. Aakriti Sharma, Sr. Lecturer

TITLE : Building World Class Organization
DATE : 15th October 2015
ORGANIZED BY : FICCI
ATTENDED BY : Dr. Archana Saxena and Ms. Maneesha Kaushik

RESEARCH PAPERS REVIEWED

TITLE : Some Studies on the Exergetic Analysis of Combined Heat and Power System
REVIEWER : Manoj Kumar Sain, Reader, ME
JOURNAL : International Journal of Recent advances in Mechanical Engineering (IJMECH)

TITLE : Key Performance Measures for Evaluating Cold Supply Chain Performance in Farm Industry
REVIEWER : Manoj Kumar Sain, Reader, ME
JOURNAL : International Journal of Managing Value and Supply Chains (IJMVSC)

TITLE : Study of Fluid Flow through Nozzle Injector by Comparing Di-Methyl Ether and Diesel Fuel by Using CFD
REVIEWER : Manoj Kumar Sain, Reader, ME
JOURNAL : International Journal of Recent advances in Mechanical Engineering (IJMECH)

TITLE : Genetic Algorithm Based Optimization using Response Surface Methodology in WEDM of Nimonic-90: A Nickel Based Super Alloy
REVIEWER : Manoj Kumar Sain, Reader, ME
JOURNAL : International Journal of Recent advances in Mechanical Engineering (IJMECH)

BOOKS PUBLISHED

TITLE : Finite Element Methods
AUTHOR : Chandan Kumar, Lecturer, ME
PUBLISHER : Jain Publication

TITLE : Finite Element Methods
AUTHOR : Namita Soni, Lecturer, ME
PUBLISHER : Genius Publications

TITLE : Turbomachines
AUTHORS : Sudesh Garg, Lecturer, ME and Chandra Mohan Kumar, Lecturer, ME
PUBLISHER : Ashirwad Publication

WEBINARS ATTENDED

TITLE : Building World Class Organization
DATE : 15th October 2015
ORGANIZED BY : National Entrepreneurship Network
ATTENDED BY : Ms Maneesha Kaushik, Sr. Lecturer, DMS

TITLE : Institute Planning & Roadmap setting
DATE : 15th Sept 2015
ORGANIZED BY : National Entrepreneurship Network
ATTENDED BY : Ms Maneesha Kaushik, Sr. Lecturer, DMS

PhD SUPERVISED

THESIS TITLED : "A Study of Fractional Calculus Operators and Integrals Pertaining to Certain Special Functions with Applications"
SUPERVISOR : Dr. Amber Srivastava, Professor, Dept. of Mathematics
UNIVERSITY : Poornima University, Jaipur

My Bio-Dilemma

Technical terms were definitely confusing
 By your voice they all were amusing,
 You are mitochondria, I'm the cell
 This sounds effective and appropriate as well.
 It was my phobia regarding genetics
 You were armed with sophisticated tactics,
 Comprehended fathom of hemophilia
 So as I found my lost paraphernalia.
 A sense of renovation in my ideology
 I took interest in biology,
 Never understood the function of pituitary gland
 Was a stranger to a DNA strand?
 Study of haunting ribosome
 Solving conundrum of chromosome,
 Everything studied get revised
 When I remember the moments you smiled.
 At this point of juncture
 Desperately waiting for another lecture,
 Anyhow I want to be with you again
 Only way my joy can be regained.
 Akash Dco, Lecturer, EE Department

freedom in mind

I know those days are never gonna come back...!
 Trust me I am still living those memories in much better way...!
 There must be many words left unspoken...!
 Trust me I never gonna guess those words in my mind...!
 Manys things were made to be given to those hands...!
 Trust me things made will never be waste for me...!
 Some moments were prepared to be happened...!
 Trust me I will live all those moments without complaining...!
 A boy was waiting endlessly for his life...!
 Trust me that boy had now grown up to be a gentleman...!
 Fragrance of your presence will never fade away...!
 Trust me the fragrance will never be forgotten by me...!
 Utkarsh Dangayach III B. Tech., Dept. of CS

CAREER CALLING

INTERVIEWING THE INTERVIEWER

In the special write-up, 'Interviewing the Interviewer', Akarshak Singh Jasrotiya, our student Editor, has interviewed one of the panelists from Polycab. The name of the panelist has not been published for the concern of secrecy. The interview will hopefully help the students in their training for interviews. We owe a special thanks to the members of the Training and Placement Cell for their efforts in making this endeavour possible.

Q1. How do you feel coming to Jaipur? How do you feel interviewing the students of SKIT?

I always feel great visiting Jaipur and your college. Loaded with immense Infrastructure, it is the best platform in the city. The students of the previous batch are doing well in the industry. However, there is still a lot of scope for improvement. You know, it is difficult to judge an applicant in 15 minutes. We need someone who can grasp things easily.

Q2. What are the standard expectations from a candidate who is facing an interview?

We don't want a jack of all trades and master of none. The students should have deep and sufficient knowledge of their favourite subject. We always first ask their field of interest and then go further with the interview.

Q3. Why does the industry think soft skills are important? What is the role of extra-curricular activities?

It is tough to judge students who are not expressive. It becomes their point of weakness. Extra-curricular activities are necessary, as such activities help shape the overall development of a student which may not be necessary for the job but is important for shaping a better personality in life.

Q4. Is there any training period after the candidates are selected?

Yes there is a six-month training period for the students. In that we familiarize them with the company, its policies and its work

environment. Basically, the gist of everything that happens or is associated with the company, is given to the trainees.

Q5. What are the expectations from the trainees?

They should think in an innovative manner. Something out of the box. Something new should be their approach while working on various projects.

Q6. Which kind of candidates impress you the most?

It is difficult to choose a specific kind. But the best element in candidates that outshines them is the zeal to explore. They should be seeking for problems and then finding their solutions. Those who blindly follow orders are good, but not excellent.

Q7. How much does one's Curriculum Vitae matter in the selection process?

It matters a lot. Especially, the type of training that the students have gone through reflects their efforts towards their interest. We can easily distinguish between those who pursue studies for obtaining a degree as compared to those who do it for their interest.

Q8. Do you see any gap between the curriculum that is being followed in academic institutions and the pattern of work culture in industry?

No, there is not much of a gap as such. The only difference is that people are very mature at that level. Even the previous year students have brought a very high level of sophistication with them.

Q9. What can be done to fill these gaps?

I don't see any gaps as such. But, if we see it microscopically, a bit more sophistication and professionalism is somewhere required in the college students of this year.

Q10. What would you like to suggest the students who have just entered the college?

The only thing I would suggest is that apart from reading the text books, read the magazines of their favourite subject. The general knowledge of a particular subject is must. We should be aware of what is obsolete and what is contemporary.



KNOW YOUR CAMPUS

MEMORIES UNDER CONSTRUCTION...

A Special Story by Raina Sood, Student Editor, The SKIT TIMES

I clean the dust off an old album, buried somewhere in the chest, an eternal world of nostalgia enfolds me. As I pedal the wheel of time, I halt at a point fifteen years down the memory lane when the contours of SKIT College were etched and its foundation was laid. The pictures of the foundation year of this college speak volumes about the laborious work and dedication infused by our esteemed founders and revered faculty members to raise this paragon of excellence. We have been lucky enough to preserve and continue with many of the faculty members of the maiden batch till date. They have been the harbingers of the grand journey that SKIT has toured to become the magnum opus of today. So, I present before you a few crisp bites from the memoirs of the maestros of the 2000 batch that actually tickled their senses when I spoke to them about their memories under construction...

