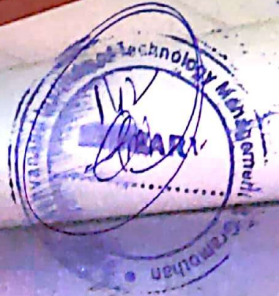


# THE SKIT TIMES

ISSUE 36



A QUARTERLY BULLETIN OF



SWAMI KESHVANAND INSTITUTE  
OF TECHNOLOGY, MANAGEMENT & GRAMOTHAN



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## OUR MENTOR & PATH FINDER



Swami Keshvanand Ji  
(1883 - 1972)

## 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.

## PUBLISHER

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# THE EDITOR SPEAKS



## *The Perfect with Imperfections*

The Greek mythology mentions an iconic figure Hercules who was the son of a God and a mortal. He deserves a special place in the pages of history for his indomitable strength and far ranging adventures. A multi-faceted persona, Hercules is inspiration personified and thus, no wonder the English idiom 'a herculean task' draws a justifiable reference from the superhuman qualities of the Greek hero. However, a question naturally follows: are there any people around who possess these Herculean qualities, or Hercules befits his worthy place in the dusty pages of the old Greek literature?

There are endless success stories that indeed remind us of the strength and passion of this kind. Nevertheless, the name I mention here as an answer to the question is H. Boniface Prabhu, the Indian wheelchair tennis player, a world champion in the category and a recipient of the Padma Shri, the fourth highest civilian award of India. This not to say that he outweighs the contribution of others but the mere reason of including his name here is the beauty of his struggles in life. The pain of having a crippled body after having lived a healthy life and then transforming the imperfection to perfection is what makes him special. Prabhu was born as a normal child and led a healthy life until he became quadriplegic (paralytic) for the rest of his life after a failed medical treatment at the age of four. He kept the pity and ridicule at bay and did not let his passion for tennis die. Today, Prabhu holds 17th ranking in the world in singles and 19th in doubles. Though Boniface's principal claim to fame is wheelchair tennis, he has excelled in other disciplines, too. He has represented India, at International events in six disciplines over 50 times. These include athletics, shot put, badminton, javelin throw, table tennis, shooting and discus throw, apart from wheelchair tennis. Boniface Prabhu is the founder of a trust, Boniface Prabhu Wheelchair Tennis Academy, based in Bangalore, with the aim of promoting the physically and intellectually challenged people and providing them with opportunities to nurture their talents. The Academy provides free sports training to differently enabled people.

People like Prabhu remind us of the infinite strength that God has bestowed us with. People like him teach us to ignore what we do not have, to strive hard in life and become what we are born for. Salutations to this Indian Hercules!

**Dr. Neha Purohit**

Editor-in-Chief



# NEWS FLASH

## ORIENTATION PROGRAMME FOR FIRST YEAR STUDENTS

The institute conducted its Orientation Programme, "Aagaaz" for the first year students on August 1st, 2016. As the students stepped in the college, they all were welcomed with vermillion and sweets. They sought blessings of Goddess Saraswati and proceeded to the registration counter which was set up by the college authorities in front of Sir M. Visvevarya Block, where students were allocated sections and were handed an information booklet.

The programme took place in the captivating grandeur of the Gyan Mandir Auditorium. To give an auspicious beginning to the program, all the honorable dignitaries performed the lamp lighting ceremony, which was followed by Saraswati Vandana. Soon the chief guest of the event, Shree Dhanpat Raj Dhariwal, Founder and CEO, vision 2025, joined everyone to grace the programme. He was given a warm welcome by Mr. Jaipal Meel, Director, SKIT and was honoured with a shawl and memento by Mr. Surja Ram Meel, chairman, SKIT. Shree Surja Ram Meel stepped up on the stage, to greet the audience and to inspire the students. His speech was followed by an inspiring note from Mr. Jaipal Meel which captivated everyone and motivated the students to show their caliber in their upcoming four years. Then, a video was played



to brief the audience with the grandeur of the institute. Prof. (Dr) S.L. Surana, (Director Academics) welcomed the new comers and emphasized the importance of regularity and hardwork. Professor Ramesh Kumar Pachar, Principal SKIT, covered all the important aspects of higher education that all students were about to begin. He ended his presentation by quoting, "Here we educate students not just to become good engineers but also to become good citizens." the chief guest of the event, Shree Dhanpat Raj Dhariwal enlightened the audience with his words of wisdom and motivated students to perform well in their upcoming years.

The cultural program included bhangra dance performance from one of the dance groups of the dance club of the institute, a western dance performance & a short play from the Docu.Drama Club of the college which left everyone spellbound. All students left college that day excited, waiting for the next day to come, so as to start their new life with complete enthusiasm.

## INDEPENDENCE DAY CELEBRATIONS

The patriotic fervour of the SKIT family essayed itself through the jubilant celebrations of the 70th Independence Day. The hues of saffron, white and green marked a willing dress code for a number of people present at the ceremony. The national flag was hoisted with much pride by the Chairman, Shri Surjaram Meel, Shri HCS Berry, the guest of the day, Shri Jaipal Meel, Prof. S.L Surana, Prof. S.K Calla, Mrs. Rachna Meel and Prof. N.K Banthiya. The exuberance of the cultural programme presented by the students filled the ambience with salutations to the martyrs of the country. The Chairman urged the students to uphold the right values and to be firm like the martyrs. He saluted the life of Mahatma Gandhi whose philosophy is still relevant in the present day. Dr.S.L Surana maintained that the day should be celebrated as a day of new learning and expanding one's vision about mapping goals. The honoured guest, Shri.HCS Berry recalled his interactions with the

freedom fighters and implored the students to value the freedom we have achieved. Like every year, the institute acknowledged the contributions of faculty members in the field of research and academics. The faculty members who received certificate of appreciation were: Dr. Akash Saxena, Mr. Avdhesh Sharma and Mohd. Imran (EE), Prof. Rohit Mukherjee and Prof. Amber Srivastava (Maths) and Mr. Praveen Jain and Ms. Rukhsar Zafar (ECE). The e-yantra certificates and cash prizes worth Rs.6000 were awarded to Mr. Pallav Rawal and Ms. Vinita Agarwal (ECE) and Praveen Saraswat and Mr. Manoj Kumar Sain (ME). The next set of awards was presented to the winners of the RTU University Tournaments. This segment of the programme ended with the felicitation of Mr. Pradeep Sihag, Chief Warden, SKIT for his outstanding services for the improvement of the hostels. The ceremony ended with the distribution of sweets to all present.





## SHUBHARAMBH: DEVELOPING FUTURE MANAGERS

Department of The Department of Management Studies, SKIT has come up with all the possible opportunities to fulfill the dreams of the management students. DMS, has manifested its potentiality and bench-marked itself to one of the top most B-schools of the northern India. Thus, to nurture the hidden talents of the new entrants, the department organized a three day orientation programme, "SHUBHARAMBH: Developing Future Managers" from August 11th - 13th 2016 at SKIT campus, for the budding managers of our country so that they get the comprehensive details of various management concepts and how to tackle the real-life situations associated with it. This programme also aimed at the development of the MBA graduates as individuals with a sense of responsibility and open-mindedness to new learning. The programme was coordinated by Dr Savita Choudhary and Maneesha Kaushik.

## WORKSHOP ON EFFECTIVE MANAGEMENT & WRITING SKILLS

A workshop on "Effective Management Writing Skills" was organized in the Kautilya Seminar Hall, DMS on 15th September, 2016. Welcome remarks were given by Ms. Maneesha Kaushik. The workshop was inaugurated by Prof. (Dr.) S. L. Surana, Director (Academics), Prof. (Dr.) S. K. Calla, Director (D & W). Prof. S. P. Garg, Dean, DMS covered the theme thoughts. There were total 5 Sessions. The first session was covered by Prof. S. P. Garg on the topic "Techniques for Improving Writing Skills with Special Emphasis on Management Issues". The second session was covered by Prof. Dr Vikas Shrotriya on the topic "Effective Writing in University Exam to Score Better Marks". The third was covered by Ms. Maneesha Kaushik on the topic "Problem Solving Approach through Hands on Learning Activities". The fourth was conducted by Dr. Ona Ladiwal on the topic "A Quick Guide to Avoiding Common Writing Errors". The last session was the concluding session. The workshop improved the writing skills of participants & helped them shift from being an individual contributor to a skilled manager who can achieve team success & drive the bottom line performance.

