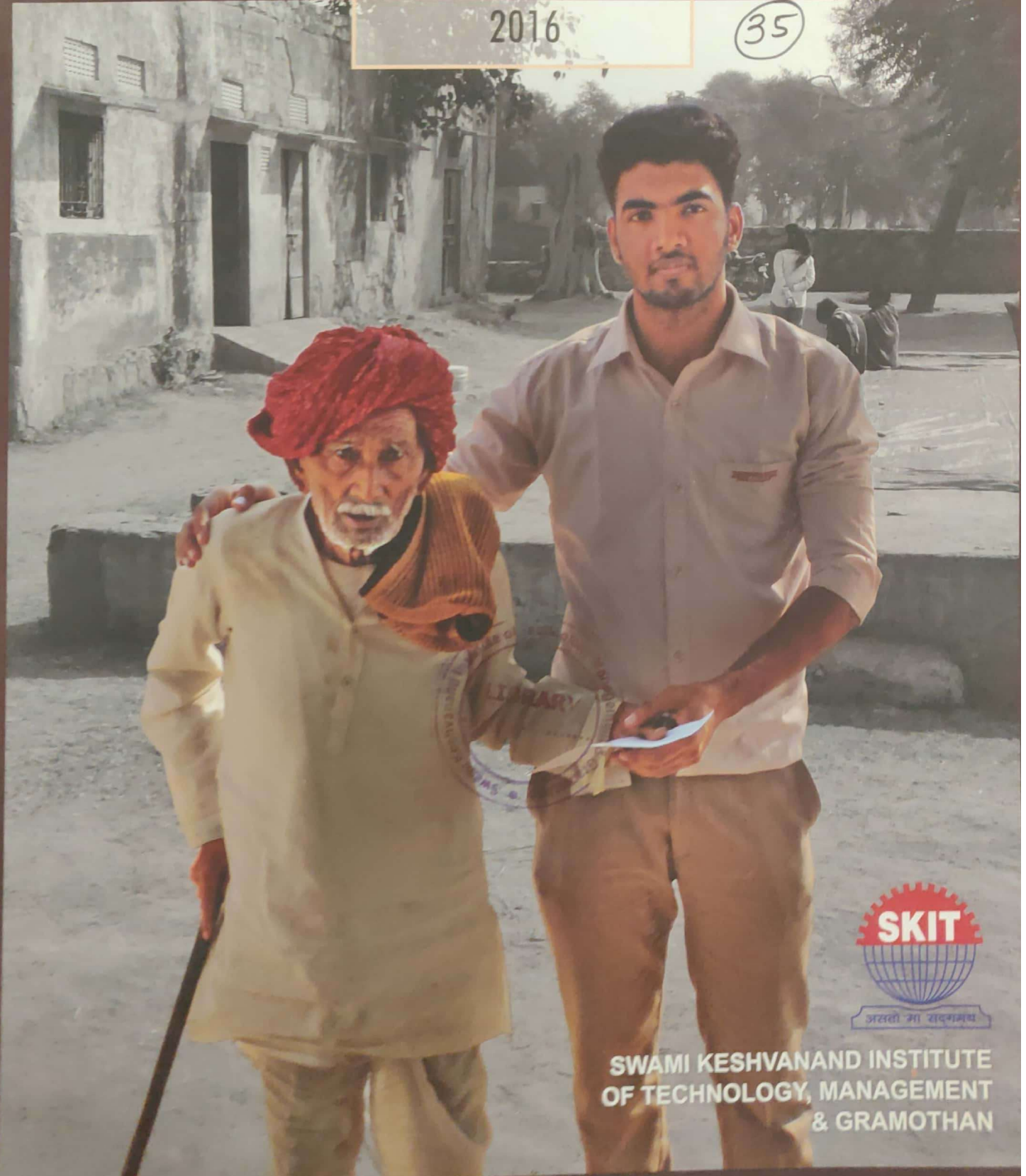


THE SKIT TIMES

ANNUAL ISSUE

2016

35



SWAMI KESHVANAND INSTITUTE
OF TECHNOLOGY, MANAGEMENT
& GRAMOTHAN

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



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(1883 - 1972)

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THE EDITOR SPEAKS

“ *The World of Stories*

All of us share a very memorable association with the phrase, 'once upon a time....' The phrase captures most of our childhood stories and conjures up a fantastic world of imagination, adventure, values and, most of all, the fun attached with listening to them. I often realize that my credulous mind as a child would happily partake in whatever I was told about such stories. I never questioned how Alice would enter the wonderland or how the mysterious witches would enjoy their ride on a broom. The characters from the Panchtantra would come alive to me when animals of different species would hold meetings to address serious and pertinent issues. The Coleridgian idea of 'a willing suspension of disbelief' resonated with my childhood imagination where I kept my critical faculty aside and believed the unbelievable. These fables, fairytales (with characters like dwarfs, elves, fairies and goblins), trickster tales (stories about a character who would violate principles of social and natural order and then would finally get defeated from the fair people), the myths and legends gave us a creative and valuable childhood.



However, these childhood stories have a lot more in store than the moral lessons that we learnt from them. They can also be a professional mentor in our adulthood. The present demanding life seeks a potent guidance for consistent success. Such stories definitely provide us with a mentoring hand and motivate to keep the inner spark alive. One of the famous quotes from Alice in Wonderland mentions the competitive and unyielding spirit and says, 'my dear here we must run as fast as we can just to stay in place. And if you wish to go anywhere, you must run twice as fast as that'. To name a few, the professional qualities of smart work, leadership skills, teamwork, the art of counseling and mentoring, taking the right decision at the right time, respect for one's work, dealing with clashes and disagreements are some of the tips that we get from our childhood stories.

So let's embrace our childhood fancy and enhance our professionalism.

Dr. Neha Purohit
Editor-in-chief

”

Epistle:

A NOTE FROM THE MENTORS

“

It gives me immense pleasure as I unveil the annual issue of THE SKIT TIMES. We have been blessed with a beautiful life by the heavens abode. Our lives have been destined on this earth to do some great deeds and identify our roles so as to serve humanity. Great people who have accomplished success in their lives have also gone through tremendous highs and at times lows and have conquered the quests of life. The courage that is shown when we stand against injustice, our strength of character and following the words of humble personas and helping others are the true measures of greatness. Self-training is also a great virtue because there are so many who think but don't act.

So with an optimistic energy, let us all stand together to rise high and achieve excellence in every endeavour whether it be academics, extracurricular activities or various fields of education.

I congratulate the editorial board of THE SKIT TIMES for their great efforts.

Mr. Jaipal Meel
Director

”



Epistle:

A NOTE FROM THE MENTORS

“

It gives me immense pleasure to look at the timeless efforts of the editorial board. They are working so well to spread an atmosphere of literacy. The magazine itself is a shining star of the college. It is a bundle of pages reflecting the countless tasks and efforts put in by almost the whole college.

Education itself means awareness and hard work. I cannot think of any other piece of work more appropriate than our college magazine. It truly describes the life in our college that is successfully and beautifully woven together. The goal of life is to be a responsible and organized person. And all those who are connected with this magazine are successfully in line to achieve that goal.

Today, where we all are smothered by technology, I feel magazines play a very important role in our life. They not only make us the intellectual readers but also provide us with a totally different perspective to look at today's world.

A wise man once said reading is the safest and sanest addiction in the world. Come and be a part of this journey.

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

”



Epistle :

A NOTE FROM THE MENTORS

“

The power of the written words comes from within the writer. The college has done everything it can to promote this beautiful skill of writing. The college's rise to eminence has been because of these efforts towards the extracurricular activities. The journey of this magazine has been a tumultuous one, but the path has always been clear. And it is the dynamism which the magazine has so incredibly captured since its inception.



Many students have grown and groomed under the shade of this magazine. This venture has been nothing but a success story for all the students. The SKIT times has helped a lot of students to shape their in-built talent into a master piece.

So let us join our hands together to achieve excellence in every endeavor be it education, research, consulting or training.

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

”

Epistle :

A NOTE FROM THE MENTORS

“

Success comes in the dictionary after toil but to achieve success we first have to toil and then success becomes ours.

The road leading to success is not an easy one, it is full of pitfalls. with an unvarying determination and courage, hardwork definitely pays off and success can be conquered.

Success comes to those who aim at it and with positive thinking and elevated spirits one can turn his/ her signature into an autograph. To carve the best out of each student through their impeccable talents, we at SKIT, leave no stone unturned to shape them into a perfect masterpiece.

The SKIT TIMES is not just a magazine but a stage where students share their vast knowledge with others.

I feel highly elated to present this annual issue of THE SKIT TIMES which is a complete book of hardwork and activities done all round the year.

Many congratulations to the editorial board of THE SKIT TIMES.

Prof. Ramesh K. Pachar
Principal

”



CONTENTS

PROCLAMATION

a record of happenings at SKIT

- 07 | Campus Recruitments
- 12 | Pravah 2016
- 15-22 | NEWS FLASH
 - 23 | Department of Computer Science and Information Technology
 - 26 | Department of Mechanical Engineering
 - 29 | Department of Electrical Engineering
 - 31 | Department of Electronics and Communication
 - 32 | Department of Civil Engineering
 - 35 | Department of Science and Humanities
 - 36 | Department of MBA
- 39 | Research Papers Presented
- 43 | Seminar/Conference/ Workshop Attended
- 44 | Research Papers Presented
- 46-48 | Cover Story
- 49-50 | The View: Interviews by The Student Editors
- 51 | Guest Column

CAMEO

an array of clubs

52 – 60

TECH-KNACK

The Mind Speaks...

61 – 70

MELANGE

The Heart Speaks...

71 – 82

- 83 | The Governing Council
- 84 | Our Torch Bearers
- 85 – 87 | Our Erudite Faculty and Committed Staff
- 88 | Our Proud Culminations
- 90 – 91 | सृजन
- 92 | The Trend Setters

PROCLAMATION a record of happenings at SKIT

CAMPUS RECRUITMENTS

SKIT T&P Cell guarantees enhanced skills, right corporate exposure and wide learning. Hence it is a matter of umpteen satisfaction that our students under the guidance of Prof. M.L. Bhargava, Advisor, Mr. Neeraj Dhawan, Training and Placement Officer, Mr. Vineet Jain, Training and Placement Officer performed exceeding well during the following campus drives held throughout the year:

B.TECH. 2015

COMPANY NAME	SELECTIONS
Cognizant	193
Infosys	158
Polycab	05
Infogain	16
TCS	08
AppPerfect	02
IGate	02
IBM	01
Appirio	02
Soctronics Technologies	02
Tega Industries	01
Syntel	03
Metacube	02
Voylla Retail	04
FACE	03
Absolutdata	01
GirnarSoft	01
Salucro Healthcare Solutions	02
AurigaIT	01
Infostretch Solutions	01
Innoraft Solutions	03
BigStep Technologies	02
Avinex Software	01
Moksha Software	03
Mikuni India	04
Gears Energy Solutions	02
Intellipaate Software Solutions	03
Indian Army	01
OnGraph Technologies	02
Total	429

B.TECH. 2016

COMPANY NAME	SELECTIONS
Cognizant	180
Infosys	137
Capgemini	38
Infogain India	15
Soctronics Technologies	10
Adani Power	08
Polycab Wires	04
TCS	04
Tayana Software Solutions	03
Tega Industries	03
Genus Power	07
AppPerfect	03
Nagarro Software	01
Ericsson	02
DRDO	01
Infostretch Solutions	01
Innoraft Solutions	04
AdarshPrime Group	09
Sanmax Technologies	02
Sanmax Inc	01
PortWeb Philippines	01
Sankalp Builder	05
Teleperformance	05
Thrillophilia.com	17
Aashish Group	28
Skilrock Technologies	01
Collabera Technologies	02
FACE	06
ICICI Prudential	09
Mahindra & Mahindra	01
Pompeii Technologies	02
Shriram Transport Finance Company	03
Captain Tractors	01
Total	514 (Till Date)



COMPANY NAME	SELECTIONS
GVK EMRI	3
Gempulse Infotech Pvt. Ltd., (Fullestop)	3
ATCS	3
Nifty Innovations Pvt. Ltd.	3
Neerja Software Pvt. Ltd.	14
Appcino Technologies Pvt. Ltd.	3
Collabera Technologies	2
Kirat Crafts	2
11techsquare Pvt. Ltd.	1
Axel Networks	1
A3Logics	1
Prowess Infosystems Pvt. Ltd.	1
eWIZ Technology	1
J K Technosoft	1
B24 e Solution Pvt. Ltd.	5
PC Support System	14
Wipro BPO	7
TOTAL	411

MBA 2015

COMPANY NAME	SELECTIONS
BMW	4
HDFC BANK	16
AIRCEL	6
IDEA	1
GIRNAR SOFT	1
GENPACT	9
DAINIK BHASKAR	2
MTS	14
ONS GLOBAL, JAIPUR	6
KAIZEN ROBEONICS RESEARCH PVT. LTD.,	2
HUMAN CAPITAL	2
INFOSYS	4
JAIPUR RUGS	1
ICICI PRU	3
SPG INDIA PVT. LTD.	1
CREATION BEYOND IMAGINATION	1
TOTAL NO. OF SELECTIONS (upto May 2015)	73



AADARSH



SANKALP



APP-PERFECT



ASHISH & GROUP



HAPPAY



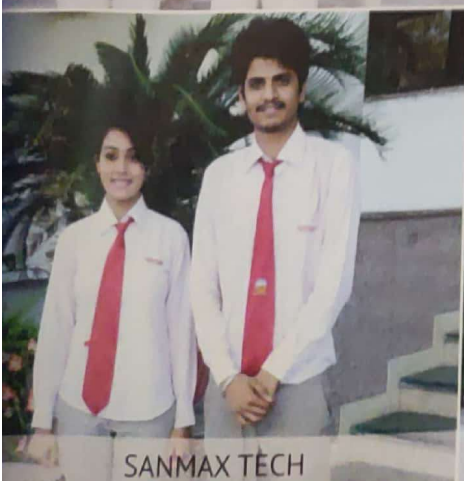
GENUS POWER



ICICI



INFOSTRUTS



SANMAX TECH



TEGA



SHRIRAM



CAPGEMINI



ASHISH & GROUP



INFOGAIN



COGNI



INFOSYS



THRILOPHIA



ADANI



TELEPERFORMANCE



NAGARO



SOFTRONICS



COLLEBERA



JAINAM SHARE
CONSULTANT



MAHINDRA
& MAHINDRA



ERRICSAN



INNORAFT



PURT-WEB



POLYCAD



TCS





SKIT has always been synonymous with great academics, intellect, regular classes but since the past 16 years one word that has been making waves and has become an integral part is PRAVAH. Ever since SKIT's bricks were laid, PRAVAH has been driving hard to outdo itself with every passing year and the results are mind boggling, a footfall of 6000 students, participants numbering from 1000 from 50 colleges across Rajasthan.

The goodwill and the bonhomie that PravaH enjoys has been built over the years can only be attributed to the selfless hard work of the students. Be it the generation of QR codes on sunburn passes or generation of online links, measurement of all lawns through AutoCAD by Civil Engg. students, the credit goes to the students. The learning on the campus regime during PRAVAH helped students' gain an insight into the real world of science and technology. This can be considered as the most rewarding aspect of PRAVAH 2016.

Dedicated to the celebration of creativity, the theme for this year was MUSIC. Accordingly in inaugural function it was world music and in annual function it was folk music. During the fest an array of events including technical, non technical, cultural, social and literary events enthralled the students. The auto expo, Bhagirath, PRAYAS highlighted the social arc. Innumerable literary events like Character Mash Up, Vox Populi, Vak Dwand helped the students

sharpen their vocal potential. The technical events saw an overwhelming response from many colleges battling it out with their wits in events like coding, web development, workshops, seminars. Cultural events like Sur, Thirak, Clash of Bands left an indelible print on the audience. Non technical events like Tug of war, Loop life, Bollywood Mania, Foodies have definitely upped the fun quotient of the fest. The demands of rock music aficionados were catered with SUNBURN campus.

Aaveg provided a platform to promote sports at an intercollegiate level where more than 3000 budding athletes got an opportunity to battle it out with their peers. The adoption of the village Teetariya was the most gratifying aspect of the fest. The coordinators put in their efforts to engage the primary students, numerous activities and conducted several welfare projects for villagers. The effort of decoration team with their colours and frills left all mesmerized. The unleashing of each strand of art was dexterously managed by the team.

The activities of PRAVAH 2016 did not confine for mere six days. It witnessed a gamut of several pre-pravaH events ranging from debates, SKIT IDOL, Keshvanand Jayanti, Foot loose, hindi debate, English debate, installation of water purification system and career counseling seminar at Teetariya.



ANNUAL DAY CELEBRATION



The annual techno-cultural fest of SKIT PRAVAH 2016 culminated with grand annual day celebrations. The ceremony witnessed the presence of Prof. N. P. Kaushik, Hon'ble Vice Chancellor, Rajasthan technical University as chief guest of the occasion and Prof. R. P. Yadav, Former Vice Chancellor, Rajasthan Technical University as presiding guest. The celebrations began with auspicious lamp lighting ceremony paying homage to the goddess of wisdom Saraswati. The guests were offered a floral welcome and were honoured with a shawl and memento. Mr. Surja Ram Meel, Chairman welcomed the revered guests and acknowledged the efforts of students and faculty members in the successful organization of PRAVAH. The annual report of the college was presented by Director Academics Prof. S. L. Surana. The report expounded the academic and co-curricular progress of the SKIT family and detailed the laurels earned by the members in the past academic session. Mr. Anil Bafna, Vice Chairman also addressed the audience motivating them to set new benchmarks and congratulated the participants and organizers of PravaH 2016.

The twilight of the sky accompanied by mesmerizing and fervent dance performances on the folk dances of every state justified the theme of PRAVAH "Music". The presiding guest addressed the students emphasizing the importance of Innovation in India. He stressed that the innovation and judicious utilization of energy sources could be the key to sustainable development in the future. The chief guest Prof. N. P. Kaushik commended the efforts of SKIT in organizing such majestic programmes and expressed his wish to attend more such programmes in future. The programme also featured a felicitation ceremony. Prof. N. K. Banthia, Head, Dept. of ME, Dr. Niraja Saraswat, Convenor, PravaH 2016, Mr. Hazari (President), Mr. Monu, Mr. Sunil Sharma, Mr. Karan Singh, Mr. Mukesh Kumar, Mr. Ramvatar were awarded for their outstanding contribution in diverse fields. The final vote of thanks was delivered by Director (D&W) Prof. S. K. Calla who expressed his gratitude to the PravaH organizing committee and students and volunteers for their painstaking efforts to make PRAVAH 2016 a success it was. All good things must come to an end; so did PRAVAH 2016 with a promise to be bigger and better next year.

NEWS FLASH

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. Jalpal 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.



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, Babu 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

QUIZ COMPETITION

Swami Vivekanand Kendra, Kanyakumari, organized a state-level youth motivation competition named as Safal Yuva- Yuva Education 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, Chemistry Department. All the participants were awarded a certificate of participation along with a book on the philosophy of Swami Vivekanand.

VANDE MATARM RECORD

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

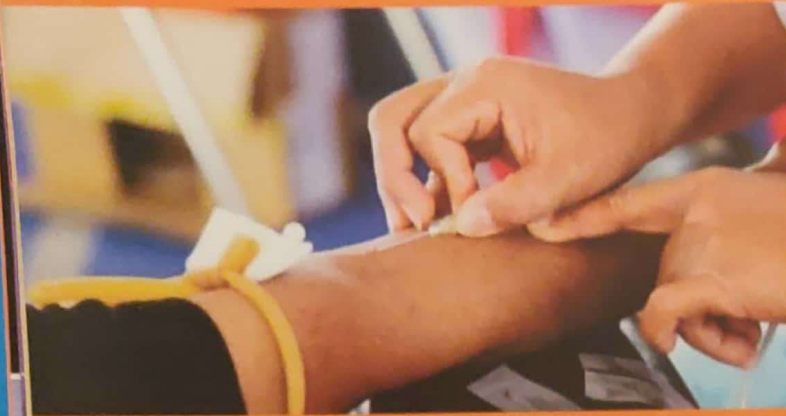
THE AWARD OF GLORY

Rajasthan Technical University (RTU) and Community Multimedia And Infrastructure (CMAI) jointly organized a Rajasthan Education Summit and Awards 2015 at Jaimahar Jaipur on 26 August. The summit was based on the new initiative started by our Hon. Prime Minister, Mr. Narendra Modi '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), 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 will provide high quality education to the aspiring students so that they could give wings to their dreams. Our Director Mr. Jaipal, Director Academics, Prof. S.L Surana, Director(D&W) Prof. S.



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



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.





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.



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 for the programme, gave his inputs on 'Techniques of Teaching', 'Classroom Communication', 'Explaining Skills', as well as on 'Accreditation PEOs, POs and Cos'. Programme Coordinator, Mr. Dheeraj highlighted specific faculty roles in the accreditation process. He also gave inputs on preparing an effective course file. Another resource person, Dr. S.P. Garg, Dean, DMS in his interaction with participants, discussed about 'Effective Teaching and Learning by a Good teacher'. The participants also had privilege to listen to S.L.Surana, Director (Academics) who explained about various rules and regulations and expectations from faculty members of the Institute. The programme observed the Valedictory function on 21st November, 2015 where 32 participants from different departments of the Institute were awarded certificates by Dr. N. K. Banthiya. Dinesh Kumar Sharma, Programme Co-coordinator proposed a Vote of Thanks at the end of the session.

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 of Rajasthan and other states, registered themselves and took an active part in the workshop. The workshop was inaugurated by 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, D

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. Sangeeta 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.

REPUBLIC DAY CELEBRATION

The institute celebrated the 66th Republic Day with great fervour in an atmosphere of patriotism and veneration for the freedom fighters. The celebration began with the tricolor hoisting ceremony. Mr. Surja Ram Meel, Chairman, SKIT, expressed his concern over the deterioration of moral values in the young generation. He also enumerated principles to be successful in life. He urged the students to take up more challenges in life. Prof. Dr. S. L. Surana, Director Academics, SKIT extended his good wishes on the day. He exhorted the students to overcome their weaknesses and work hard to realize their dreams. Shri. Anil Bafna, Vice Chairman, SKIT urged the students to value their time and utilize it

properly.

Prof. N. K. Banthiya, Head, Dept. of Mechanical Engineering, proposed a vote of thanks & also stressed on the importance of ethics in any profession. The celebration also showcased a cultural programme put up by the students in praise of our freedom fighters. Before a formal end to the programme, the administration and management honoured the members of the SKIT Research Journal and the faculty members who got their papers published during the previous session. The ceremony ended with the distribution of sweets to all.

SRISHTI: A GREEN CAMPUS INITIATIVE



SKIT recently celebrated the spirit of Green Campus initiative through SRISHTI, an event organized to mark the beginning of turning the campus into an energy efficient abode. Dr. A.K. Jain, MD, RIEL, graced the occasion as the Chief Guest with Captain Deepak Gupta, Dy. Director, PCRA, as the special guest for the occasion. Sh. Raja Ram Meel welcomed the gathering and expressed a profound sense of gratification on the progress of the institute and such initiatives as making a green campus. Mr. Jaipal Meel, Director, SKIT, expressed that the renewable energy usage is the need of the hour

and an important step for our coming generations. He promised to make the campus an energy efficient premise. Dr S.L. Surana, Director Academics, SKIT, threw light on the importance of rain water harvesting system, waste water management system and the solar power plant with a special reference to SKIT.

Dr S. N. Vijayvargiya, Dean, (R&D), SKIT, threw light on the levels of SRISHTI and the upcoming plans to be undertaken by the college. Capt. Deepak Gupta congratulated the institute for the installation

of the solar plant system in the college and declared SKIT as a partner institute with PCRA for venturing into renewable energy utilisation initiatives. Mr A.K. Jain proudly added that the institute is now ready to face the challenges of a Smart City. He also emphasised on the

need of efficient lighting system by increasing the use of efficient LED lights. The programme ended with promises with effective execution of the plan.

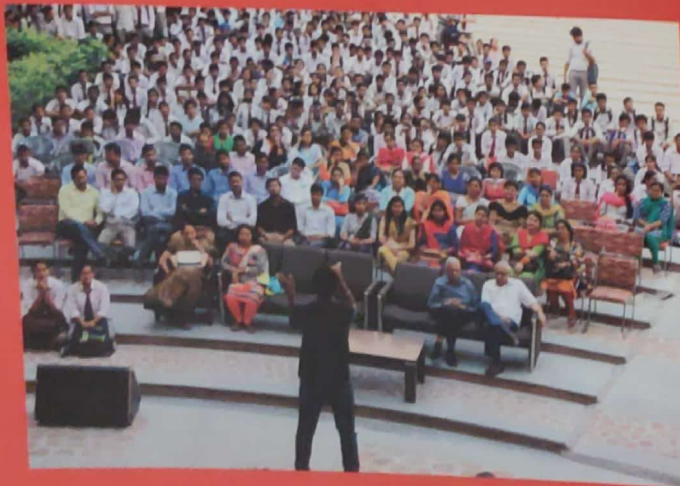
DANDIYA PERFORMANCE

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.



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.

NET ZERO POLE AT SKIT



The net zero pole is an R&D project which has been installed on campus to spur innovation. It was inaugurated on 8th February 2016 at SKIT campus by the Chairman, SKIT, Shri Surja Ram Meel. He was accompanied by Captain Deepak Gupta, Dy. Director, PCRA, Dr. Surana, Director Academics & Dr. S.K Calla, Director D&W, SKIT. The net zero pole is a concept where a led based light consumes the energy during the night time, and the same energy transfers back to the grid during the day. It uses the solar panel, a micro inverter and a bidirectional net meter. The solar panel gives the DC current by converting the rays of sunlight.

The online grid inverter converts the DC into AC and then it feeds the grid immediately. Before the grid line, it uses a net meter and a bidirectional meter which shows the rating of import and export. During the day time, the energy is exported to grid, and at night the same energy is imported from the grid. This is a project of final year electrical engineering students which has taken place under the guidance of Mr Ashish Saini & Mr. Praveen Kumar. The students received certificates from PCRA (Petroleum conservation & research association) and SKIT for their certificates to the students associated with the project.

SPIC-MACAY PROGRAMMES

A. Music is one such gift that never fails in touching the soul of the mind. SKIT fraternity recently enjoyed this bliss through the SPIC-MACAY programme where renowned sitar player, Shri. Irshad Khan from Imdakhani Gharana, filled the ambience with his melodious strokes on the sitar. Shri. Irshad Khan lives in Canada at present. He visited SKIT for his special performance. He was accompanied by tabla by Pt. Vinod Lele from the Benaras Gharana. The two performances made the event an unforgettable experience.

B. CHHAU DANCE

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



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.

C. PERFORMANCE BY PANDIT RAJARAM KALE

SKIT witnessed another memorable event by SPIC MACAY when the world renowned artist, (Dr.) Pandit Rajaram Kale performed in the Gyanmandir auditorium on 6th April 2016. A vocalist, composer and scholar of Indian classical, semi classical and devotional music, Pt.Kale is the senior disciple of Pt. Jitendra Abhisheki and has given performances all over the world. Pt. Kale brought home the rich tapestry of the Indian classical music and enchanted his audience. He weaved the musical notes with a brief outline about the Ragas and Raginis.

SWAMI KESHVANAND JAYANTI CELEBRATION

The Department of Mechanical Engineering in collaboration with Robotics club SKIT and Tech Innova Club organised a memorial programme on account of Swami Keshvanand Jayanti on 24 February 2016. The event was organised to mark and celebrate the birth of Swami Keshvanand ji. Students were present in large numbers and showed great zeal in the participation. It was conducted by the coordinators of the respective clubs. The event was graced by the presence of Dr. Vinita Sharma (Extra curriculum in charge) and Praveen Saraswat (Sr. Lectt., ME Deptt.). The event was a cluster of technical events like Robo Race, Line Follower and Quiz. Robo Race and Line Follower were the robotics event in which the student participants came with their projects and competed with other participants. The quiz was conducted online. It was based on general knowledge and religious moral values. The event witnessed a huge number of participation. A biographical film on swami ji was also shown to students to motivate them and enlighten them by showing the path which swami ji followed. Chief patron Shri. Raja Ram Meel, Shri Surja Ram Meel, Director Jaipal Meel and Director(D&W), Dr.S.K. Calla, graced the event with their esteemed presence. Prize and certificates were distributed to the students.