"As we were less in number, it was easy to approach, communicate and help students or faculty members. Transportation facility was not so extensive, therefore individual transportation means were shared and life was offered to faculty members and students seen walking on their way to college. I agree that my students have helped me to grow and learn".
Prof. Ramesh Kumar Pachar

"I have witnessed the growth of every nook and corner of this institution. The past 15 years have observed unparalleled advancements in every domain. This progress is the hard work of our erudite faculty, guided by the able management and sculpted by our bright students. I wish to leave a message for my dear aspiring students that strong will power, dedication and loyalty, materialized towards the market needs, is the success mantra of the modern era".
Prof. C. M. Choudhary

"When I look back to the time I joined SKIT, it gives an amazing feeling to witness so many positive changes. We started with a single block with a handful of teachers. Everyone felt a strong urge to take this institute to greater heights. I wish that the institute continues creating more success stories in the time to come".
Prof. Rohit Mukherjee



"When I reflect upon those days, I feel that the students were well connected with the teachers, and many among them are still in touch with me. I have earned a bond and a sense of oneness with the students. After serving as the HoD of the first year for fifteen years, and as a team leader, I always felt that it is very important to strengthen and acknowledge everybody in the team to motivate them and to get every task completed with success".
Prof. Archana Saxena

"Memories of that time are very vivid and unforgettable. Team spirit was extremely high and all of us were very enthusiastic to bring SKIT to a leading position. Students of that time are still in contact. I often recollect those memories to recharge myself".
Prof. Sangeeta Vyas

"It is exciting to see the growth of SKIT since 2000 from 240 students to 4000, excellent placement rewards & infrastructural development. I have really enjoyed my journey throughout".
Prof. Amber Srivastava



"I was the youngest amongst all the faculty members. I still remember that there was no road to SKIT campus as Jagatpura was not adequately developed that time. The first AICTE inspection team was led to our college through muddy tracks for inspection and counselling. The college transport included just 2 cars and if they weren't available, then one had to walk down to the college all the way from the Jagatpura railway crossing. It makes me happy when I see that the institute has come a long way since then"

Mr. M. K. Beniwal



SOME FACTS...

- Our first Principal was Prof. R. P. Kashyap.
- Our first Director was Mr. K.R. Bagaria.
- Our College started with four branches: CS, IT, EE, ECE.
- Old Pharmacy Block was the first structure erected in our college. It got completed in just forty-five days.
- The college started with three classrooms, two tutorials and a few basic labs like Physics, chemistry, EG and computer labs.

Deeds & Destruction

I walk upon this havoc bleed with my children and siblings,
now what yells at me is the cry of innocent dead souls.

The death threatens me tearing apart my beings,
Today my feet burns and i stumble of with nothing but ash and coals.

Through every black sterile spot, devil looks at me, i hide,
what is sorrow? losing every proportion of your but you can't die.
Nailed palms and shackled on cross i found you on my side,
my soul cried ,when wounded on their back my mothers lie.

Was it my mistake to create you my son?

where were your values when you did this devastation?

What i gave you was a religion & you served the deleterious gun,
what i gave you was a family & what you did was division.

Sitting in the silence i introspect you all,
again one day divine sun will rise from these darkening clouds.

That day you will revive, be humans and you shall,
or I'll portrait the same & there will be no one to put you in shrouds.

Vinayak Sharma, II B.Tech., Dept. of EC

Time Stops For Neither

It's getting harder to breathe in this world of desires,
people i trusted shattered me in pieces and burned me in fires.

still there's a desire to name myself in this crowd,
but now i only wish to be in air and in world of White shroud.

From these grievances these ashes are lighter,
For i will die and men may cry, but time stops for neither.

To the roots of throat my tongue is dry,
it seems i lived in heaven now I'm here to die.

Today my lips tasted water and my mind felt numb,
my veins seems still and it's impossible to stand plumb.
my life is running as fading memories of a dying fighter,
For i may die and may cry, but time stops for neither.

Vinayak Sharma, II B.Tech., Dept. of EC

Alzheimers

Do not ask me to remember, Don't try to make me understand
Let me rest and know you are with me, Pat my back and hold my hand
I am confused beyond your concept, I am sad and sick and lost
All I know is that I need you, To be with me at all cost

Do not lose your patience with me, Do not scold or curse or cry
I can't help the way I am acting, Can't be different though I try

Just remember that I need you, That the best of me is gone
Please don't fail to stand beside me, Love me till my life is done

Kanika Agarwal, I B.Tech., CS

COVER STORY

ROOF TOP PV POWER PLANT WITH NET - METERING & INTERCONNECTION

Solar energy is radiant light and heat from the Sun, harnessed by using a range of ever-evolving technologies such as solar heating, photovoltaic, solar thermal energy, solar architecture and artificial photo synthesis.

Solar photovoltaic based power and energy systems are gaining recognition due to availability and high solar Isolation in most parts of India and also due to their inherent advantage of a direct conversion to power unlike a solar thermal system. Solar photovoltaic technology has some positive features like its application, its advantage as a stand-alone system, environment friendliness and in being an inexhaustible source of energy.

Solar Cell or PV Cell

A solar cell is a device that converts the energy of sunlight directly into electricity by the photovoltaic effect. Assembling of cells is used to make solar panels, solar modules or photovoltaic arrays. Photovoltaic is the field of technology and research related to the application of solar cells in producing electricity for a practical use. Solar cells can be connected in series or parallel, virtually, in any number and combination.

Photovoltaic (PV) Systems

A Photovoltaic system is composed of interconnected components, ranging from powering a small device for feeding electricity into the main distribution grid. The two main general classifications of Photovoltaic system are