## INDUCTION SESSION FOR III SEMESTER ME STUDENTS

An induction session for the III semester Mechanical Engineering students was organised on July 20, 2016. In this interactive session, the Head of the Department Dr. N. K. Banthiya and Deputy Head, Mr. Dheeraj Joshi, talked to students about the culture of the department. The students were motivated to follow the code of conduct of the department as well as to maintain the seventy five percent attendance criterion.



Coordinators of ASME Student Section, SAI-INDIA Collegiate Club, Robotics Club and Renewable Energy Club introduced their clubs & presented the future plans of various activities in respective clubs.

## QUIZ COMPETITION ON INDIAN INDEPENDENCE BY ASME STUDENT SECTION

To commemorate the Indian independence, a quiz competition was organized by ASME Student Section on Wednesday, August 17, 2016. Six teams consisting of two members each participated in the quiz competition. Five teams were from students of different sections from the department and one team was from the faculty members of the department.

Dr. N. K Banthiya, HOD ME, was the quiz master. The event was coordinated by Mr. Manoj Kumar Sain, Reader ME and Mr. Arun Beniwal, Lecturer ME.

The top three teams were as follows:

**FIRST POSITION:** ME III Semester-C

- Prakhar Sharma
- Prashant Chauhan





### SECOND POSITION: ME Faculty

- Suresh Choudhary • Pramod Jain

### THIRD POSITION: ME VII Semester-A

- Amit Singh • Neeraj Sharma

Autobiographies of freedom fighters and our great leaders were given to the winning and runner up teams. Gifts were also given to the audiences who had given correct answers. All faculty members and students of the Department of Mechanical Engineering attended the quiz.

## MOTIVATIONAL TALK BY ER. SANVEER SINGH PURI

An invited talk and career motivational lecture for B.Tech. V Semester ME students was delivered by Er. Sanveer Singh Puri, an Alumnus of SKIT, and Production Manager, Hulikkal Electro Cycles India Pvt. Ltd. Coimbatore, on 28th August, 2016. During his presentation Er. Puri discussed about stress management and interview skills. The venue of the talk was Meghnad Saha Seminar Hall.

## VISIT TO MSME CENTRAL WORKSHOP, JAIPUR

A local industrial visit to MSME, Central Workshop, 22-Godown, Jaipur was organized for V Semester Mechanical Engineering students. Students visited various machining centres including 3-D printing, CNC Drilling, CNC Milling and Material Testing. The visits were coordinated by Mr. Amit Kumar Bansal, Reader ME. The details of visits are as follows:



Section	Date of Visit	Faculty In charge
V Semester A	23 <sup>rd</sup> August, 2016	Mr. Amit Bansal, Mr. Madhukar Kumar
V Semester B	24 <sup>th</sup> August, 2016	Mr. Praveen Saraswat, Mr. Sanjay Bairwa
V Semester S	26 <sup>th</sup> August, 2016	Mr. Amit Bansal, Mr. Chandan Kumar

**No matter how educated, talented, rich or cool you believe you are, how you treat people ultimately tells all. Integrity is everything**

## FACULTY SEMINAR

The Department of Mechanical Engineering organizes regular seminars on every Friday by faculty members. These are coordinated by Mr. Dharmendra Hariyani, Reader-ME. The details of seminar presented so far in the current session are as follows:

TOPIC	: Free Vibration Analysis of FGPH Circular Plate by Using COMSOL 4.2
Presented by	: Mr. Trivendra Sharma, Lecturer-ME
Date	: 12/08/16
Topic	: Bio-diesel as an Alternative Fuel for IC Engines
Presented by	: Ms. Renu Sharma, Lecturer-ME
Date	: 19/08/16
Topic	: Industrial Safety
Presented by	: Mr. Madhukar Kumar, Lecturer-ME
Date	: 26/08/16
Topic	: Introduction to Computational Fluid Dynamics with open FOAM
Presented by	: Mr. Nikhil Sharma, Lecturer-ME
Date	: 02/09/2016
Topic	: Tribo- Performance of Short Kevlar Fibre Reinforced Functionally Graded Material
Presented by	: Dr. Vikash Gautam, Reader-ME
Date	: 09/09/2016

## EFFECTIVE LEARNING FOR MANAGEMENT EDUCATION

A workshop on "Effective Learning for Management Education" was organized on 27 August, 2016. The initial remarks were presented by Dr. Vikas Shrotriya. Welcome Address was given by Prof. S. P. Garg, Dean, DMS.

The Inaugural Address was by Prof. (Dr.) S. L. Surana, Director (Acad.) Words of Wisdom were given by Prof. (Dr.) S. K. Calla, Director (D & W), and Vote of Thanks was given by Mr. Atul Gupta. The workshop aimed at discussing various effective learning approaches for Management Education with Special Emphasis on Case Methodology. The final session was conducted by Prof. S. P. Garg, Dean, DMS on Problem Solving Approach through Situation Handling & Role Play Activities.

The resource person for the workshop was Mr. Atul Gupta. The workshop improved the foundation skills of participants and helped them to shift from being an individual contributor to a skilled manager who can achieve team success & drive the bottom line performance.





## TEACHER'S DAY CELEBRATION

The birthday of Dr. Sarvapalli Radhakrishnan, was celebrated in the Civil Department as teacher's day on 5th Sept, 2016. The performance of students on stage exclusively for teachers was a memorable one. Students from II and III year exhibited their talents as a treat to the teachers. Dance, music and skit made the day explicable. Following the cultural programme, games were conducted for the teachers by the students.

## REPORT ON EDUCATIONAL TOUR

As the population is increasing the demand of water is also increasing day by day. This demand cannot be fulfilled without preserving/recharging the water sources. Mr. Rajendra Singh, popularly known as waterman, has been doing tremendous work under Tarun Bharat Sangh's initiative of water conservation for the past 30 years. To understand these techniques, the students of Civil Engineering department visited village Hamirpur and Bheekampura of Alwar district of Rajasthan on 6th September, 2016 along with Sh. Surja Ram Meel (Chairman), Dr. S.L. Surana (Director-Academics), Dr. S.K. Calla (Director- D & W), Dr. D. K. Sharma, Prof. (Dept. of CE), Amit Kumar, Asst. Professor (Dept. of CE), and Manmohan Sharma, Asst. Professor (Dept. of CE),

Mr. Suresh, a representative of Tarun Bharat Sangh, explained about the various works carried out in Hamirpur village with the cooperation of the sarpanch Sh. Rudmal. He explained that the main objective of Tarun Bharat Sangh is to spread awareness among villagers about the importance of water conservation and the knowledge of water conservation techniques. They also motivate villagers to participate in large numbers for such Nobel work. Mr. Suresh explained on map about the various works carried out by the community in that region to recharge the ground water. Students visited two sites where one Pukka and one earthen construction were made for conservation of water.

After visiting the water conservation practices carried out in Hamirpur village, students reached the head office of Tarun Bharat



Sangh at Bheekampura village. There the sangh runs a school named "Tarun Water School." Delegates from various parts of country visit this place to acquire knowledge about geological formation of the earth and to understand the techniques for water conservation. Mr. Singh interacted with our team and explained how they constructed a diversion canal in the premises to recharge the ground water. Due to this, the water table of nearby area increased substantially.