ACHIEVEMENTS OF THE SKIT SPORTS TEAM

SKIT's Sports team is doing a spectacular work in terms of representing the institute at various inter- collegiate and university levels. Here is a report on the different awards and achievements grabbed by the sports team under the competent guidance of Shri. Hiralal Chaudhary.

S.No	Event	Venue	Date	Achievement
1.	RTU University West Zone Basketball Tournament	Kota	7-12 January, 2016	WINNERS
2.	Tournament at Arya College	Jaipur	17 February, 2016	Badminton (girls)-WINNERS Basketball (girls)-WINNERS Basketball (boys)-RUNNERS-UP Table-Tennis -RUNNERS-UP
3.	Tournament at RIET College	Jaipur	22-24 February,2016	Volleyball (Boys)-WINNERS Basketball (Boys)-WINNERS Badminton (Boys)-WINNERS Badminton (Girls)-WINNERS
4.	Tournament at Gyan Vihar University	Jaipur	25-27 February, 2016	Cricket- Runners-Up
5.	RTU University West Zone Table-Tennis Tournament	Kota	22-25 February, 2016	WINNERS



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).



FDP BY EMC CORPORATION

EMC Corporation, a Leader in cloud computing, Data storage and Data Analytics 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 field of Cloud Computing, Information Storage and Data Analytics. Prof. Pankaj Dadheech, Reader and Mrs. Aakriti Sharma, Sr. Lecturer attended the Faculty Development Programme on "Infrastructure & Services-Industry Readiness Enhancement Program" conducted by EMC Corporation and got benefited by pursuing the training further.

WEBINAR ON PYTHON FUNDAMENTALS

The department of computer science organized a webinar on Python Fundamentals in February and March 2016. In all, 15 students and 28 members of faculty from the department participated in the programme.

CYBER SECURITY AND FORENSICS: A WORKSHOP

The Department of Computer Science and Engineering organized the pre-conference workshop on 26th Nov. 2015. The workshop aimed to bring a box-full of knowledge on recent advancements in the domain of computer science. The workshop witnessed the benign presence of various eminent speakers like Prof. Dr. Subramanian (Executive Vice Chairperson, IEEE Delhi Section), (Dr.) Murali M. Rao (Chairperson-Computer Society & Member in officio), IEEE Delhi Section and Joint Director, IGNOU), Mr. Datt (Forensics Guru & CEO, Digital Forensics), Mr. Pawan Dutt (Cyber Law Specialist, Supreme Court Lawyer & President Cyber Law Association-Asia Pacific). The purpose of the workshop was aimed at providing a platform for an exchange of technical innovations for the budding engineers and also probing the measures as to how the next generation applications need to be developed from the growing crimes in society.

The workshop included invited talks by various experts on forensics tool and technologies, network security, applications and cyber security. Thus, the workshop became a great success inspiring young budding engineers about the importance of cyber security.

FACULTY ENABLEMENT PROGRAM

Mr. Naveen Jain and Mr. Kanak Giri from the department of computer science participated in a six day faculty Enablement Programme on "Foundation Program 4.0". The FDP was conducted at Infosys Chandigarh Development Centre in the month of January, 2016.

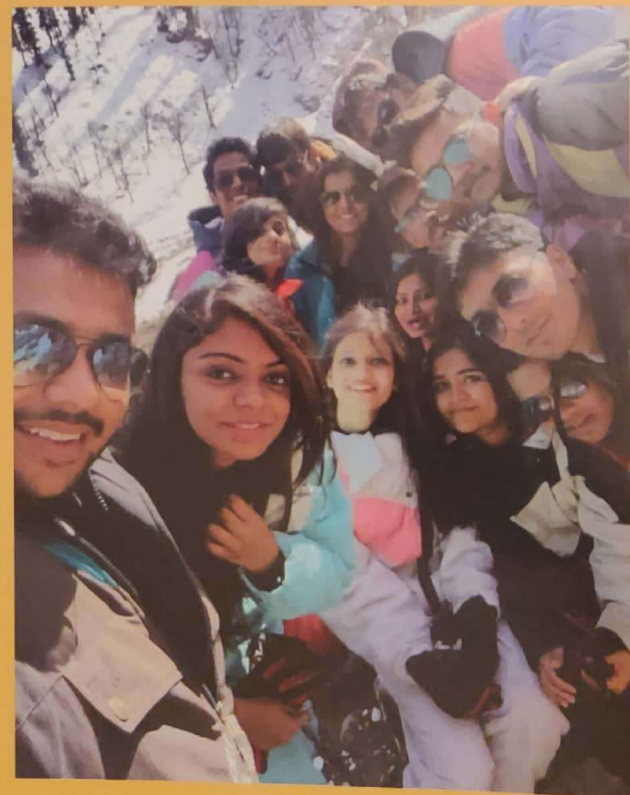
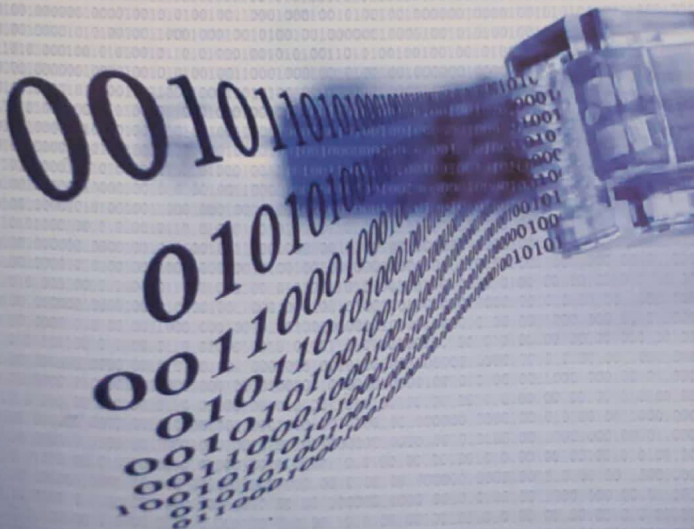
INDUSTRIAL VISIT

An industrial trip was organized for the 6th semester students where students visited various core branch based industries and gained practical knowledge in exposure to theoretical knowledge.

The students also witnessed the nature's serene beauty at different hill stations and enjoyed their 6 days trip to the best making the best memories of their college life.

Branch : CS
Industries visited : INTEX ,GEM
Place : Baddi
Date : 16 feb -22 feb ,2016
Faculty Members : Mr. M K Beniwal, Mr. Naveen Jain,
Ms. Ruchika Khandelwal, Ms. Kajal

Branch : IT and CS (2 shift)
Industries visited : INTEX ,PHILIPS
Place : Baddi
Date : 14 feb-20 feb,2016
Faculty Members : Ms. Neha Kapur, Ms. Anjali Pandey,
Mr. Anil Prajapati, Mr. Shubham Gupta



DEPARTMENT OF MECHANICAL ENGINEERING

SAE-INDIA STUDENT CONVENTION

The department of Mechanical Engineering organized SAE-INDIA Student Convention 2015 on 10th of October, 2015 at SKIT, Jaipur, which included speeches by eminent speakers from academic and automotive sectors like IOCL, Maruti & Honda. The convention included various student activities like paper and poster competition, technical quiz, auto expo, and student project display. The faculty and student members of SAE-INDIA from various technical institutes participated in the convention.

The objectives of the convention were:

- To provide a platform to faculty members, researchers and students for



presenting recent advances and future directions in Automotive Engineering.

- To provide an opportunity to faculty members for classroom innovation, in Automotive Engineering and teaching-learning processes.
- To provide an opportunity to interact and collaborate with experts. Leaders and decision makers in the field of Automotive Engineering.



STRESS MANAGEMENT IN PROFESSIONAL LIFE : A TALK

Stress management in professional life involves changing a stressful situation and reconstructing the productive time after relaxation. On 13th January, 2016, Er. D.K.S. Meel, Retd. ADG (DGLL), Ministry of Shipping, Govt. of India visited the Department of Mechanical Engineering, SKIT and interacted and shared with students his experiences in his professional career. According to Er.Meel, the first step in managing stress is recognizing it in our life. Everyone feels stressed out in different ways. We may get angry or irritable, lose sleep, or have headaches or get the stomach upset. Once we know what signals to look for, we can start managing it. If our stress comes from taking on too much at home or work, we must learn to set limits.

Er. Meel also maintained that we should not refrain from asking others for help when we need it. One should not let stress get in the way of being social. Spending time with family and friends can help us feel better. Confiding in a friend may also help us work out our problems.



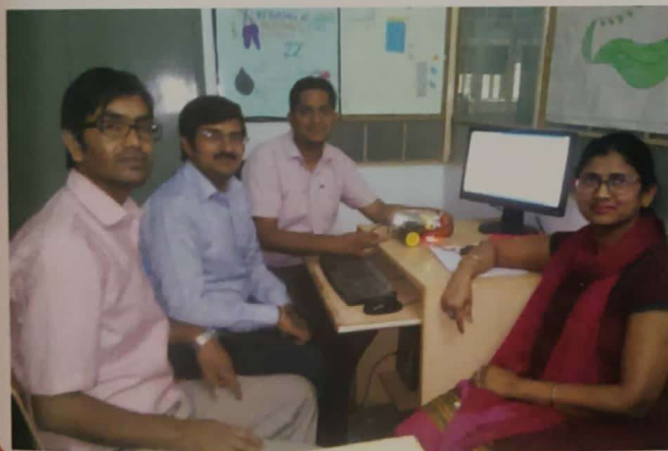
The show also hosted invited lectures from eminent speakers from the industry. There were three invited lectures by Mr. K. P. Panwar, GM, Minda on "Innovation Adapting To Change", by Mr. Shailendra Deopa, Manager, HVAC, MSIL on "HVAC Systems" and by Mr. P. Sakthivel, Sr. Research Officer, IOCL on "Alternate Fuels".

Further, there were gripping events like technical paper presentation, Auto Expo & Project Competition/Poster Competition, Open House Discussion and many more. The highlight of the show was an intriguing panel discussion by several worthy panelists from the industry and academia.

EXPERT LECTURES ON 3-D MODELING & ASSEMBLY USING CREO SOFTWARE

Expert lectures on 3-D Modeling and Assembly using Creo software were delivered for the students of Mechanical Engineering from 18th to 23th January, 2016 by Mr. Vishal Sharma, Member, PROCAD Institute, Jaipur. Designed as a three hour tutorial for each batch (A, B, S) of 8th Semester, the lecture took place during the regular schedule of the CAD Lab.

E - YANTRA TASK BASED TRAINING (TBT-2016)



The two day workshop on Introduction to Robotics at MGM's College of Engineering, Noida, organized by e-Yantra Program of IIT Bombay on 5 - 6 Feb 2016, followed the second step towards e-Yantra Laboratory setup in the form of online Task Based Training (TBT). TBT started on 15 Feb, 2016 and the last date for completing all tasks was 6 June, 2016. The five tasks related to Introduction to Embedded C, I/O Interfacing on AVR based Microcontrollers, Introduction to Timers and Delay Generation and DC motor control and PWM generation for velocity control have been completed so far.

The team members participating in TBT-2016 were:

- Mr. Praveen Saraswat, Sr. Lecturer, ME Department
- Mr. Manoj Kumar Sain, Reader, ME Department
- Ms. Vinita Agrawal, Reader, ECE Department
- Mr. Pallav Rawal, Lecturer, ECE Department

FACULTY DEVELOPMENT PROGRAM- MICROSOFT EXCEL



A one week faculty development program on "Basics of Microsoft-Excel" was organized in the Department of Mechanical Engineering from 22nd February 2016 to 27th February 2016. The program had the prime objective of making everyone aware of how to incorporate MS Excel in our day to day activities by which one can save a lot of time. The program was officially inaugurated by the HOD (ME) Prof. (Dr.) N.K. Banthiya. The course and content of the program was taught and designed by Mr. Sudhanshu Chhajed, Lecturer ME under the guidance of Prof. (Dr.) Alok Mathur.

All the faculty and staff members of Department of Mechanical Engineering participated in this one week program and certificates were awarded to those who successfully completed the program.

21ST INDIAN PLUMBING CONFERENCE - COMPETITION



21st Indian Plumbing Conference-Competition was held at Hotel Clarks Amer, Jaipur on 18th and 19th March 2016. It was an event organized by the Indian Plumbing Association and, for the first time, this event was held in Jaipur. There were eight teams from reputed engineering colleges of Rajasthan. Two teams from sixth semester, Mechanical Engineering represented the institute in the conference with Mr. Chandan Kumar as the faculty coordinator (advisor). The team members of the first team were: Akshay Agrawal and Om Prakash Godara while second team members consisted of Pankaj Kumar and Rahul Jangid.

There was a poster competition on design of a water conservation system through good plumbing practices. Our teams secured the first and second consolation prizes comprising a prize money of rupees one thousand for each position. Certificates of participation were also awarded to all the participants from our institute.

SAEINDIA BAJA ALL-TERRAIN VEHICLE DESIGN (ATV) COMPETITION 2016

TEAM XCELERATORS AT BAJA SAEINDIA,
NATRIX FACILITY, PITHAMPUR, MADHYA PRADESH
17th -21st February, 2016



A team of SAEINDIA SKIT Collegiate Club with faculty advisor Mr. Rajendra Singh Chundawat has participated in National level All-Terrain Vehicle design competition "BAJA SAEINDIA 2016" held at NATRIP facility, Pithampur, Indore, Madhya Pradesh from 17th -23rd February, 2016. A total of 153 teams from all over India participated in this competition which lasted for a week comprising technical inspection, static and dynamic events etc. Only two teams from Rajasthan qualified for this competition.

The team from SKIT designed and fabricated All Terrain Vehicle under the guidance of Mr. Ashish Nayyar, Reader, ME & Mr. Rajendra Singh Chundawat, Lecturer ME. The recruitment drive also took place in this competition and Mr. Sagar Vashisht, a student of VIII semester, Department of Mechanical Engineering has been selected in Mahindra & Mahindra Ltd.

INTERNATIONAL GO-KART CHAMPIONSHIP MARCH, 2016

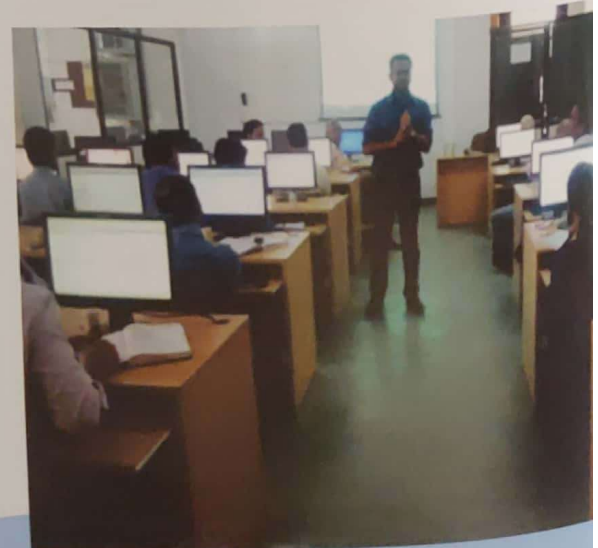
A team of SAEINDIA SKIT Collegiate Club participated in International Go-Kart Championship held at Lovely Professional University (LPU), Jalandhar, Punjab from 18th -21st March, 2016. In this competition, the participating teams bought Go-Kart designed & fabricated by them in their respective colleges. A total of 64 teams from all over India participated in this competition which lasted for three days comprising technical inspection, static and dynamic events etc.

A team of SKIT designed and fabricated Go-Kart under the guidance of Mr. Ashish Nayyar, Reader ME & Mr. Sudhanshu Chajjed, Lecturer, ME. The team secured 15th rank in all over India with an appreciation from various industrialists.

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 Chandra, Principal, SKIT was the chief guest. Dr. N. K. Banthiya, Head of Department, 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. Beniwal, Lecturer, ME who were also the resource persons for the programme.





SKIT Shri Surjaram Meel, Director SKIT Shri Jaipal Meel, Director Academics SKIT Prof. S.L Surana, Director(D&W) SKIT Dr. S.K. Calla, Principal and Head, EE dept., SKIT Prof. Ramesh Kumar Pachar.

Welcome speech was given by Shri Surjaram Meel. He briefed about the very purpose of organizing the national conference and welcomed all the dignitaries. He focused on Emerging technologies and emphasized to reduce power wastage in India. His speech was followed by Shri Jaipal Meel. He discussed about the challenges such as power consumption and power theft. Prof. Ramesh Kumar Pachar focused on the idea to come up with updated solution which provides high stability and sustainability in power system. Dr. S.L. Surana elaborated the concept of transformation from conventional grid to smart grid.

Prof Dinesh Birla appreciated SKIT for installing 400 KW solar power plant in the campus. He stated that it is a matter of pride and privilege for students to have enrolled in such a institute which has substantial insight. Prof. K.R. Niazi emphasized on creating awareness in society about upcoming technologies. He appreciated the growth and efforts of SKIT by organizing such events and also wished success for future endeavors. Chief Guest Prof K.V.V Murthy focused on the sources of power system leakage, challenges faced by engineers to use solar energy efficiently and mitigation of power theft. The vote of the thanks for the inaugural function was proposed by Dr S.K.Calla (Director D&W).

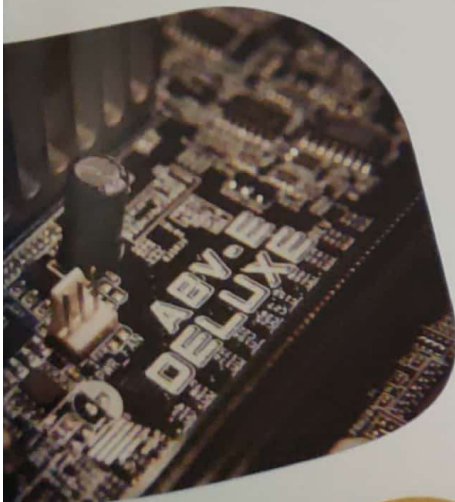
After a short break, the conference continued with the beginning of the First Technical session. Prof K.R Niazi, MNIT Jaipur presided over the session with a keynote address on "Flexible AC Transmission system". Prof Dinesh Birla, RTU Kota, followed the session with key note address on "Power Network Relay Coordination". The first technical session ended after lunch break, Second Technical session, on the same day i.e. 8th April 2016, was initiated with a key note address of Prof K.V.V Murthy on "Artificial Neural Network". He elaborated the concept of ANN learning for power system, gesture

DEPARTMENT OF ELECTRICAL ENGINEERING

NATIONAL CONFERENCE ON EMERGING TECHNOLOGIES IN OPERATIONS AND CONTROL OF FUTURE POWER SYSTEM”

The national conference on "Emerging Technologies In Operations and Control of Future Power System" was hosted by Electrical engineering department during 8-9 April, 2016 at SKIT, Jaipur. The conference highlighted the themes for development and operations in power systems, power quality issues, electricity market designs and smart grids.

150 research papers from various engineering colleges were received, out of which 73 papers were selected for presentation. Approx. 50 papers were presented in conference during all sessions and 15 posters were selected for poster presentation. The event was successful in gathering renowned speakers from various reputed organizations and their paramount talks enlightened the gathering. The first day started with registration of the participants followed by inaugural ceremony. The ceremony was chaired by Chief Guest Prof. K.V.V. Murthy (IIT Gandhinagar) with contributions of Guest of Honor Prof. Dinesh Birla (RTU Kota), Prof. K.R.Niazi (MNIT Jaipur), Chairman



learning and pattern reorganization.

On the II Day of Conference, i.e. 9th April 2016, third technical session commenced with a keynote address of Dr. Rohit Bhakar, MNIT Jaipur on "Operational Challenges in Restructured Power Markets". In his keynote, he emphasized on following topics :-

- Traditional regulated Power System
- Characteristics of traditional power system
- Motivation to change
- New market design requirements
- Evolving market design
- Indian electricity act 2013
- Electricity act 2014
- Indian power sector structure
- Classical Power System
- Restructured power systems
- Electricity Markets
- Uncertainty impacts on restructured power markets

The participants from various institutions have presented their research papers. After a brief tea break, fourth technical session began with the keynote address of Dr. Jayshree Vajpai, MBM Jodhpur on "Forecasting Energy Demand". She mainly focused on the following topics :-

- Time series forecasting
- Monte Carlo Model
- Neural Network
- Evolving Fuzzy Neural Network Model

After the keynote address, the paper presentation was continued. The conference concluded with the vote of thanks by Ms. Juhi Singhal.

II. EXPERT / GUEST LECTURES / SHOWS

- 1) Petroleum Conservation & Research Association (PCRA) conducted a Seminar on 'Energy Audit & Conservation of Energy' on the following days from 1:30 p.m. onwards in J.C. Bose Seminar Hall. 31 students of EE, VI Sem. attended the Seminar.
 - a. Wednesday, 30th March 2016
 - b. Saturday, 23rd January 2016
- 2) An Expert Lecture on "Smart Grid" was delivered by Dr. Annapurna Bhargava (Assoc. Prof., RTU, Kota) in 2015, 11 p.m. onwards, in J.C. Bose Seminar Hall.
- 3) An Expert Lecture on "Addressing some of the challenges of conventional and renewable power systems" was delivered by Dr. R.C. Bansal, Professor & Group Head (Power), Dept of Electrical Electronic & Computer Engg., University of Pretoria, South Africa. The expert lecture was delivered on 24th Dec., 2015, Thursday, 9-11 am in J.C. Bose Seminar Hall.
- 4) A lecture-demonstration on "8051 microcontroller development board" was delivered by Mr. Ankit Vijay (Lecturer, EE, SKIT) on 24th Feb., 2016, 1:30 p.m. onwards in

5F:EE-Lab-7.

- 5) An Expert Lecture on "Wind Energy" was delivered by Kothari (Emeritus Prof., Dept. of Electrical Engg., IIT, 12th Feb., 2016, Friday 9:00 a.m. onwards in J.C. Bose Hall.
- 6) An Expert Lecture on "Power factor improvement" delivered by Dr. M.P. Sharma in 2015 in J.C. Bose Seminar

M.TECH. DISSERTATIONS SUBMITTED

- 1) Ms. Baibhav Bishal (Lecturer, EE, SKIT) completed M.Tech. in Dec., 2015 on topic "Design of damping controller for machine power system using SSO".
- 2) Mr. Jitendra Singh (Lecturer, EE, SKIT) completed M.Tech. in Dec., 2015 on "Application of BBO for optimal scheduling using transmission constraints".
- 3) Ms. Esha Gupta (Student, M.Tech., Power Systems) completed M.Tech. in Sep., 2015, under the guidance of Dr. Akash (Reader, EE, SKIT).
- 4) Mr. Sanjeev (Student, M.Tech. Power Systems) completed M.Tech. under the guidance of Mr. Bharat Modi (Reader, EE, SKIT).

I. PROJECT DEVELOPED BY STUDENTS

The projects which received recognition in session 2015-16

- 1) Net Zero Pole
- 2) Wheelchair controlled by head motion
- 3) Finger print voting system
- 4) Wireless mobile charging

There are some more projects which are still in development phase.

INDUSTRIAL VISIT

Branch : EE
Industries visited : Switch gear
Place : Chandigarh
Date : 14 Feb-20 Feb, 2016
Faculty Members : Mr. Ankush Tandon, Mr. Ankit Vijay.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION

1. The department has been re-accredited by the National Board of Accreditation (NBA). This has reassured the quality of teaching, teachers and the infrastructure of the department. Excellent ambience which is conducive of learning is provided to one and all.
2. Virtual Labs and NPTEL Course: Efforts were made to create virtual labs in ECE Department. These will be continued. Mr. Ankit Agarwal actively participated in a 20 hour Online Certification Course (Elite Certified in NPTEL) on "Estimation for Wireless Communications -MIMO/ OFDM Channel for wireless sensor network". The course was held in Jan-March 2016.

NATIONAL CONFERENCE ON "ADVANCEMENT IN NANO-ELECTRONICS AND COMMUNICATION TECHNOLOGIES" (ANCT-2016)

Tutorials and the National conference on "Advancement in Nano-Electronics and Communication Technologies" (ANCT-2016) were organized from 17 to 19 March, 2016 by the department of ECE in collaboration with ISTE and IETE. Eminent persons from various parts of India participated in the conference and shared their experiences. Dr. S. K. Bhatnagar, HoD ECE, SKIT was convener and Mr. Praveen Kumar Jain, Mr. Mukesh Arora were co-conveners of the conference. The tutorials and the conference were student-centered. The modus delivery of knowledge was through invited talks by experts.

Fourteen expert talks were delivered during the conference. However, twenty five research papers were also presented in the conference. Dr. B. S. Sonde, Former Dean, I. I. Sc, Bangalore was the Chief Guest. Dr. Sandeep Sancheti, President, Manipal University, Jaipur was Guest of Honor. Shri Jaipal Meel (Director, SKIT), Dr. S. L. Surana (Director, Academics) and Dr. S. K. Calla (Director, D&W) expressed their views in the conference. Dr. Ramesh Pachar (Principal, SKIT) also graced the occasion. The conference was preceded by four excellent tutorials. Prof. N. K. Agarwal (Former Scientist, Vikram Sarabhal Space Centre, ISRO, Trivandrum) was the resource person for two tutorials on microwave engineering. The target audience was VI Semester students. For the VIII Semester students two tutorials were given on MEMS and Nanotechnology. The resource persons were Dr. P. K. Khanna (Chief Scientist and Head, Hybrid-Microcircuits Group, CSIR-CÉERI Pilani) and Dr. D. Mathur (Professor and HoD, Nanotechnology Department, RTU, Kota).

M.TECH. DISSERTATIONS COMPLETED

1. During the reporting period 9 dissertations were completed and the students were awarded M. Tech. degree. The names of the students and their supervisors are given below:
 - (5.1) Mr. Virendra Swami – supervisors Mr. Ankit Agarwal and P. K. Jain,
 - (5.2) Ms. Shinu Soni - supervisor Mr. Ankit Agarwal,
 - (5.3) Mr. Vanchit Goyal - supervisor Mr. Ankit Agarwal,
 - (5.4) Mr. Abhijat Vats – supervisor Mrs. Monika Mathur
 - (5.5) Mr. Nitin Kumar Sharma - supervisor Mr. J. P. Vijay
 - (5.6) Ms. Namrata Hada - supervisor Mr. P. K. Jain
 - (5.7) Mr. Ankit Gupta – supervisor Mr. P. K. Jain
 - (5.8) Ms. Pinky Vishwakarma - supervisor Mr. J. P. Vijay
 - (5.9) Ms. Leena Sharma – supervisor Dr. S. K. Bhatnagar



An innovative feature of the deliberations was a special session on "VISIONARY THOUGHTS" that was crafted for the first time. The eminent teachers and researchers shared their vision. The discussion was interactive and fruit full for all. Budding authors need one to one interaction with many persons – their colleagues, audience and the experts. This opportunity was offered through poster session.

NATIONAL WORKSHOP ON NWOCT-2016

A National Workshop on "VLSI DESIGN FLOW USING CADENCE EDA TOOL" (NWOC-2016) has been planned for 25th - 26th May, 2016, in association with: Entuple Technologies Pvt. Ltd., ISTE (SKIT Student Forum) and IETE (SKIT Student Forum). Dr. S. K. Bhatnagar (Director of Research) & Head, Dept. of ECE) was the convener, Mr. Vikas Pathak (Reader, ECE) and Ms. Pooja Choudhary (Lecturer, ECE) were the Co-Conveners. Aim of this workshop was to provide hands-on Analog & Digital (ASIC) VLSI Design Flow using the state-of-the-art Cadence EDA tools. The participants had an exposure to the Circuit Design & Simulation, Layout, Physical Verification (DRC, LVS), and RC Extraction of Layouts. The workshop includes practice sessions on the Cadence design and simulation tools (Encounter, RTL Compiler, Virtuoso, Spectre, Assura and Incisive).

INDUSTRIAL VISIT

- Branch : EC
 Industries visited : HTM
 Place : Chandigarh
 Date : 16 feb-21 feb, 2016
 Faculty Members : Mr. Sanjay Sharma, Mr. Lalit Latta,
 Ms. Namrata Joshi, Mr. Mukesh Arora





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) 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 theodolite observing horizontal and vertical angles and calculating distances with the help of trigonometrical formulae. A levelling exercise was also done with the help of spirit level instrument Autolevel. The students also performed a plane table exercise at a 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.