- Stand alone
- Grid connected system

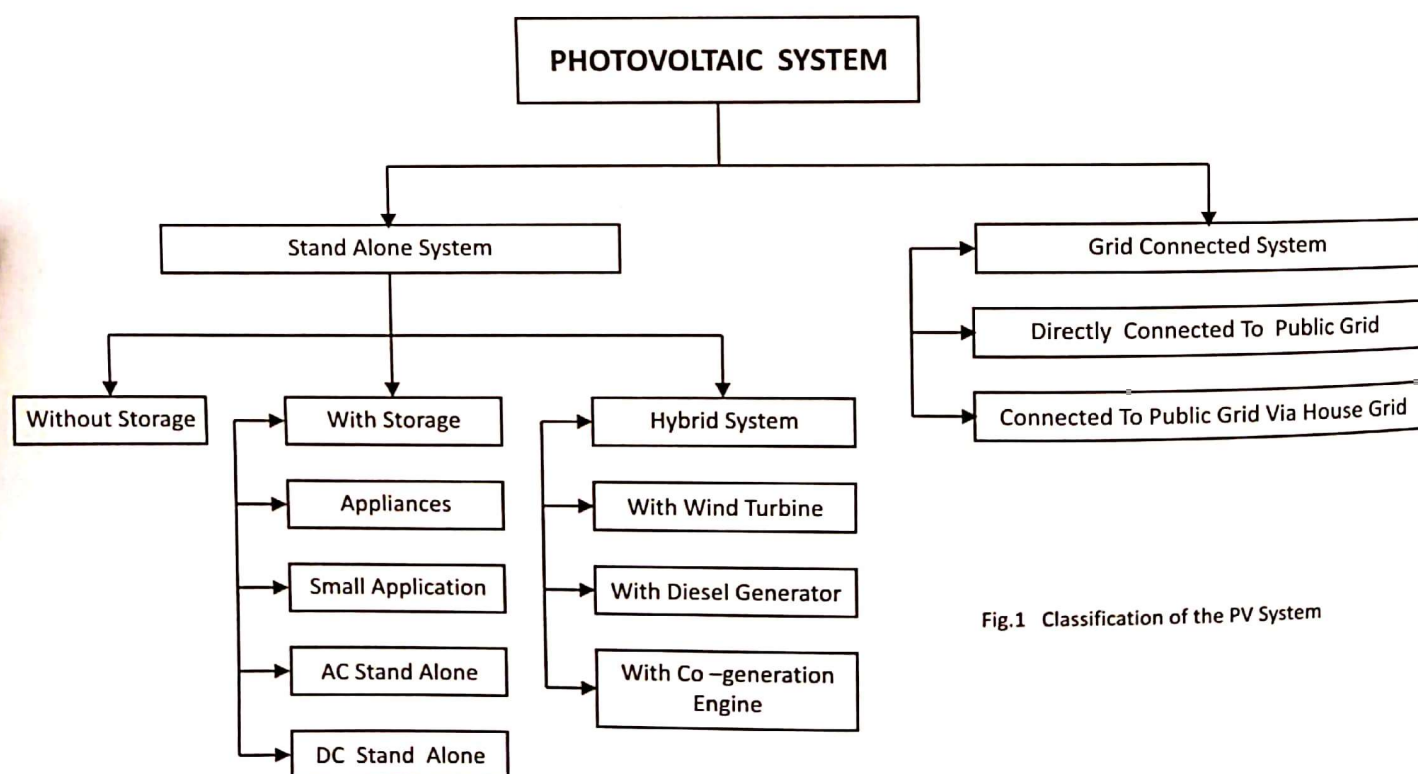


Fig.1 Classification of the PV System

STAND-ALONE OR OFF GRID PV POWER SYSTEM

1. Without Storage Systems – The Stand-Alone PV systems are designed to operate independently of the electric utility grid and/or are generally designed and sized to supply certain DC and or Ac electric loads (Fig 2). The simplest type of stand-alone system is a direct coupled system, where the DC output of a PV module or array is directly connected to a DC load. Since there is no electric energy storage (batteries) in direct coupled systems, the load operates during the sunlight hours, making these designs suitable for common applications such as ventilation fans, water pumps & small circulating pumps for solar thermal water heating system.



Fig.2 Direct coupled stand-alone PV system

2. With Storage Systems

In many stand-alone PV systems, batteries are used for energy storage. Excess energy produced during times with no or Low load, charges the battery, while at time with no or too low solar radiation, the loads are met by discharging it (Fig3).

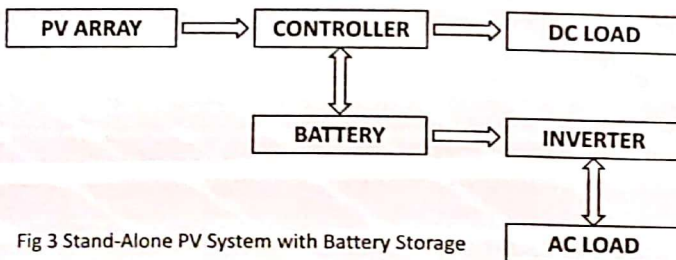


Fig 3 Stand-Alone PV System with Battery Storage

3. Hybrid or Direct use PV system- A combination of an on-grid and off grid solar PV system has both the advantages. A hybrid system is connected to the utility grid in case of poor weather or night use but it also has a battery bank to store electricity in case the power of the utility grid is lost. (Fig4)

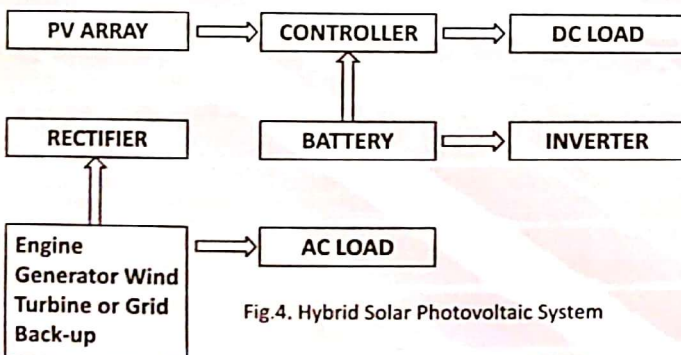


Fig.4. Hybrid Solar Photovoltaic System

GRID CONNECTED OR ON-GRID PV SYSTEM

As an on-grid PV system essentially uses the existing commercial utility system for power, it does not store electrical power (Fig 5)

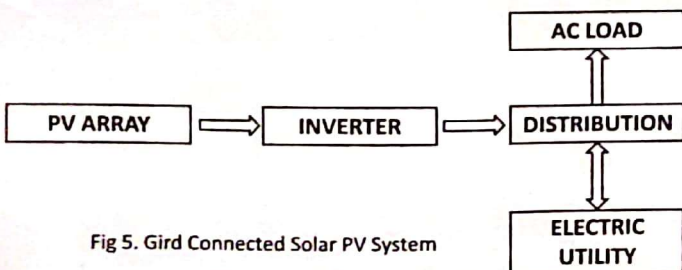


Fig 5. Grid Connected Solar PV System

Net metering –Net metering is the billing arrangement with utility (Distribution company) that determines how credit will be getting for any excess renewable electricity delivered to the grid. A 'Net



meter' tracks both the electricity consumed and the electricity generated by the on-site solar System. When the solar PV system produces electricity, the electricity first serves the on-site electricity demand and any excess electricity is provided to the utility grid. If the solar PV system on the site generates more electricity than the actual use, then the credited bill will be received which can be used to the monthly off-site future usage. This simple billing arrangement can make a significant impact on the economic viability of an investment in solar system. The distribution company (utility) offers the provision of net metering arrangement to the consumer, who intends to install a grid connected roof top PV solar Power Plant in the area of supply on a completely non discriminatory and first come first serve basis. The maximum roof top PV solar plant capacity to be installed at any eligible consumer premises shall not be more than 80% of the sanctioned connected load/ contract demand of the consumer and also the capacity of roof top PV solar plant to be installed shall be more than one Kilowatt peak minimum and shall not be more than one Megawatt peak (1000KWp). The connectivity levels at which the roof top PV solar power plant shall be connected with the grid are as per the table 1.