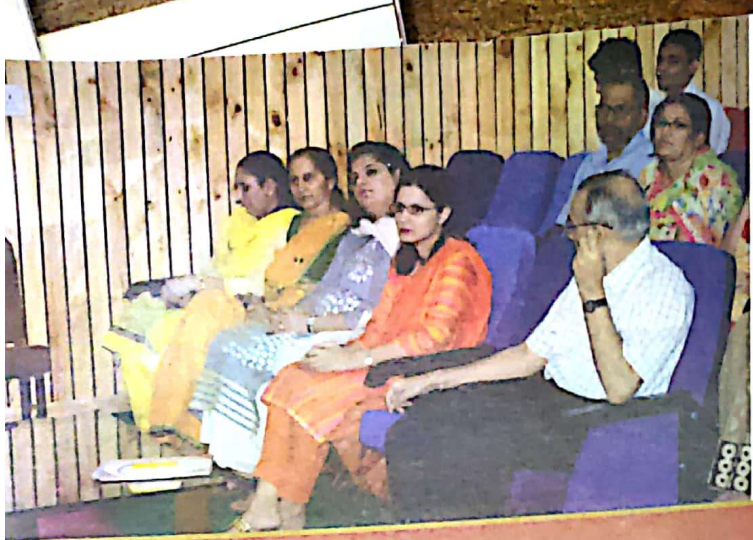
Mr. Singh asked students to work for the benefit of the community. He emphasized on the easy technology so that its adoptability increases in society. He called young students to come forward and contribute in this field along with their studies.

## AWARDS FOR FACULTY MEMBERS

**Prof. R.K Jain (HOD, Department of Physics)** was felicitated at the 5th PRINCIPALS & TEACHERS AWARD -2016. This event celebrated the exceptional performance of the gurus who have no vested interest hidden but only an urge to educate, elevate and empower. Prof. was nominated for the award and received this award at Birla Auditorium on 3rd September, 2016.

**Ms. Neha Purohit (Reader, Department of English)** bagged the first prize at the inter-collegiate English extempore competition, conducted by the Institution of Engineers, India. The other participant colleges were Manipal University, GIT, Poornima College, Arya College & many more.





## SEMINAR ON RIGHT TO INFORMATION (RTI) & LAUNCH OF BROCHURE OF A TWO – DAY NATIONAL CONFERENCE

A seminar on "Right To Information" was organized by the Department of Management Studies. Prof. S.P.Garg, Dean, DMS, highlighted that unlike other management institutes where only RTI model is being focused upon, SKIT focuses more on high quality education i.e overall development model like those at IIMs. He also focused on the student development programs that are organized regularly to help sharpen the skills of students as future managers.

Shri. Alok Kulshreshtha, TII who was one of the guest dignitaries gave his thoughts on the functional autonomy of SKIT. With regard to the seminar, he focused on youngsters who should be aware of their rights and duties so that they could contribute maximum in the development process of the country.

Shri.LC Shrivastava, the National Chairman of TII, who is also an author of many books, gave a wide picture on what TII is. Talking about transparency, he emphasized on several acts based on the topic.

A presentation was given by Shri. J.K.Sachdeva, Executive Member, TII and Shri. Alok Kulshreshtha, TII on RTI, 2005. They also had an interactive session with students where students were allowed to put forth queries on problems regarding RTI.

Later, another guest, Shri. G.S.Hora, Chairman, TII shared his thoughts and vision on the evolution of corruption starting from the days before Independence to the present day. He also showed a different aspect of RTI where he highlighted the actual working of RTI and the matters that are still pending. In the prize distribution ceremony based on the quiz on RTI, the hard work of the participants was acknowledged in the form of cash prizes. A vote of thanks by Prof.Dr. S. K. Kalla, Director(D&W) marked the end of the seminar.

## E-MOMENTUM 2016

TOPAZ, the Entrepreneurship Development Cell of SKIT, began its journey for the session 2016-2017 through "E-Momentum 2016", the Orientation Ceremony, on 7 September 2016.

Keeping the true spirit of entrepreneurship and novelty alive, the ceremony aimed at instilling the sense of entrepreneurship among the students as well as faculty members. "E-Momentum 2016" demonstrated that creative ideas are the sparks that are needed to achieve success. Prof M.L Bhargava, Advisor SKIT, motivated the students to be innovative creative and pave their path to success. Ms Abha Meel, Advisor SKIT, and Prof S.P Garg, Dean, DMS SKIT, also graced the occasion with their presence.

Various startups nurtured under the Entrepreneurship Development Cell, TOPAZ showcased their innovative startups to the new entrants. They were namely FLORENT, Adam & Eve's Salon, LCA (Lights. Camera. Action) and My THADI. The budding entrepreneurs were also shown the 'TOPAZ After Movie' which included the glimpses of the overall journey of The Entrepreneurship Development Cell since its very inception in 2008. Ms Maneesha Kaushik, Faculty Head, TOPAZ EDC, SKIT shared about various entrepreneurs who have taken India to greater heights. The ceremony was indeed a great success.



## STAGECRAFT: A PRE-PRAVAH EVENT

The annual fest of the institute has always been a celebrated moment for the entire SKIT family. This year, the Pravah 2017 team ignited the spark with an intra branch skit competition, Stagecraft. Teams from all the branches came up with creative short skits with themes of superstition, nationalism, humour, communalism etc. IT branch bagged the first prize while Mechanical branch came second. The event was organized under the supervision of Ms. Sanju Chaudhary, Senior Lecturer, C.S department.



## REPORT: 'AN EXPERT LECTURE ON UTILIZATION OF WASTE PLASTIC IN ROAD CONSTRUCTION'



The Student Chapter of Indian Concrete Institute at Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur successfully conducted an expert lecture on 'Utilization of Waste Plastic in Road Construction' on 14 September 2016 at J C Bose Seminar Hall. It was delivered by Dr. Rajan Choudhary, Associate Professor, IIT-Guwahati. The seminar was graced by the presence of Prof. L. N. Dutt (Head, CE), Prof. (Dr.) D. K. Sharma, Mr. Anirudh Mathur (Dy. Head, CE) and the faculty members of the department. The lecture was aimed to enlighten the students for utilization of industrial waste such as waste plastic for some specific use.

Dr. Rajan explained that rapid industrialization and large scale infrastructural development in India have resulted in huge scarcity of construction materials. Concerned about this, the researchers are looking for alternative materials for road construction. Various studies done till now have shown that waste tyre rubber, fly ash, slag, recycled concrete aggregates, waste plastic and waste glass can be effectively utilised as raw materials in flexible pavement construction. On the other hand, disposal issue of the municipal solid waste products is a big challenge. Open dumping, which is a common practice in India is adversely affecting environment and public health. He then told that laboratory studies have proved that waste plastic enhances the strength properties of the road mix. Hence more studies needs to be carried out so that we utilize this non-biodegradable waste for the use of the society. At the end, a vote of thanks was given by Mr. Anirudh Mathur in which he advised the students to prepare micro projects and enhance their learning capabilities.

## 6TH NATIONAL WORKSHOP

a two day workshop was organized on "Web Development-Spring MVC Approach" under the aegis of Computer Science &

Engineering department on 14th-15th October, 2016. The chief guests Mr. Kulvaibhav Kaushik (Technology Lead) & Ms. Preeti Panwar (Sr. System Engineer) from Infosys Limited graced the workshop. Around 100 students participated in the workshop. The first day started with the inaugural ceremony where Prof. (Dr.) S.K Calla, Director (D&W), SKIT welcomed the participants and gave a short introduction about the theme of the workshop. Prof. (Dr.) Anil Chaudhary, (HOD, IT), SKIT, briefed the audience about the workshop and the associated conference (NCETCE-2016).

The inaugural ceremony ended with a vote of thanks by Prof. M.L Bhargava, (Advisor), SKIT, wherein he mentioned the accomplishments of SKIT in coordination with Infosys since 2004. This was followed by a practical session in which the participants implemented their projects under the guidance of the guests. The program ended with the certification ceremony. The workshop was supported by its convenor Prof. (Dr.) C.M Chodhary (HOD, CS), SKIT & faculty coordinators Mr. M.K Beniwal (Reader), Mr. Pankaj Dadheech (Reader) & Mrs. Anjana Sangwan (Sr. Lecturer) from CSE department (NBA Accredited).

## INTERACTION WITH JAPANESE- CAPACITY DEVELOPMENT PROJECT FOR NON-REVENUE WATER (NRW) REDUCTION IN JAIPUR

The project aimed at the improvement of water supply services. The project activities were planned under the concept of capacity development (CD).

### PROJECT GOALS:

- To reduce the NRW ration in Jaipur

### PROJECT PURPOSE:

- To strengthen the capacity of PHED staff to reduce NRW in Jaipur

### TARGET AREA:

- Jaipur city, Rajasthan

### TARGET GROUP:

- Officers and staff of PHED (Public Health Engineering department) in Rajasthan.