EXPERT LECTURE AT THE DEPT. OF CIVIL ENGINEERING

The department of Civil Engineering successfully conducted an expert lecture on 'Importance of Hot Mix Asphalt Design' on Monday, 18 January 2016 at Bose Seminar Hall. It was delivered by Dr. Rajan Choudhary, Associate Professor, IIT-Guwahati. The seminar was graced by the presence of Prof. N. Datt (Head, CE), Prof. (Dr.) D. K. Sharma and the faculty members and students of the department. It was aimed at enhancing the knowledge about the design concept of different pavement layers along

with the components of HMA (Hot Mix Asphalt). Along with the students of SKIT, the students from Kautilya Institute of Technology, Guwahati, Engineering and Anand International College of Engineering, Chennai attended the lecture. Dr. Rajan stressed on the testing procedure of various materials used in the pavement construction and advised the students to utilize the laboratory infrastructure to the maximum. He also brought forth the fact that the quality of pavement construction contributes a lot in the progress of a nation and exhorted the audience to maintain and ensure quality control measures in pavement construction. At the end, he advised the students to participate in micro projects and enhance their learning capabilities. Definitely, this interface unveiled the practical challenges encountered in this process and highlighted the importance of design concept of different pavement layers. The programme was compered by Mr. Anirudh M. (Sr. Lecturer, CE).

INAUGURATION OF STUDENT CHAPTER OF INDIAN CONCRETE INSTITUTE (ICI)

The student chapter of Indian Concrete Institute (ICI) was inaugurated in the Department of Civil Engineering, SKIT on 22nd march 2016. The inaugural ceremony was allured by the presence of Er. Shashi Gaggar (VP-Technical, Aditya Birla Group), Er. Antar Singh Nehra (Joint Secretary, PWD), Er. Satish Kumar Tanwar (President ICI, Rajasthan State Centre), Mr. Jaipal Meel (Director, SKIT), Dr. S.L.Surana (Director Academics, SKIT), Dr. S.K.Calla (Director D & W, SKIT), Er. Vinay Gehlot (Secretary, ICI), Dr. Anurag Misra (Ex-President, ICI), Ar. Pushpak Pandit (Architect).

Dr. S.L. Surana (Director Academics, SKIT) extended a hearty welcome to the dignitaries. Mr. Shashi Gaggar (VP-Technical, Aditya Birla Group) spelled out the importance of civil engineers in today's world. Mr. Satish Kumar Tanwar (President ICI, Rajasthan State Centre) formally declared the student chapter of ICI open in SKIT.

Fifty Six students of Civil Engineering Department, SKIT have taken membership of ICI. The certificates of membership were distributed to students by Prof. L.N.Datt (HOD, CE) & Dr. D.K.Sharma (Professor, CE). The programme was followed by conduction of a regional level quiz competition CON-Q. Students of forty three engineering colleges from Rajasthan participated with full enthusiasm.

The winner of the quiz competition were Devendra Kumawat and Nitin Bhardwaj, students of Civil Engineering, SKIT. Finally the programme ended with a valedictory ceremony where Prof. Anurag Misra (Ex-President, ICI) proposed a vote of thanks to the guests and wished the students a bright future. Er. Anirudh Mathur & Er. Nishant Sachdeva (ICI student Chapter Co-ordinators, SKIT) co-ordinated the programme.



MELT BLEND TECHNIQUE

Four students of 8th Sem, B.Tech Civil Engineering (Shubham Shrivastava, Shivam Shrotriya, Vijen nama and Vinod Kumawat) have developed Bitumen Melt Blender, an equipment which is used to modify the bitumen by adding waste plastic. This equipment was developed under the guidance of Er. Ajay Mandrawalia (Senior Lecturer, Dept of Civil Engg, SKIT, Jaipur). This modification enhances base bitumen properties. For this process, bitumen is heated and maintained at a temperature of 160°C. Blending is carried out at 1000rpm for 1 hour with the slow addition of fine waste plastic to produce homogenous mixture. Performance tests are conducted on prepared samples to evaluate the properties of modified bitumen.



CONSULTANCY PROJECTS

S. NO.	PROJECT TITLE	TEAM MEMBER	CLIENT	STATUS
1	Technical vetting of various Type Designs for different areas of Rajasthan Rural Housing	Dr. D.K. Sharma Mr. Anirudh Mathur	Rural Housing Knowledge Centre, IIT, Delhi	Ongoing
2	Third Part Inspection of various works under MPLAD scheme	Dr. D.K. Sharma Mr. Anirudh Mathur Mr. Deepak Sharma Mr. Nishant Sachdeva	Department of Rural Development & Panchayati Raj, Govt. of Rajasthan	Completed
3	Quality Inspection of CC Roads under MPLAD scheme	Dr. D.K. Sharma Mr. Anirudh Mathur	Zila Parishad, Sikar	Ongoing

S. NO.	PROJECT TITLE	TEAM MEMBER	CLIENT	STATUS
1	Technica Evaluation/Quality Inspection of Rural Houses under Indira Awas Yojana	Dr. D.K. SHARMA Mr. Anirudh Mathu Mr. Pankaj Gupta	Department of Rural Development & Panchayati Raj, Govt. Of Rajasthan	Completed

INDUSTRIAL VISIT DURING 2015-2016

VISIT CONDUCTED				
Batch	S.No.	Industry	Sem	Month /Year
2012-2016	1	GIFT city (Gujarat)	VII	September 2015
	2	Sabarmati Riverfront(Gujarat)	VII	September 2015
	3	Veraval Light house and Disaster management (Veraval)	VII	September 2015
	4	Jaipur Metro	VII	September 2015
	5	Sewage treatment plant (Delawas)	VII	September 2015
	6	Transport nagar over bridge	VII	September 2015
	7	Rajasthan housing board site(Mahala)	VII	September 2015
	8	Bisalpur Dam	VII	September 2015
	9	Water treatment plant (Surajpura)	VII	September 2015
2013-2017	10	Bisalpur Dam	V	October 2015
	11	Water treatment plant (Surajpura)	V	October 2015
	12	Ambuja Knowledge centre	V	
2014-2018	13	Rajasthan housing board site(Mahala)	III	December 2015
	14	Fly ash brick factory (Garg industry) ,Bagru	III	December 2015
2013-2017	15	Bhakhra Dam and Beas canal irrigation system	VI	February 2016
	16	City planning of chandigarh	VI	February 2016
	17	Golden tiles	VI	February 2016
	18	Ambuja cement factory(Himachal Pradesh)	VI	February 2016
	19	Sewage treatment plant (Delawas)	VI	February 2016
	20	Jaipur Metro	VI	February 2016
	21	N.M. roofing Pvt. Tld.	VI	February 2016



DEPARTMENT OF SCIENCE AND HUMANITIES

DEPT OF ENGLISH

CET CLASSES FOR VI SEMESTER CLASSES

The department of English conducted CET classes for VI semester students for Electrical and Civil engineering. The programme aimed at providing students with practice sessions in enhancing competence in English for competitive exams. In this three month long course, the participants worked upon the MCQs on various topics of English grammar and vocabulary. The programme also incorporated LSRW sessions.

FELICITATION TO DR. KRISHNA DAYAL SHARMA

Dr. Krishna Dayal Sharma was honoured for her significant contribution to teaching on the 153rd anniversary of Swami Vivekanand. The award was conferred to her by Rajasthan Yuva Chatra Sanstha, Jaipur. Adding to the glory was one more felicitation that was given to Dr. Sharma by a social organization called 'Shubh Vichar'. This organization acknowledged the contribution made by 20 eminent women in the field of art, music, sports, teaching, business and journalism. Dr. Sharma received the award at Arch Academy on the international Women's Day.

CERTIFICATION FROM CAMBRIDGE

Ms. Neha Purohit, Reader, Dept of English, has been qualified as a speaking examiner for the Business English Certificate (BEC-Preliminary) for the second consecutive year. The exam is conducted by the prestigious Cambridge University, UK.

DEPT OF CHEMISTRY

NCSEAM - 2016

The Department of Chemistry organized a two-day National conference, sponsored by the Department of Science and Technology, Government of Rajasthan, on "Sustainable Engineering Applications of Material Science and Physico-Chemical Innovations" on February 26-27, 2016.

The inauguration ceremony opened with the welcome note by Mr. Jaipal Meel, Director, SKIT. Prof. S.L. Surana, Director (Academics), SKIT, briefed the gathering about SKIT and its research initiatives. Prof. Archana Saxena Head, Chem. Dept. SKIT, acquainted the audience with the details of the conference. There were two Keynote Addresses by the honoured guests, Mr. Yatinder Suri, (IIT Kharagpur alumnus), MD & Country Head Outokumpu India Private Limited and Prof. P.K. Khanna, Chief Scientist, CEERI Pilani. The chairperson for this keynote session was Prof. S.K. Bhatnagar, Director Research and Head, ECE Department, SKIT. Mr. Yatinder Suri delivered the lecture on 'Corrosion Mitigation through Sustainable Materials with a special reference to Stainless Steel'. Prof. P.K. Khanna shared the information on 'Smart Materials and Recent Developments for Engineering Applications'. Other eminent speakers of different sessions and delegates from various universities and institutions graced the occasion and shared their research contributions. The next two sessions witnessed expert lectures by Prof. Satish Awasthi, Professor Chemistry Dept., Delhi University, and Prof. Y.K. Vijay, President VGU, Jaipur. Dr. Sharda Soni, Convenor of the conference, proposed the vote of thanks.

On 27 February, Dr. Meena Nagar, UOR, Jaipur, delivered a talk on "Formation of Nano Ceramic Material by Different Synthetic Modes". Mr. Sunil Saxena, V.P, Ahluwalia Contract India Ltd. New Delhi, delivered a very informative lecture on "Light weight Casting Concrete". A panel discussion on "Materials used for Renewable Energy Production and Storage" brought the conference into an interactive flair. The valedictory session received eminent guests like Prof. R.P. Yadav, former V.C, RTU and Professor, Department of

ECE, MNIT, Jaipur and Mr. R.S. Jain, Project Officer, DST, Jaipur. Prof. S.L. Surana, Director (Acad.), SKIT, Prof. S.K. Calla, Director (Acad.), SKIT, Ms. Rachna Meel, Registrar, SKIT and Prof. Ramesh Pachar, Principal, SKIT congratulated the organizing team for successful and fruitful completion of the two-day orientation Conference. Nearly hundred research papers were presented in form of oral and poster presentations. The conference provided a platform to around 250 delegates.

DEPARTMENT OF MBA

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 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 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 interesting session on "Scenario of MBA Education: Prospects & Challenges, Opportunities and Expectations from Students" were taken by Prof. P. Garg, Dean-DMS. He briefed them about the job market and corporate expectations. He enlightened the students with upcoming challenges of job requirements and entreated them



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.

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.

THE SECOND DAY

The second day of Shubharambh initiated an exciting activity "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 coordinated by Mr. Atul Gupta. Followed by this, Prof. Vikas Sharma 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. Ladiwal. This session was followed by creating the awareness

'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 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.

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 Poerty 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.

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.

SESSION ON CORPORATE ENTREPRENEURSHIP

Corporate entrepreneurship is nothing but 'a group of people going, in essence, back to the garage, but in a large company' and its various aspects are product & service innovation, process innovation and market development.

Apart from this, various related terms like JIT, TQM etc. were also discussed. The cases of various ventures in Jaipur like Tapri, Chain Point, Tea Trails etc. were also discussed with the hope to inculcate the entrepreneurial skills in our country's future entrepreneurs.

WORKSHOP ON IMPORT-EXPORT MECHANISM

An innovative and skillful event was conducted by DGFT (Directorate General of Foreign Trade) in association with Ministry of Commerce and Industry. DGFT is responsible for implementing the Foreign Trade Policy or Exim Policy with the objective of promoting Indian exports. DGFT or Directorate General of Foreign Trade is a government organization in India responsible for the formulation of exim guidelines and principles for Indian importers and Indian exporters of the country. A discussion was about international business, strategic management and value of import in any firm. It also included policy acknowledgement for various guidelines mentioned by the Indian Government for Import-Export Business.

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

COMPETE WELL PROGRAMME

For preparing students in all areas and career growth, Department of Management studies conducted preparatory classes "Compete Well" for the overall development of students. It was an annual student development programme for competitions for students. This course was launched on 18 Feb 2016. It covered various areas related to Indian Economy, Current Affairs, Knowledge of corporate world, National and International Business Scenario, Indian Banking and Financial system, Quantitative aptitude, Reasoning Test etc. This course was coordinated by Dr. Ona Ladda, Reader, DMS.

INTERNATIONAL STUDENT'S DAY

International student's day was celebrated on the birthday of Missile Man of India, Late Dr. APJ Abdul Kalam with great zeal and zest. A number of activities were undertaken such as sports, poetry and quiz, on the theme "Kalam- The inspiring soul".

A panel discussion was conducted on "People's President: Journey from being nobody to the 11th Indian President" with a book reading session on his autobiography "Wings on fire". A video and poetic tribute was also given to Dr. A.P.J Abdul Kalam.

INDUSTRIAL VISIT

An industrial visit was organized under the banner of EDP in which 30 students visited "Delhivery: Courier delivery company". An engineer in charge of Delhivery gave a brief introduction about the company and about its foundation. It has over 2500 employees serving thousands of customers every day and company has expanded its operations to a few major cities. It has even collaborated with numerous e-commerce portals. Students visited logistic section and then various other sections where he explained the process involved in the courier service. There were different sections for wrapping the products (bubble wrapping, shrink wrapping). The courier service is based on Hub Scope model.



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** : Balbhav 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.no13-19.
- 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
- TITLE** : Fractional Calculus Operator Associated With Wright's Function
- AUTHOR** : Dr. Vijay Kumar Singhal
- JOURNAL** : SKIT RESEARCH JOURNAL, VOLUME 5, ISSUE 1(2015), 79-81, ISSN-2278-2508
- TITLE** : Applications of the Fractional Calculus Pertaining to Multivariable H-function
- AUTHOR** : Dr. Vijay Kumar Singhal
- JOURNAL** : SKIT RESEARCH JOURNAL, VOLUME 5, ISSUE 1(2015), 79-81, ISSN-2278-2508
- TITLE** : Saigo Fractional Integral Associated with Wright's Function
- AUTHOR** : Dr. Vijay Kumar Singhal
- JOURNAL** : Acta Ciencia Indica, Vol. XLIM, No.1(2015), 61-66, ISSN-0970-0455
- TITLE** : Contingency Screening and Classification by Supervised Learning Models"
- AUTHOR** : Dr. Akash Saxena
- JOURNAL** : Information Systems Design and Intelligent Applications (Springer) Volume 434 of the series Advances in Intelligent Systems and Computing, pp 327-335, ISBN-978-81-322-2752-6, Series ISSN:2194-5357
- TITLE** : Layer Recurrent Neural Network based Power System Load Forecasting
- AUTHOR** : Nikita Mittal and Akash Saxena
- JOURNAL** : Telekomonika Indonesian Journal of Electrical Engineering. TELKOMNIKA Vol. 16, No. 3, December 2015: 423 - 430. (SCOPUS)
- TITLE** : A Least Square Support Vector Machine Approach for Contingency Classification and
- AUTHOR** : Bhanu Pratap Soni, Akash Saxena and Vikas Gupta
- JOURNAL** : Cogent OA Engineering, Taylor and Francis, January 2016. Available online <http://dx.doi.org/10.1080/23311916.2015.1137201>. ISSN 2331-1916
- TITLE** : Grey Wolf Optimizer based Regulator Design for Automatic Generation Control of Interconnected Power System
- AUTHOR** : Esha Gupta and Akash Saxena
- JOURNAL** : Cogent OA Engineering, Taylor and Francis, February 2016. <http://dx.doi.org/10.1080/23311916.2016.1151612>. ISSN 2331-1916
- TITLE** : Achievement of Large Normalized Delay Bandwidth Product by Exciting Electromagnetic-Induced Transparency in Plasmonic Waveguide
- AUTHOR** : Rukhsar Zafar, M.Salim
- JOURNAL** : IEEE Journal Of Quantum Electronics, Vol. 51, No. 10, October 2015, (ISSN :0018-9197, doi: 10.1109/JQE.2015.2472979)
- TITLE** : Enhanced Figure of Merit in Plasmonic Refractive Index Sensor based on Fano Resonance
- AUTHOR** : Rukhsar Zafar, M.Salim
- JOURNAL** : IEEE Sensors Journal, Vol. 15, No. 11, November 2015. (ISSN :1530-437X, DOI:10.1109/JSEN.2015.2455534)
- TITLE** : Behavioral Response of Pyrite Structural Co_{0.2}Fe_{0.8}S₂ Nano-Wires under High-Pressure to 8 GPa-Mössbauer Spectroscopic and Electrical Resistivity Studies.
- AUTHOR** : Pooja Sharma, Lecturer, Department of Physics
- JOURNAL** : Journal of Physics and Chemistry of Solids, (Imp. Factor: 1.85). Volume 89, November 2015.
- TITLE** : First Principle Study: Electronic Structure of Al₂O₃(Al)- Codoped Zink Oxide
- AUTHOR** : Dr. R. K. Jain, Professor, Department of Physics
- JOURNAL** : SKIT RESEARCH JOURNAL (An International Journal of Engineering, Science, Humanities & Management) ISSN 2278-2508, pp 65-67, Volume 5, Issue 2, 2015.
- TITLE** : Compact CPW Fed Broadband Planar Antenna with Improved Gain for WLAN & Wi-Max Applications
- AUTHOR** : Pawan Kumar Jain, Lecturer, Department of Physics
- JOURNAL** : SKIT RESEARCH JOURNAL (An International Journal of Engineering, Science, Humanities & Management) ISSN 2278-2508, pp 68-71, Volume 5, Issue 2, 2015.
- TITLE** : Voltage Stability Assessment Using the Concept of GVSM
- AUTHOR** : Ankit Kumar Sharma, Sarfaraz Nawaz, Dr. R.

JOURNAL : Tiwari
IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) e-ISSN: 2278-1676,p-ISSN: 2320-3331, Volume 10, Issue 6 Ver. I (Nov - Dec. 2015), PP 21-26

TITLE : Data Transmission and Reception using Text Steganography with Error Detection.

AUTHOR : Ms. Anjana Sangwan
JOURNAL : International journal of Science Engineering and Technology

TITLE : "Traffic routing in mixed line rate optical WDM networks under dynamic traffic"

AUTHOR : Kiran Rathi, Ranjana Kumawat
JOURNAL : SKIT research journal, volume 6, issue 1(2016), ISSN - 2278-2508

TITLE : "Design and simulation of reconfigurable microstrip patch antenna with frequency and pattern switching"

AUTHOR : Vinita Agarwal, Avinash Kumar Singh, Dheeraj Sharma
JOURNAL : SKIT research journal, volume 6, issue 1(2016), ISSN- 2278-2508

TITLE : "Fabrication and characterization of thin film structure as resonant tunneling diode"

AUTHOR : Swati Arora, Subodh Srivastava, Y. K. Vijay
JOURNAL : SKIT research journal, volume 6, issue 1(2016), ISSN- 2278-2508

TITLE : Achievement of Large Normalized Delay Bandwidth Product by exciting electromagnetic-induced transparency in plasmonic waveguide

AUTHOR : Rukhsar Zafar, M. Salim
JOURNAL : IEEE journal of quantum electronics, volume S1, No. 10 (October. 2015)

TITLE : "Enhanced Figure of Merit in Plasmonic Refractive Index Sensor based on Fano resonance"

AUTHOR : Rukhsar Zafar, M. Salim
JOURNAL : IEEE sensors journal, volume 15, No. 11 (November. 2015)

TITLE : "Analysis and synthesis of adaptive equalization techniques under various modulation techniques"

AUTHOR : Ankit Agnihwal, Shinu Soni
JOURNAL : IEEE International Conference on Recent Developments in Control, Automation and Power Engineering (RDCAPE), 2015, Print ISBN: 978-1-4799-7246-3

TITLE : Structural and optical properties of pulsed laser deposited ZnO/TiO₂ and TiO₂/ZnO thin films

AUTHOR : Praveen K. Jain, Mohammad Salim, Davinder Kaur
JOURNAL : Optik - International Journal for Light and Electron Optics, 126 (21), 2015, 3260-3262

TITLE : Effect of Phase Transformation on Optical and Dielectric Properties of Pulsed Laser Deposited ZnO Thin Films

AUTHOR : Praveen K. Jain, Mohammad Salim, Davinder Kaur
JOURNAL : Superlattices and Microstructures, Superlattices and Microstructures, 92 (2016) 308e315

TITLE : "Gain flattening of WDM network for the C & L band using hybrid optical amplifier"

AUTHOR : J. P. Vijay, Surbhi Yadav
JOURNAL : International journal of advanced engineering, management and science, Vol-2, issue-1, pp 17-20, January 2016

TITLE : "Comparative analysis of free space optical and single mode fiber"

AUTHOR : J. P. Vijay, Pinky Vishwakarma
JOURNAL : International journal of advanced engineering, management and science, Vol-2, issue-1, pp 33-36, January 2016.

TITLE : "A new design formula for feedline dimensions of the microstrip patch antenna by using equivalent design concept".

AUTHOR : Monika Mathur, Abhijat Vats, Ankit Agrawal, S. K. Bhatnagar.
JOURNAL : Proc. of IEEE Conference publications, International Conference on Signal Processing and Communication (ICSC), pp 105-110, January 2015.

TITLE : "Transformation of design formulae for feed line of triangular microstrip antenna".

AUTHOR : Monika Mathur, Ghanshyam Singh, S. K. Bhatnagar, Swati Swami, Abhijat Vats.
JOURNAL : AIP Journal Proc. for International Conference in Communication Systems (ICCS), vol. 1715, pp 020035-(01-05). Oct. 2015.

TITLE : "An analytical approach for accurate design of MSPA using dielectric constant engineering (DCE)".

AUTHOR : Monika Mathur, Ghanshyam Singh, S. K. Bhatnagar.
JOURNAL : Springer Journal conf. proc. for International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP), pp 107-114, January 2016.

TITLE : Traffic Routing in Mixed Line Rate Optical WDM Networks under Dynamic Traffic

AUTHOR : Kiran Rathi, Ranjana Kumawat
JOURNAL : SKIT Research Journal, volume 6, issue 1(2016), ISSN - 2278-2508

TITLE : Design and Simulation of Reconfigurable Microstrip Patch Antenna with Frequency and Pattern Switching

AUTHOR : Vinita Agarwal, Avinash Kumar Singh, Dheeraj Sharma
JOURNAL : SKIT Research Journal, volume 6, issue 1(2016), ISSN - 2278-2508

TITLE : Fabrication and Characterization of Thin Film Structure as Resonant Tunneling Diode

AUTHOR : Swati Arora, Subodh Srivastava, Y. K. Vijay
JOURNAL : SKIT Research Journal, volume 6, issue 1(2016), ISSN- 2278-2508

TITLE : Analysis and Synthesis of Adaptive Equalization Techniques under Various Modulation Techniques
AUTHOR : Ankit Agarwal, Shinu Soni
JOURNAL : IEEE International Conference on Recent Developments in Control, Automation and Power Engineering (RDCAPE), 2015, Print ISBN: 978-1-4799-7246-3

TITLE : Structural and Optical Properties of Pulsed Laser Deposited ZnO/TiO₂ and TiO₂/ZnO Thin Films
AUTHOR : Praveen K. Jain, Mohammad Salim, Davinder Kaur
JOURNAL : Optik - International Journal for Light and Electron Optics, 126 (21), 2015, 3260-3262

TITLE : Effect of Phase Transformation on Optical and Dielectric Properties of Pulsed Laser Deposited ZnTiO₃ Thin Films
AUTHOR : Praveen K. Jain, Mohammad Salim, Davinder Kaur
JOURNAL : Superlattices and Microstructures, Superlattices and Microstructures, 92 (2016) 308e315

TITLE : Gain flattening of WDM network for the C & L band using hybrid optical amplifier
AUTHOR : J. P. Vijay, Surbhi Yadav
JOURNAL : International journal of advanced engineering, management and science, Vol-2, issue-1, pp 17-20, January 2016

TITLE : Comparative Analysis of Free Space Optical and Single Mode Fiber
AUTHOR : J. P. Vijay, Pinky Vishwakarma
JOURNAL : International journal of advanced engineering, management and science, Vol-2, issue-1, pp 33-36, January 2016.

TITLE : A New Design Formula for Feedline Dimensions of the Microstrip Patch Antenna by using Equivalent Design Concept.
AUTHOR : Monika Mathur, Abhijat Vats, Ankit Agrawal, S. K. Bhatnagar.
JOURNAL : Proc. of IEEE Conference publications, International Conference on Signal Processing and Communication (ICSC), pp 105-110, January 2015.

TITLE : Transformation of design formulae for feed line of triangular microstrip antenna.
AUTHOR : Monika Mathur, Ghanshyam Singh, S. K. Bhatnagar, Swati Swami, Abhijat Vats.
JOURNAL : AIP Journal Proc. for International Conference in Communication Systems (ICCS), vol. 1715, pp 020035-(01-05). Oct. 2015.

TITLE : An Analytical Approach for Accurate Design of MSPA using Dielectric Constant Engineering (DCE)
AUTHOR : Monika Mathur, Ghanshyam Singh, S. K. Bhatnagar.
JOURNAL : Springer Journal conf. proc. for International Conference on Recent Cognizance in Wireless Communication & Image Processing (ICRCWIP), pp 107-114, January 2016.

TITLE : Angel in the House
AUTHOR : Dr. Niraja Saraswat, Reader, Dept. of English
JOURNAL : International Journal of Linguistics and Literature (IJLL); ISSN(Print):2319-3956; ISSN(Online):2319-3964; Impact Factor(JCC): 3.8727; Page no. 45-50 May 2016

TITLE : Circularly Polarized Triple Band Glass Shaped Monopole Patch Antenna with Metallic Reflector for Bluetooth & Wireless Applications
AUTHORS : Dr. Brajraj Sharma, Pawan Kumar Jain
JOURNAL : AIP Conference Proceedings 1715, ISSN 1551-7615 020030, doi: 10.1063/1.4942712
<http://dx.doi.org/10.1063/1.4942712> (2016)

TITLE : Design of CPW Fed Printed Slot Antenna with Circular Polarization for UWB Application
AUTHOR : Dr. Brajraj Sharma
JOURNAL : AIP Conference Proceedings 1715, ISSN 1551-7615 020031, doi: 10.1063/1.4942713
<http://dx.doi.org/10.1063/1.4942713> (2016)

TITLE : optimal feeder reconfiguration and DG placement in distribution system
AUTHORS : Sarfaraz Nawaz, MD. Imran, Avdhesh Sharma, Anjali Jain
JOURNAL : International Journal of Applied Engineering Research Vol. 11. No. 7. 2016

TITLE : Some Finite Integrals Involving Srivastava's Polynomials and the Aleph Function
AUTHORS : Amber Srivastava & Rohit Mukherjee
JOURNAL : Kyungpook Mathematical Journal, Korea 56(2016), 465-471 H Index: 12 Scimago Journal & Country Rank 0.162

TITLE : Online Power System Contingency Screening and Ranking Methods Using Radial Basis Neural Network
AUTHORS : Kuldeep Saini and Akash Saxena
JOURNAL : International journal of electrical and electronics engineering research, Vol.6 no.3, pp 9-16, 2016 (ISSN: 2278-943X)

TITLE : Analysis of Distributed Power Flow Controller in Power System Network for Improving Power Flow Control
AUTHORS : Kuldeep Saini and Akash Saxena
JOURNAL : Indonesian Journal of Electrical Engineering and computer science, Vol.2 no.3, 2016 (ISSN: 2302-4046)

TITLE : Voltage Stability Assessment using GVSM and Preventive Control using SVC
AUTHORS : Ankit Sharma, Akash Saxena and Rajive Tiwari
JOURNAL : International Journal of computer applications, Vol.142 no.11 pp. 23-31, 2016 (ISSN: 0975-8887).

TITLE : Electric Price Forecast using Interbreed Approach of Linear Regression and SVM
AUTHORS : Deepak Saini and Akash Saxena
JOURNAL : Vol.2 No.3 (ISSN: 2302-4046).

TITLE : Principal Component Analysis based Strategy for Electrical Load Forecasting
AUTHORS : Nikita Mittal and Akash Saxena
JOURNAL : SKIT Research Journal, An International Journal of Engineering, Science, Humanities and Management, vol.6 no.1, pp 15-21, June 2016.

TITLE : Application of Supervised Learning in Detection of Coherency for Dynamic Security Enhancement in Power Systems
AUTHORS : Bhanu Pratap Soni, Akash Saxena and Vikas Gupta
JOURNAL : International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), 18-19 March, 2016.