Table 1 Connectivity Level

S. No.	Connected Load of Consumer	Community Level
1.	Up to 5kw	240 v single phase
2.	Above 5KW & up to 18.65KW	415 V 3?
3.	Above 18.65 KW & up to 50KW	415 V 3?
4.	Above 50 KW /KVA	HT/EHT Level

The roof top solar power plant should be capable of detecting an unintended islanding condition. These systems must have anti-islanding protection to prevent any unfavorable conditions including the failure of supply and also should be equipped with an automatic synchronizing device along-with various protective functions to sense the abnormal conditions on electricity system. It, thus, will cause the roof top PV solar power plant to be automatically disconnected from electricity system or to prevent the roof top PV solar power plant from being connected to the electricity system inappropriately. Fig 6 shows a schematic arrangement for interconnection the roof top solar power plant with grid (source RERC Net-metering regulation 2015)

ENERGY ACCOUNTING & SETTLEMENT

A bidirectional (Net Meter) shall be installed by utility company (Distribution Company) at the point of interconnection which shall be capable of measuring difference between the electricity supplied to the eligible consumer from the Distribution Company and the electricity delivered by the solar system to the electric grid. Separate meter shall be provided for measuring quantum of solar energy generated by the eligible consumer. SKIT M&G, Jaipur, became the first campus in Rajasthan to have installed a roof top 400 kW net meter solar power plant. This solar power plant will annually generate nearly 6 Lakh units of electricity cutting 510 tons of CO₂ emissions that shall contribute towards saving nearly 15,000 trees annually. The Solar Power Plant was formally inaugurated at the campus by the Honourable Minister for Industries, Government of Rajasthan, Mr. Gajendra Singh Khimsar and Shri B.K.Doshi, IAS, Managing Director Rajasthan Renewable Energy Corporation on 20th October, 2015.

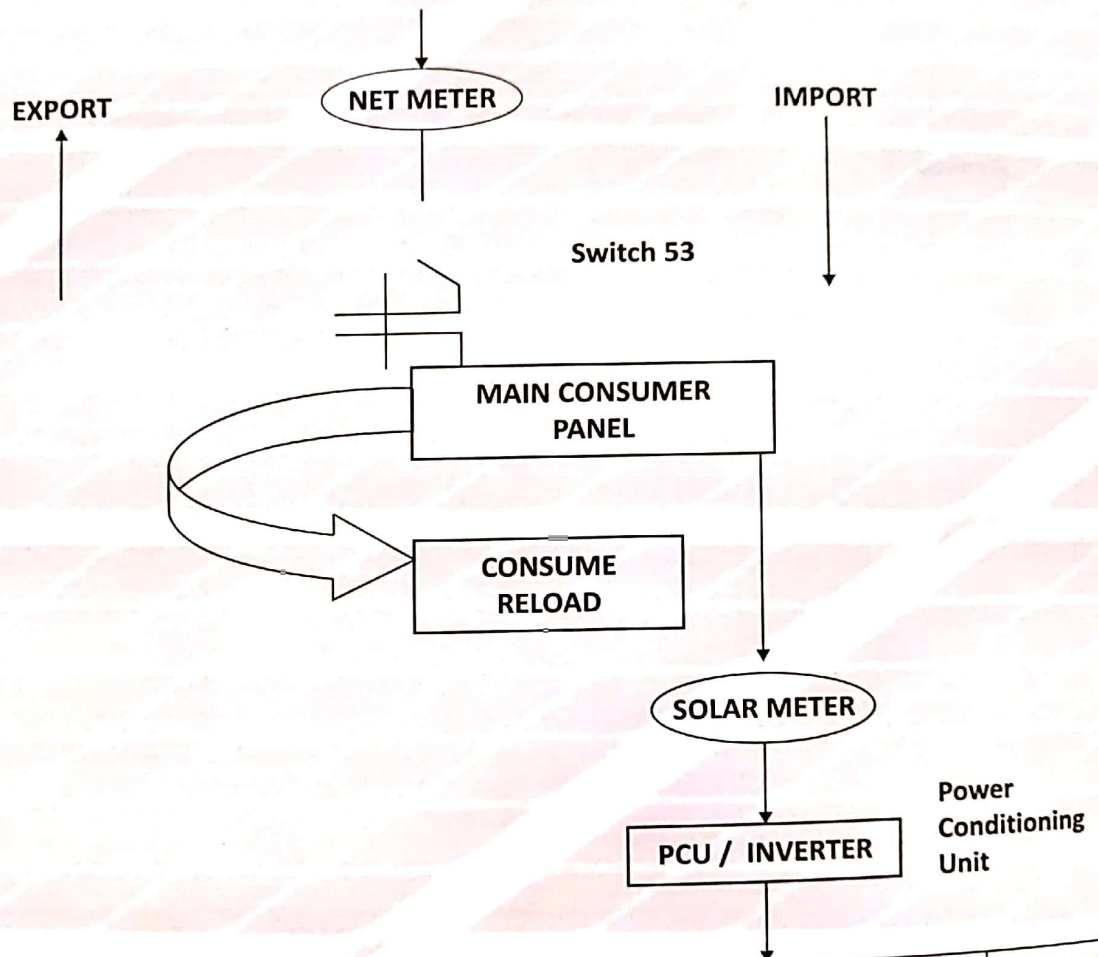


Fig 6 - solar generation shall be connected with the grid. When the grid fails the inverter controlled switch S3 opens and the restoration of the grid S3 closes.



Prof. (Dr) Sudhir Kumar Calla
Director (D&W)

COCHIN-WORLD'S FIRST FULLY SOLAR POWERED AIRPORT

Cochin International Airport Limited in Kochi, Kerala (India) has become the first airport in the world to be powered entirely by solar power. A 12 MW solar PV plant, spread over 50 acres, was inaugurated on 19th August 2015.

The renewable energy generated by the solar farm will prevent approximately 10,700 tons of carbon dioxide from being released into the environment each year-the equivalent of removing approximately 2,000 cars from the roads.

It is expected to generate more than 12.5 million kilowatt hours of electric energy annually, enough to power more than 13,000 average Indian homes annually.

Technically speaking, the airport is now grid neutral, as it will give back more than it consumes from the grid. The newly installed solar power plant can generate between 50,000 to 60,000 kWh per day.

The airport has another 1 MW solar PV plant in addition to a smaller grid-connected 100 kW rooftop system, both of which were installed in 2013.

The electricity generated from the system will be fed into the power grid and the airport will use equivalent power from the utility. The plant is expected to produce much more than what the airport would consume, and for this purpose a PPA (Power purchase agreement) has been signed with Kerala State Electricity Board to sell any surplus power. The 12 MW system was executed by Bosch's Energy and Building Solutions team in India. This is the largest project for the company to date.

About a year back, the Indira Gandhi International Airport at Delhi took the solar plunge with a 2.14 MW plant. Incidentally, the combined capacity of solar installations at Cochin Airport (12+1.1 MW) is more than the solar PV system installed at the Indianapolis International Airport, which holds the record for the world's largest

solar plant at an airport. According to the German company Enerparc, which had commissioned the Delhi system, the only special requirement for putting up a solar plant at an airport is the glare analysis for the solar panels. Solar glare is a concern among pilots, but technology advancements have led to a substantive reduction in the reflective index of panels.

Kolkata's Netaji Subhas Chandra Bose International Airport, which seems to be the next in line to install a MW-scale solar plant, is said to have sanctioned a 2 MW solar PV unit. Though, if the media reports are to be believed, the airport is eyeing a 15 MW ground-mounted solar power plant over 60 acres of land.