### DURATION:

- September 2013- February 2017 (3.5 years)



Final year students of Civil Department with PHED and Japanese Engineers regarding their project at PHED office.



## SURVEY CAMP-2016



A survey camp which is a part of the curriculum was conducted for B.Tech V-semester) students from 14/10/2016 to 23/10/2016 at Chandwaji near Jaipur-Delhi (NH-8) highway. In the survey camp students learnt about the triangulation method. This year we added "Total station" as a centre point for the triangulation method. Students did triangulation survey of the area near Sevad Mata Temple in chandawaji. 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 was checked and a baseline was marked in front of the temple. The students worked with the odolites observing horizontal and vertical angles and calculating distances with the help of the trigonometrically formulae. A levelling exercise was also done with the help of the instrument auto-level. The students also performed a plan table exercise at a central station. At the end, the students were able to draw a triangulation map of the area surveyed. Apart from all the technical exercise, the students learnt team work, management skills and leadership skills.

## PROF. CVR MURTY'S VISIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur, witnessed an eventful day when Prof. C.V.R Murty, Director, IIT Jodhpur delivered an awe inspiring talk on the topic 'Expect the unexpected'. Prof Murthy spread the aura of value based life skills. The revered speaker started with the very basics of a students' life i.e., the questions that often meander in a student's mind. The thematic focus of his speech predominantly focused the questions of career and aspirations of the students' life. He highlighted the value of acquiring knowledge and sharing it with the younger generations.

For Prof. Murty, the first twenty years of one's career should be devoted to learning the nuances of technology, manpower and money and the next twenty years be devoted to helping others learn them. He ended his talk with the glorifying words, "Your success should be so big that nobody can hold the edge of it". At the end Director SKIT Sh. Jaipal Meel, honoured the revered guest with a shawl and memento.

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## ENGINEER'S DAY CELEBRATION-2016



In the memory of Sir Vishveshwarya, who is popularly known as the father of engineers, engineer's day was celebrated by the student chapter of Indian concrete institute at our college. Mr K.K. Sharma (SE, RDPRD) was appointed as the chief guest of the function. He discussed the important prospects related to civil engineering, the role and opportunities in the field and the wide scope available in various branches related to the subject. The chief guest was overwhelmed by the presentation by Mr. Anirudh Mathur and encouraged the students to work in the area of rural development and use of pre fabricated structures. The ceremony was concluded with the felicitation of the winners of report writing competition, Tejasva Mudgal and Sulekha Jagarwar (3rd year, civil ). The vote of thanks was given by Mr LN Dutt (HOD, civil dept.). Overall the event was quite productive and informative for the students.

## SHAHNAI RECITALS BY PT. DAYASHANKER

The Society for the Promotion of Indian Classical Music And Culture Amongst Youth (SPIC MACAY) is a voluntary youth movement which promotes intangible aspects of Indian cultural heritage by promoting Indian classical music, classical dance, folk music, yoga, meditation, crafts and other aspects of Indian culture. SKIT hosted yet another SPIC MACAY programme when Pt. Dayashanker of Banares Gharana visited the campus for his recitals on the Shahnai. He was accompanied by various other artists on the tabla and the sitar. Pt. Dayashanker also threw light on the origin and development of the instrument. Director Sh. Jaipal Meel and Director (Academics) Prof. S.L Surana thanked the artists and honoured them with tokens of reverence.





## EXPERT LECTURE BY DR. AMAR PATNAIK

Dr. Amar Patnaik, Assistant Professor, Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur visited our institute on 10th September, 2016 and delivered his expert lecture in the field of Material Science, especially composites and bio-materials. The program was held in Meghnad Seminar Hall. The Lecture was attended by the department's students and faculty members. Dr. Patnaik also explained the bio-materials used for the hip joint transplant.

## NATIONAL KART RACING CHAMPIONSHIP, 2016

A team of SAE-INDIA SKIT Collegiate Club participated in the National Kart Racing Championship held at Mohite's Racing Academy, Kolhapur (Maharashtra) from 29th September to 2nd October, 2016. In this competition, the participating teams bought Go-karts designed and fabricated by them in their respective colleges. A total of 200 teams from all over India participated in this competition which lasted for 4 days comprising technical inspection, design inspection and dynamic events etc.



The SKIT team designed and fabricated Go-kart under the guidance of Mr. Ashish Nayyar, Reader ME and Mr. Chandan Kumar, Lecturer, ME. Putting it on the race track, the team qualified all the tests and went on for the endurance race. Team got appreciation from judges and various industrialists for design and built quality of the Go-kart.

## PROF. G.R VERMA'S DISCOURSE

Prof. G.R Verma, Professor Emeritus, University of Rhode Island, Kingston, U.S visited SKIT on 28th September and interacted with students and faculty members. Prof. Verma has been an exemplary academican, recipient of several fellowships from the universities of repute. He has guided several PhDs, published a large number of research papers and has also had the honour of being a consultant at NASA. In his discourse he talked about laws of Newton he also laid emphasis on the importance of critical thinking and enjoying one's studies.

## WORLD PHARMACIST DAY

Swami Keshvanand Institute of Pharmacy celebrated World Pharmacist Day on 25/09/2016. Dr. Alok Khunteta, Registrar, Rajasthan Pharmacy Council, Jaipur was the chief guest for the



function. He discussed the scope of Pharmacy and the role of pharmacy in society. On this occasion several activities like free eye check up, health check-up, and talks related to health were organized. Dr. Umesh Khandelwal of Santokba Durlabhji Memorial Hospital gave lecture on different type of cancers and how a cancer can be cured, how it can be stopped from spreading & what precautions have to be kept.

## REVIEWER FOR CONFERENCE

Dr. N. K. Banthiya, Professor & Head of the Department of Mechanical Engineering has been invited by the Editorial Board of the Fourth International Conference on Transformations in Engineering Education: Hyderabad for reviewing the papers submitted for the Conference. He has reviewed a number of papers for this conference.

## TOASTMASTERS AREA LEVEL CONTEST

Toastmasters international conducted its area level humorous speech and speech evaluation contest in the month of September. SKIT being a prestigious member of the community also participated in both the contests. Pooja Diwedi of IV year, IT bagged the second prize in the speech evaluation contest and qualified for the division level competition.

## NSS ACTIVITIES AT THE CAMPUS

NSS club at SKIT works for setting the wave of awareness among its students. This year, the NSS club conducted a national level quizzing event Enigma at SKIT with Bits Mesra on 24 August 2016. On 8th of October 2016 the NSS volunteers presented a Nukkad Natak "Rakt Daan Maha Daan" to spread the message of blood donation.



## TECHNORION 2016

Robotics club, SKIT and ASME Student Section coordinated a nationwide Robotics Competition of IIT-Bombay. The event was 'Technorion' an IIT Bombay Zonal Techfest 2016 and was held on 2nd October, 2016. The title sponsor of the event was Drone Robotics Academy. It was a one day event which started at 8.00 am and ended at 8:00 pm at night. Rajeev Ratna Singh, Anand Kumar, Suraj Kumar, Sunil Kumar and a team of 30 students under the guidance of Faculty Coordinator Mr. Praveen Saraswat and Mr. Arun Beniwal organised the event. More than 500 students from all over the Northern India participated in the event.

The event was graced by the presence of Chief Patron Shri Raja Ram Meel, Director Shri Jaipal Meel, Director (Academics) Dr. S. L. Surana and Director D&W, Dr. S. K. Calla. Director (Academics) Dr. S. L. Surana and HOD Mechanical Engineering Department, Dr. N. K. Banthiya were also present at the closing ceremony of the event. Prizes and certificates were distributed to the winners as well as to the participants.

There were total three events: Mesh Flare, Galactic Trooper and Quantum Code. 170 Teams participated from Rajasthan, U.P., Haryana, Punjab, Haryana, Delhi and all over the northern India. Students of Robotics Club SKIT have shown an outstanding performance this year too. A team of four students of SKIT from 1st year became the winner of the event Galactic Trooper. The performance of the students in Quantum Code was also remarkable. The event was also the point of attraction for the school students. About 25 school students visited SKIT on the day and gained knowledge about robotics. Robotics Club Student Coordinator Rajeev Ratan also arranged an hour long interaction of the students with the other engineers. The winners of various activities are as follows.