TITLE : Voltage stability Assessment through Artificial Neural Network
AUTHORS : Ankit Sharma, Bhanu Pratap Soni and Akash Saxena
JOURNAL : International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), 18-19 March, 2016.

WORKSHOPS/CONFERENCES/ 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

WORKSHOP : National Workshop on Recent Advancement in Microwaves, Antenna & Spectrum (RAMAS-2015)

ORGANIZED BY : Govt. Mahila Engineering College, Ajmer
DATE : Sept. 18-19, 2015
ATTENDED BY : Dr. Brajraj Sharma

WORKSHOP : Application of Different Tools Used in Work Posture Assessment

ORGANIZED BY : International Conference on Humanizing Work and Work Environment-2015

HOSTED BY : IIT Bombay and NITIE, Mumbai
DATE : December 7, 2015

ATTENDED BY : Mr. Manoj Kumar Sain, Reader ME

WORKSHOP : Annual Assessment and Coordination Meet for BEC Examiners

ORGANIZED BY : Cambridge University, UK
DATE : March 7, 2016

ATTENDED BY : Ms. Neha Purohit, Reader, Department of English.

WORKSHOP : National Workshop on SOC9 System on Chip and Embedded System Design

ORGANIZED BY : MNIT in association with TQIP and Department of Electronics and Information Technology (DEITY)

DATE: 27-02-2016 to 02-03-2016

ATTENDED BY : Mr. Vinod Kataria

WORKSHOP : Emotional Intelligence

ORGANIZED BY : Federation of Indian Chambers of Commerce & Industry (FICCI),

DATE : 22 July 2016.

ATTENDED BY : Prof. Archana Saxena

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

TITLE : Glass Transition Temperature Study and Structural Characterization of Swift Heavy Ion Irradiated Polymers
CONFERENCE : National Conference on Thermo Physical Properties "NCTP-15"
DATE : December 14-16, 2015
VENUE : MNIT, Jaipur
PRESENTER : Dr. Manasvi Dixit

TITLE : A Brief Procedure for Ergonomic Design of Hand Tool for Small Scale Industries
CONFERENCE : International Conference on Humanizing Work and Work Environment-2015
ORGANISED BY : IIT Bombay and NITIE, Mumbai
DATE : December 6, 2015
ATTENDED BY : Mr. Manoj Kumar Sain, Reader ME

TITLE : Supervised Learning Paradigm based on Least Squares Support Vector Machine for Contingency Ranking in a Large Power System
Conference : International Congress on Information and Communication Technology,
Date : 9-10 October 2015
Venue : Udaipur, Rajasthan
Presenter : Bhanu Pratap Soni, Akash Saxena & Vikas Gupta

TITLE : Support Vector Machine based Approach for Accurate Contingency Ranking in Power System
CONFERENCE: 12th IEEE- India International Conference Electronics Environment Electronics communication Computer and Control (Indicon), Indicon-2015,
DATE : 20th December 2015
VENUE : Jamia Millia Islamia, New Delhi
PRESENTER : Bhanu Pratap Soni, Akash Saxena & Vikas Gupta

TITLE : Poster Presentation on ANN Based Fault Detection algorithm
CONFERENCE : Workshop on smart grid and clean technology
DATE : 28th November, 2015
VENUE : Manipal University, Jaipur
PRESENTER : Purva Sharma, Deepak Saini, Ankush Tandon and Akash Saxena

- TITLE** : Poster Presentation on ANN based Contingency ranking of a Large Power system
- CONFERENCE** : Workshop on smart grid and clean technology
- DATE** : 28th November, 2015
- VENUE** : Manipal University, Jaipur
- PRESENTER** : Kuldeep Saini, Akash Saxena and S.A. Siddiqui
- TITLE** : Application of Support Vector Machines for Fast and Accurate Contingency Ranking in Large Power System
- CONFERENCE** : Third International Conference on information system design and intelligent applications
- DATE** : 9th January 2016
- VENUE** : Vishkhapattanam.
- PRESENTER** : Bhanu Pratap Soni, Akash Saxena & Vikas Gupta
- TITLE** : A One class support vector machine for sentiments analysis of movie review
- CONFERENCE** : International Conference on Computer Science and Software Engineering (ICCCSE-15)
- DATE** : December 10-11, 2015
- VENUE** : Sydney, Australia
- PRESENTER** : Dr. C.M.Choudhary
- TITLE** : The K-Means Clustering based Fuzzy Edge Detection Techniques on MRI Images,
- CONFERENCE** : 5th International Conference on Advances in Computing and Communications (ICACC-15)
- DATE** : September 3-5, 2015
- VENUE** : Rajagiri School of Engineering and Technology, Kochi
- PRESENTER** : Mr. Mukesh Gupta, Mr. Pankaj Dadheech
- TITLE** : Evaluation of Stress Intensity Factor in Aluminium Plate under Mechanical Loading by Analytical & FEA Approach
- CONFERENCE** : International Conference on "Recent Trends in Mechanical & Manufacturing Engineering" (ICRTMME-2016)
- DATE** : April 8th -9th, 2016 in Jaipur, India.
- VENUE** : Department of Mechanical Engineering
- PRESENTER** : Department, Vivekananda Group of Institutions
Ajay Kumar Dhanopia
- TITLE** : Energy Simulation of Building using eQuest as a Simulation Tool
- CONFERENCE** : All India National Conference on "Energy and Sustainability in Engineering System (EASES-2016)
- DATE** : 18th & 19th March, 2016.
- VENUE** : Maharishi Arvind Institute of Engineering & Technology, Mansarover, Jaipur

BOOK PUBLISHED

- BOOK** : Power Generation
- AUTHORS** : Mr. Sudesh Garg and Mr. Keshav Jakhota, Lecturer ME
- PUBLISHER** : Ashirwad Publication

PHD AWARDED:

Ph.D. degree awarded to Ms. Pooja Sharma (Lecturer, Department of Physics, SKIT), From University of Rajasthan, Jaipur in January 2016.
Title of Thesis: Electrical Resistivity Measurements on Nanocrystalline (Fe, Ni) doped Co₂S under High Pressure.

COMPETITIONS AND EXHIBITIONS

Eight projects were displayed from ME, EE & EC departments in the state level project exhibition organized by the state government of Rajasthan at SMS investment ground on 13-16 January, 2016. It was organized in the context of successful completion of one working year of Rajasthan state government. This exhibition was coordinated by Mr. Ajay Kumar Dhanopia-ME deptt. Name of participated students are: Prayag Meena, Priyanshu Jain, Dheeraj Bhargava (VIII sem, ME)

'The lily out my window end'
 I'm glancing out of the window
 To enjoy the nature's tricky show
 The sun is well lit up
 And makes my world shine up
 The seasons just come and go ...
 With the breeze moving to and fro
 The lily out the window
 Which stands beneath the shadow
 meant for me , meant for me ...
 To shower the stuff which I could need
 The moment , it led me to roar
 The days just come & go
 The life was earlier just fear stricken,
 and now I want to fly, to fly
 It just only meant for me
 Now which I was so keen
 It was something for me , just for me
 Though it made me crazy....
 The wax has now melted up
 By letting all its sad fumes
 It's the time of high shine
 Which made me aware
 And now I want to fly , to fly
 Admidst the sun & skyyyyy...

Karan Bari, (IV Sem., EE)

COVER STORY

SOCIAL EXPLORATIONS in PRAVAH 2016 : Some Reminiscences

"We make a living by what we get, but we make a life by what we give."
Winston Churchill.

Student life is the most suitable occasion to foster a respectful and inclusive community life on campus, and explore one's own potentiality and develop leadership skills. Valuing the development of all students, SKIT provides curricular workshops, dialogues, opportunities, community spaces, and resources to promote self knowledge and growth within a larger social context. SKIT works alongside students to empower them as leaders, critical thinkers, community builders, and social change agents. There is a conscious effort to encourage the students to take responsibility and initiatives for the betterment of humanity. The Annual Blood Donation Camp at SKIT is a testimony to the fact that the institute realizes its accountability for society at large.

Being inundated with the spirit of social service, PRAVAH 2016 decided to explore opportunities for the amelioration of society. The underlying spirit was that the festivities of PRAVAH 2016 should not be restricted to fun and frolic alone but also should contribute in terms of social relevance and upliftment. The exploration commenced; a wide survey of areas near Jaipur was conducted. The students spread out their journey from Jhalana Doongri to Dausa, from village to hamlets on their conveyances. Their survey resulted in the discovery that there are certain places where the deprived are interested in money alone, not in skill development and betterment. Undoubtedly monetary assistance can't pave way to development. Hence the search continued and finally we zeroed down to Teetariya, a habitat of almost 5000 people. The place had a number of primary and middle schools and puccahouses, yet it offered scope for several new projects.

The afflicting issues were the shortage of clean drinking water, lack of skilled manpower, inadequate means of transport and many more. After an extensive survey and a meeting with the locals, the agenda was decided. After long deliberations, the issue of medical and health camp was taken up. We ignited alone but it takes two flints to make a fire. Personifying the same spirit, the work automatically proceeded and picked pace too. Sunday was kept for it as that would give students, villagers, faculty members and doctors a respite from their usual routine. Our high spirits reminded me of some chivalrous warrior ready to conquer the unconquered land. The cooperation of school authorities in general and the students in particular ensured all physical amenities necessary to conduct the camp. The officials from Rotary club also extended their support. The several doctors who spared their time for the philanthropic act also deserve to be applauded. As soon as the villagers thronged the venue, it gave us a sense of satisfaction that our efforts had finally succeeded. The complete physical check up with BP measurement was the most sought after. I got to know that such occasions are not only a means to seek medical counsel but also serve as a

platform for communication. The cacophony of kids, whispering with coyness, mesmerized us all. I could witness Deepa, one of my colleagues interacting with villagers and educating them in methods of sanitation. On the other hand, there was Dr. Krishna Sharma, addressing the youth about the importance of time and the various developmental projects in the pipeline. At the other end, I could see Aniruddh, guiding villagers to the venue. The most gratifying aspect was that the budding technocrats were landing a helping hand to all who found it difficult to walk. The students guiding the villagers to the venue, and assisting them in whichever way they needed showed unsuspected facets of their personalities. It was awe inspiring to find the engineers, often accused for lacking compassion, plunging into the task with an indomitable zest. I realized on that day that Time is a stern master as villagers kept arriving and we had to call it a day as the doctors had other engagements. After completion of first maiden project at Teetariya, I was convinced that the initiative is going to yield remarkable results.

The second project was pertaining to water problem. The villagers were cribbing about the quality of water and to my surprise, when it was tested in the lab, it revealed hazardous properties. The next mammoth task was to find some donor for water filtration plant. I was dismayed that I could not find a person who was ready to grant it for poor villagers. We live in a competitive society where business houses and individuals continually seek higher profits, and people on the bottom rung of the economic ladder are stigmatized as failures and blamed for their condition. Hence the team decided that it would be better to train people for water filtration instead of installing one plant. So we set out on the mission again. I could witness the team gleefully leaving the premises to train villagers on how to purify the water. It was a practical implementation of the knowledge which the students acquired in Chemistry Lab. The team members displayed their hands on experience and ensured that the villagers also got attuned to the skill. The zest of the school kids echoing the instructions was a treat to watch. The task was



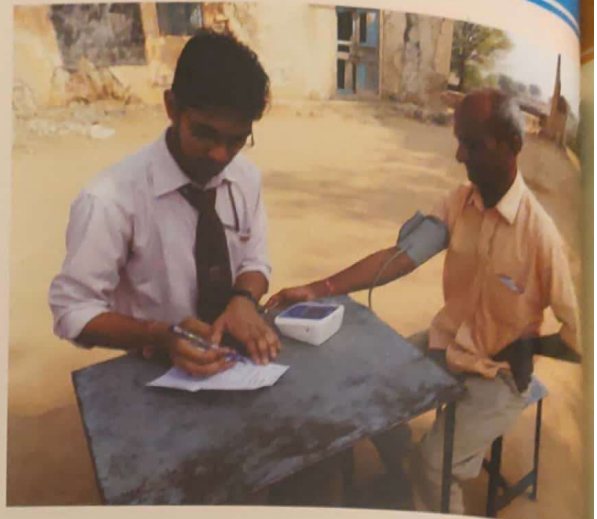
successfully accomplished.

I have a conviction that you perceive and some unknown forces of the universe come together to make it successful. The next item on the agenda was to hold a seminar in the college itself. But what will be the topic? And I have faint memories, someone discussing the case of a cancer patient and another person worrying at the rising number of cancer patients: and that is how we stumbled on the next project: 'a seminar on cancer awareness'. Dr. Naresh Soni, an eminent doctor of Fortis hospital, consented to be the guest speaker and all other arrangements fell in line smoothly. The day arrived and the session was unequivocally an eye opener, shattering certain myths about the disease and urging people to adopt a healthy life style.

On every visit the affinity with the villagers got fortified, the bond grew stronger. Unfailingly, we planned something for the barefoot kids of the govt. school. I still remember Prerna having sky-rocketing aspirations, Rakhi looking at us with curious eyes, Shyam with discerning look at our next project, Santo with a dubious look, and the suave principal of the school, all awaiting a session of career counselling. My colleague Nidhi expressed her wish to be with us on this rewarding mission. The eager look on the kids' faces compelled me to think that India really resides in villages. Their competence may be scanty but their aspirations are always lofty. Their searching queries about the different professions left me at my wits' end. I never anticipated that the village students would be so inquisitive, vigilant and innovative in their approaches. The girls outshone boys in their questions and answers also. The principal apprised us of the fact that the villagers still discriminate between the education of a girl and a boy: the boys are preferably sent to a private school. It made me worrying about the social stigma attached to being a girl and showering the boys with privileges they misuse. I am confident that one day the girls will fulfill all their aspirations and will become a pillar of strength for their parents as well. But let me come back to the session which proved a success and the kids' sparkling eyes, were an evidence of it.

The journey is not yet complete and it held one surprise for all of us. The team requested the principal for a performance of school kids on the inaugural day of PRAVAH 2016 and I acknowledge heartfelt thanks that he accepted our request. On the inaugural day, the kids arrived clad in folk dresses. Their debonair looks and scintillating performance left me teary eyed. The confident look, the flowing gestures and the calculated steps surpassed the skill of an adept choreographer.

The whole journey speaks volumes about the commitment of the student team and the support we garnered from the villagers who initially viewed our projects with doubt but later became very cooperative. Chhajuji, one of the villagers and a social worker, was a constant support. The bonhomie of the youth brigade deserves



no less credit. The middle school authorities, the teachers, deserve special mention as they always welcomed us with open arms. I would be failing in my duty if I did not acknowledge the efforts of the team of gramotkarsh, Dr. Krishna, Ms. Deepa, and the Directors and Management of SKIT who supported us in every act. How I wish that the chain of such philanthropic acts always go on and we become tools to serve the broader humanity, the havenots. Let us join hands to be compassionate and empathetic.



Dr. Niraja Saraswat
Convener, PravaH 2016

THE VIEW: INTERVIEWS BY THE STUDENT EDITORS

SRISHTI, A STEP TOWARDS GREEN TECHNOLOGIES



SRISHTI was launched at SKIT on 10th February 2016 by Shri A.K.Jain Managing Director REIL Jaipur. Our student editor Vinayak Sharma presents the vision and mission of the programme through a comprehensive interview of Prof. S.K Calla (Director, D&W) and Shri S.N Vijayvergiya, Dean (R&D), SKIT.

Q1. How was the idea of "SRISHTI" born?

Prof. Calla: Presently "PRAVAH" being celebrated at SKIT focuses primarily on extracurricular activities, entertainment, celebration with celebrities, fun & frolic, but not on ideation, creativity, innovation, research, development etc. We plan to focus on these during SRISHTI celebrations.

Q2. How did the name "SRISHTI" emerge?

Shri. Vijayvergiya: As a step towards net zero campus, we have installed 400 kW solar roof-top system contributing to 50% of our energy requirement. The remaining 50 % also is to be achieved through natural renewable energy resources providing sustainability through innovative application. Thus in Hindi an aptly fitting word is "SRISHTI", which is an acronym derived from Smart Renewable Integrating Sustainable Habitat Through Innovation.

Q3. How do we intend to achieve Net - Zero?

Shri. Vijayvergiya: We are planning to achieve a Net zero campus by eliminating energy consumable devices such as geysers, air-conditioners, etc. with solar thermal systems. Lighting with LED's & solar pipes, fans with BLDC motors, power switch for turning OFF- ON lights when no mobility in the room is observed, street lighting through net zero pole, waste to electricity etc. These efforts will make the campus near 'net zero' & improve the power factor also, as they are unity power factor devices.

Q4. What are the areas that shall be covered during technology development for a net zero campus? Where can all these technologies be applied?

Prof. Calla: Primarily it shall cover sustainability, solar, smart grids, Start up India, Smart India etc.

Q5. How are we planning to achieve a breakthrough in innovative technologies development?

Prof. Calla: We will achieve it through a bottom's up approach by involving student teams, faculty members, proof of concept preparation and involving them through clubs, namely Energy Club (Urja), Embedded Club (Srajan), Environmental Club (Harit),

Entrepreneurs Club (Udyamita). we also wish to start department wise brain-storming sessions.

Q6. What are the innovative proofs of concept developed so far?

Prof. Calla: Recently we launched a Battery-less NET ZERO LED street lighting system where energy consumed in the night time is fed to the grid through AC SOLAR MODULE & power switch to switch off loads with zero occupancy.

Q7. What are the spin off technologies which also shall be developed?

Shri. Vijayvergiya: Spin off technologies shall be developed to help the PM'S vision of clean & green India, Digital India, Start up India etc., come true.

Q8. How do we plan to proceed with the energy audit programme?

Prof. Calla: We have involved PCRA which has already started training our batch of students in energy audits expertise. Then we shall follow the train the trainer approach.

Q9. What are the activities we perceive going forward on a continuous basis?

Shri. Vijayvergiya: -PCRA lectures/renewable energy experts lectures under URJA CLUB.
-Embedded hardware/& software development under SARJAN.
-Solar cooling & waste to energy POC under HARIT CLUB.
-Setting up of a Techno Incubation centre under UDYAMITA CLUB.

Q10. How do we plan to kick start development in Renewable energy?

Shri. Vijayvergiya: We have already initiated involving our supplier of 400 KW roof top supplier M/S RAYS POWER EXPERTS by opening R&D Centre at the Mechanical department.



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



S. N. Vijayvergiya
Dean (R&D) SKIT

PRAVEEN NARULA, AN ALUMNUS OF SKIT

Praveen Narula, an alumnus of SKIT, visited the institute as a delegate from INFOSYS for a special session for the CS and IT students. Our student editor, Vishakha Bhandari, interviewed him on his experiences and memories. Here is the interview for our readers.

1. Please tell me something about yourself.

I am Praveen Narula. Mostly people recognise me by my surname, Narula. I graduated from SKIT, Jaipur in 2005 and joined Genpect, followed by WIPRO and Infosys. In 2012, I got the opportunity to move overseas, where I worked with one of the leading investment management companies.

2. We would love to know about your journey at SKIT. Do you miss those days?

I often feel nostalgic. I have shared great experiences with the institute. Having coordinated PRAVAH for 3-4 years and having been an apple of everyone's eye, I have always stayed in the limelight. Each day spent here is clear in my mind, be it boy's hostel, fights, classes, bunks or the canteen.

3. Do you think students of SKIT miss on any aspect?

If the question had come to me ten years ago, I might say yes because as students we do not realize what all we get from our institute. Today, after moving into the corporate world, I would not say so because you have state of the art, labs, grounds, auditoriums, seminar halls, etc. I don't see SKIT anywhere to be less than an IIT.

4. What do you remember about your teachers? How have they been a part of your journey?

I have not been taught by many teachers, still we have had a lot of interaction. They would always take our doubts seriously and cleared them personally. At our times, there was almost no conveyance available. Once I was in need and one of our faculty members gave me his scooty. They never limited our relationship to a student-teacher one. Instead, they were used to extending such helps too.

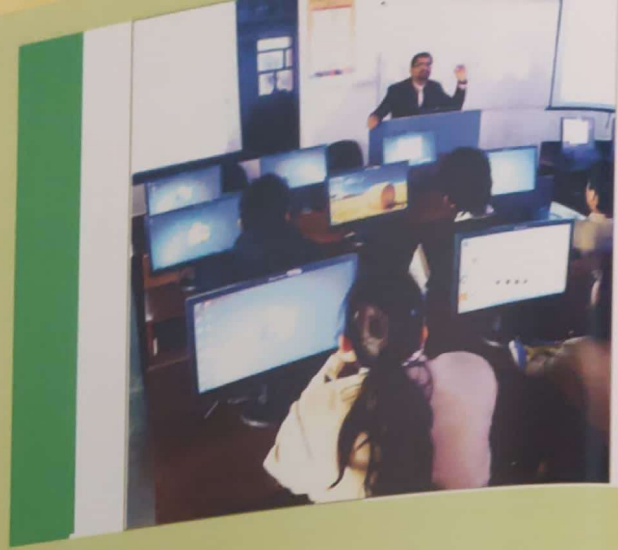
5. Do you believe that good communication skills are important? What is their role during placements?

Of course yes! There is a famous proverb in Hindi, 'Jungle mein mor nacha kisne dekha'. If you are not able to express yourself, you have already lost half the battle. It's really tough to judge the students

who aren't expressive. If you are able to communicate better, express yourself a better way, your perspective will definitely be understood.

6. What challenges did you face as a fresher,?

The first challenge was that the professional world was new to me. We didn't have any prior professional exposure like today. These



days various sessions, workshops, internships, campus programme take place before students are asked to join.

7. When you were a student, things were different. How do you feel living a professional life? Are those good old days missed?

I do miss those days. You need to be more formal and non-casual in the office like you used to bunk classes, you can't be in the office like you used to, you got to be on-time, always. Although professional life gives you career benefits viz. protection, exposure, and knowledge and keeps you updated, but college stands incomparable. You get experience and a platform to showcase your talent and implement the things learnt in college.

8. How do you feel coming to SKIT as a delegate?

I posted my experience on the facebook after my lecture here. In mere span of two hours it crossed 100 likes. I cannot describe words how it is to be in your own college after eleven years, too as a delegate. It is an enormous feeling. I feel happy as well as proud, that I am able to contribute to my college in some way.

9. I have heard that SKIT students carry a good image at Infosys. Please share your views.

When I got to talk to the H.R. and training cell at Infosys, I was offered a warm welcome as soon as they learnt that I have come from SKIT. They mentioned that they've got great candidates from SKIT and that SKIT's management has always been cooperative. SKIT conducts all the extra activities very religiously. The present scenario is that the students of the previous batches of SKIT are under high performers of our company.

10. What would you suggest to the students at SKIT?

Attitude is going to matter the most. Students need to be consistent in their work and should carry deep and sufficient knowledge of their subjects. There's no need to run after money for results, rather one should focus on excellence. Success will automatically follow.

EVERYONE HAS A STORY WHAT'S YOURS?



Savi Sharma
Author of best-selling novel
'Everyone Has a Story'

"What's your story? What is it about life that you demand? Is it the thought of success, money or fame that brings you to true happiness? Or is something else?"

After three years of hard work, late night studies and unlimited hours at classes, I was going to take my final year CA exams the next day. While solving an accountancy question that night, I didn't remember how the professor taught me to solve it but his favorite words he always repeated, 'Choice Apki Hai'.

After half an hour, I didn't write the solution to the accounts problem, but a poem with those same words 'Choice Apki Hai'.

I questioned what I actually wanted from my life - a Chartered Accountant Degree or something else.

I revisited my childhood days when I was seven years old and gave my first stage performance. I recited a lovely poem on life and won first prize.

I remembered how I sat enthralled at reading all the stories I came across. I recalled what I really wanted to become when I grew up - a journalist, a speaker or a storyteller. I realized that this was the true calling of my soul.

I looked back at my life and realized that what always interested me were stories and that's what I wanted to become - A Storyteller.

Since that night, I took the road to my journey, my dream, my passion. I heard a little whisper from someone who was quiet since long, "You are walking on the right path!" It was my conscience, my heart.

This is how I found my story!

I know you want to write your own story as well but don't know how to start.

Let me help you a little: sit down, open your journal, pour a cup of coffee and try to remember your passions. Now work on the followings:

- What's your greatest talent and purpose? Know it and learn to speak with clarity and confidence about it. Tell your family and friends about it. Share it.
- Commit yourself to finding or creating your ideal job based on your talent or purpose, no matter what. No excuses. Marry your dreams.
- How much money you want to live? Be real, be practical. Calculate it. Remember, if you follow your passion, money often comes too.
- Give yourself regular reality checks. Upgrade yourself like your smartphone. Add more features to yourself. Learn, Change and Grow.
- Be patient. It takes 10 years to become an overnight success. Never lose hope. The universe is with you.

I would like to end here with few lines from my novel 'Everyone has a Story':

"Live life in moments, not in days or years or your schedules. Mostly, it's our misconception that we live our life the way we want. Every single step which we take is influenced by others. Only the part, which we hide from all and keep deep within our heart, is our own. I strongly urge you all to realize that hidden part of yours. Go, live that part. Live your life. Don't let your dreams die within you. Trust me, your struggle; your fight will be worth the risk in opening yourself up. Get up. Inhale the air of passion. Start your journey. Grab your dreams. Enjoy your mistakes. Dance to the rhythm of your heartbeats. Smile. Laugh. Love. Live."

CAMEO

an array of clubs

TOPAZ

Coordinator: Prof. M.L Bhargava, Mrs. Abba Meel,
Mr. Harminder Multani, Ms. Maneesha Kaushik

participants across 30 cities of India. TOPAZ too was one of the active and enthusiastic participants of E-Week'16. The 8 days of E-Week'16 witnessed a Chain of activities, sessions, conclaves, seminars, workshops, outreach events, social entrepreneurship initiatives that were conducted to lay an emphasis on the development of essential dexterity among students so that they not just work upon their ideas but also implement them as well as know about the requirements of the market and then work accordingly to transform their 'Innovative Ideas into a Better World'.



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.

With sessions like Manthan: A Conclave of Women Entrepreneurs, The Empire of Young Entrepreneurs, PRAKALP: Tech-fest cum Exhibition, Idea Emporia, outreach events like Idea Marathon, Thunder Clap, Daastangoi (Ancient Method of Telling Stories) and with 95 FM Tadka as our Broadcast Partners, Team TOPAZ was able to approach around 30 lakh people with a listenership of around 12,00,000+ across Jaipur, India and beyond.

This E-Week'16, our esteemed guests included Shri. Naren Bakshi, Serial Entrepreneur from Silicon Valley, Shri Rajiv Arora, Co-Founder, Amrapali Jewels, Mr. Aditya Kasliwal, Owner, Audi Jaipur, Mr. Puneet Sanghi, Owner, BMW Jaipur, leading women entrepreneurs like Ms. Shivangi Kasliwal, Ms. Nisha Jain Grover, Ms. Sangeeta Maithel, Innovative Architect etc. who shared their journey and experiences and are duly an inspiration for all of us. The relentless toil paid back in the form of three prestigious awards:

E-WEEK CELEBRATED

E-Week is one such euphoric initiative by Wadhvani Foundation's National Entrepreneurship Network which provides a platform for emerging entrepreneurs to showcase their innovative ideas. E-Week 2016 was centered on the theme "Innovative Ideas for a Better World" and was organized from 20th February, 2016 to 27th February, 2016. The convener of E-Week'16 was Ms. Maneesha Kaushik. The event witnessed the involvement of around 7,00,000

1. E-Week Champion Award: For the ultimate champion of the North Region. This served as a reward for the year round activities and activities conducted during E-Week to make students enterprising and make them learn the essence of entrepreneurship.
2. Best Anthem Award: It was certainly a proud moment for Team TOPAZ to be announced as the winners of making the best video for the NEN Anthem.
3. Best Campus Company Award: For a venture turning into a well-established Campus Company.

TOASTMASTERS CLUB

Coordinator : Prof. Pramila Bafna, Mr. Jitendra Gautam

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

responsible citizens of India.

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 Humourous 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 humourous speeches filled the room with many faces laughing and enjoying the moments as the contest unfurled.

ROBOTICS CLUB

Faculty Coordinator: Mr. Praveen Saraswat
(Sr. Lecturer, ME Deptt.)