The Airport Authority of India (AAI), which operates 125 airports across the country, including the Cochin and Kolkata airports, has decided to build solar power plants at about 30 of its airports. AAI has plans to install 50 MW capacity plants in the first phase (by 2016), which would be enhanced to 150 MW over a period of time. The plants would be established on surplus land available at these identified airports or on the large rooftops of the airport structures.

A MoU was signed between AAI and Solar Energy Corporation of India (SECI) for construction of these solar plants. India has 136 airports, some of which are spread over vast pieces of land. For example, the Hyderabad International Airport is spread over 5,400 acres, while the one at Chennai sits over 4,000 acres. Large-scale solar plants are possible on many of these. The one at Hyderabad, for instance, can house a 25 MW system.

On the whole we can conclude on the note that- Solar energy is a big step towards use of green power and India has proved herself pioneer in it.

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Himanshu S. Rathore
Mechanical Department



A TRANSPORTATION BOON: JAIPUR METRO

With rapid industrialization, resultant commercial development and increasing population, the transport system of the city was found to be insufficient. As a result the government of Rajasthan decided to start Jaipur Metro to overcome this problem.

Jaipur Metro Rail Corporation (JMRC) was established on 1st January 2010 with Nihal Chand Goel as the Managing Director. The construction work of Jaipur metro was started on 24th February 2011. JMRC consulted DMRC on rapid transit operation and construction techniques. The phase-I of the project was from Mansarovar to Badi Chaupar which was further subdivided into phase-IA (Mansarovar to Chandpole) and phase-IB (Chandpole to Badi Chaupar). The estimated cost of phase-I was 3149 crores. Phase-IA is a 9.63 Km long route consisting of 9 stations which got completed in 4 years making Jaipur Metro one of the fastest project in metro sector. It was given safety clearance by commissioner of metro rail safety in May 2015 and it was opened for public use on 3 June 2015. Civil structure of Jaipur Metro has double storey elevated corridor common for metro and BRTS making Jaipur Metro first double storey metro in India. Phase-IB is a 2.349Km long underground route consisting of 2 stations whose construction is under full swing and is expected to be completed by 2018.

Phase II of Jaipur Metro which is a 23.099 Km long route consisting of 20 stations connecting Sitapura industrial area to Ambabari via Ajmeri Gate and M I Road. The estimated cost of this phase is 6583 crores which includes elevated route of Sitapura to Ajmeri Gate and underground route of Ajmeri Gate to Ambabari due to excessive traffic in these areas. This phase is still under planning stage and expected to be completed by 2021.

Jaipur Metro operates at a frequency of 10-15 minutes between 6:45AM to 9:00PM. The average speed of train is 40Km/hr with a stop of 20-40 seconds at each station. Automated recordings are recorded in English and Hindi. Parking, ATM facilities are provided at stations. Metro has a fire alarm system and rain water harvesting system which was built into design, whereby entire length of the viaduct will act as a catchment for rain water harvesting. Structures created under alternate spans to recharge ground water levels.

The security of Jaipur Metro is under Rajasthan Police. A total of 783 personnel were sanctioned for security of Jaipur Metro. Each station has metal detectors, X-ray baggage systems.

Elevated stations have 15-20 cameras while underground stations have 45-50 cameras whose monitoring is done by Rajasthan Police.

Jaipur Metro will overcome the problem of traffic in Jaipur for decades and it is a big step towards making Jaipur a Smart City.

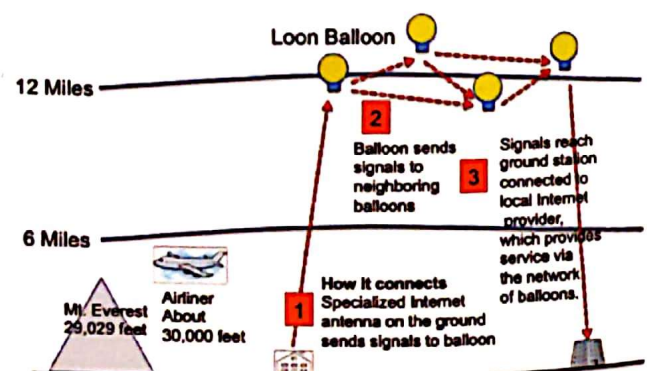
Nishant Sachdeva
Lecturer, Dept. of Civil Engineering

LOON TECHNOLOGY: A FLYING HOPE

Today only 2.7 billion people – a little more than one third of the world's population—have Internet access. People pay heavy price for data plans and thus spend millions of dollars for connections. Unless the infrastructure expansion becomes more efficient, the industry cannot sustainably serve anyone. Bringing majority of the global population into the Internet community is one of the greatest challenges of our generation, and now we see hope from the Google Project Loon – a network of balloons travelling on the edge of space, designed to provide ubiquitous Internet connectivity free of terrestrial constraints and with an affordable rate worldwide.

The technology designed in the project could allow countries to avoid using expensive fibre cable that would have to be installed underground to allow users to connect to the Internet. The loon comprises three parts: envelope, solar panels and equipment (Circuit Board for control, Antenna for communication etc.). The high-altitude polyethylene balloons (envelope) float in the stratosphere, as high as airplanes and the weather. They are carried around the Earth by winds and they can be steered by rising or descending to an altitude with winds moving in the desired direction.

Solar panels supplied by Power Film, Inc about the size of a card table that are just below the free-flying balloons generate enough electricity in four hours to power the transmitter for a day and beam down the Internet signal to ground stations. These ground stations are spaced about 100 km (62 mi) apart, or two balloon hops, and bounce the signal to other relay balloons that send back the signal down. People connect to the balloon network using a special Internet antenna attached to their building. The signal bounces from balloon to balloon, then back to the global Internet on Earth. This makes Internet access available to anyone in the world who has a receiver and is within the range of a balloon (each balloon covering an area of 40 km in diameter). Due to the need of having balloons constantly in range of the receivers, a large number of balloons are necessary.



A user with the specialized antenna sends signals via a radio frequency over ISM bands to a closer balloon. The balloon sends the signals to neighbouring balloons. Eventually, the signals reach the balloon which is connected to the local Internet. The wireless mesh network is constantly adjusting as balloons move. Any balloon is able

to connect the Internet to a base station which has Internet connectivity and then receives Internet data and forwards them via balloons in the sky to the destination. Finally, the balloon closer to the request user broadcasts the data to the grounds via a radio frequency over ISM bands. The special antenna installed outside of home receives data and decrypt the data. The wireless mesh network should be constantly adjusting as balloons move.

Now the time is 2015, and the Google Project Loon finally matured in technology. The novel system is ready to enter the market to provide Broadband Internet connectivity. Currently, the balloons communicate using unlicensed 2.4 and 5.8 GHz ISM bands, and Google claims that the setup allows it to deliver "speeds comparable to 3G" to users. Currently, its lifetime is only a few weeks, but Google anticipates that they can be in the sky hundreds of days in the future.