Events	Teams Participated	Winners
Galactic Trooper	54	SKIT, Jaipur
Mesh Flair	51	Thapar University
Quantum Code	65	IIIT, Kota



## WORKSHOP ON 'ENHANCE YOUR EMPLOYABILITY SKILLS (EYES)'

A two day workshop on "Enhance your Employability Skills (EYES) Phase-1" was organized in the Department of Management Studies on 6th & 7th October 2016. On the first day there were sessions related to introduction, presentation and writing skills. The second day was followed by Aptitude tests. It was coordinated by Prof. Vikas Shrotriya and Dr Savita Choudhary.

## STUDENTS' ACHIEVEMENT IN NPTEL

Five students, Chirayu Jain, Jay Vyas, Kamal Kasana, Deepesh Agrawal and Sagar Khandelwal, all from III Semester, ME got scholarship (50% fee waiver) for appearing in NPTEL online examination. Two students from VII Semester ME, Peeyush Sharma and Prakash Kumar got certificates from NPTEL for their outstanding performance in the National certification examination by NPTEL for the course Manufacturing Processes.



## BLOOD DONATION CAMP AT SKIT

*"If you are a blood donor you are a hero to someone somewhere, who received your gracious gift of life."*

Swami Keshvanand Institute of Technology, Management and Grammothan conducted yet another successful blood donation camp on Saturday 8th of October in collaboration with the Lion's Club and Rotary Club, Bapu Nagar and the college's own Youth Red Cross Club with the help of Sawal Mansingh Hospital, SantKobaDurlabhji Memorial Hospital, Jaipuria Hospital and Swasthya Kalyan Blood Bank. The Chairman, Shri Surja Ram Meel celebrated his enthusiasm with the students and highlighted the value of regular blood donation. Director, Mr. Jaipal Meel threw light on the history of blood donation camps at SKIT and congratulated everyone for being a part of this noble cause. Dr S.S. Chauhan, Director, Raj Aids Control Society, acknowledged SKIT's participation for the noble cause and further detailed the history of blood donation, the myths and facts regarding blood donation and its benefits. The camp



was inaugurated by the divine lamp lighting. Mr A.K. Jain, M.D., REIL was invited as the chief guest of the event. He emphasised that blood donation is the greatest and noblest donation. He also cared to share the information that REIL also contributes to this cause and has set its target supply to a towering 90 lakhs this year. The day came to an end by an address by Dr S.K. Calla who heartily extended his gratitude to the doctors present, the hospitals, the Lion's Club, the Rotary Club Bapu Nagar and the Chief Guest, Dr A.K. Jain and Guest of Honour, Dr S.S. Chauhan.

## STUDENTS SELECTED FOR HIGHER STUDIES



Three students of Mechanical Engineering 2015 batch have secured admission to MS Programs in USA. Mr. Jain Devesh and Mr. Anuj Rath have joined the University of Michigan at Dearborn with scholarship of USD 3500 per semester and Mr. Uday Prem Prakash Mathur has joined the University of Washington at Seattle. Mr. Nikhil Swami of 2014 batch has joined MS in Engineering Management at George Washington University, Washington DC. Mr. Vidit Kataria of 2010 batch is pursuing an MBA program in the International Business at KEDGE Business School, France.

delivered a lecture on topic "Automotive Design and Reverse Engineering" for Mechanical Engineering students on September 9, 2016. In her lecture, Mrs. Ghag covered various aspects of Automotive Design, CAE, CAD, Reverse Engineering and Rapid Prototyping. The programme was very educative and beneficial for all students of Mechanical Engineering.

## VISHWAKARMA POOJA



On the occasion of Vishwakarma Jayanti, a 'Pooja' was organised at the new Mechanical Workshop on September 17, 2016. Director (Academics) Dr. S. L. Surana, Director D&W, Dr. S. K. Calla, HOD-ME, Dr. N. K. Banthiya, Dean DMS Prof S. P. Garg, faculty members, staff and students participated in the pooja. Prasad was distributed after the pooja.

## LECTURE ON AUTOMOTIVE DESIGN AND REVERSE ENGINEERING

Mrs. Namrata Gagah, Product Manager CAE Technologies, Mumbai



## ACHIEVEMENTS OF SKIT'S SPORTS TEAM

The SKIT Sports Club is one such college society where students of Swami Keshvanand Institute of Technology not only learn how to play games like Basketball, Football, Cricket, Volleyball, Badminton or Tennis, but they also learn qualities like team spirit, dedication, perseverance, and determination. These qualities not only make an individual a good sportsman but are also necessary to achieve success in every part of his/her life. Students have brought many laurels to the college and have also contributed in uplifting the dignity of the institution. Recently, the students represented the institute in various inter college tournaments that were held by the Rajasthan Technical University. Beginning with basketball, the junior Jordans of the college not only participated but also earned many laurels as the girl's team stood in the first position and the boy's team was declared the runners-up of the tournament. Lakshita Vishnoi (EE 3rd Year), Ayushi Garg (EE 4th Year), Abhilasha Chaudhary (ECE 3rd Year), Parnika Sharma (CE 1st Year) & Tripti Jain (CS 3rd Year) were the five girls from the team and Prashant Chaudhary (CE 3rd Year) & Kartikeya Tiwari (CS 1st Year) were the two boys from the team who were selected for the RTU west zone basketball tournaments. Around thirty students from the college participated in the inter college badminton tournament which was held at Shankara College, Jaipur. Beating everyone in the league, boys were declared clear winners in the tournament. For RTU west zone badminton tournament Yash Vijay (IT 3rd Year) & Ruchi (CS 3rd Year) got selected because of their outstanding performance at the college level. College teams also participated in inter-college football, table tennis and cricket tournament.

## HINDI PLAY: BAAP RE BAAP

After the successful and pleasant show of the play on road safety, 'Aropi Hazir Ho' last year, SKIT witnessed one more electrifying performance by the Rangsheersh Theatre Group. The group came up with a rib tickling comedy called 'Baap re Baap'. A satire in nature, the play showcased the degenerating relations within the family. The subtle witty remarks with acute humour kept the audience spell bound. Prof. Calla proposed the vote of thanks and congratulated the organizers for presenting such a wonderful show.



## BEAT DROP : THE INTRA-COLLEGIATE DANCE COMPETITION

With great enthusiasm once again BeatDrop proved to be one of the best shows in the college. The zeal of the students towards dance was visible through the outstanding performances. The lights, the music and especially the dancers created an incredible aura. Everyone was imbued with an upbeat atmosphere that the dancers had created. Dancing with their hearts out, Beatdemons stole the show by grabbing the first prize in the group category. Following their lead, Rhonthronz bagged the second prize. In the solo



performances, Aastha from 1st year performed a very thoughtful & informative act and got the First prize in the Solo category. On the second place was the Michael Jackson of 2nd year, Shreyansh.

## 6TH NATIONAL WORKSHOP ON ANDROID APPLICATIONS

Swami Keshvanand Institute of Technology, Management & Gramothan organised a workshop on "Android Applications" under the aegis of Computer Science & Engineering department on 1st October, 2016. The chief guests Mr. Kapil Manchanda & Mr. Anuj Sharma glorified the workshop. More than 200 students participated in the workshop. The workshop was supported by faculty coordinator Mrs. Anjana Sangwan (Sr. Lecturer).

## NEW LAWN TENNIS COURT AT SKIT

It is believed that in order to become a successful person one needs to do hard work, but to become a good sportsman one needs to do much more than hard work. The institute has added yet another landmark in creating a constructive infrastructure for the all-round development of its students by introducing a spacious lawn tennis court in the campus. Every student who wants to learn and practice is welcome to join the training.