The SKIT Robotics club that was started by a cluster of students on 15 august 2012 has entered in its 4th year of function. It is a club that creates, innovates and provides practical knowledge to the students about robots. The club offers indispensable guidance, workshops and tutorials along with tools, equipment, components to enhance practical knowledge among the students. Every year the various club activities are held. The organizers introduced the concept of basic electronics, sensors and actuators in the first session of the club activity. In the initial phase of club they worked upon the advanced technology AVR microcontroller. After that the students were trained in the very new revolutionary technology (Arduino

microcontroller boards). Since then the members of the club have completed more than 50 projects which include the basic level line follower robot and the nationally acclaimed project in the clean India mission.

Some of projects are as follows-

1. Line follower based on 2, 3, 4, 5 sensors
2. Maze solving bot
3. Fall avoiding bot
4. Collision avoiding mechanism
5. Stair climbing bot
6. Digital sand fall clock
7. Gravity operated generator
8. LCD games



9. Distance measuring device using IR sensor
10. Robo soccer bots
11. Pick and place bot
12. Mopping bot
13. Glider
14. Bluetooth controlled domestic appliances
15. Voice controlled home automation
16. Gesture controlled bot
17. Radio application in automation
18. Automatic Dustbin
19. Different automation applications in automobile

Club members also participated in various competitions at college level, state level and on the international platform. We are proud to mention that in every competition we won various prizes.

➤ **Techfest IIT-BOMBAY**

- Blockwarrior
- Maze runner
- Code blitz

➤ **Corona: Anad international college**

- Line follower
- Junkyard wars
- Googlemania

➤ **Plint: MNIT, JAIPUR**

- Line follower
- Roborace
- Innovative ideas

➤ **Renaissance: JECRC, Jaipur**

- Junk jugad
- Robo wars
- Robofloor
- Line follower

Besides this a project of robotics club Easy BIN has gained lot of attention at national and international platform. The idea of bin has got lot of funding and has been converted into entrepreneurship start up. The club was also able to accelerate its relation with IIT-Bombay, and is going to establish a Robotics lab in collaboration with e-yantra program of IIT-Bombay.

Robotics club has also encountered a remarkable presence in the college fest Pravah 2016. There were huge numbers of participation from the club which comes about more than 400 participants in the 3 events organised by the club. The events were as follows:-

▪ **Block warrior**

- ✓ Pick and place robot
- ✓ 25 teams participated
- ✓ Prize was distributed by the club to the winners

▪ **Line follower**

- ✓ Line follower robot
- ✓ 30 teams participated
- ✓ Prize was distributed by the club to the winners

▪ **Robo race**

- ✓ Basic DC machine
- ✓ 40 teams participated
- ✓ Prize was distributed by the club to the winners

The club is proud to state that we are continuously organising zonals Tchnovoltz, Techfest IIT-BOMBAY, Mumbai. This year also organized it and managed the event; the participants from all over the north zone came for the event.

Robotics club organised a memorial programme on account of Swami Keshvanandjayanti on 24 February 2016. The event was organised to mark and celebrate the birth of Swami Keshvanand. Students were present in large numbers and showed great interest in the participation. The event was graced by the esteemed presence of Dr. Vinita Sharma (in-charge extra-curricular activities) and Praveen Saraswat (Sr. Lecturer, ME Deptt.)

ASME

Coordinator: Mr. Manoj K. Sain

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. 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 Students Section and Head Mechanical Department, motivated and appreciated the students for this programme. Mr. Manoj K. Sain, Reader, ME, Mr. Brij Mohan Sharma, Sr. Lecturer, ME and Arun Beniwal, Lecturer, ME will be the faculty coordinators for this training programme. The student coordinators are: Mohit S.

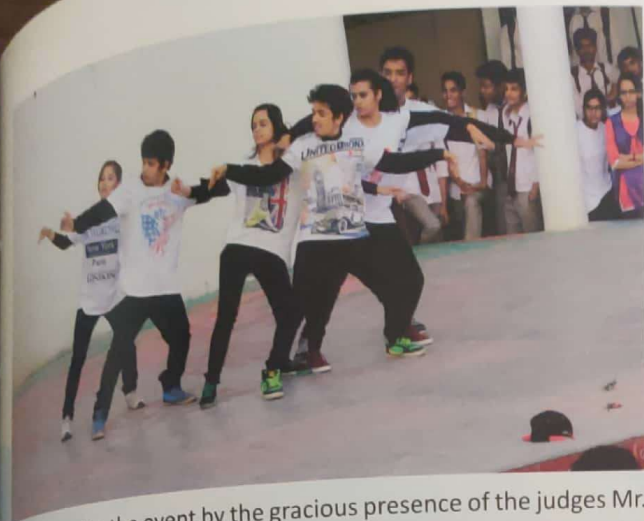


Manish Jalan and Naman Garg (V Semester, ME)

CULTURAL CLUB

Coordinators: Ms. Chitra Manro, Dr. Shalini Shekhawat

An electrifying and energetic dance competition, Spotlight, organized as a Wednesday activity. Enthusiastic participation and the support of the students made the show a great success.



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'.

CHATRA SANSAD

Coordinators: Dr. Anurag Sharma, Dr. Brajraj Sharma



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 & congratulated the Chatra Sansad team for raising such a contemporary issue, pertaining to all sections of society.

IETE STUDENT CHAPTER

Coordinator: Mr. Ankit Agarwal

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 Ramrakhiani, 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

NIRMAAN CLUB

Faculty Club Coordinator : Mr. Akash Johri, Mr. Jitendra B Jangid

S.No	Name of the Activity	Da
1	CARD – CASTLE Competition Students were provided with a pack of cards and they had to make an innovative castle with it.	5/1
2	POSTER – MAKING Competition A poster competition on the topic “connection :ancient to modern architecture in India” was organized in the department.	12/
3	BRIDGE- O – MANIA Competition Students had to make models on different types of bridges using waste newspapers. The models were judged on the basis of their design, elegance, creativity and technical aspects.	19/
4	MODEL - MAKING Competition A Model making competition was organized where, students made models on different types of Elevations. The basis of selection was design, elegance and creativity of the model.	21/
5	MODEL - MAKING Competition A model making competition, where students made posters related to different aspects of civil engineering, in solo or in group.	2/11
6	PAPPERAZZI Competition A competition in which students had to make CE structures like bridges by news papers, drawing sheets etc.	2/11
7	STRAW SCRAPPER Competition A STRAW SCRAPPER competition, where students showed their talent in making structures like bridge by straw, ice cream sticks etc.	2/11
8	POSTER - MAKING Competition A model making competition, where students made posters related to different aspects of civil engineering, in solo or in group.	2/11
9	Quiz Competition 2015 This club is only for students of Civil Engineering Department. The club will provide a platform to students for exploring themselves through following areas: 1. Seminars 2. Projects/Research 3. Quiz (technical and non-technical) 4. Group discussions on current affairs topic related to Civil Engineering . 5. Solved paper on G.A.T.E., C.A.T., P.S.U., Govt. exams etc. The club also provides platform to students to prepare themselves for PSU’s , GATE and other competitive examinations by discussing technical problems as well as to prepare themselves for interviews.	

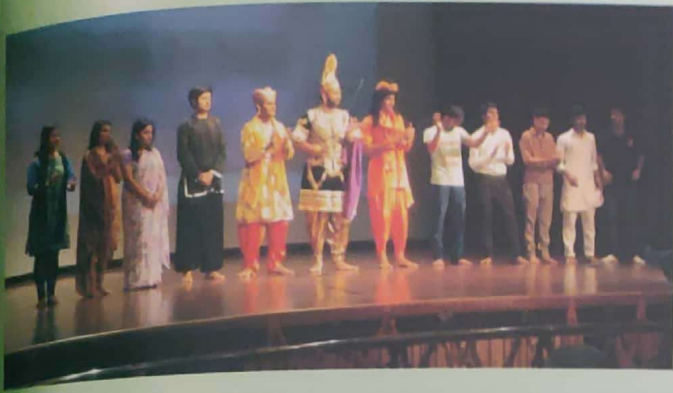
THE NSS CLUB

Coordinator: Dr. Lalit Gehlot

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 known as RAJWADA SINGER.

The NSS students also organized an event to spread awareness about National Service Scheme for the new batch 2015 disciplines in the SKIT campus. The volunteers are planning to inter-college PPT competition on DIGITAL INDIA very soon.

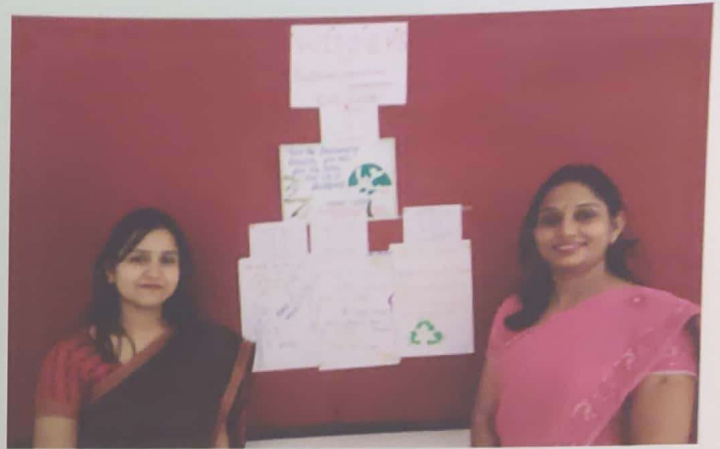


DOCU DRAMA CLUB

Coordinator: Dr. Neha Purohit

Docu.Drama, a club to foster amateur theatre, recently staged a Hindi play, Bhola Ram ka Jeev. This play was a dramatic transcreation of a story written by the noted Hindi writer Shri Harishanker Parsai 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.

Gupta (ME, 1st year), Kapil Jetawat (ME, 1st year) were the 2nd runners up.



16-9-2015 Best Out of Waste: Club also organized an activity called Best Out of Waste, in which students prepared some objects from waste material like water bottle, cardboard box etc.

ECO FRIEND'S CLUB

Coordinator: Prof. (Dr.) Archana Saxena,
Dr. Meena, Dr. Poonam Ojha, Dr. Shurbi Jain

Activities (2015-16)

19-8-2015 Selfie with Nature: 22 students participated in this activity. Archit Jain (IT, 3rd year) was the winner, Nishant Jain (CS, 1st year) and Vaibhav Jain (CE, 3rd year) were the runners up.



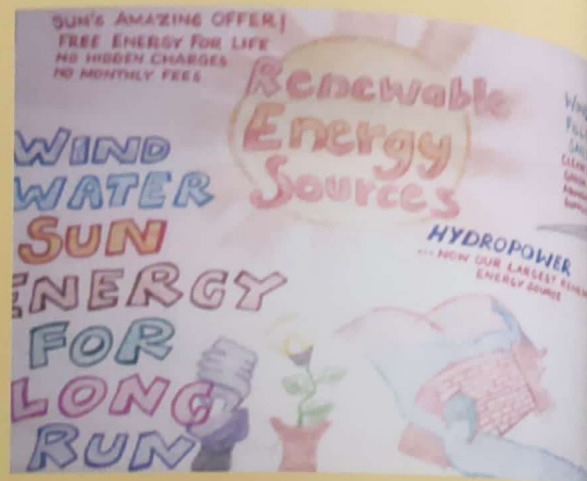
9-9-2015 Slogan Writing Competition: 15 of the club members participated in the activity. The theme of slogan writing was "Awareness Towards Environment". Suchita Gaur (CS, 1st year) was the winner, Swati Priya (CS 1st year) was the 1st runner up & Deepak



21-10-2015 Poster Competition: 15 students participated in the activity. The theme of Poster competition was "Renewable Energy Sources". Gaurav Sharma (ME, 2nd year) was the winner, Jyoti Yadav (EE 1st year) was the 1st runner up and Suchita Gaur (CS, 1st year), Divya Jain (CS, 1st year) were the 2nd runner ups.



25-11-2015 Invited Lecture: Prof. Vimal Bhanot, Former Pro-rector, BITS, Pilani and Environmentalist delivered a talk on environmental issues. He focused on the problem of solid waste disposal. He showed some videos based on solid waste generation owing to change in life style of humans



EXTRA-CURRICULAR/CO-CURRICULAR ACTIVITIES (IN CAMPUS)

Session- 2015-2016

S.NO.	NAME OF ACTIVITY	DATE	DESCRIPTION
1	Workshop(CS/IT)	3/8/15	Cloud Computing Basic and Hands on
2	Presentation (IE student chapter)	5/8/15	Self-Made Project
3	Card-castle competition (Nirman Club)	5/8/15	Competition
4	Poster Making competition (Nirman Club)	12/8/15	Connection : Ancient to modern architecture in India
5	Bridge O-Mania (Nirman Club)	19/8/15	Models on Different types of Bridges
6	Sudoku Cham (Science and technology club)	19/8/15	Puzzle
7	PPT & Video Demonstration (IE student chapter)	19/8/15	Principle, working and construction of Tesla Oil
8	Selfie With Nature (EFC Club)	19/8/15	Nature
9	Cad & Solidwork Workshop	19/8/15	ASME Student Chapter
10	Panel Discussion (SKIT ChhatraSansad)	26/8/15	Effect of Media on Youth in contemporary Scenario
11	Seminar (IE student chapter)	26/8/15	Magnetic Generator
12	Seminar (IE student chapter)	2/9/15	Permanent Magnetic Recharging
13	Quiz (Science & Technology Club)	2/9/15	Day to day Science Quiz
14	Slogan writing Competition (EFC Club)	9/9/15	Awareness towards Environment
15	Model making competition (Nirman Club)	9/9/15	Different types of elevation
16	Discussion (IE student chapter)	9/9/15	Permanent Magnetic Recharging
17	Best out of waste Competition (EFC Club)	16/9/15	Best out of Waste
18	Seminar & Group Discussion (IE student chapter)	16/9/15	Teaching Skills, Concentration, Motivation & Entrepreneurship
19	Speech Contest	20/9/15	Toastmaster Speech Contest
20	Blood donation Camp	26/9/15	Red Cross youth society
21	Quiz (Vivekananda kendra)	30/9/15	SafalYuva- Yuva Bharat
22	Presentation	8/10/15	Smart City Plan & Proposal
23	Seminar (ASME Student Chapter)	21/10/15	CAD/CAM & Solid Works

Short Play (Docu.drama Club)	21/10/15	Bhola Ram Kajeew
Literary Event	23/10/15	Poetry Recitation Competition
Invited Talk (Eco friend Club)	25/10/15	Current issues on Environment
SKIT Idol	4/11/15	Singing Competition
Workshop (CS/IT)	26/11/15	Cyber Security & Forensics
Debate	2/12/15	Importance of moral values and strong character
Seminar	9/12/15	Cancer awareness
Expert Lecturer (Civil Dept.)	18/1/16	Importance of hot Mix asphalt design
Expert Lecturers (ME Dept.)	18-26/1/16	Detailing of solid Model using cero software
Invited Talks (ME Dept.)	5-11/2/16	3-D Modeling & Assembling using cero software
Sketching Competition	17/2/16	Swami Keshvanandji
Surkshetra	17/2/16	Duet Singing Competition
Robo Race (Robotics Club)	20/2/16	Competition
Panel Discussion	24/2/16	Indian Democracy-Old Challenge New Actors
Robowar (Robotics Club)	24/2/16	Competition
Seminar & Dental Checkup Camp	27/4/16	Dental Awareness Programme

EXTRACURRICULAR ACTIVITIES(2015-2016)

Students' achievements) (Outside College)

S.No	Date	Student's Name	Event	Venue	Achievement
1	Jul-15	Arunkumarkumawat, Aayush swami	Robo Race	JNU, Jaipur	Runner up
2	Jul-15	Shekhar swami, Mayank swami Gargi swami	Robo Race	JNU, Jaipur	Participant
3	Oct-15	Anandkumar, Sunil Kumar, Rajeev Rattan Singh, Aslam Khan	Junkyard Wars	JKLU, Jaipur	Winner
4	Oct-15	Harisingh	Web Designing	JKLU, Jaipur	Winner
5	Oct-15	Arun Kumar Kumawat, Aayush Swami, Kaushalendra Gulpadiya	Robo Race	JKLU, Jaipur	Winner
6	Oct-15	Shekhar Swami, Mayank Swami, Gargi Swami, Priyanshu Kumar, Suraj Kumar	Junkyard Wars	JKLU, Jaipur	Participant
7	Oct-15	Shekhar Swami, Mayank Swami, Gargi Swami, Priyanshu Kumar, Suraj Kumar, Prayag Meena, Amit Sharma, Ajay Shahu, Anadkumar, Rajeev Ratansingh, Aslam Khan, Sunil Kumar Aadesh Gautam	Robo race	JKLU, Jaipur	Participant
8	Oct-15	Arun Kumar Kumawat, Aayush Swami, Harish Bairwa, Kaushalendra Gulpadiya, Suraj Kumar, Priyanshu Jain, Prayag Meena, Neha Saini, aadesh Gautam, Samyank Jain Sunil Kumar, Rajeev Ratnasingh, aslam Khan, Neha Thakur Mayank Agarwal, Jaffar Sherief, anish Kumar, Akshat Kumar	Mechatron	SKIT, Jaipur	Participant
9	Dec-15	Himanshu Tongya and Himanshu Sharma	Coding Competition IIT Techfest	IIT, Mumbai	4 th Position
10	Mar-16	Arun Kumar Kumawat, Aayush Swami, Harish Bairwa Kaushalendra Gulpadia	ROBO RACE	SGVU, Jaipur	2 nd Runner Up
11	Mar-16	Priyanshu Jain, Prayag Meena, Shekhar Swami, Abhishek Sharma, Gaurav Dadhich, Shailendra Saraswat, Vikas Gaur, Prateek Surana	Robo Race	SGVU, Jaipur	Participant
12	Mar-16	Arun Kumar Kumawat, Aayush Swami, Harish Bairwa Shekhar Swami, Abhishek Sharma, Kaushalendra Gulpadia	Robo Soccer	SGVU, Jaipur	Participant
13	Mar-16	Anand Kumar, Sunil Kumar, Arjun Patidar, Suraj Kumar	Line Follower	GTC, Jaipur	Participant

14	Mar-16	Arun Kumar Kumawat, Aayush Swami, Kaushalendra Gul Padiya, Harish Bairwa, Mayank Aggarwal, lakshya, Shailendra Saraswat, Gaurav Dadhich, Vikas Gaur, Prateek Surana, Vikas Bhadwa, Rawat Prateek, Pawan Sharma	Robo Race, Renaissance 2016	JECRC, Jaipur	Participant
15	Mar-16	Arjun Patidar	Robo Race	JNIT, Jaipur	Winner
16	Mar-16	Anandkumar, Surajkumar, Sunilkumar, Arjun patidar	Line Follower	JECRC, Jaipur	Participant
17	Mar-16	Arun Kr. Kumawat, Ayush Swami, Harish Bairwa, Kaushalendra Gul Padiya	Speed Racer, Techideate	MIT, Jaipur	Winner
18	Mar-16	Gaurav Dadhich, Shailendra Saraswat, Vikas Gaur, Prateek Surana	Speed Racer, Techideate	MIT, Jaipur	2 nd Runner
19	Mar-16	Abhisheksharma, Sanjay Kumar, ajaysahu, Amit Sharma	Line Follower, Techideate	MIT, Jaipur	Participant
20	Mar-16	Rajeev Ratna Singh, Sunil Kumar, Md Aslam Khan, Anand Kumar, Suraj Kumar, Abhishek Sharma, Ajay Sahu, Amit Sharma Sanjay Kumar, Shubham Revarti, Shubham Kishore, Vivek Soni Shubham Kumar, Jay Vyas, Kamal Kasara, Saharsh Vashishtha Satya Prakash, Sagar Sharma	Speed Racer, Techideate	MIT, Jaipur	Participant
21	Mar-16	ChiragThawani	Lan Gaming	JECRC University, Jaipur	3 rd Position
22	Mar-16	PrateekDurana	Speed Racer	Manipal University, Jaipur	3 rd Position
23	Mar-16	Kritartha Paliwal	Comic Quiz, Annual Fest	Manipal University, Jaipur	4 th Position
24	Apr-16	Harshitu Padhyay, Aalekh Mathur, Navdeep Singh, Vikram Jeet Singh, Pushpender Singh, rakesh Bhati, Jayesh Adwani, Sourabh	Street Play Competition Annual Fest MNIT	MNIT, Jaipur	4 th Position
25	Apr-16	Priyanshu Jain, PrayagMeena	Greenovation	MNIT, Jaipur	Winner
26	Apr-16	KritarthaPaliwal	Mega Quiz Annual Fest, BIT	BIT, Jaipur	2 nd Position
27	Apr-16	Kritartha Paliwal	Comic Quiz Annual Fest, BIT	BIT, Jaipur	3 rd Position

Hopes are lost, Wishes are lost

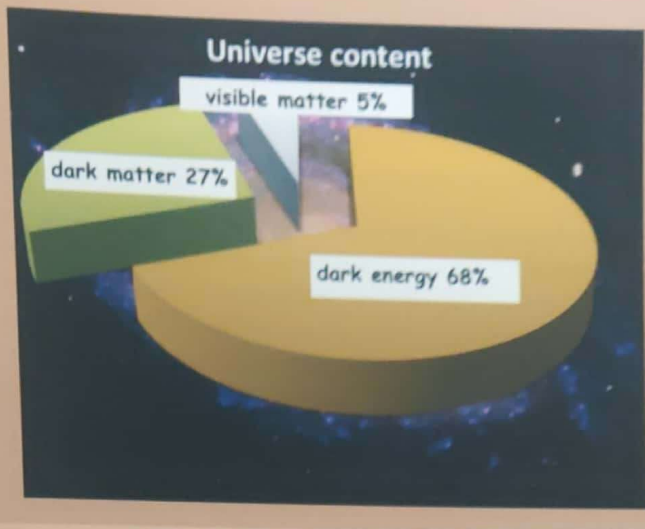
Hopes are lost, wishes are lost
 Courage is lost, hence the wisdom
 Nothing is left to be lost now
 Except again a true regret
 Everything now appears fragmented
 For all I had once dreamt of
 To survive in this world
 Where survival of the fittest
 Follows on
 Life has become just a pond of stagnant water
 Where all my befallen stuff has decomposed it
 All I need is to say...
 These are the lines of the past
 Which show I lag with millions apart
 Karan Bari, (IV Sem., EE)

The Girl who Hid Herself

She walked me by laughing aloud,
 But nobody knew that was to
 hide her grief in crowd.
 Laughing to the loudest
 she turned with a cherished smile,
 Missing no chance to be happy already in a pile.
 Excluding one day she was never sad,
 Because that day was worstly bad.
 Never getting angry because of any single being,
 Rather she had compile of things.
 I was shocked when, while laughing, she suddenly cried
 Inside her every moment, she imagined, had died.
 It was just starting of her life,
 And one day will cut every
 sadness with a sharp edged knife
 Raja Agarwal, (IV Sem., EE)

NEW MODEL TO DECODE THE INVISIBLE DARK MATTER

Dark matter is a hypothetical type of matter composing the approximately 27% of the mass and energy in the observable universe. Only 5% is the matter which all known materials consist. The rest of the energy is dark energy, an unknown form of energy which is theorized to permeate all of space, tends to accelerate the expansion of the universe. Dark matter refers to the fact that it does not emit or interact with electromagnetic radiation, such as light, and is thus invisible to the entire electromagnetic spectrum. Although dark matter cannot be directly observed with conventional electromagnetic telescopes, its existence and properties are inferred from its various gravitational effects such as the motions of visible matter, via gravitational lensing, its influence



Now a team of researchers has presented a new model for what dark matter might be. Since no experiments have ever seen even a trace of a WIMP, it could be that we should look for a heavier dark particle that interacts only by gravity and thus would be impossible to be detected directly. The researchers call their version of such a heavy particle a PIDM particle (Planckian Interacting Dark Matter). They calculated how the required number of PIDM particles could have been created in the early universe. If the universe indeed was as hot as calculated in their model, several gravitational waves from the early childhood of the universe would have been created. There are number of planned experiments around the world that will be able to detect signals from very early gravitational waves. Thus gravitational waves can be used to test their model. If these experiments do not detect such signals, then their model will be falsified.

Reference: *Physical Review Letters* 116 (2016) 101302

on the universe large-scale structure, and its effects in the cosmic microwave background. Dark matter is transparent to electromagnetic radiation and is so dense and small that it fails to absorb or emit enough radiation to be detected with current imaging technology.

For decades, researchers have tried to detect this invisible dark matter. Several types of devices have been put up on Earth and in space to capture the particles that dark matter is supposed to consist of. Several experiments have attempted to create a dark matter particle by colliding ordinary matter particles at very high temperatures. Despite all these initiatives no dark particle has yet been detected. Physicists have been working on the theory that dark matter is light and therefore interacts weakly with ordinary matter. This means that the particles are capable of being produced in colliders.

This theory's dark particles are called weakly-interacting massive particles (WIMPs), and they are theorized to have been created in an inconceivably large number shortly after the birth of the universe 13.7 billion years ago.



Dr. Komal Sharma
Reader, Dept. of Physics

IMPACT OF ICTS ON LEARNING & ACHIEVEMENT

A Knowledge Map on Information & Communication Technologies in Technical Education

There is widespread belief that Information and Communication Technologies (ICTs) can and will empower teachers and learners, transforming teaching and learning processes from being highly teacher-centered to student-centered, and that this transformation will result in increased learning gains for students, creating and allowing for opportunities for learners to develop their creativity, problem-solving abilities, informational reasoning skills, communication skills, and other higher-order thinking skills. However, there are currently very limited, unequivocally compelling data to support this belief.

Difficulty: One of the enduring difficulties of technology use in education is that educational planners think of the technology first and then investigate the educational applications of this technology only later. It is believed that specific uses of ICT can have positive effects on student achievement when ICTs are used appropriately to complement a teacher's existing pedagogical philosophies.

Area of Use: Uses of ICTs for simulations and modeling in science and math have been shown to be effective, as have word processing and communication software (e-mail) in the development of student's language and communication skills. Computer Aided Instruction (CAI), which refers generally to student self-study or tutorials on PCs, has been shown to slightly improve student test scores on some reading and math skills, although whether such improvement correlates to real improvement in student learning is debatable.

Planning: Planning for segregation of the content-delivery with the use of ICTs requires extra time and further, it is required to have an impact analysis which finally analyzes the use of ICTs for that particular content. As mentioned earlier, use of ICTs for computer based courses appears effective for self study. In other category of

courses, which mostly deal with the theories and concepts, additional efforts and time is required to have an input of ICTs.

Efforts to promote ICTs: All India Council for Technical Education (AICTE) with the help of some very renowned Indian institutions working towards offering options to enhance the use of ICTs in student centered learning and all time availability of ICT resources. Evidence exists that use of ICTs can increase learner autonomy for certain learners. AICTE has identified some ICT tools to help towards better learning through ICTs, viz. Open Source Software (FOSS), Spoken Tutorials (STs), NPTEL Video and Lecture Notes, Virtual Labs, Text Book Companion (TBC) Projects etc. In this context, AICTE also provisioned the use of ICTs in teaching-learning, through National Board of Accreditation (NBA). Importance to be an NBA accredited institution is very well known. Moreover, it should also be observed for student benefits in terms of learning and achievements. Evolution is the nature and every thing evolves as per tradition, which complements the present requirements and obsolesces the non required elements. Teaching and learning has evolved in terms of media, methods, objectives and behavioral aspects.

Dedicated ICT-related interventions in education that introduce a new tool for teaching and learning, may show improvement merely because the efforts surrounding such interventions lead teachers and students to do 'more' (potentially diverting energy and resources from other activities). So, if the clear goals and interventions are set for use of ICTs in technical education, it would surely benefit the learner's autonomy.



Dinesh Kumar Sharma
Sr. Lecturer, Dept. of ME

ENGINEERING SAYS SOMETHING...

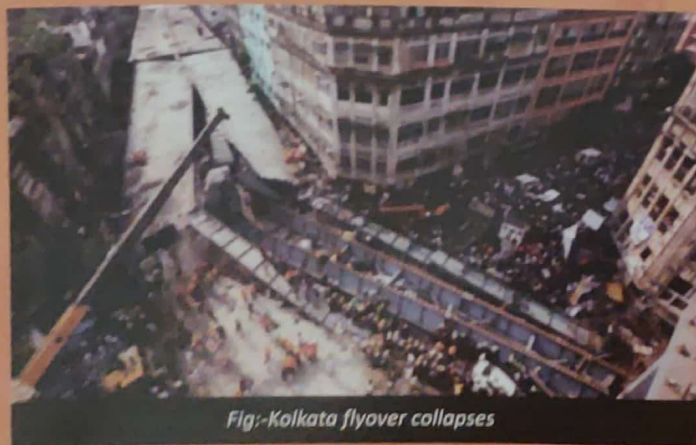


Fig.-Kolkata flyover collapses



In modern times innovation is a must. Engineering plays a very vital role in innovation. Engineering develops technology to make this era modern. But sometimes in doing this we forget about a very important aspect, which is safety. Engineering says safety first because if we make a single mistake, it can lead to serious accidents causing human tragedy. One of the examples of the aforesaid is the "collapsed under-construction flyover in North Kolkata".