Rubal Deep Gill,
Sr. Lecturer, Dept. of CSE

TAKE AWAY FROM DIGITAL INDIA PUSH

Nowadays there is huge roar of digital India from America to India, including social media from the Facebook to Google. This is definitely going to turn up the future of India. Let's have a look at what is going to happen through it. The first day of The Digital India Week saw the top industry houses pledging investment worth Rs. 4.5 lac crores in various technology ventures that can potentially add 1.8 million jobs. All the prominent business houses like Reliance, Aditya Birla Group, Sterlite Tech. etc. committed to invest a huge sum of money in the upcoming days. Apart from the investments, Mr. Narendra Modi also announced a slew of digital programme Swacchh Bharat Mobile App to achieve goals, e-sign using the Aadhar, digital lockers to store documents, e-hospital system for important health care services such as online appointment, registration, fee payment, fixing doctor's appointment & health record, national scholarship portal, centre of excellence on internet on things Bharat net programme as a high speed digital highway to connect all gram-panchayats of country. It will be the largest rural network in the world, also a high speed digital highway to make the government service easily accessible & more efficient & also the deployment of WiFi hotspots across the country. Now as a citizen of India & as an engineer, I'm forced to think that digital India is a boon for all for us. Digital India program will push the country into club of developed countries.

Himmat Singh
I B.Tech., Dept. of EE

"INDEED, THE WOES OF SOFTWARE ENGINEERING ARE NOT DUE TO LACK OF TOOLS, OR PROPER MANAGEMENT, BUT LARGELY DUE TO LACK OF SUFFICIENT TECHNICAL COMPETENCE."

NIKLAUS WIRTH

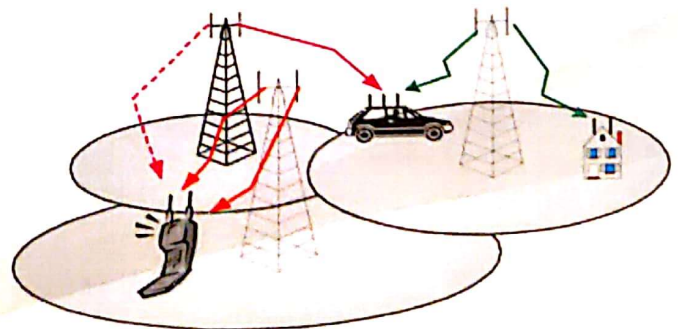
MIMO TECHNOLOGY FOR WIRELESS COMMUNICATION SYSTEM

MIMO is a new wireless technology conceived in the mid 90s. It is based on an entirely new paradigm for digital signal processing that multiplies the data rate through wireless communication products. It greatly improves the reliability, range and robustness of the connection providing a much better user expertise that is closer to wired Ethernet quality. MIMO is effectively a radio antenna technology as it uses multiple antennas at the transmitter and receiver to enable a variety of signal paths to carry the data, choosing separate paths for each antenna to enable multiple signal paths to be used.

MIMO technology has attracted attention in wireless communications, because it offers significant increases in data throughput and link range without additional bandwidth or transmit power. It achieves this by higher spectral efficiency and link reliability or diversity, because of these properties, MIMO is an important part of modern wireless communication standards such as IEEE 802.11n (Wi-Fi), 4G, 3GPP Long Term Evolution, Wi-MAX and HSPA.

FORMS OF MIMO:

1. SISO: Single-Input Single-Output (SISO) is a radio system where neither the transmitter nor receiver has multiple antennas.
2. SIMO: Single-Input Multiple-Output (SIMO) is a degenerate case when the transmitter has a single antenna.
3. MISO: Multiple-Input Single-Output (MISO) is a degenerate case when the receiver has a single antenna.



APPLICATIONS OF TECHNOLOGY:

As per the recent news, it is expected by 2020, 5G cellular may spawn to new air interfaces as well as new antenna designs based on emerging massive MIMO technology, experts here generally agree that the advances of 5G will depend heavily on use of millimetre wave frequencies and massive MIMO antennas, most of the interest and benefits of 5G lies in use of millimetre wave bands around 28 to 90 GHz.

Harshal Nigam
M.Tech (Digital Communication)

KALEIDOSCOPE

DO NOT WAIT FOR THE NEXT TIME

Before writing this article, I had attended a seminar on the topic "How to Get Success in Life" and "How to Keep Yourself Motivated". I was not satisfied, yet I knew there is something wrong in my efforts and I had a little idea what it was. Then I introspected my life period since the time I decided my first goal in class 8th till coming into the 3rd year of my engineering. And I found that I had not achieved a single goal as yet even for those I had promised myself and my parents. For some moments I wondered if I was weak? Then suddenly I heard my heart's voice and it asked "when did you make efforts seriously"? Another thing which I analyzed was that I always keep the things for next time. The positivity of thinking about multiple chances proved to be my biggest mistake. Every time when I come across an opportunity, I take it lightly by expecting that "there is always a next time". But the reality is that there is no next time. Waiting for the next time may change your entire life.

As I concluded this, I felt that I was no longer waiting for the next time. This time I am devoting my energy to my goals and waiting to change the opportunity into success. Therefore, I want to convey this message to all of you:

*Do not wait;
The time will never be just right.
Start where you stand, and work;
With whatever tool you may have.
With your command and better tools*

Mukul Pandya
III B.Tech., Dept. of ME

INDIAN YOUTH

India is one of the most populated countries in the world. It has a large population of youngsters. Every country has youths; it's up to us how we make them grow. Today's Indian youth is going everywhere in the world. Also we find them in every field. Now is the time to come out of the abyss and present ourselves as one of the best countries. The Indian youth is a group which is divided. Some of us are going to successfully make a career and others are going on the wrong path. The development of a country depends on its youth. We all have so much potential that I don't know what we are waiting for. Just come out of your shell, use your abilities to the full and see what wonders happen. Indian youth has already started migration to foreign countries. But if we use our strength, we can make the world move towards India for employment, research and development. As it is we are benefiting others, not ourselves. So get ready, folks, we cannot settle for less than victory.

Komal Gupta
I B.Tech., Dept of EE

I believe IN THE
POWER
OF POSITIVE *thoughts.*

THE POWER OF THOUGHTS

One of the greatest regrets one can imagine is not fulfilling the potential of your own mind. It's like spending an entire life carving something, only to realize too late that it was always with you, in a package you didn't care to open. Such is the power of the mind. It holds within all possibilities you can imagine. However, you do need to unpeel the wrapping and get a singular focus of what you intend to do with that fearsome power, once unleashed. Life, it seems does not follow the path of our desires and strategies as much as that of our intentions and beliefs. To know and accept what you desire of the future, attracts that same reality to you. The mind's function is to create coherence between beliefs and reality. If you believe something, positive or negative, the mind creates that reality for you. A negative belief can hurt or kill as much as a positive emotion can heal and revive. The real challenge lies in unravelling the gift of the mind and then harnessing the force thus unleashed. Being aware of our thoughts and directions they are taking is an important tool in handling them. One must constantly plant thoughts and weed out unwanted negative stuff. You will soon realize how easy it becomes to do so. Most people do not realize that Mind can only think thoughts we allow it to.