## CONSERVATION OF WATER RESOURCES: A SESSION BY MR. RAJENDRA SINGH

'Passion is the seed that grows into dynamic changes'. This is the opinion of the social activist, Mr. Rajendra Singh, popularly known as the 'Waterman of India'. Mr. Singh is the proud recipient of Raman Magsaysay Award and Stockholm Water Award for his unparalleled contribution to water conservation. The event named 'Innovative Ways and Techniques for conservation of Water' was jointly organized by the Department of Civil Engineering, Department of Chemistry and Chatra Sansad Club of SKIT in the month of August.

Mr. Singh spread the word of realizing one's accountability for nature and inspired the audience to strive hard for the noble mission. Mr. shared the memories of his struggles and exhorted the value of unending endeavours. He also envisioned that if serious measures are not taken in this direction, the III world war may take place for water. The event ended with the felicitation of Mr. Singh by the Chairman SKIT.

## VISIT TO MARYLAND UNIVERSITY, COLLEGE PARK, USA

Dr. Meena, Associate Professor, Department of Chemistry, got an opportunity to visit the School of Public Policy, Maryland University, College Park, USA during 12th August 2016 to 19th August 2016. The University of Maryland, College Park is a public university that was founded in 1856. It has a total around 27000 UG students, 15000 PG students and 3000 faculties with a campus size of 1335 acres. The university has a great history including 3 Nobel Prize winners. There are more than 800 clubs & organizations in campus. School of Public policy is ranked among the top universities of USA. During her visit got to interact with eminent international figures/professors regarding sustainable development, international climate negotiations, climate target settings, energy technology transition in emerging economies and international climate policy. She met Prof. Anand Patwardhan who is member of steering committee of the programme of research on



## ANNUAL BOOK EXHIBITION AT THE CENTRAL LIBRARY

The Gyandan Resource Centre of SKIT organized the annual book exhibition for its students and faculty members. Many resourceful and prestigious publication houses partook in the event and displayed several books of myriad interests. Both faculty members and students showed great enthusiasm in acquiring books of their choice. The institute also availed this wonderful opportunity and added a plethora of new books to its significant collection.

Vulnerability, Mr. Nathan Hultman, the director of the Center for Global Sustainability and Associate Professor at University of Maryland, Ambassador Pradeep Kapur, who is clinical professor in school of public policy, University of Maryland and Mr. Doug Besharov who was the First Director of US national Centre of Child Abuse & Neglect (75-79), Administrator of White House Seminar on integrated services for Children and Families.

## MENTORING SKILLS FINISHING SCHOOL CERTIFICATION

Ms. Maneesha Kaushik (Dept. of MBA) has completed the Mentoring Skills Finishing School Certification conducted by National Entrepreneurship Network. The programme aimed at developing India's next generation of entrepreneurs and to train Faculties across India to Mentor Students, Alumni and Startups towards building and entrepreneurial India.



## PAPERS PRESENTED

DATE : 4-6 July, 2016  
VENUE : DTU, Delhi

- TITLE** : Myth and History in Contemporary Indian Novel: A Study of Shashi Tharoor's 'The Great Indian Novel'
- AUTHOR/S** : Dr. Nidhi Sharma
- CONFERENCE** : International Conference on Politics in Literature
- DATE** : 27-28 May, 2016
- VENUE** : BHU
- TITLE** : Resurrecting Subaltern History in Mahasweta Devi's 'Draupadi': A Mythical Study in Translation
- AUTHOR/S** : Dr. Nidhi Sharma
- CONFERENCE** : International Conference on Poetry and Literature
- DATE** : 14-15 October, 2016
- VENUE** : Mohanlal Sukhadia University, Udaipur
- TITLE** : Ecopreneurship : A Foray into the Green Aspects of Business
- AUTHOR/S** : Dr. Krishna Dayal Sharma
- CONFERENCE** : National Conference on Strengthening Indian Economy and Business
- DATE** : 18th November, 2016
- VENUE** : SKIT, Jaipur
- TITLE** : Elegant Entrepreneurship: Opportunities & Challenges Faced By Women In Business
- AUTHOR/S** : Dr. Nidhi Sharma
- CONFERENCE** : National Conference on Strengthening Indian Economy and Business
- DATE** : 18th November, 2016
- VENUE** : SKIT, Jaipur
- TITLE** : Performance and Emission Characteristics of VCR Diesel Engine Fuelled by Diesel-Additives Blend
- AUTHOR/S** : Chandan Kumar and Ashish Nayyar
- CONFERENCE** : Renewable Energy Sources and Sustainable Development: Opportunities and Challenge
- DATE** : 7 October, 2016
- VENUE** : Dept. of ME, JECRC, Jaipur
- TITLE** : Transient Stability Enhancement of Rajasthan Power System Using SVC
- AUTHOR/S** : Nutan Paliwal, M.P. Sharma, Sarfaraz Nawaz
- CONFERENCE** : IEEE International Conference on Power Electronics, Intelligent Control Energy systems
- DATE** : 4-6 July, 2016
- VENUE** : DTU, Delhi
- TITLE** : An Efficient Approach for Optimal Placement of DG unit in Radial Distribution System
- AUTHOR/S** : Preeti, Sarfaraz Nawaz, and Ankush Tandon
- CONFERENCE** : IEEE International Conference on Power Electronics, Intelligent Control & Energy systems

## PAPERS PUBLISHED

- TITLE** : On a Mathematical Model Involving I - function for Studying the Effect of Environmental Pollution
- AUTHOR/S** : Amber Srivastava & Rohit Mukherjee
- JOURNAL** : Proceedings of the National Academy of Sciences, India Section A: Physical Sciences, Springer, November, 2016.
- TITLE** : Enhanced Phase Sensitivity in Plasmonic Refractive Index Sensor based on Slow Light
- AUTHOR/S** : Rukhsar Zafar, M. Salim
- JOURNAL** : IEEE Photonics Technology Letters, Volume: 28 Issue: 20
- TITLE** : An Antenna Array of Coplanar Monopole Antenna for RF Energy Harvesting Application
- AUTHOR/S** : Monika Mathur, Ankit Agarwal, Ghanshyam Singh, S.K Bhatnagar
- JOURNAL** : International Conference on Advances in Information Communication Technology & Computing by ACM journal
- TITLE** : A Planer 2G/3G/LTE/WWAN/WiMAX Antenna for Tablet Computer
- AUTHOR/S** : Akshay Pratap Singh, Ankit Agarwal
- JOURNAL** : IEEE International conference on Reliability, Infocom Technologies & Optimization (ICRITO 2016)
- TITLE** : Neural Network Design by Taguchi Method
- AUTHOR/S** : Akash Saxena, Deepak Saini & Shalini Shekhawat
- JOURNAL** : SKIT Research Journal, An International Journal of Engineering, Science, Humanities & Management, Vol.6 no.2, pp 15-21, Oct. 2016.
- TITLE** : Case study of NH- From Gotiya to Salasar, Rajasthan
- AUTHOR/S** : Prof. D.K.Sharma & Neha Shrivastava
- JOURNAL** : SKIT Research Journal Vol.6 no.2, October 2016
- TITLE** : C3-Dimensional Virtual Modelling of Human Femur Bone with Prosthetic Plate and Screws
- AUTHOR/S** : Ajay Dhanopia, Sr. Lecturer-ME
- JOURNAL** : International Journal of Advanced Engineering, Management and Science (IAEMS), Vol. 2, Issue- 9, September, 2016.
- TITLE** : Selection of Suitable Biomaterial for Prosthetic-Plate using Multi Criteria Decision Analysis
- AUTHOR/S** : Ajay Dhanopia, Sr. Lecturer-ME
- JOURNAL** : International Journal of Advanced Engineering, Management and Science (IAEMS), Vol. 2, Issue- 9, September, 2016.