For this tragedy, engineers and executives of the project are responsible. When a surgeon operates a single person's life is at risk; but when an engineer does so, thousands of lives are at stake. So

engineering says safety and skill are of high importance to all engineers



Chandan Kumar
Lecturer, Dept. of ME

UNDERWATER WELDING

INTRODUCTION

The fact that electric arc could operate was known for over a 100 years. The first ever underwater welding was carried out by British Admiralty - Dockyard for sealing leaking ship rivets below the water line. Underwater welding is an important tool for underwater fabrication works. In 1946, special waterproof electrodes were developed in Holland by 'Vander Willingen'. In recent years the number of offshore structures including oil drilling rigs, pipelines and platforms are being installed significantly. Some of these structures will experience failures of its elements during normal usage and during unpredicted occurrences like storms, collisions. Any repair method will require the use of underwater welding.

CLASSIFICATION

Underwater welding can be classified as

- 1) Wet Welding
- 2) Dry Welding

In wet welding the welding is performed underwater, directly exposed to the wet environment. In dry welding, a dry chamber is created near the area to be welded and the welder does the job by staying inside the chamber.

WET WELDING

Wet Welding indicates that welding is performed underwater, directly exposed to the wet environment. A special electrode is used and welding is carried out manually just as one does in open air welding. The increased freedom of movement makes wet welding the most effective, efficient and economical method. Welding power supply is located on the surface with connection to the welder via cables and hoses.

In wet welding MMA (manual metal arc welding) is used.

Power Supply used : DC
Polarity : -ve polarity

When DC is used with +ve polarity, electrolysis will take place and cause rapid deterioration of any metallic components in the electrode holder. For wet welding AC is not used on account of electrical safety and difficulty in maintaining an arc underwater.

The power source should be a direct current machine rated at 300 or 400 amperes. Motor generator welding machines are most often



used for underwater welding in the wet. The welding machine frame must be grounded to the ship. The welding circuit must include a positive type of switch, usually a knife switch operated on

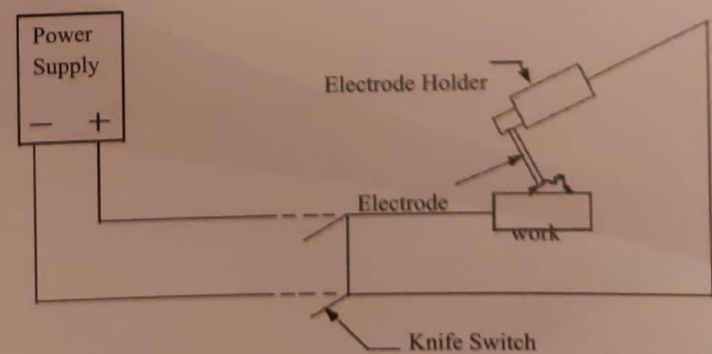


FIG-Wet Welding

the surface and commanded by the welder. The knife switch in the electrode circuit must be capable of breaking the full welding current and is used for safety reasons. The welding power should be connected to the electrode holder only during welding.

Direct current with electrode negative (straight polarity) is used. Special welding electrode holders with extra insulation against the

water are used. The underwater welding electrode holder utilizes a twist type head for gripping the electrode. It accommodates two sizes of electrodes.

The electrode types used conform to AWS E6013 classification. The electrodes must be waterproofed. All connections must be thoroughly insulated so that the water cannot come in contact with the metal parts. If the insulation does leak, seawater will come in contact with the metal conductor and part of the current will leak away and will not be available at the arc. In addition, there will be rapid deterioration of the copper cable at the point of the leak.

Principle of operation of Wet Welding

The process of underwater wet welding takes in the following manner:

The work to be welded is connected to one side of an electric circuit, and a metal electrode to the other side. These two parts of the circuit are brought together, and then separated slightly. The electric current jumps the gap and causes a sustained spark (arc), which melts the bare metal, forming a weld pool. At the same time, the tip of electrode melts, and metal droplets are projected into the weld pool. During this operation, the flux covering the electrode melts to provide a shielding gas, which is used to stabilize the arc column and shield the transfer metal. The arc burns in a cavity formed inside the flux covering, which is designed to burn slower than the metal barrel of the electrode.

DRY WELDING (Hyperbaric Welding)

Hyperbaric welding is carried out in chamber sealed around the structure to be welded. The chamber is filled with a gas (commonly helium containing 0.5 bar of oxygen) at the prevailing pressure. The habitat is sealed onto the pipeline and filled with a breathable mixture of helium and oxygen, at or slightly above the ambient pressure at which the welding is to take place. This method produces high-quality weld joints that meet X-ray and code requirements. The gas tungsten arc welding process is employed for this process. The area under the floor of the Habitat is open to water. Thus the welding is done in the dry but at the hydrostatic pressure of the sea water surrounding the Habitat.

RISKS INVOLVED

There is a risk to the welder of electric shock. Precautions include achieving adequate electrical insulation of the welding equipment, shutting off the electricity supply immediately the arc is extinguished, and limiting the open-circuit voltage of MMA welding sets. Secondly, hydrogen and oxygen are produced by the arc in wet welding.

Precautions must be taken to avoid the build-up of pockets of gas,

which are potentially explosive. The other main area of risk is to the life or health of the welder from nitrogen introduced into the blood stream during exposure to air at increased pressure. Precautions include the provision of an emergency air or gas supply, standardizing the welding process, and decompression chambers to avoid nitrogen narcosis following rapid surfacing after saturation diving.

For the structures being welded by wet underwater welding, post-weld inspection following welding may be more difficult than for welds deposited in air. Assuring the integrity of such underwater welds may be more difficult, and there is a risk that defects may remain undetected.

Developments in Under Water Welding

Wet welding has been used as an underwater welding technique for a long time and is still being used. With recent acceleration in the construction of offshore structures underwater welding has assumed increased importance. This has led to the development of alternative welding methods like friction welding, explosive welding, and stud welding.

Scope for further developments

Wet MMA is still being used for underwater repairs, but the quality of wet welds is poor and prone to hydrogen cracking. Dry Hyperbaric welds are better in quality than wet welds. A present trend is towards automation. THOR – 1 (TIG Hyperbaric Orbital Robot) developed where welder perform pipe fitting, install the track and orbit head on the pipe and rest process is automated.

Development of Hyperbaric welding system is an even greater challenge for annex developments like pipe preparation and aligning, automate electrode and wire reel changing function, using a robot arm installed.



Ms. Dimple
Lecturer, Dept. of ME



Ms. Sumita
Lecturer, Dept. of ME

DIGITAL SMELL TECHNOLOGY

The technology has so far targeted mainly our sense of sight and sound. To further enhance the virtual reality experience and another flavor to it, technology is now targeting your nose and tongue. The application area of virtual reality is vast- from normal entertainment to the Internet and e-commerce application. You will be able to smell product before buying them online. California-based DigiScents Inc. has developed the iSmell personal scent synthesizer. This small device connects through your pc via serial port and has its own driver.

In this modern age, computers have verified the cause of their existence. They have virtually taken over in every field of today's fast life. Gone are the days when applications of computers were limited to official use only. Today, computers have an important place in every household purpose, and mainly internet has taken over whole world. There are various reasons why computers have their own stand in our life. It provides a very good facility of fast processing, sound and picture. The virtual reality concept has provided very good features to the computer systems. The concept of virtual reality is introduced by the computer programmers to provide more attachments to the user. There are several concepts of the virtual reality that are now available such as digital smell, virtual theatre, electronic hand gloves, multipoint surround sound system, 3d goggles. The digital smell is basically a hardware software combination. The hardware part of digital smell will produce the smell, and the software part will evaluate the smell equation and generate specific signals for specific smell and finally that smell will be produced by the device. The hardware device is a device like speaker. Like speaker, this device is also connected to the computer system. There is also a driver program for this device which will evaluate the digital equation for generating specific gas. Until now, online communication involved only three of our senses hearing, touch, and sight. New technology is being developed to appeal to our sense of smell. DigiScents, an interactive media company, is creating iSmell Digital Scent Technology, a new software which will enable scents to be broadcast from the Web.

1.1 PHYSIOLOGICAL ASPECTS OF SMELL

Before we describe the possibilities of olfactory displays, we should take a glance at the physiological aspects of smell. How does the nose work and what is its function? We can breathe, smell and additionally taste with our nose naturally. First of all, we are interested in the anatomy of the nose. Odor consists of many different molecules, for e.g. the aroma of coffee is made up of 20 various molecules. Nonetheless, our nose perceives only 15 odors which is enough to identify the smell as coffee.

First the odor molecules reach the olfactory mucosa. The receptors for the molecules are placed at the olfactory hairs. When the molecules reach the receptors, an electric impulse is sent directly to the brain to the olfactory bulb. Then the information goes to the olfactory glomeruli, a part of the olfactory bulb. The glomeruli is able to associate the information to the intensity. The olfactory bulb consequently processes the odor and can send the impulse to the olfactory brain. We notice that we have a direct connection between our sense of smelling and our brain. Those scent impulses reach the area of our brain that handles emotions and memories. That explains the link between smelling and being reminded of something. We



perceive smell individually. Every human perceives a difference between a pleasant and unpleasant odor. Humans are not capable to distinguish odors in terms of intensity. Roughly, we can only distinguish between three concentrations of some odor, whereas we should actually be able to differentiate 1000 types of odors. Another problem for olfactory display is the fast acclimatization of humans to scents.

What makes it even more difficult to construct olfactory display is that a set of primary odors has not really been found. There was an attempt to define seven such primary odors, but had to be extended to 100 odors. For vision, three base colors are sufficient to display any color. Unfortunately, this cannot be applied to olfaction as our nose has thousands of receptors and apart from that, the odors are not orthogonal. That means you will not necessarily get a new one by mixing two odors. Due to these big problems, research is still in progress about examining our scent.

1.2 EVOLUTION OF DIGITAL SMELL

1.2.1 How it was invented

As we know that many scientists have started working on the virtual reality for the last 5 to 6 years. As a virtual reality they have got a full concept as virtual theatre. These theatres consist of an electronic hand glove, digital smell, multipoint surround sound system, movement controllable seats and 3d goggles. From this idea the multipoint surround sound system, 3d goggles, movement controllable seats have been completed. Now, for the user to fill more realistic effects of movies, they are introducing the very new facility of digital smell in movies or in games. For example, if we are watching a movie and we see burning of tier then we will fill that smell in theatre or pc or television. The basic idea for this was given by the perfume making companies for the advertisements of their perfumes.

1.2.2 Founders

Founders Dexter Smith and Joel Lloyd Bellenson, experts in bioinformatics and genomics, started from the following idea: "If we can find the essence of a biological smell and build a profile, we can digitalize and broadcast it." They came up with the idea for the company, while they were in South Beach. Using their scientific knowledge, they indexed & analyzed natural smells said to be common to South Beach such as flowers, salt water & suntan lotion.



Anchal Mittal
IV, B.Tech, Dept. of IT

NET ZERO POLE STREET LIGHT BY PV MODULE

1. INTRODUCTION:

The increasing demand of energy & the depletion of fossil fuel reserves are indications of energy crisis in future. We need to use non-conventional resources for energy on a large scale now. The energy produced from fossil fuels is hazardous, unsustainable and harmful for the environment. In a country like India, where cost effectiveness speaks for itself, we intend to build a design which not only provides low-cost product as an outcome but also uses solar energy in the utmost possible way. The street light uses a PV module. The PV module collects light through the sun radiation and obtains a DC output. Output (D.C) of solar panel is connected to the inverter. In day time the energy generated by a PV module is transferred to a grid through a net-meter and night time the grid supply a power to load (LED) through a net-meter.

2. EQUIPMENTS:

2.1 Solar panel

It is a group of high efficiency, multi-crystal line silicon solar cells with high transmission capacity and textured glass, delivering a module efficiency of up to 15.7% while minimizing installation costs and maximizing the kWh output of your system per unit area. It has a tight positive power tolerance of 0W to +5W.

It can withstand wind loads of up to 2.4kPa and snow loads of up to 5.4kPa, confirming mechanical stability & ensuring their performance in adverse conditions

Specification

Rating of PV module	
Power output	300W
Voltage at P_{max}	36.7V
Current at P_{max}	8.17A
Module efficiency	15.7%

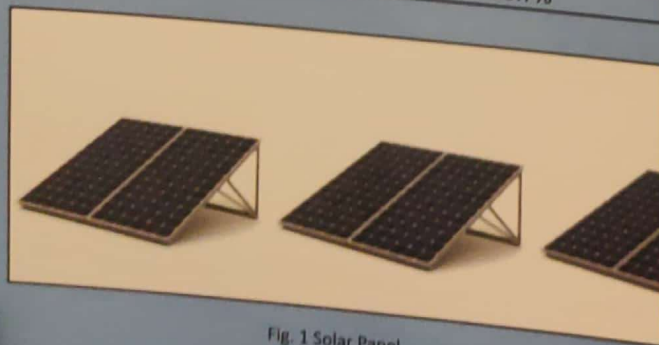


Fig. 1 Solar Panel

2.2 Inverter

The power generated by the solar panel is converted from DC to AC by micro-inverter and then is fed to the grid through net meter. The Replus-250A/B has integral surge protection, greater than most of the string inverters for protection against lightning.

2.3 Smart Meter (Net-Meter)

A smart meter is comprised of sensitive circuitry and may support

numerous communications. A complete implementation includes power line communication to the electricity meter and low power wireless communication from the electricity meter to other utility meters. Two communication scenarios are prominent here: import & export of power.

2.4 MCB

The circuit breaker plays an important role in providing over-current protection and a disconnect means in electrical networks.

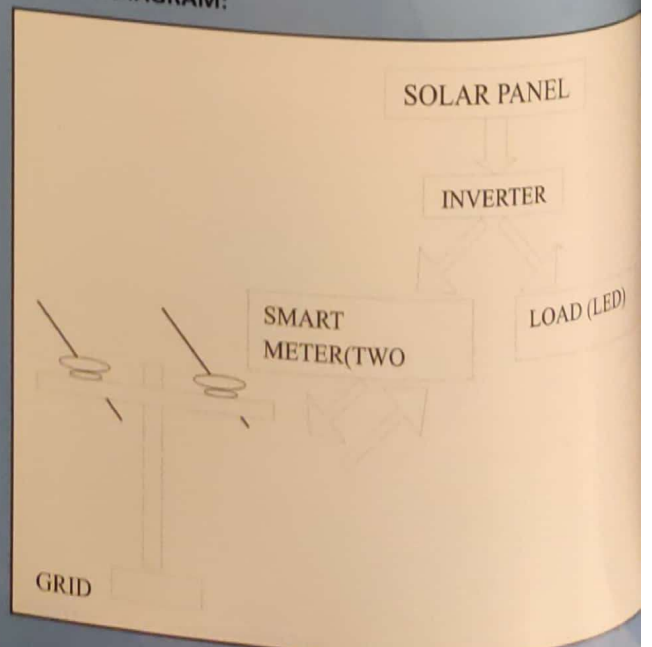
2.5 LED Light

Lighting of outdoor areas is currently dominated by metal halide (MH) and high pressure sodium (HPS) sources. These relatively energy-efficient light sources have been in use for many years and have well-understood performance characteristics. Recent advances in LED technology have resulted in a new option for outdoor area lighting. Well-designed LED outdoor luminaires can provide the required surface luminance using less energy and with improved uniformity, compared to HID sources. LED luminaires may also have significantly longer life (50,000 hours or more) compared to 15,000 to 35,000 hours) with better luminaire maintenance. Other LED advantages include: they contain no mercury, lead, or other known disposal hazards.

3. WORKING:

- PV module receives the sun radiation in daytime & generates DC power.
- The DC supply from the PV module is then converted into AC supply by micro-inverter.
- During daytime there is no need of street light so AC supply is fed to the grid through net meter.
- At night there is no solar radiation so PV module produces no power but there is a requirement of power at night for street light (LED).
- The power required is then taken from the grid through net meter.
- Net meter takes reading of total import & export of power.

4. BLOCK DIAGRAM:





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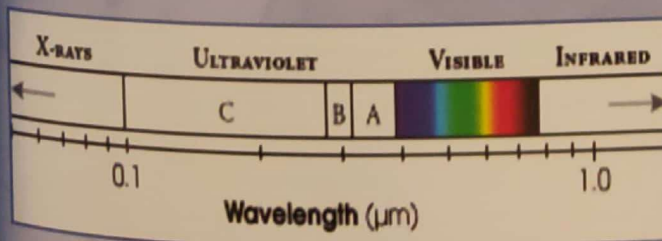


Smiriti Jain
Reader, Dept. of EE

ULTRA VIOLET RADIATION: AFFECTING LIFE ON EARTH

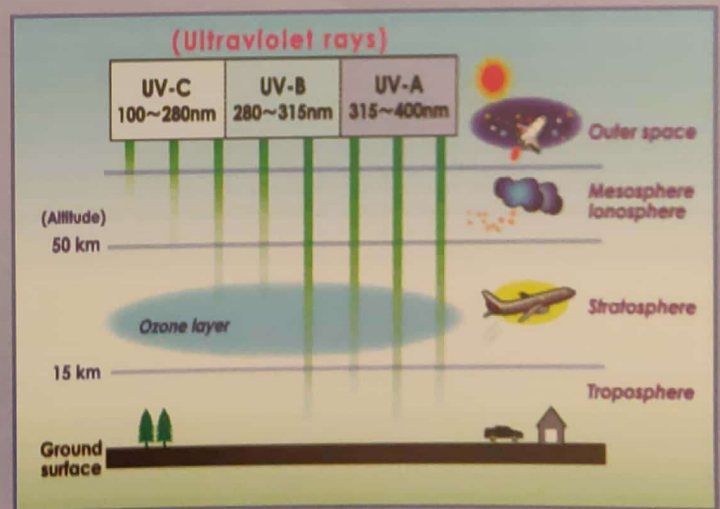
Ultraviolet (UV) radiation from the sun has always played an important role in our environment and it affects nearly all living organisms. Ultraviolet rays are the part of the electromagnetic spectrum that can reach a high level on earth and exist just beyond the visible light at shorter wavelengths than the last visible ray, which is violet.

There are three categories of UV radiation: UV-A, UV-B and UV-C. UV-A rays have a wavelength of 315-400 nanometers (nm). UV-B rays have a wavelength of 280-315 nm, and UV-C rays have a wavelength of less than 280 nm.



The sun radiates energy in a wide range of wavelengths, most of which are invisible to human eyes. The shorter the wavelength, the more energetic is the radiation and greater the potential is for harm. UV radiation that reaches the Earth's surface is in wavelengths between 290 and 400 nm. More-energetic, shorter-wavelength "extreme" UV below 121 nm ionizes air so strongly that it is absorbed before it reaches the ground. The amount of UV radiation reaching the earth varies and depends on the directness of the sun's rays, time of the day, time of the year, the location's latitude, cloud cover, and the amount of dust, haze and pollution in the air.

Living things on earth would be severely damaged by ultraviolet radiation from the sun if most of it were not filtered out by the Earth's atmosphere, particularly the Ozone layer (A layer of ozone in the upper atmosphere absorbs UV radiation and prevents most of it from reaching the Earth).



Since, Ozone is essential to the sustaining of both plant and mammalian life. Ozone is the combination of three oxygen atoms into a single molecule (O₃). It is a gas produced naturally in the stratosphere (the layer of atmosphere ranging from about 15 to 50 km in altitude) where it strongly absorbs incoming UV radiation. Ozone is only minor constituent of the Earth's atmosphere forming 0.2 % of the terrestrial atmosphere mass, such that if all the atmospheric ozone was collected at the Earth's surface it would form a ring only 3 mm thick around the Earth. But during the last few decades, human activities have resulted in considerable reduction in the ozone layer of the atmosphere. Industries that

manufacture things like insulating foams, solvents, soaps, cooling things like Air Conditioners, Refrigerators use something called chlorofluorocarbons (CFCs). These substances are heavier than air, but over time, (2-5 years) they are carried high into the stratosphere by wind action. Depletion begins when CFC's get into the stratosphere. Ultra violet radiation from the sun breaks up these CFCs. The breaking up action releases Chlorine atoms. Chlorine atoms react with Ozone and start a chemical cycle that destroys the good ozone in that area. One chlorine atom can break apart more than 100,000 ozone molecules. Therefore, these man-made chlorines contribute to the thinning of the ozone layer and allow larger quantities of harmful ultraviolet rays to reach the earth.

Unfortunately, there isn't much that humans can do to replenish the depleted Ozone, as it tends to recover slowly by itself. All we can do is to be more responsible with our manufacturing needs so that we



Health Effects of Ultraviolet Radiation

Small amounts of UV are beneficial for people and essential in the production of vitamin D. UV radiation is also used to treat several diseases, including rickets, psoriasis, eczema and jaundice. But

prolonged human exposure to solar UV radiation may result in acute and chronic health effects on the skin, eye and immune system.

UV-C radiation is filtered out by ozone in the stratosphere. Only a small amount reaches the earth's surface. UV-B radiation poses a threat to life on earth even though some of it is filtered out by ozone in the stratosphere. UV-B radiation is capable of causing harm at the molecular level. The cumulative exposure of UV-B radiation may cause sunburn, cataracts, suppressed immune systems, and premature aging including; wrinkles and skin discolorations as well as skin cancer. UV-A radiation causes less harm as compared to the shorter wavelengths. Although, it can cause sunburn and cataracts. UV-A radiation can benefit humans by synthesizing vitamin D in the body.

UV radiation levels are the highest at noon. Clouds and ozone have an effect on UV levels, but they do not provide significant protection. Therefore, humans can protect themselves by avoiding exposure to the sun around noon, by wearing sunscreen and sunglasses with UV protection.

It is the presence of ozone in the atmosphere that shields the Earth's surface from harmful solar UV radiation through its ability to absorb all solar radiation with wavelengths less than 300 nm. Without the layer of ozone in the stratosphere to protect us from excessive amounts of UV radiation, life, as we know, would not exist. Yet UV radiation at different wavelengths differs in its effects, and we have to live with the harmful effects as well as the beneficial ones.



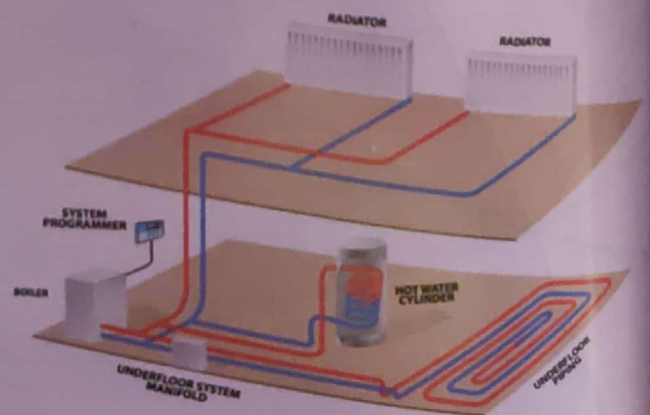
Dr. Manasvi Dixit
Sr. Lecturer, Dept. of Physics

RADIANT HEATING AND COOLING SYSTEM

Radiant heating and cooling system refers to temperature-controlled surfaces that exchange heat with their surrounding environment through convection and radiation. By definition, in radiant heating and cooling systems, thermal radiation covers more than 50% of heat exchange within the space.

Radiant cooling cools a floor or ceiling by absorbing the heat radiated from the rest of the room. When the floor is cooled, it is often referred to as radiant floor cooling; cooling the ceiling is usually done in homes with radiant panels. Although potentially suitable for arid climates, radiant cooling is problematic for homes in more humid climates.

Hydraulic radiant heating and cooling system is water based radiant system. It refers to panels or embedded building components



(floors, ceilings or walls). Other types include air-based and electrical systems (which use electrical resistance for heating purpose mainly). Important portions of building surfaces are usually

...covered for the radiant exchange.

...heating and cooling systems can be used in commercial, residential, education, and recreational buildings, museums, hospitals, and other type of buildings. The application depends on the type of radiant system on climate conditions and on ventilation system used.

...radiation is the energy in the form of electromagnetic waves emitted by a solid, liquid, or gas as a result of its temperature. In buildings, the radiant heat flow between two internal surfaces (or a surface and a person) is influenced by the emissivity of the heat emitting surface and by the view factor between this surface and the receptive surface (object or person) in the room. The heat transfer by radiation is proportional to the power of four of the absolute surface temperature.

The emissivity of a material (usually written ϵ or e) is the relative ability of its surface to emit energy by radiation. A black body has an emissivity of 1 and a perfect reflector has an emissivity of 0.

Operative temperature and thermal comfort

The operative temperature is an indicator of thermal comfort which takes into account the effects of both convection and radiation. Operative temperature is defined as a uniform temperature of a radiantly black enclosure in which an occupant would exchange the same amount of heat by radiation plus convection as in the actual

nonuniform environment. With radiant systems, thermal comfort is achieved at warmer interior temp than all-air systems for cooling scenario, and at lower temperature than all-air systems for heating scenario. Thus, radiant systems can help to achieve energy savings in building operation while maintaining the wished comfort level.

Most radiant cooling home applications in North America have been based on aluminum panels suspended from the ceiling, through which chilled water is circulated. To be effective, the panels must be maintained at a temperature very near the dew point within the house, and the house must be kept dehumidified. In humid climates, simply opening a door could allow enough humidity into the home to allow condensation to occur.

The panels cover most of the ceiling, leading to high capital expense for the systems. In all but the most arid locations, an auxiliary air-conditioning system will be required to keep the home's humidity low, adding further to the capital cost.



Ankit Agarwal
Sr. Lecturer, Department of ME

INTERNET.ORG

I think it should be obvious that internet.org is a walled garden with some significant limits that do not make it "the Internet". But writing from a walled garden platform (cough, Quora, cough), it's hard to criticize it just for being a walled garden and for not representing itself as an individual entity. This write-up focuses on a slightly different issue. Internet.org is an interesting proposition. It is true that 2/3 of the world's population does not have an access to it. It is also a fact that bandwidth and electrical power infrastructure are significantly limiting factors. There's a big gap, and even the EFF agrees, it should be closed.

Apart from the criticisms leveled by the EFF, take a look at the sponsors of the effort:

Facebook (they make more money if more people use their problem), Erickson (they make infrastructure for broadband and wireless), Nokia (handsets and a Microsoft property), Qualcomm (wireless infrastructure and chipsets), Samsung (handsets and wireless infrastructure), Mediate (chipsets for mobile devices) Opera (also ran browser).

Every major participant has a profit motive. If there is significant movement to expand broadband wireless infrastructure into the undeserved portions of the world, each and every one of them



From a realistic platform we can say that all the sponsors are organizations like the Gates Foundation and so all of the money and governance comes from financially disinterested parties. This is the issue that really needs to be addressed, sooner or later.



Anshi Agrawal
II B.Tech., Dept. of CS-II

SPECS MOUNTED MINI WHISPERING CAMERA - AN EFFECTIVE AID FOR POOR VISION



A miniature camera is a device that can be mounted on a spectacle frame. It can translate text into speech which helps to improve the lives of patients with low vision. This device dramatically improves their ability to read email, newspaper article, etc.

A whispering camera is made using optical character recognition technology. It works either by pointing to an item, tapping on it or pressing a trigger button. A wire attaches the device to a small pack containing a battery and a computer. It recognizes the text and reads it to the user who has an earpiece that transmits sound.

The whispering camera offers hope to patients who are beyond medical or surgical therapy for conditions like- permanent impairment of reading and fine/close-up vision in the elderly.

A miniature camera is a device which can be carried in hand, fitted into a pocket or attached to a belt very easily. It could potentially bring greater independence for those older adults who are struggling with vision loss to better perform daily activities.

Niketa Singhal
Lecturer, Dept. of CS

THE JOURNEY FROM IT TO IOT

The Internet of Things (IoT) refers to the ever-growing network of physical objects that feature an IP address for internet connectivity, and the communication that occurs between these objects and other Internet-enabled devices and systems.