Tushar Chouhan
III B.Tech., Dept. of ME



WOUNDED LOVE

When I take off my jacket I feel cold. When I wear my jacket again it feels too hot. And I end up wanting to take it off again. I feel uncertain and a bit confused." This is the dilemma of a 'wounded lover'. A wounded lover has been hurt and is still hurting to some degree. She or he does not want to love, but still yearns to love and be loved. When the wounded lovers love, they love with caution. Sometimes they are technical and mathematical in their love. They try to calculate how much love they can give without the danger of being disappointed and hurt again. How much is too much love? How much loving someone is 'just fine'. Is there a scale or yardstick? Maybe I can love softly, gentle, or strong? Am I in control of how much I can love?

For a wounded lover, I think they need to accept that being in love is letting go of your power. It is a state of being both powerful and powerless at the same time. Love demands you to have the strength to embrace vulnerability. When you resign your obsession to be in control and let go, you set yourself free, free to be imprisoned in love. Love unlocks your wings so you can join them with another, and together you freely fly in beautiful bondage. Like a freedom fighter in the struggle against apartheid, you cannot resist the urge to fight, knowing exactly well that you might end up in jail or lose your life. What would you choose to do? Hold back the love and be safe? Or let go and accept the possible dangers thereof?

Hemant Kapoor
II B.Tech., Dept of ECE

THE SWACHHA BHARAT ABHIYAN: A SUCCESS OR A FAILURE?

The Swachha Bharat Abhiyan is one of the best steps taken by the Modi government. The Prime Minister himself broached the project to the country. From this we learn that we should make a beginning at our own end if we want the project to succeed. It was liked by everyone because cleanliness brings health and prosperity.

For a few months every citizen of India seemed to believe that we all have to do it and we can do it. We became very conscious about cleanliness. Many cities and states are still working on the project. They are trying to achieve the target. But most people are now taking it lightly. The earlier enthusiasm is gone. The project seems abandoned midway in many cities. We have to start again and see it to its completion. Half hearted efforts will not deliver the goods. It shouldn't be made mandatory, but the people should be made to realize that they will be helping their own cause by making it successful. Then they will always find time for it.

The earth is so beautiful. It is a heavenly place. We should make it more beautiful. Please don't turn it into a huge dustbin.

Jyoti Yadav
I B.Tech., Dept of EE

COMPETITIONS @ THE SKIT TIMES

Dear Readers

Roll up your sleeves and showcase your talent in our upcoming competitions. THE SKIT TIMES announces competitions for all readers in the following fields:

**PENCIL SKETCHING ON
THE THEME 'NATURE'**

**PHOTOGRAPHY ON THE VARIOUS
FACETS OF SPRING**

The entries can be submitted to edskit@gmail.com
on or before 15th february 2016.

The best entries will find a space in the next issue



Mystery

Wasting your time for someone who doesn't deserve
Spending your time for who doesn't care about your serve
Stand up don't shed tear on someone
be strong and wait for time to come
There is someone who is waiting for you
there is someone in dark who is making for you
You are precious you are adorable
Just leave this time to see awesome things without bobble
Just give yourself some special time
Just spend some moment with yourself till you smile
Look in mirror there is a beautiful lady there
Oh! It's just you look and admire with care

Kriti Tuteja, II B.Tech., Dept. of EC

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FIVE FORMULAS TO SUCCEED

1. CLEAR VISION+INTENTION+PURPOSE+FOCUS=SUCCESS

A vision is many things: the original blueprint of the outcome you desire, a thought picture turned into visual action, a full expression of you. If you have a vision and a keen desire, it is within your power to make it happen. You would not have been given the vision the ability to make it come true. Visions are so powerful, it is essential that you know exactly what you are visualizing and why. Intention and purpose are partners. Your purpose is your mission; it must also be very clear. If it is your intention to truly make your dreams materialize, a commitment must be made to focus on the outcome you desire. Make your goals realistic, specific and have a definite timetable for realizing your objectives.

2. AUTHENTICITY+PASSION+COMMITMENT=SUCCESS

Being authentic means that the real you is showing up all the time through thoughts and actions. First, you should be true to yourself. You should be dedicated to knowing what you are all about: your integrity, passion, strength, honesty and reliability. Passion is what stirs one from within, motivates you, inspires you to get up each morning. Passion is a unique message that you want to bring to the world. Commitment is a 'can do' attitude. You must have an abiding passion to stay committed to your project until it is complete.

3. SPIRITUAL PRACTICE+FLOW=SUCCESS

A spiritual connection is essential for the unlimited and energetic flow in moving forward on your journey to self commitment and success. How does your spiritual path make a difference not only in your own life but how might it connect to a global flow of energy. Your personal definition of spirit is of your own making, touching the honesty of your own soul. You get to choose how you wish to walk in this world and how you want to be connected to a higher source.

4. ENERGY+EXPECTATION+PERSEVERANCE=SUCCESS

Being energetic and creating reserves of energy are essential for success. One way to create energy is by taking extremely good care of yourself- even being selfish with your needs. One way to identify whether or not your expectations are realistic is to take a piece of paper and make two columns. On one side write your own expectations, on the other write how you can accomplish them. If you believe in yourself and are committed to your processes, you will solve every conceivable problem that appears. You know what the reward will be if you persevere with your plan.

5. STRONG MISSION STATEMENT+PLAN OF ACTION +FOCUS =SUCCESS

Your mission in life is simply your purpose, and your purpose your mission. If you don't know where you are going, that is exactly where you will end up: nowhere! If questions arise and you are not sure of the answer or direction, look to your mission statement to see if it supports the quandary. There are hundreds of books in the market to help you specifically with business plans. The goal is to move into action at whatever pace you choose to set and keep a steady course of completion.



"I cannot give you the formula for success but I can give you the formula for failure, which is: Try to please everybody."
Herbert Bayard Swope

Priya Kulhar
I B.Tech., Dept of EE



THE POWER OF POSITIVE THINKING

Sometimes a question arises in my mind: what is thought? In a simple way thought is a natural process. But which type of thought comes in our mind depends on us. Thoughts may be positive or negative. But positive thoughts have a lot of benefits. It's not a secret. When you change your thinking, you change your life.

Today some people are very rich, but they are still depressed. The reasons may be many but the main reason is that their negative

thoughts weigh heavily on their minds. This is a great problem before the world. It is not that we cannot think positively. But a lot of practice goes into it. We have to convert our negative thoughts into positive.

What are the benefits of positive thinking? When we think positively, we can solve any problem easily. Positivity is an art. It is scientifically proved that our thought possesses great power. Now I would like to explain my views with the help of LOA.

But what is LOA?
LOA is the Law of Attraction.

Our thoughts have a magnetic power. It means that our thoughts attract incidents. If we think positive thoughts the same events will happen as we desire. And if we think negatively, negative events will follow. Thus incidents depend on thoughts. Positivity helps things happen positively.

By practicing positive thinking we can change our life. We increase our self confidence which is a sure remedy for all ailments.

Amal Singh Naruka
I B.Tech., Dept of EE

Escape

After so many hours spent in the room,
One wonders what the room will do.
Whether speech or action will be first,
And whether the weather will be first to begin.
Such long inaction is unnatural.
But why should it happen to you,
When outside, the street has silver cars,
All unoccupied, equipped and ready for departure
Even the kitchens are ready with pans,
And dishes for something
Heretofore unplanned.
The people who pass, whisper and stare,
Then say, "house" why not accept the waiting and
Forgo the known?
After all, occupancy is only a matter of making up
One's mind.
The silver cars are square and the room is long.
Escape the lone, forgo the known.
Life has much more, Watch to explore!!!
Escape the lone.....