**TITLE** : Finite Element Analysis of Human Fractured Femur Bone Implant with Prosthetic Plate&Screws  
**AUTHOR/S** : Ajay Dhanopia, Sr. Lecturer-ME  
**JOURNAL** : Elsevier Procedia Engineering, Implast, Oct., 2016

**TITLE** : Multi Response Optimization of Turning Parameters using Grey Relational Analysis in the Taguchi Methodology  
**AUTHOR/S** : Mr. Sunil Kumar, Mr. Chandramohan Kumar, Mr. Suman Anand, Lecturer-ME  
**JOURNAL** : International Journal of Science, Technology & Engineering (IJSTE), Vol. 3, Issue 3, Oct., 2016

**TITLE** : Analysing the Process Capability for an Auto Manual Transmission Base Plate Manufacturing  
**AUTHOR/S** : Mr. Manoj Kumar Sain, Reader-ME, Mr. Manish Yadav, M. Tech. Student  
**JOURNAL** : International Journal of Managing Value and Supply Chains, Vol. 7, No. 3, September 2016

**TITLE** : Sesum Indicum Oil as a Potential Inhibitor for the Corrosion of Copper in Acidic Environment  
**AUTHOR/S** : Dr Anurag Sharma, Dr. Anil Kumar Varshney, Dr. Sarita Varshney  
**JOURNAL** : Oriental Journal of Chemistry Vol.-32, No(5), 2016.

**TITLE** : Anjana Appachan's Bahu: A 'New' Bahu  
**AUTHOR/S** : Dr. Krishna Dayal Sharma  
**JOURNAL** : SKIT Research Journal, An International Journal of Engineering, Science, Humanities & Management, Vol.6 no.2, pp 15-21, October 2016.

## CONFERENCES/ SEMINARS/ WORKSHOPS/FDPS ATTENDED

**TITLE** : FDP on Digital CMOS Devices and Circuits,  
**ATTENDED BY** : P. K. Jain, Pooja Choudhary, Nivedita Chauhan, and Vikas Pathak  
**CONFERENCE** : DIETY, organized by E & ICT Academy  
**DATE** : Sept 17-21, 2016  
**VENUE** : MNIT Jaipur

**TITLE** : FDP on Digital Hardware Design & FPGA Implementation  
**ATTENDED BY** : Pooja Choudhary, Manju Choudhary, Nivedita Chauhan, Swati Arora, Mamta Jain, Vikas Pathak, Shubhi Jain  
**CONFERENCE** : DIETY, organized by E & ICT Academy MNIT Jaipur

**DATE** : Sept 3-16, 2016  
**VENUE** : MNIT Jaipur

**TITLE** : R.K Memorial Lecture on 'Revisiting Sita' by Prof. Malashree Lal  
**ATTENDED BY** : I.B Abrol and Dr. Nidhi Sharma  
**CONFERENCE** : R.K Memorial Lecture  
**DATE** : 10 Sept, 2016  
**VENUE** : University of Rajasthan

**TITLE** : Cracking the myths & realities of green buildings  
**ATTENDED BY** : Mr. Jitendra Babulal Jangid  
**CONFERENCE** : Indian Green Building Council & CII

**TITLE** : National conference on Smart & Green Liveable Cities.  
**ATTENDED BY** : Mr. Ankit Sharma  
**VENUE** : Dept of Local Self Government, Jaipur

**TITLE** : Fast-Tracking Road Safety Initiative in Rajasthan  
**ATTENDED BY** : Mr. Anirudh Mathur, Mr. Nishant Sachdeva  
**CONFERENCE** : International road federation & Muskan NGO

**TITLE** : Smart and Green Liveable Cities and 7th Infra Conclave Rajasthan  
**ATTENDED BY** : Yogesh Sharma, Lecturer-ME  
**CONFERENCE** : CII, Rajasthan and Government of Rajasthan  
**DATE** : September 02, 2016  
**VENUE** : SMS Auditorium, Jaipur

## M. TECH. COMPLETED

### DEPARTMENT OF MECHANICAL ENGINEERING (THERMAL ENGINEERING)

**CANDIDATE** : Nitin Goyal  
**DISSERTATION TOPIC** : Experimental Investigation of the Performance Emission of Diesel Engine fuelled with n-Butanol Diesel Blends

**GUIDED BY** : Mr. Ashish Nayyar

**CANDIDATE** : Mr. Thakor Keyur  
**DISSERTATION TOPIC** : Effect of Various Absorbing Materials on Performance of Single Basin Single Slope Solar Still

**GUIDED BY** : Mr. Ashish Nayyar and Mr. Manoj Kumar Sain

### DEPARTMENT OF ELECTRICAL ENGINEERING (POWER SYSTEM)

**CANDIDATE** : Ms. Nikita Mittal  
**DISSERTATION TOPIC** : Application of Neural Network and Statistical Methods for Short Term Electricity Load Forecasting

**GUIDED BY** : Dr. Akash Saxena

### DEPARTMENT OF COMPUTER SCIENCE

**CANDIDATE** : Ms. Priyanka Sharma (Ass. Prof., CS, SKIT)  
**DISSERTATION TOPIC** : Efficient Density Based Clustering Using Automatic Parameter Determination Approach

### DEPARTMENT OF ELECTRONICS ENGINEERING

**CANDIDATE** : Sashikant Ray  
**GUIDED BY** : Ms. Kiran Rath and Mr. Ankit Agarwal

**CANDIDATE** : Ranjana Kumawat  
**GUIDED BY** : Ms. Kiran Rath

**CANDIDATE** : Surbhi Yadav  
**GUIDED BY** : Mr. J. P. Vijay



# COVER STORY



## eYantra

Embedded Systems &  
Robotics Lab

(Supported by e-Yantra Lab Setup Initiative  
(eLSI)-IIT Bombay)



## e-YANTRA LABORATORY SETUP

e-Yantra is an initiative by IIT Bombay that aims to create the next generation of embedded systems and robotic engineers with a practical outlook in order to help and provide practical solutions to some of the real world problems. This initiative is sponsored by MHRD under the National Mission on Education through ICT program.

### THE JOURNEY SO FAR

Our journey of e-yantra started with signing the Letter of Intent (LOI) with IIT Bombay. After signing the LOI, a team of four faculty members, Mr. Praveen Saraswat and Mr. Manoj Kumar Sain from ME Department, Mr. Pallav Rawal and Ms. Vinita Agarwal from ECE Department attended a workshop on the introduction to robotics at MGM'S College of Engineering, Noida organized by IIT Bombay in February, 2016. After that workshop, an online Task Based Training program was completed during March to June 2016. SKIT Team was ranked in the top category after completing all given tasks within the allotted time. Team members were awarded with certificates and cash prize of Rupees 1500 each.

### THE FUTURE

After training, we have setup the e-yantra Embedded System and

Robotics laboratory in CAM Robotics Laboratory of Mechanical Engineering Department by purchasing the equipment recommended by IIT Bombay. This laboratory will be helpful to students of all branches who want to learn basics of robotics and its programming. Students can use the robotic kits available here for their practice and training. This laboratory will work under the robotics club in collaboration with the embedded club.

The official inauguration of e-yantra Embedded System and Robotics Laboratory and valedictory of Task Based Training was held on 8th September, 2016 in Meghnad Saha Seminar Hall, Vishvakarma Block. The inauguration and valedictory program was organised by e-yantra team of IIT Bombay through video conferencing. Laboratories of four more colleges from different parts of country were also inaugurated. SKIT is the only institute in Rajasthan where this kind of laboratory has been started. Dr. S. L. Surana, Director (Academics), Dr. S. K. Calla (Director, D & W), Dr. N. K. Banthiya, HOD-ME, Dr. S. K. Bhatnagar, HOD-ECE, Prof. M. L. Bhargava, Advisor, Dr. S. N. Vijayvergiya, Dean Research faculty members and students from different departments were present during this session.

Manoj Sain, Senior Lecturer, Dept. of ME



# TECH-KNACK

## NAVIC: INDIAN NAVIGATION SYSTEM

It's time to celebrate as India has made its way to its own navigation system - Indian Regional Navigation Satellite System or IRNSS with an operational name of NAVIC (Navi or Navigator), a name dedicated to India's mariners and fishermen who have been navigating for hundreds of years by using the sun and stars as waypoints. With this achievement, India has become the fifth country in the world to have a GPS system of its own & now we don't need to rely on the American Global Positioning System (GPS).

IRNSS is an initiative taken by Indian Space Research Organisation (ISRO) for providing an accurate position, velocity and time to the Indian users. The requirement of IRNSS was driven by the inaccessibility of the Indian military to a foreign government controlled global navigation satellite systems during the Kargil War.

NAVIC ensures two services, the first is the Standard Positioning Service for the civilian use, and the second is Restricted Service for authorized users such as military.