Simply put, this is the concept of basically connecting any device with an 'on' and 'off' switch to the Internet (and/or to each other). This includes everything from cell-phones, coffee makers, washing machines, head-phones, lamps, wearable devices and almost anything else you can think of. This also applies to components of machines, for example, a jet engine of an airplane or the drill of an oil rig. As I mentioned, if it has an 'on' and 'off' switch then chances are it can be a part of the IoT. The analyst firm Gartner says that by 2020 there will be over 26 billion connected devices... That's a lot of connections (some even estimate this number to be much higher, over 100 billion). The IoT is a giant network of connected "things" (which also includes people). The relationship will be between people-people, people-things, and things-things.

The Internet of Things is growing so fast that it's an obvious place to look for career growth. Yet, like a lot of IoT technology, jobs in this vast field are still evolving out of what's been in place for years. Instead of aiming for a whole new job, the best strategy may be to add some skills to the ones you already have. "We need the IT skills to come into the IoT side of the house," Gartner analyst Chet Geschickter said. It works the other way, too.

IoT includes everyone in a company who sets up and manages real-world objects. That means things like HVAC (heating, ventilation and



air conditioning) technicians, fleet managers, and people who make assembly-line robots do their jobs. The IT and IoT worlds have built up separate bodies of knowledge that they haven't shared with each other, Geschickter said. That was fine until the ones and zeroes of the digital worlds met the wheels and presses of the physical. In IoT, things like computing and data networking are now entwined with devices running in the physical world. This new combination will require new skills.

"IoT will become oxygen in human life soon"



Kanak Giri
Lecturer, Dept. of CS

MELANGE

The Heart Speaks...

BE AWARE OF YOUR CALIBRE

These days there is too much emphasis on competition rather than on collaboration and co-operation, which is vitally important in life. Parental aspirations and peer pressure are emerging as a serious issue which needs to be looked into. We must understand if a child is pushed in the direction where he may not have any interest, it would be detrimental to the child's mental well being.

Sometimes I wonder why a student, after completing his IIT on a highly subsidized fee by the government, suddenly decides to join the Indian Administrative Service rather than making a successful career in engineering and why a student with an MBBS degree from AIIMS decides for an MBA degree to join banking service. There is no harm in becoming an IAS officer after completing IIT or being a banker having an MBBS degree. But do you not feel that both the candidates have eaten one valuable seat each, which could have gone to two other candidates who aspired to make career in engineering and medical fields respectively.

If analysed in a logical way, such shift of choice of different professions could be due to any of the following reasons:

1. They are unable to understand their aptitude for a particular career option and decide to study accordingly.
2. They fall an easy prey to the pressure from parents to join a career of their choice.
3. They are indecisive about their career and without giving any thought to the degree under their belt they choose a career in other profession which may not be in accordance with their aptitude and temperament.
4. They do not have confidence in their own ability and, like a rolling stone that gathers no moss, feel happy to choose a profession according to the choice of others-like that of parents, teachers, friends or peers.

Such persons, who do not understand their own potential and aptitude and choose a career to satisfy others, can hardly taste success in professional career. After sometime when they realize their folly, it is too late to make amends. They feel sad and crestfallen and curse themselves. The anecdote below will bring forth the outcome of such a whimsical decision in making a career.

A man working for the rehabilitation of mental patients visited a mental asylum to get first hand information regarding them. He was advised by the doctors to be careful and not to contradict any patient when he should be saying something.

He went inside and sat in the garden. He saw a young man of twenty five coming quietly, sat by his side and asked, "Are you here due to your friends, parents, teachers or neighbours?"

Although the man did not want to violate the suggestions given to him but seeing an innocent mental patient he said, "How can someone be here due to their friends, parents, teachers or neighbours as everyone is our well wisher?"

The young man said, "Yes, but how a person can satisfy the expectations of everyone who are near and dear to you and you don't want to hurt anyone?" He also said that when he was in school he was expected to become a doctor so that he would bring name and fame to the school. His friends always saw a successful administrator in him and they pushed him to choose Arts stream to be an IAS officer. His father, being a successful entrepreneur wanted him to get a management degree from a premier institute to add value to his running business.

Everyone gave him advice without knowing his own desire, what exactly he wanted to be. As he tried to satisfy the desire of everyone, one day he found himself here. He said that everyone takes him as a mental case and he feels comfortable, as now no one has any expectation from him in this mental asylum.

To avoid such a situation, it is therefore advisable for a student to discover the hidden potential in him and his aptitude and then make sustained efforts to achieve his goal in the self chosen professional career. It should be remembered that even an average person with average talent, ambition and education, can make a successful career through correct self appraisal and clear focused goal.

The young learners of today have to stay focused like Arjuna of Mahabharata to achieve excellence.



Ajay Kumar Sharma
Sr. Lecturer, Dept. of Physics



DESIGNING EFFECTIVE PRESENTATIONS

Communication makes the heart of any profession and presentations come handy when communicating to a larger set of audience in limited amount of time. However, the design of the presentation is critical to deliver the message it is intended for, else it could become hindrance to establishing an effective communication. After all, presentations are the first step towards wooing your audience.

Below are some of the key points (not comprehensive) to remember while designing any presentation:

1. Visuals are more effective than words



Too much words on the slide can distract the audience. They would be more focussed on reading the slide than listening to the speaker. A visual makes the information easy to read and also does not make the speaker redundant. Incorporating images on slides alongside text can help emphasize the message.

2. Ensure Readability



The color combination used on the slides should aid reading the slides. If you are presenting in a darkened room, then light text on a dark background works well. But if you are in a room with the lights on or considerable ambient light, then dark text on a light background works better.

3. Be wise when selecting font style and font size

Make sure you use a font that is cleaner, lesser cluttered and easier to read even from a distance. Calibri, Arial and Trebuchet are some of the recommended fonts for making presentations.

Rules about Font Selection

- Select a sans serif font such as Calibri, Arial, or Trebuchet.
- Limit your fonts to two, at most.

Select a sans serif font

Limiting the use of fonts to a maximum of two will make the presentation look consistent. This limitation only refers to the use of different fonts rather than use of bold or italic variations.

Small font that is difficult to read from a distance can be frustrating for the audience. Hence, make sure to use a font size of 24 or more. If need be, additional text can be spilled over to another slide or passed on to the audience as detailed notes.

4. Use Abbreviated statements or Phrases rather than full sentences

Long sentences can make the slide look cluttered and can make the audience focus on the content of the slide rather than the presenter's speech

When preparing the content of your slides, use **phrases** rather than full sentences, with the possible exception of short direct quotes.

Use **phrases** rather than full sentences

5. Use animation, slide transitions, audio, and video sparingly

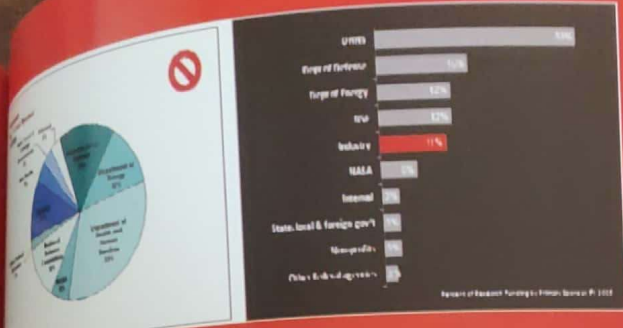
When there is movement on the screen, the audience attention is immediately drawn to the movement, thus breaking their concentration on the presentation content. Audience judges presentations on their interest in the content, not on how many fancy features are used in the slides.

6. Use audios and videos where appropriate

Use video and audio when appropriate. Using video clips to show concrete examples promotes active cognitive processing, which is the natural way people learn. It not only will illustrate your point better, it will also serve as a change of pace, thereby increasing the interest of your audience.

7. Highlight the most important information on the slide

By highlighting the most important information and presenting only as much data as can be readily understood (perhaps by presenting it incrementally), the audience will easily be able to discern the main message.



design template. It is fine to vary the content presentation (i.e., bulleted list, 2-column text, text & image), but be consistent with other elements such as font, colors, and background.

10. Break the rules

As with everything else, there are times when each of these rules – or any other rule you know – won't apply. If you know there's a good reason to break a rule, go ahead and do it. Rule breaking is perfectly acceptable behavior

Limit the Number Of Slides

Limiting the number of slides to a minimum, ensures that the presentation will not become too long and drawn out. It also avoids the problem of continually changing slides during the presentation which can be a distraction to your audience. On average, one slide per minute is about right.

Use Slide Master

Use the slide master feature to create a consistent and simple



Dr. Sangeeta Gupta
Reader, Dept. of Mathematics

YOU ARE NOT EVERYONE'S CUP OF TEA

The World Is Filled With People, Who No Matter What You Do, No Matter What You Try, Will Simply Not Like You. But The World Is Also Filled With Those Who Will Love You Fiercely. The Ones Who Love You: They Are Your People.

Don't Waste Your Finite Time And Heart Trying To Convince The People Who Aren't Your People. That You Have Value, They Will Miss It Completely. They Won't Buy What You Are Selling. Don't Try To Convince Them To Walk Your Path With You Because You Will Only Waste Your Time And Your Emotional Good Health. You Are Not For Them And They Are Not For You. You Are Not Their Cup Of Tea And They Are Not Yours.

Politely Wave Them Along And You Move Away As Well. Seek To Share Your Path With Those Who Recognize And Appreciate Your Gifts, Who You Are.

Be Who You Are. You Are Not Everyone's Cup Of Tea.



Kanika Agarwal
I B.Tech, Dept. of CS

THE QUESTION OF PERCEPTION

"Is this glass half empty or half full ?"...this is a very old question, which reflects your views on life, your attitude whether you are an optimist or not.

Positive thinking doesn't mean that you keep your ears close and ignore life's pleasant situation. It can mean to make unpleasantness in more positive way. It can often start with self-talk also. Whether thoughts come in our mind can be positive or negative. Actually, these thoughts come in our mind from some logic or misconceptions. The word "optimist" is the one which we use for someone who practices positive thinking and whose thoughts are always positive.

It generally happens with people that sometimes they don't know how to be positive in their thoughts. Then it is a fact that if you keep on thinking the same thoughts, day and night, that will become reality of your life....

So it is you only who has to be careful of what you think. So you need to start thinking more positively....



Kumari Sukanya
I B.Tech, Dept. of IT

HYPNOTISM

Hypnotism as explained by dictionary is "the induction of a state of consciousness in which a person apparently loses the power of voluntary action and is highly responsive to suggestion or direction. Its use in therapy, typically to recover suppressed memories or to allow modification of behaviour, has been revived but is still controversial." There are other words for hypnotism like spellbinding, mesmerisation etc.

Now I wish to share some important things about hypnotism. A person who is more brilliant can be easily hypnotized. What actually happens is we have three kinds of brain.

The consciousness mind is your awareness at the present moment. You are aware of something on the outside as well as some specific mental functions happening on the inside. For example, you are aware of your environment, your breathing, or the chair that you are sitting on.

The subconscious mind or the preconscious mind consists of accessible information. You can become aware of this information once you direct your attention to it. Think of this as memory recall. You walk down the street to your house without consciously needing to be alert to your surroundings. You can talk on the cell phone and still arrive home safely. You can easily bring to consciousness the subconscious information about the path to your home. You can also easily remember phone numbers that you frequently use.

It is possible that some of what might be perceived to be unconscious becomes subconscious, and then conscious (e.g. a long-forgotten childhood memory suddenly emerges after decades). We can assume that some unconscious memories need a strong, specific trigger to bring them to consciousness; whereas, a subconscious memory can be brought to consciousness more easily.

The Super conscious Mind

While the conscious and subconscious aspects of our mind are closely aligned with our physical shell or body, the super conscious mind is super physical. In other words it exists at a level extending beyond our space time continuum.

If we looked at our example of a computer – it can be likened to the internet, which enables us to connect to every other computer in the world and the people using those computers. However with the super conscious connection we do not need any other technology than what we are born with. Through the super conscious it is possible for us to connect to every other mind on the planet.

However connecting to our super conscious opens up much wider doorways than just linking to other minds. It is also that aspect of our being that exists before we were born and survives our death - some also call this aspect the higher self.

Now you might consciously believe you are an atheist or agnostic and are certain there is no aspect of your 'being' that extends

beyond your birth and death. Fortunately for you - your subconscious and super conscious care little what your conscious mind believes – they continue on influencing your life as best they can. While you can go on ignoring that 'small voice within' on many an occasion – you almost always find that it is to your detriment.

ROLES THE SUPER CONSCIOUS PERFORMS

Our Life Plan

It is our super conscious mind that holds the blueprint or script for all that we have set out to achieve in our current lifetime. Imagine if we could tap into this plan and discover why we have chosen to experience all the pain and joys of our life experience? How much more effective could we be if we really understood what our real life plan is?

Now you may consciously believe that you have no underlying plan in your life. However if you reviewed your life closely you will find in your life certain 'things happened' (you may call them chance or coincidence) which helped or forced you to change directions in ways that were ultimately beneficial to you. Wouldn't it be great to become more aware of the signals that we are getting from our super conscious. This could help us to smooth the transitions brought on by those 'life corrections' we all seem face at certain times of our lives.

Past and Future Lives

The super conscious is also our pathway to knowledge about all our past incarnations, as well as probable future incarnations. Often people who have no belief structure that supports the concept of reincarnation will be amazed that, when asked to go back to the source of their problems in a hypnotic state, they will find themselves reviewing a previous life scenario. Invariably this brings fresh insight into why they feel and behave the way they do – especially when there is no logical cause in their current life for their behavioural pattern. Often just reviewing the causative events will lead to release of unwanted emotional patterns. At other times there are previously developed talents or strengths that we need to become conscious of and bring into our current lives.

By progressing into the future we can gain insight into aspects of ourselves that we need to develop to become more balanced and effective in our lives. By making adjustments in the ways we think, feel and behave we can create a much more positive future for ourselves and others.

A hypnotized person gets the entry into the super conscious mind and it is possible to access all the information of past, present and future life. There are several ways of hypnotism and one interesting way is called as self-hypnosis. Self-hypnosis is used extensively in modern hypnotherapy. It can take the form of hypnosis carried out by means of a learned routine. Hypnosis may help pain management, anxiety, depression, sleep disorders, asthma, and skin conditions. When this practice is mastered, it can improve concentration, recall, enhance problem solving, alleviate headaches and even improve one's control of emotions. There are

...self-hypnosis which are discussed below.

...used for self-hypnosis
...requires four distinct steps.

...Without proper motivation, an individual will
...difficult to practice self-hypnosis

...The individual must be thoroughly relaxed and
...time to perform this act. Additionally, distractions
...as full attention is needed.

...Concentration: the individual needs to concentrate
...as energy is generated each time the mind focuses on a
...age.

...Directing: This is an option used only when the individual
...to work on a specific goal. The individual must direct their
...on visualizing the desired result
**Hypnosis and
Meditative Techniques Utilising Mind States**

...and Meditative techniques are both utilized to assist us in
...ing different mind states and share some common
...characteristics. With both techniques we use the body to slow it's
...ing processes to move the brain into a dominant Alpha or
...s brainwave state depending on the depth of relaxation we
...to achieve.

...ing the Alpha state enables us to relax and refresh ourselves,
...ining the mind and assisting the body in balancing and healing
...self. Visualization techniques can be utilized in this mind state to
...itate and accelerate changes we wish to make. The primary
...ifferences between hypnosis and meditation are in the
...management of the process. Meditation is a primarily a non-
...directional methodology wherein we take ourselves to certain mind
...states and allow information and awareness to flow to us. With
...hypnosis we normally use another person to guide or conduct us
...through the process.

One of primary difficulties people in the early stages of learning
...meditation techniques is to quieten the conscious mind. Of course
...if you 'try' to quieten the mind you are forcing your mind to think at
...the Beta level and it only becomes more difficult to move to the
...Alpha mind state. Hypnotherapists generally circumvent this
...problem by distracting the conscious mind and focusing the process
...on a dialogue with the subconscious mind.

The process of hypnotherapy utilizes the Alpha mind state to enable
...us to more easily connect with the subconscious mind and change
...subconscious programs that may not be benefiting us. We are
...usually aware of these programs in terms of the way they manifest
...as habits, feelings, thoughts or even physiological symptoms, such

as depressed immune systems and disease. Alternatively we may
want to implement subconscious programs that will enable us to
achieve outcomes we feel will benefit us.

Most hypnotherapy is done in the Alpha mind state, when the
conscious mind is passive but aware. Hypnotherapy can be very
effective at this level and this is widely recognized by both the
general public and the medical fraternity.

However the deeper Theta mind state is also utilized to either access
information that is not readily available to us in the Alpha and Beta
mind states or to effect changes that may be inhibited or restricted
by the conscious mind state.

The Theta mind state enables us to more readily access the Super
conscious mind and obtain information about past lives, life
purposes, underlying physiological issues, guidance and even
probable and alternate future life conditions. This is where
conventional science usually takes a very skeptical position. Firstly
most scientists do not even acknowledge that we do not have a
super conscious or higher mind state, nor do they give any credence
to the idea of past or future lives. This book does not set out to
prove the case for the soul or past lives; it assumes that the reader is
open to these possibilities. There is ample evidence, both scientific
and anecdotal to provide an irrefutable case both for souls and past
lives in many other publications, should you wish to investigate
them.

From all the above discussion we can conclude that brain functions
like a computer where RAM AND ROM both are present. We can
access all the information in our brains even that information which
seems impossible; like the solutions to complicated problems of our
lives; we can give command to our brain to give us dexterity in
particular field by inputting the data in the super conscious mind in
the form of instructions. Hypnotism can be thus explained as the
process of silencing the outer world and connecting to the
unfathomable world of memories and experience. So, next time
whenever you suffer with problems like weak memory or some
tormenting behavior or any addiction which you want to get rid of;
or you want to excel in mathematics or in basketball playing you can
take refuge under this calming and soothing process of hypnotism
and may explore life changing experiences.



Shikha Agarwal
Sr. Lecturer, Dept. of English

MY MEETING WITH DR. KALAM

This article is dedicated to our former President of India, Dr. Abdul Kalam. I got this wonderful opportunity to meet Dr. Kalam way back in 2012, and on his sudden demise, I remembered how fruitful my interaction had been. The opportunity came through an E-Cell activity where the representatives of the Abdul Kalam Foundation were invited for a talk.

Representative who was invited to the E-Cell activity had mentioned that the quality of teaching, particularly in primary schools, happens to be very poor and is a big cause of concern for society. The representative had also mentioned that since the learning capacity happens to be enormous in youngsters, the teaching efforts and quality needs to be improved in primary schools and then it would be easier to improve it in higher education by putting in required efforts. This was also the view of the representative of Azim Premji Foundation who had also come for taking a session.

After analyzing the scenario in primary schools, we all noted that a majority of teachers in schools opt for teaching as the last resort. Very few of them take the teaching profession with interest and passion. Being the last resort, most do not take up teaching with commitment and interest and it results in poor quality. Since the representative of Abdul Kalam Foundation had provoked this thought, I sought an opportunity for meeting Dr. Abdul Kalam with the help of our alumnus Agam Khare who was working with Abdul Kalam Foundation to share my views on this concern and fortunately a meeting with Dr. Abdul Kalam got arranged in February 2012. During the meeting, Dr. Kalam was informed that quality of teaching went down because there is no respect for teachers and very few good people opt for teaching profession. In response to this, Dr. Kalam mentioned and asked, "why should there be respect for teachers when they do not have purity in thoughts and also knowledge?" In reply to this, I asserted the fact to Dr. Kalam that, as on date, teachers who are working in government schools are being assigned duties of census, elections and many other which were earlier used to be done by class III & IV employees of the government departments. These are the reasons why teaching happens to be last preference in opting for a profession. I mentioned that there is no respect for teachers as it used to be earlier and also that even in higher education, teaching happens to be the last option and most of the young teachers look for other opportunities. If they get one, then they switch over from teaching to other professions. Keeping this scenario in view, we realized that efforts need to be put in for improving the scenario for respecting teachers and to make the profession of teaching more attractive. Dr. Kalam appreciated this view and conveyed that efforts should be put in for creating awareness in this regard.



Prof. M. L. Bhargava
Advisor, SKIT

LIFE

Everything in our life happens as we organize. When everything is organized, we can do more, achieve more, and so we enjoy everything more. Leading a planned life is the biggest thing to occur to us in this decade. Those who organize life will excel far beyond those that do not. And it can start with a simple 10 minute exercise. Ready? But first let's know what it really means to organize life? May be you are looking for an all encompassing solution; maybe you just want temporary techniques, or perhaps some permanent principles of how to organize life.

An organized life allows you to succeed at whatever you desire by capturing every worthwhile thought and efficiently facilitating action on everything important without wasting time.

At times we get off the track, either practically or emotionally. At those times, you can do a 10 minute get -on-track exercise.

Review: write out everything that is weighing on your mind. Accept and appreciate how you feel right now. This is the core of how to

organize life. It starts from within.

Organize life for today – consider the fixed appointments, the general layout of the day. Organize life for the society you live in. What do you want to do for it? What is your place and purpose?

Picture the most ideally organized circumstances that fill your fantasy. This connects you with the spark of life. Organize life for projects – consider the specific things you are working on at present (the tasks, responsibilities, projects, hobbies, interests, etc.)

Organize life for right now for you are capable enough to decide on exactly what things are important to do next. These seven categories of questions have been developed over a lot of experimentation with people, and they succeed in all major areas of life



Munesh Kumar
IV B.Tech., Dept. of EE

MEMORIES

People come and go,
But the thing that remains behind are memories,
Unforgettable and inseparable,
Painful but valuable,
It shows that life is not similar,
It keeps on changing.
It shows the necessity of good moments to be memorized.

Born and thriving in beautiful hearts,
It makes you laugh, it makes you cry;

Found in solitariness, found in crowds
Not affected by the passage of time,
Can become misty but never dark ...

Asha Verma
IV B.Tech., Dept. of EE

BEYOND THE CROWD

In today's fast moving world we find many opportunities. One has to be an achiever with an aim in life. But unfortunately everyone is moving in the same direction & with the same flow of wind. The reason for this situation is that nobody dares to be different. Life provides us with best opportunities, but due to our habit of walking behind the achievers, we never realize this till the opportunity is lost. People follow the herd without any dream. If you are also one of them, then start searching your dream now.

Another reason why we don't dare to be different is because we are

trying to meet other people's expectations. We often worry more about our fellow cronies and their reactions for this. Believe in yourself, stay cool, praise the ubiquitous Lord, listen to your heart and get going. Definitely, you will become different and your presence will make the difference



Nikhil Malghani
IV B.Tech., Dept. of EE- II

PARDA: THEN AND NOW

I must have been two-three years old when I first saw a small tent like structure moving on the road near our house in Ajmer. Tent was being carried by women holding it at the corners on two sides. Being inquisitive, I followed this moving tent. Tent stopped at a temple near our house, and from it emerged a number of ladies wearing a lot of ornaments. Their heads were covered and only eyes were visible. It took me some time to understand the mystery of the moving tent. This was 'Parda using a tent' As I grew up, I realized that in those days, the ladies of rich families were expected to use this tent-like structure for going out of their homes.

Growing up in Ajmer, I had already seen Muslim women in burqas. I had a lot of Muslim friends and teachers whom we used to visit, and usually women won't come out even in presence of children.

In our family, parda was not there. When I say parda I mean covering the head and face completely by women, especially bahus (daughters-in-law). All the marriages of my sisters were held without parda.

In those days, one interesting topic of debate in schools used to be for and against 'parda pratha'. In my class IV, my class teacher gave this topic for debate. The worst part of this assignment was that "I was asked to speak in favour of Parda Pratha". This was a difficult proposition but then 'debate is debate' and one has to justify in a debate even things which he doesn't support and agree. I am sure I must have collected cogent points, as there were sufficient claps after I spoke.

A very interesting phenomenon was seen by me when my daughter was admitted to Government Girls' College situated in old Bhopal. It was her first day in the college, and she wanted that I leave her up to

the college gate. After leaving her at the gate of the college, I waited for some time to ensure that she was comfortable in the college. A very surprising scene drew my attention. Autos were coming full with girls in burqas and stopping near a building just on the opposite side of the college gate. Getting down from autos, these girls were entering this building; and what a wonderful scene I saw! Girls were entering the building with burqas from one door, and from the other door most fashionable girls were coming out. I could not understand this magic happening in front of my eyes. My mind did click, and I realized that the building was a cloakroom for burqas.

During (1986-1987) I had gone on an assignment with the University of Al Fateh at Tripoli, Libya. Against all perceptions about women's education in African countries, there were girl students in the University though not many. I had a girl student in two of my M.Tech. Courses. She used to come to class in fairly sober western dress, although she used to carry burqa, which possibly she must be using when going out of the University.

And then let us see what we see today. I find girls with their faces and hands completely covered. It is a parda of a different kind and for different purpose. When I was a child, I recollect that I acted the part of Sultana Daku; in this I had to wear black dress with black face mask, in which only eyes were kept free so that I could see. Sometimes I feel that there are lots of Sultana dakus on the roads these days!



Prof. N. K Banthiya
Professor and Head, Dept. of ME

AN INWARD JOURNEY

We are living in a world ridden with turmoil and exploitation—social, economical, emotional, physical and mental. We exist in a chaotic, ephemeral world much different from reality. The endless divisions between man and man, narrow frames of caste, creed, race, religion and sex reflect then inner self of man that is full of chaos and conflict. Caught in the utter confusion, both within himself and without, he is her to realize and attain the qualitative nature of his existence and his potential talents in order to live them.

The pressing materialistic, commercial and political environs, with the so called motto of 'survival of the fittest', are denuding man of his humane values and ideals. Forgetting the genius within the man we are being molded into mechanical robot like creatures, pre-occupied with our narrow self-centered problems (ironically, we are

responsible for them!). Confined in our own planets, we have become self-centered. Someone has rightly commented, "Earlier we lived within the walls, now there are walls between us!" Our inner self has frozen, how can it melt in sympathy with others? How can it face the neurotic world torn-apart with so many discriminations?

To do this, man needs a pliable, open and empathetic mind set and belief systems. It is time to awaken from this dormant state and establish the system that is so necessary for the mankind to lead a qualitative life, where he can 'live' his 'natural existence' and can give full expression to his innate genius and talents. Out of this chaotic life-in-death man must rise, like a phoenix, out of his own ashes. The world, dark as it may seem today, has a sun also, though it is temporarily hidden. After all, every cloud has a silver lining!

It is with this frame of mind that I would like to go 'in', introspect and depict the various thought processes, experiential ideas vis- a- vis

...the psycho-philosophical perspective.

the genius of the Man has discovered the vast unknown, has invented means and modes to reach the various planets in the galaxy on the one hand and has squeezed the world into a global village with technical innovations and creations. But have we really become a global community? Has the interior really been explored? His interior still remains unknown to him, to be explored and experienced. In order to penetrate this exterior and inward journey becomes the need of the hour.

The Human organism has a system of senses-internal as well as external. The external senses, because of their condition and nature gives us a distorted picture of this world which according to Plato is an idea., according to Vedantic perspective,, it is an illusion or 'Maya'; Kabir calls this 'Maya' a cheater and deceiver (Maha-thagni) and Keats names it as 'Fancy' which is 'a Deceiving Elf'.

Then, there are the neuro-psychological senses that constantly interfere and often overpower our sense perceptions by choosing eclectically and finding away these prejudice impression as memory or knowledge. The habits and ideas resulting from these sensations are based on deep fear and insecurity. Thus, an Ego is formed which is constantly in quest of more and more security. Desiring for more, an anxiety of Death and destruction, the Man becomes restless, violent and often ruthless. At this level, he lives torn between dichotomies of opposites and moves on the peripheries and superficial surfaces instead of reaching the centre.

Beyond our outer senses and psychic disturbances lie our inner senses (such as love, intuition, peace, etc.) pervaded by our innate intelligence which is like the brilliance of the Sun. By the habitual and constant use of insight, the Unknown reveals itself and by practicing these, man begins to function qualitatively and lives in harmony with external and internal paraphernalia. In this way, he acquires 'The quality of life' rather than 'the quantity of life'.

When one is deeply indulged in some experience, one enters into the process of inventing or discovering; one discovers in the act of exploring and invents in the act of expressing. But the process should not be confused with the experience itself. This becomes clear when in taking a photograph; it is the importance of capturing the moment and mood, not the process involved, which attracts the photographer. Thus, in blind pursuit of 'quantity', man has distorted and depleted and forgotten his talent and potential for 'quality' as an end of life.