Nikita Gupta, III B. Tech., Dept. of IT

The power of prayer is divine

which helps the world to shine
People pray for their petty needs
and remember god in aim of joining their broken beads.
Prayer needs not lounge but the heart
and helps all the odds beat.
Prayer can heal one's soul
And transform man into happy soul.
Oh Heavens abode bask us in your presence forever,
Give us the strength so that we can fight for ever and ever.!!!

Tanvi Jhamb, III B. Tech., Dept. of CS

अभिव्यक्ति

छिपी खुबसूरती

असंभावनाओं से भरे इस संसार में हम रहते हैं, जहाँ आपको आराम और सुकून मिलने की संभावना काफी कम है। वहाँ हम अपने रुतबे और रुपये से ऐश तो खरीद सकते हैं मगर वह आंतरिक भूख नहीं मिटा सकते। वह भूख जो किसी भी तरह नहीं खरीदी नहीं जा सकती। अपनी देह और झूठी शान को आप सुसज्जित कर सकते हैं, मगर अंतरात्मा की उस पूरी ना हुई तृप्ति का क्या ?? आंतरिक दृष्टिकोण का क्या ??

जीवन की इस दौड़ भाग में कहीं हम इतने आगे ना निकल आये की अपने और दुसरो के भीतर की छिपी खूबसूरती की करुण पुकार न सुन सके.. फलस्वरूप इस जीवन रूपी बाग को ही उजाड़ बैठे। दुसरो से यहाँ अर्थ है वे जो आपके लिए चिंतित हो, आपसे प्यार करते हो।

हम कैसे जानेंगे दुसरो की छिपी खूबसूरती ?? उसके लिए आपको उनके प्रति नजरिया और सोच में सुधार करना होगा। अगर फिर उस कुछ समय के ऐश को बड़ा सुख मान बैठे, भ्रम में जिए और उस नजरिए को नहीं बदलना चाहा तो बड़ी मुसीबत में फँस गए। वह मुसीबत जो आपको अकेला बना देगी इस बड़े गोले पर ना समझ पाये तो मुश्किल होगा।

हाँ—और बाह्य आकर्षित करने वाली खूबसूरती उम्र के साथ ढल जाती है। जो स्वयं या दुसरो की छिपी खूबसूरती को समझ गया उसने मानो वह प्राप्त कर लिया जो कम लोग कर पायें। बाह्य सुंदरता केवल मात्र कुछ समय के लिए लालक्षित करेगी पर छिपी खूबसूरती आपमें जिवंदावली और उमंग भर देगी। जिसे ले आप जहाँ—तहाँ उड़ सकेंगे।

अगर आप दोनों खूबसूरतियों का अंतर समझ गए हैं फिर भी अनजान बनते हैं तो आपमें एक विकार उत्पन्न होगा जो निश्चित ही विस्तारित होगा। दोनों के बीच आप ऐसे फसेंगे मानो दूब रहे हो। तो बेहतेरीन व्यक्तित्व वाले लोग ही अंदर की उस रोशनी को पहचानेंगे और सकारात्मक सोच को बढ़ा पाएंगे। क्योंकि बाह्य खूबसूरती कम दिखाई पड़ती है हमें उसके करीब जाना होता है जोकि गलत है।

याद रहे बाह्य आकर्षण आपकी नैया डूबा सकता है पर आंतरिक सोच नहीं। इन सभी को जाने और आराम सुकून पाने की संभावनाएँ बढ़ाएँ। तृप्ति प्राप्त करें और उस मुसीबत से निकल कर अपना जीवन सुखमयी बनायें।

राहुल सोनी, द्वितीय वर्ष, विद्युतीय अभियांत्रिकी

जिन्दगी एक मकड़ जाल सी

अजीब सी उलझनें हैं ये, जिन्दगी भी एक मकड़ जाल सी
गिरती हूँ, सम्पलती हूँ, फिर से उलझती जाती हूँ।

इस बार लगा, जाले कट गये हैं, बीबारे सारी भुल गयी थी
एक बीवार का एक कोना छूट गया, मकड़ी का एक जाल फिर से जुन गया
नबरे पड़ी, एक छोटी सी मकड़ी दिखी, कीड़े को पास देख उसने लपकने लगी
कीड़े का शिकार हुआ, जाल में फंसा, तबपा, करसाया, छटपटाता रहा
मैं बचा सकती हूँ, उसे जाल काट के, जुगती गई ताने बाने, अपने विचारों के
तभी दिल ने मुझसे सवाल किया, बचाना तो है, पर किसे ??

कीड़ा निकला था दुहने, अपने सिये आसुर,
बेचारा बन बैठा था वह खुद मकड़ी का आशिक
कीड़े को बचाना है तो मकड़ी की जान जाती है
मकड़ी पे रहम किया तो कीड़े की जान पे बन जाती है
पर प्रकृति के शाश्वत नियम को भी नहीं भूला सकती मैं
एक दूसरे के पूरक है सभी इस जीवन चक्र में
किसे को मरने दें, किसे बचाये, इसी उलझन में रही
कभी खुद को मकड़ी, कभी कीड़ा सा महसूस करती रही
दिल में दर्द है, तबप है, दया भी है, देरी हुई और कीड़े की जान गई
और एक बार फिर से मैं, जिन्दगी के मकड़ जाल में उलझ गई
नेहा कपूर, वरिष्ठ व्याख्याता, कम्प्यूटर अभियांत्रिकी

या अल्लाह ! या मौला ! रहम कर...,
शुक कर, महर कर,
बन्दो पे अपने नजर कर, हर पहर कर, महर कर

बेतरसीब उलझने हैं, हैं कई अनगिनत सवाल मेरे...
साचारी सी छापी है, ना आवे जो अब जवाब तेरे...

मुझसे जो हम दूर हुये हैं, क्यों हम इतने दूरे हुये हैं
जुगति जो हमारी हुई है, क्यों जुड़ि ये भ्रष्ट हुयी है।

आज देख ये दूरी, इस दुनिया का झल, ये आज औसु भर-भर रोती है।

नारी की झलत है बेझल, मासूम बच्चे हैं फटेझल
देश हो रहा है भ्रष्ट, धरोहर हो रही है नष्ट
इसकी संस्कृति हो गई है बागी और सारी आवाज हो रही है बानी
इंसानियत की उड़ रही है धण्डी, सभी हो गये हैं लालची और कपटी
अपनी सुरक्षा पे लग गये सवालिया निशान,
अपने ही कर रहे हैं अपनों का विनाश
ये देख भी लोग पैर की नौद क्यों सोते हैं
खुद भले ही ना बदले, देश बदलने की बात करते हैं।
नेहा कपूर, वरिष्ठ व्याख्याता, कम्प्यूटर अभियांत्रिकी

*Happy
New Year
2016*

*The excitement starts with a new year,
The sorrows end with the new year,
The commitments fulfill with a new year,
Success flourishes with a new year,
Determination builds with a new year,
A new year will become a splendid year.
The hope begins with a new year,
Happy New Year 2016*

THE SKIT TIMES
WISHES YOU A SPLENDID AND
REWARDING NEW YEAR.