Nevertheless, with an enquiring mind, guided by discretion, we can go beyond the crystallized nature of our limited senses, go beyond aesthetic limitations which our senses seek for, and can feel or experience the profound blissful joy from the 'truth, thus revealed'. One only has to observe, discern and sense the power and essence of the structural elements and the amount of energy hidden in them. A line, which in itself is unrelated, looks static and dead but when it is expressed and felt in relation to a figure or a form, the

same line becomes dynamic and it assumes a meaning, it has a context and it becomes activated. According to its stresses and streams a line can move straight in a zigzag motion or in spiral motion or can twist and turn according to its needs and contexts. Similarly, the senses also need to have a context, a habit of communication in order to derive a meaning and quality in life. We all possess this potential, and this energy within us. These packets of energy are within us, but they are not charged, since we do not observe the inner essence. By observing the inner essence of all ideas and experiences, we can charge these energy packets fabricate our own realities. The images so produced, can consequently help us to enter into and create 'a total image' full of life.

Once this total image is comprehended, we feel in our expressions, the very pulse of universal forces, vibrating in tune with Nature. A dancing Natraja in full radiation and in harmony with the external rhythm, or Buddha in contemplation with both radiation and in concentration with inner self are good examples of internal plus the external harmony within and without. This totality of image is no more an illusion because it is now one with and living in harmony with the external reality.

This exterior reality keep changing, and sometimes we find ourselves at a loss to cope with it but by looking into the essence, by introspection, we can live then without the stress of coping with them. As Shelley also says "If Winter comes, can Spring be far behind?" The spring is within us, we only need to explore, feel it and live it, if we want to participate and be alive to these transitory being and contexts. We have to be aware of the old and the past within ourselves, which interferes and distorts our immediate present experiences. With a mind which is open to the present, which can grasp the inner essence of the present, we can enter the state of 'Real experience', and only in those moments of experience, we really live. Our body might decay and wither but we remain unchanged and intact in spirit. By charging and using a inherent powers and latent potential, we can experience that blissful ecstatic joy which the saints have termed as 'Paramananda'.

We are born in this universe, not to confine and shut ourselves in narrow walls and boundaries; not to be preoccupied with our pretty selfish problems but to "awaken, arise and march forth." By breaking the shell of these narrow frontiers, we enter into and share the joy of creation and we can give a 'quality', 'a meaning' and 'a context' to life. This is what the inward journey of life is all about.



Dr. Krishna Sharma
Reader, Dept. of English

INDIA AND THE NEW START

"what lies in front of us is a canvas of opportunities, ready to be explored."

With all the pomp and show that has gone into formulating the "Make in India" campaign a success strategy for our country. Here's a brand new remedy – a pill to overcome problems of unemployment, illiteracy, inequality by raising infrastructure, building new vision and hitting hard on eradicating poverty which is the cause of turbulence. The question here lies as to how we can do this.

Envisioning India's future, here is a league of its kind, the blood of change, the force of empowerment and a new race called "Entrepreneurs"

Job seekers are many, but creators are none. An opportunity is all it takes to make a better man. In today's competitive world, standing as a united country is not an easy task. One has to face challenges of economic downturn, inflations, government regulations and also has to strive to attain his/her position.

Today's era is an era of change, minds are budding and so are opportunities. All we need to do is to provide them with encouragement. Once, these entrepreneurs open their firms, betterment of the society would be pouring from the skies.

Setting up of new firms, indicates an increase in job availabilities, thereby reducing the problems of unemployment. All the firms today have to comply with 2% CSR track, thanks to the government initiatives. More contributions would go into hands of the poor community thereby uplifting the society. Talking about the Entrepreneurs – they should get to set up their own businesses and create their space in the industry. They should be provided with the exposure they need and the opportunities they strive for to take their start-ups to a next level.

The tales of myth have gone by far; we need to wake up too. Our country won't be benefitted with some mere policies or laws framing compulsions for activists, we need a wave of change. Just think, in this population of Millions, even if a few Hundreds stand up to start their own firms, be it on a small scale, a few Thousands would get to earn a living by that. This is what we need – A step by step climbing onto the ladder of development. Directly targeting 'Poverty' won't help eradicate it. But one leap to fetch a bone, could get the country off its sorrows.



Anay Mathur
I B.Tech., Dept. of ME

INDUSTRY

An industry is an integrated system of man, materials and equipment.

It is concerned with production and business. It is possible by scientific means to specify, predict and evaluate the results of such a system. The aggregate of technically productive enterprises in a particular field is often termed as industry.

For instance, the term 'automobile industry' refers to the manufacturing concern in general connected with the production of the whole or parts of the automobile. The steel industry refers to the enterprises connected with the production of steel. Both technical and non-technical persons are involved in different phases of the functioning of an industry. It is called 'public' or 'private' in accordance with the nature of its management. It is small-scale or large-scale industry pertaining to its size. On completion of a course in a technical institution, one normally likes to look for employment in a suitable industry.

In India we have more or less all types of industries, the key ones being engineering and chemical. The present industrial structure in our country should be improved. Our war-time production was almost equal in quality, precision and speed as compared to foreign countries.

Our dependence on foreign countries for the supply of

machinery, chemical products and other accessories shows the weakness of our industrial organization. India's industry is now able to supply high grade steel and 80% of the articles needed by the Indian army. In the case of locomotives tanks, motor cars and airplanes, our country is progressing very fast. Indian shipyards are repairing all kinds of ships and petrol vessels. Agriculture is of course our major industry. More and technical improvements in agricultural operations go a long way in furthering our economic welfare. Fisheries, forestry, mining, railways, banking, transport, communications and such other industries invite technical men for their services. Metallurgical, chemical, textile, leather industries are often chosen by trained technicians to further their contributions to the country's growth. A factor or a plant is part of an industry. It first offers an apprenticeship to the technicians before absorbing them as regular workers. It may be possible for a technician to set himself up in an industry after gaining some experience. The technicians look for the field in which they have a taste and desire. These enterprising technicians can be self employed, contributing to the technological and economic development of the country.



Shubhank Pareek
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MAN AND TECHNOLOGY

Man is inquisitive about nature. He always has a grave urge to study nature in order to understand it. He arranges that knowledge systematically. Such a systematic arrangement of knowledge about nature is called science. Physics, botany and geology are all branches of science. We study them in schools and colleges. We apply this scientific knowledge to increase our comfort. Our comforts are various. We live in houses, travel by buses and use electric lights. These are our comforts. We apply some parts of the sciences in house building, some in machine making and some others in producing electric lamps. These parts of science are called applied sciences.

Engineering needs the laws of mathematics, physics and chemistry. An applied science deals with these laws. Applied physics provides information about forces, whereas applied chemistry tells us about the materials. Thus applied sciences form the basis for the study of engineering. Engineering involves productive and purposeful use of the sciences. It is also called technology. A chemist studies the elements in nature; He is a scientist. When he applies his scientific knowledge to produce synthetic products and medicines, he

becomes a technologist.

Thus technology is the purposeful use of knowledge of materials and sources of energy. Therefore, it is an essential part of modern life. Science and technology are complementary to each other. Science concerns natural objects and occurrences, technology deals with man made products. As science breaks up the natural world for the purpose of understanding, it is analytical. Technology, on the other hand, arranges natural materials in a different order; it is synthetical technology. Science provides basic information for technology. The latter provides better conditions for the former's development. Science provides a systematic body of knowledge but technology offers an instrument to use that knowledge.



Shubhank Pareek
I B.Tech., Dept. of ECE

STOP JUDGING, START LIVING!

"Do not judge, so that you will not be judged, since you will be judged in the same judgment that you make, and you will be measured by the same standard you apply", as written in the Bible, Jesus' command not to judge others could be the most widely quoted of His sayings.

Of course, we all make judgments all the time, at least to some extent, in the form of our opinions, likes and dislikes all are some form of "judgment," even if they are harmless. But many judgments can be harmful, both for us and others. Whether we are judging the behavior of someone in the public eye or someone who sits next to us on the couch, the effects of holding onto judgments can be detrimental to our ability to feel connected and compassionate. People are used to make up their mind with a particular feeling such as hatred for someone just by noticing something different and unaccepted change in his nature but never tries to know the reason behind it and starts judging him as they know him very well. But, the person who knows everything about someone is he himself which means that no one knows you better than yourself. So, no one has the right to judge anyone on behalf of his/her nature, dressing etc.

However, judging also helps others in making them grow up, to overcome their weaknesses, and so on. This means that, although, you can judge others about them but not in way of making them feel inferior. Also, the Bible's command that we should not judge others does not mean that all actions are moral. The Bible clearly teaches that truth is objective, eternal, and inseparable from God's character. Anything that contradicts the truth is a lie—but, of course, to call something a "lie" is to pass a judgment on something. To call adultery or murder a sin is like passing judgment—but it also means that you agree with God. When Jesus said not to judge

others, He did not mean that no one can identify sin except God.

As Mother Teresa said, "If you judge people, you have no time to love them." So how do we stop judging others so we can start to fully embrace them and the world around us? Counting other people's sins doesn't make you a saint.

We tend to think of empathy as being weak rather than strong, sweet rather than assertive. But empathy is actually powerful, so much so that its force can help you let go of judgments. So emphasize your practice of cultivating empathy, to yourself and to others. It's worth the effort. Also, rather than judging others, accept them and yourself. Instead of looking for aspects of a situation or person to judge negatively, adopt a spirit of curiosity and actively look for positive aspects of people and situations. This will help to reduce judgment, because it is pretty hard to judge and appreciate simultaneously! Last but not the least, the more you expose yourself to diversity, the more likely it is that you will see the commonalities among everyone. Though with all that said, opening yourself up to those who may seem superficially different can often reveal more profound commonalities.

So, Judge nothing, you will be happy. Forgive everything, you will be happier. Love everything, you will be the happiest.



Anjali Jain
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COMPETITION @ SKIT TIMES



The *Time Machine* is a science fiction novel by H. G. Wells, published in 1895. Wells is generally credited with the popularization of the concept of time travel by using a vehicle that allows an operator to travel purposely and selectively forwards or backwards in time.

The structure and writing style are typical for the late 1800s. An unnamed narrator tells us of a strange person he met who then takes over the narration to tell us about an event that happened to him. In this case, that second narrator is the Time Traveller. The Time Traveller then expounds quite eloquently and philosophically on everything that has happened to him. I enjoyed this storytelling method, because it gives space to the narrator for the strange tale to do this philosophical thinking. It makes sense to think about what you've learned when you're talking about a past event. The events are exciting, but they don't happen at such a break-neck speed, the book is slow for the readers to think what they might interpret.

Instead of getting hung up on politics or climate change, the dystopia revolves entirely around evolution. The Morlock/Eloi split happened because of the ever-increasing gap between the haves (the future Eloi) and the have-nots (the future Morlocks). The Eloi are childlike in both stature and behaviour. They are the ultimate end result for what happens when people have no responsibilities and everything done for them, which is clearly how Wells sees the then modern-day elite functioning. The Time Traveller talks about the ultimate evolutionary faults of a living being that is too easy at multiple times.

"Strength is the outcome of need; security sets a premium on feebleness." (page 30)

On the contrary, the Morlocks live underground in old industrial tunnels. They are physically strong but have lost their humanity due to lack of the finer things. They have no contact with the natural beauty of the world and so have turned into these ape-like, cannibalistic creatures. The Time Traveller expounds on this:

"Even now, does not an East-end worker live in such artificial conditions as practically to be cut off from the natural surface of the earth?" (page 50)

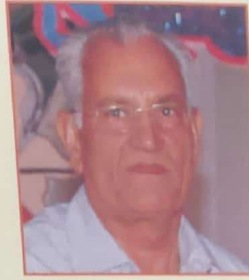
The plot itself kept me on the edge of my seat and constantly surprised me at what happened. Although it's obvious the Time Traveller makes it back from his first voyage, there are other threats and dangers that are sufficient to keep the reader engaged. The ending actually surprised me as well.

This is a piece of classic sci-fi that has aged very well. The *Time Machine* has since been adapted into three feature films of the same name, as well as two television versions and a large number of comic book adaptations. In addition, it is a short read for a classic, more similar in length to modern fiction. It is the ideal read for both hard-core sci-fi fans and those interested in dipping their toe in classic sci-fi. Highly recommended!



Ritwick Krishnatri
B.Tech I year (ECE)

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PROF. (DR.) S. L. SURANA
Director (Academics)
& Member Secretary



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



MRS. RACHNA MEEL
Registrar

OUR TORCH BEARERS



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Director, SKIT
B. Com, MBA

Experience of 16 years of looking after the family business along with the educational concerns of the institute



Prof. (Dr.) C. M. Choudhary
HOD - Computer Science & Engineering
M. Tech, PhD

Experience of 19 years of administration and teaching



Prof. (Dr.) S.L. Surana
Director (Academics), SKIT
B.E., M.Tech (IIT Bombay),
PhD (UK) LMISTE, SMIEE (USA) FIE, FIETE
Experience of 53 years of teaching and administration



Prof. (Dr.) Anil Chaudhary
HOD - Information & Technology
M. Tech, PhD

Experience of 21 years of administration, teaching and corporate world



Prof. (Dr.) S. K. Calla
Director (D & W), SKIT
B.E. M.E., PhD, FIE, Ex. Chairman &
M.D., Rajasthan, Rajya Vidhyut Utpadan Nigam
Experience of 45 years in power sector, administration and academics



Shri L. N. Datt
Head - Civil Engineering
M.Sc, LMDMS, (USA), GS, (INDIA)

Experience of 54 years of academic teaching, industry and administration



Prof. (Dr.) Ramesh Kumar Pachar
Principal & HOD-Electrical Engg.
M. Tech, PhD

Experience of 19 years of administration and teaching



Prof. (Dr.) Sudha Calla
In-charge - B.Tech I Year
M.Sc. PhD

Experience of 35 Years of administration and Teaching



Prof. Hemlata Dullar
Principal, SKIP
M. Pharm

Experience of 23 years of administration and teaching



Prof. (Dr.) Archana Saxena
HOD - Deptt. of Chemistry
M.Sc., PhD

Experience of 21 years of administration and teaching



Prof. M. L. Bhargava
Advisor, SKIT
B.E., M.A. (Economics)

Experience of 48 years of industry, administration and teaching



Prof. (Dr.) Rohit Mukherjee
HOD - Deptt. of Mathematics
M.Sc., M.Phil, PhD

Experience of 17 Years of administration and Teaching



Prof. (Dr.) N. K. Banthiya
HOD - Mechanical Engineering
M. Tech, PhD

Experience of 60 years of administration and teaching



Prof. (Dr.) R. K. Jain
HOD- Deptt. of Physics
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Experience of 15 Years of administration and Teaching



Prof. (Dr.) Satish Bhatnagar
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Prof. S P Garg
Dean-Management Studies
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(1973), M. Sc (Agri) (1971) CAIIB, DBM(I)
Experience of 38 years of teaching, administration & multidimensional corporate responsibilities in India and abroad.



Dr. Niraja Saraswat
HOD- Deptt. of English
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Experience of 13 Years of administration and Teaching

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DEPARTMENT OF ELECTRICAL ENGINEERING



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DEPARTMENT OF CIVIL ENGINEERING



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OUR PROUD CULMINATIONS



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ELECTRONICS AND COMMUNICATION ENGINEERING – I



ELECTRICAL ENGINEERING – I



OUR PROUD CULMINATIONS



CIVIL ENGINEERING - I



COMPUTER SCIENCE ENGINEERING - II



ELECTRONICS AND COMMUNICATION ENGINEERING - II



ELECTRICAL ENGINEERING - II



MECHANICAL ENGINEERING - II



एक रूपया जिंदगी

एक रस्सी है जिसका एक सिरा ख्वाहिशों ने पकड़ा है
और दूसरा ओकात ने... इसी खींचातानी का नाम है जिंदगी।।
कुछ ख्वाहिशों पूरी कुछ चाहतें अचूरी
इसी उलझी हुई कहामकहा का नाम है जिंदगी।।
इन्हीं ख्वाहिशों की होर से बंधा एक जिंदगी परिन्धा है इंसान
जो उम्मीदों से ही घायल है, उम्मीदों पर ही जिंदा'
इसी आस का नाम है जिंदगी।।
इसी भागदीड़ में पूछ हाल एक शख्त से, तो इसने सिर झुका के कहा
लोग तो जिंदा है, पर ज़मीर का पता नहीं
इसी उलझन का नाम है जिंदगी।।
एक हसरत जो कभी भी सिर नहीं होती,
ना जिसकी अदा समझ आती है
ना जिसकी आदत, हर रोज नयी सी,
हर रोज उलझी सी इसी पहेली का नाम है जिंदगी।।
एक उलझा हुआ सीदा जिसने बदलने के लिये लड़ना पड़ता है
और आसान करने के लिये समझना पड़ता है
इसी नापतोल का नाम है जिंदगी।।
सूख, जो कहीं दूर किली कोने में दफन है
और पूरी दुनिया कमबख्त उसे पाने को चली जा रही है
हर रोज सिगरेटी है, हर रोज बिखरती है
इसी लाचारी का नाम है जिंदगी।।
रास्ते खत्म कहां होते है जिंदगी के सफर में
मंजिलें तो यहीं है जहां ख्वाहिशों धम जाये
इसी समझवारी का नाम है जिंदगी।।
घार आने सांस, बारह आने एहसास, एक रूपया जिंदगी।।

दियंका शर्मा, व्याख्याता, कम्प्यूटर अभियांत्रिकी

जिन्दगी

वक्त की गहराइयों से कुछ पल लाया हूँ निकालकर
इन्हीं पलों को हाथद कभी रखा था मैंने लगभगकर
वो पल जो मैं उम्मीदों के सहारे जिये जा रहा था
और हर पल जीकर जिन्दगी को पिये जा रहा था

फिसलती सी जिन्दगी ने वक्त थाम लेने को कहा
भूल जा वो सब जो तूने मेरे कारण है सहा
जिन्दगी तो रेत है हाथों से फिसल जाएगी
याव रहेगी वहीं जिन्दगी जो दूसरों के काम आएगी
अगर चाहता है तू कि तुझे मरकर भी याद रखा जाए
तो याव कर वो पल जो तूने दूसरों की खुशी के लिए बिताए
और अगर एक भी पल गम बढ़ाने के काम है आया
तो ये समझ की जिन्दगी जीकर भी तूने कुछ नहीं है पाया
पारसना कर भगवान से कि तुझे खुशियाँ बांटने का मौका मिले
जिन्दगी को हमेशा जीने का बहाना, और मीत को धोखा मिले।

तितैक शर्मा, चरिष्ठ व्याख्याता, विद्युतीय अभियांत्रिकी

माँ

माँ संवेदना है, भावना है, अहसास है, माँ जीवन के फूलों में, खुशबू का वास है
माँ रोते हुए बच्चे का, खुशनुमा पालना है,
माँ मरुस्थल में नदी या मीठा-सा झरना है
माँ लोरी है, गीत है, प्यारी-सी धाप है, माँ पूजा की थाली है, मंत्रों का जाप है,
माँ आँखों का सिसकता हुआ किनारा है, माँ ममता की धारा है, गालों पर पम्पी है,
माँ बच्चों के लिए जादू की झम्पी है, माँ सुलसते दिनों में, कोयल की बोली है,
माँ मैहन्दी है, कुमकुम है, सिंदूर है, रोली है। माँ त्याग है, तपस्या है, सेवा है,
माँ फूंक से ठंडा किया कलेवा है, माँ कलम है, दवात है, स्याही है,
माँ परमात्मा की स्वयं एक गवाही है, माँ अनुष्ठान है, साधना है,
जीवन का हवन है,
माँ जिंदगी के मोहल्ले में आत्मा का भवन है,
माँ चूड़ीवाले हाथों के, मजबूत कंधों का नाम है,
माँ काशी है, काबा है, और चारों धाम है, माँ चिन्ता है, याद है, हिचकी है,
माँ बच्चों की चोट पर सिसकी है, माँ चूल्हा, धूँआ, रोटी और हाथों का छाला है,
माँ जीवन की कड़वाहट में अमृत का प्याला है, माँ पृथ्वी है, जगत् है, धुरी है,
माँ दिना इस सृष्टि की कल्पना अचूरी है,
माँ का महत्त्व दुनिया में कम हो नहीं सकता,
माँ जैसा दुनिया में कुछ हो नहीं सकता,

कनक गिरि, व्याख्याता, कम्प्यूटर अभियांत्रिकी

दोषी कौन

सुमित अखबार पढ़ता झुंझलाता सा नजर आया, तो पिता जी ने आकर कारण
पूछा। सुमित आक्रोशित हो कर समाज, सरकार, देश-दुनिया के हालातों को कौसने
लगा कि देश में लगभग सभी राज्यों में पानी की समस्या बढ़ती ही जा रही है,
लोगों को स्थाने को शुद्ध भोजन नहीं मिल रहा, गाँवों-ग्रहों में रहने को जगह नहीं
है, किसानों के पास खेती करने को ना ज़मीन है, ना अच्छे बीज, ना पानी, ऊपर
से मौसम की मार और सभ्य समाज की आशा में ब्लोबल वार्मिंग और न जाने
ऐसी बिसानी ही समस्याएँ हैं, पर सरकार, समाज, हमारे वैज्ञानिक, आधुनिक

टेक्नोलॉजी से कुछ करते क्यों नहीं ?

पिता जी ने सुमित की सारी बातें धैर्य से सुनीं और बात का रुख बदलते हुए पूछा कि दो दिन पहले अपनी गाड़ी खराब होने पर तुम अपने मित्र रवि की बाइक क्यों लाये थे ? अपनी गाड़ी की तरह घर के खुले आंगन के बजाय घर के अहत्त में क्यों रखा ? क्यों आज लौटाने से पहले, उसे अच्छी तरह साफ किया और पेट्रोल भरवाया ? पिताजी के ऐसे अटपटे सवालोंने से चकित होते हुए भी सुमित बोला कि गाड़ी ना लाता तो, समय पर परीक्षा मवन तक भी ना पहुँच पाता। बाकि रही रख रखाव की बात तो वह मेरी सम्पत्ति नहीं थी, जो मैं जैसे चाहूँ इस्तेमाल करता। वो तो अमानत (धरोहर) थी किसी की, उसे तो जस का तस जो लौटाना था। पिताजी तपाक से बोले, बस यही अंतर है हमारी सोच का, जिसने समाज, देश, दुनिया और पूरी प्रकृति का ऐसा हाल किया है।

प्रकृति या ईश्वर ने पानी, जमीन, जंगल, अन्न, हवा आदि सभी जीवन के लिए जरूरी चीजें भरपूर मात्रा में मानव को दीं परन्तु मानव ने उसे अपनी सम्पत्ति समझ, उसका दुरुपयोग किया जबकि प्रकृति की ये देन एक धरोहर है, हमारे पास, जिसे समझदारी और मितव्ययता से उपयोग कर, आगे आने वाली पीढ़ियों को धरोहर के रूप में देना है। प्रकृति के पास अपनी हर संतान का पालन करने के लिए भरपूर साजो सामान है परन्तु एक भी व्यक्ति के लालच के लिए नहीं। पिताजी की बात सुन, सुमित फिर नये सिरे से सोचने लगा।

डॉ. प्रमिला कुमावत, वरिष्ठ व्याख्याता, गणित विभाग

माँ, अगर तुम न होती

माँ, अगर तुम न होती

तो ये मन बावरा शायद नालायक ही रह जाता।
अगर तुम न होती, तो शायद खुदा गायब ही रह जाता।।
अगर वो एक तमाचा मेरी गाल को न छूता
तो गालिब ये लड़का क्या क्या गुल खिलता।।
माँ तुमने वो दिया जो शायद फरिश्ते भी न दे पाते
वैसे वो फरिश्ता तुम ही हो माँ, मैं जी उठता हूँ तुम्हारी झुंज पाके
सँ सदा अपने इस छोटे से नादान का हाथ पकड़े
दुआ है खुदा से, तेरा साथ छूटने से पहले
गुनासिब होगा दुनिया छोड़ देना।।

जसपीत सिंह, चतुर्थ वर्ष, यांत्रिकी अभियांत्रिकी

ध्यान एक साधना

ध्यान एक ऐसी सामर्थ्य है जो मनुष्य के प्रारम्भिक काल से ही चली आ रही है। कहा जाता है ध्यान में रहकर मनुष्य अपने रोग-शोक आदि से छुटकारा पा सकता है। पुरातन वर्षों में बड़े-बड़े ऋषि मुनि कई-कई सालों तक ध्यान में रहकर बड़ी से बड़ी साधना को हासिल कर लेते थे। आज के युग में मनुष्य अपने दैनिक कार्यों में इतना व्यस्त हो चुका है कि उसे ध्यान तो क्या आराम करने का भी समय नहीं मिलता। फिर भी कुछ मनुष्य ध्यान की साधना के लिए ऐसे मठ में जाते हैं जहाँ प्रतिदिन कई घण्टे-घण्टे ध्यान की साधना की जाती है।

परिभाषा:- ध्यान-धारणा का वास्तविक लक्ष्य और कुछ न होकर स्वयं ध्यानमयता ही है। ध्यान से परे की बातों का ध्यान के द्वारा शोध करना साध्य के पीछे लगने जैसी बात है पर जो शोध उपलब्ध किया जा सकता है वह नष्ट भी हो सकता है। अन्तिम परिणति अथवा साध्य कितनी ही उच्च कोटि का हो अन्नत: वह हमारी अभिलाषा के द्वारा ही निर्मित होता है। विशिष्ट स्थान पर पहुँचने के लिए विशिष्ट साधन का शोध करने के लिए अथवा प्राप्त करने के साधन के रूप में ध्यान का उपयोग करने से ध्यान करने वाले ध्याता को अंश को ही अधिक बल प्राप्त होता है। वस्तुत: ध्याता और ध्यान एक ही है, अभिन्न है। ध्याता के स्वरूप को समझ लेंगा ही ध्यान है।

प्रान्जुल गुप्ता, प्रथम वर्ष, कम्प्यूटर विज्ञान

चमचा भाई साहब

श्री मान हो गए भगवान, और दुःख दुनिया जहान हो गए।
कादिलियत की कहाँ पूछ रही, जब चमचे इतने महान हो गए।
पद पैसा पूछ प्रसिद्धि, सदा उनके ही साथ है।
हमारे सिर पर श्री मान का पैर, और चमचों के पीछे हाथ है।
भाई साहब का मिला सम्बोधन, रातोंरात ही चॉदी हुई।
हमारा तूफान भी किसी को न लगा, और उनकी हवा भी आँधी हुई।
श्री मान की आँखों में बस, भाई साहब ही चमकते हैं।
कल तक जो दिखते भी ना थे, आज जुगनु से दमकते हैं।
श्री मान की आँखों पर, ये कैसी छाया छापी है।
दूर का पतझड़ ओझल हुआ, पास की हरियाली छाई है।
चमचों की चमक में श्री मान, अस्ली स्वाद को भूल गए।
चमकते चमचे की दाल को खाकर, पेट में कितने रूल गए।
चमचे तो चमचे हैं श्री मान, एक दिन पलट जाएँगे।
भाई साहब तब श्री मान ही होंगे, और श्री मान 'सलट' जाएँगे।

विवेक शर्मा, वरिष्ठ व्याख्याता, विद्युतीय अभियांत्रिकी

खूबसूरती की परिभाषा

खूबसूरत है वो लव, जिन्हे दूसरों के लिए दुआ आ जाए।
खूबसूरत है वो दिल, जो दूसरों के दुःख में शामिल हो जाए।
खूबसूरत है वो जज्बात, जो दूसरों की भावनाओं को समझ जाए।
खूबसूरत है वो अहसास, जिसमें प्यार की मिठास खो जाए।
खूबसूरत है वो बातें, जिसमें शामिल हो दोस्ती और प्यार के किस्से कहानियाँ।
खूबसूरत है वो आँखें, जिसमें किसी के खूबसूरत ख्याब समा जायें।
खूबसूरत है वो हाथ, जो किसी के लिए मुश्किल में सहारा बन जाए।
खूबसूरत है वो सोच, जिसमें किसी की सारी खुशियाँ समा जायें।
खूबसूरत है वो दामन, जो दुनिया से किसी के गमों को छुपा जाए।
खूबसूरत है वो आँखें, जो किसी के गम में बह जायें।

नरेश सैनी, तृतीय वर्ष, विद्युतीय अभियांत्रिकी

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