IRNSS, consisting of seven constellation satellites, is supposed to be more accurate than the American GPS system as an additional hardware has been recommended by ISRO which can receive S-Band signals from IRNSS satellites and a code is also to be included in the phone software to receive L-Band signals. Both these L and S-band signals received from seven satellite constellation of the IRNSS will be calculated by special embedded software which can significantly reduce the errors caused by atmospheric disturbances.

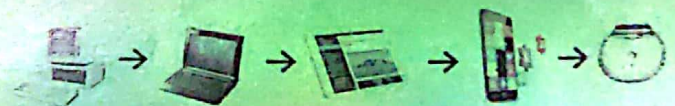
This success story began with the launching of the 1st satellite in July 2013 and finally the seventh satellite was launched in April 2016. Presently ISRO's mission is to tune and synchronize all seven satellites with the ground control center after which the GPS system will be declared open for manufacturers and developers to work on.

Priyanka Gupta, Senior Lecturer, Dept. of CE



## COMPUTER WILL INVENT THE INVENTOR

Nothing exemplifies the post modern era better than the computer. For better or worse, computers have infiltrated every domain of our society. Today computing devices do much more than simply compute. Studies illustrate that children who play computer games can boost their visual intelligence skills that may provide them with training wheels for computer literacy. The computer is most likely one of the great high-tech triggers for an upcoming change. In a short period since its invention, its impact on our lives has been acknowledged in a variety of ways. From the work place to the home, it is rapidly becoming a necessary tool. For years, our personal computers comprised monitors, keyboards & a bulky beige box. Then laptops materialized & changed kit and caboodle until a small, flat plate of glass encased in metal, designated as iPhone showed up, which was followed shortly by an even larger plate of glass called the iPad that modernized things even more. Today, we once again face major shifts in computing with the coming of virtual reality, perceptual computing, Microsoft bands, data tags, flexible displays, intel's wireless future, wall computing & a lot more.



Priyanka Sharma, Lecturer, Dept. of CSE

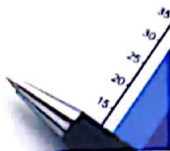
## FDI

Broadly, foreign direct investment includes "mergers and acquisitions, building new facilities, reinvesting profits earned from overseas operations and intra company loans". In a narrow sense, foreign direct investment refers just to building new facility, a lasting management interest (10 percent or more of voting stock) in an enterprise operating in an economy other than that of the investor. FDI is the sum of equity capital, other long-term capital, and short-term capital are: shown the balance of payments. FDI usually involves participation in management, joint-venture, transfer of technology and expertise. Stock of FDI is the net (i.e., inward FDI minus outward FDI) cumulative FDI for any given period. Direct investment excludes investment through purchase of shares. FDI is one example of international factor movements. A foreign direct investment (FDI) is a controlling ownership in a business enterprise in one country by an entity based in another country. Foreign direct investment is distinguished from foreign

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# Foreign Direct Investment FDI



portfolio investment, a passive investment in the securities of another country such as public stocks and bonds, by the element of "control". According to the Financial Times, "Standard definitions of control use the internationally agreed 10 percent threshold of voting shares, but this is a grey area as often a smaller block of shares will give control in widely held companies. Moreover, control of technology, management, even crucial inputs can confer de facto control."

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**Shashank Vashistha**, Dept. of DMS

## PROGRAMMABLE MATTER : THE MATTER WITH THE MIND OF ITS OWN

With computing getting cheaper and faster, and machines becoming smarter and easily procurable, we find better ways to integrate computing with other sectors to establish a more efficient system overall. YES, we can design parts on our own on a CAD (Computer Aided Design) software and then actually create a physical replica of the model using computer guided tools. But it does not stop here! While working on it further, it was found that the genetic data present in each living cell gives the cell all the information required to form an entire living organism, forming entirely different parts using similar building blocks. So here we program molecules of matter in a similar way to change its properties according to what we require out of it and call it the programmable matter.

The Programmable matter is a form of digital matter or 'smart matter' which has got the ability to carry out functions like sensing, computation and actuation, allowing it to change its properties dynamics. One block of the programmable matter would contain thousands of tiny microbots which would interact with each other to function as a unit entity. The credentials that this concept could achieve are quite limitless and could help attain a stage of maturity in this age of semiconductors that we are in today. The programmable matter required may not necessarily be in solid state, rather, it can even be liquid; which can respond to code, like ferromagnetic non Newtonian fluids or even solid programmable matter mixed in viscous fluids to be used as a spray on smart mixture. A way to give this a shot is by programming the individual units with the computational capability so that they can compute their own change and implement it on their own. The commands can be pre-fed into them or can be taken dynamically. Furthermore to determine the size, the matter should have a power source, processing capability, communications modules, sensing and actuation etc. All this fitting into one tiny object depends on the

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sizes of the individual elements and are therefore differentiated from the centimeter scale to the micrometer and nanometer scales. It is a philosophy that a determination among today's researchers to make their creations more intelligent, more obedient, and more sensitive, imbuing them with qualities will eventually make them act almost like living things-like matter with a mind of its own.

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**Punita Tiwari**, II B.Tech., Dept. of IT

## TECHNO-STRESS

The impact of technology on our environment is becoming increasingly significant. During the past decade, technology has invaded our homes, schools, our grocery stores, our movie theatres and literally, every corner of our lives. Every innovation, from cell phones to e-mails, from faxes to websites, from Facebook to chatrooms, demand new skills, speedier reactions that are to be accessible to all 24 hours a day. Undoubtedly, these technological aids have contributed enormously to the productivity and economic development and have made our tasks simpler but they have also introduced new sources of stress and health hazards. So, what can we do to avoid falling prey to the nightmare of hacking or entering into a spiral of threats and demands from the online predator? Take preventive measures and combat electronic crimes by loading a formal complaint with the police. A few basic guidelines and health hazards are given below:

1. Do not expose personal details either on the mobile or on Facebook by which you can be threatened to defamation.
2. Do not get lured into giving your e-mail address and passwords in the hope of controlling your friends' web cams or other such temptations.
3. Facebook is an excellent tool to keep in touch with old friends but it makes you accountable and transparent. People have lost jobs due to photographs posted on Facebook showing they were on a holiday during the 'medical leave'.
4. Beware of websites which offer a "unique spraying system".
5. It is immoral to give the personal information about a friend's consent and approval.
6. Research has shown that microwave and electromagnetic radiation from mobile phones is harmful for both growth and brain development. The mobile has been in use for the past 15 years, not long enough to know its potential harmful effects.
7. Avoid use of mobile phones at home. Take only essential calls and should be away from bed.
8. Switch off the phone if you are using the mobile as an alarm clock to wake you up in the morning.

Technology may be a boost to self-esteem and confidence in peer groups but activities such as sports and arts are more fulfilling and enriching. External things such as iPod or laptops cannot make you feel good and comfortable about you from within.

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**Pragya Sharma**, I B.Tech., Dept. of EC



# CAREER CALLING

## WRITING A GREAT RESUME!

This is an effort to help career starters and young aspirants make a good resume. It is therefore, attempted that this article be more practical than theoretical in nature. Broadly, while writing a resume, the principles of good writing would normally apply. They are Accuracy, Brevity, Clarity and Logical layout (ABCL). Before writing a resume, one has to also clearly understand the purpose for which the resume is being written. A resume is mostly written seeking job/employment but the important part is understanding the job profile and required/desired associated skills. Hence, it becomes important to model one's resume accordingly. It should not come as a surprise that one might have to prepare multiple resumes catering to specific needs. For example, one may like to have a separate resume highlighting operational and executive skills while applying for an operational role and a completely different one while applying for a leadership position that would normally require one to highlight leadership skills. As such, the relevance of the points highlighted in one's resume becomes important.

The next important part to be kept in mind while preparing a resume is the basic layout. And here are some points:

- It is a lot of sense having fewer headings and more points under each heading rather than vice versa
- Ensure that the look and feel of the resume is artistic and pleasing to the eye
- Occupy space equally on all sides or conversely leave equal margins on all sides of the page, so that the writing in the middle looks symmetrical.
- Use a good legible font such as Times New Roman, Calibri or Arial.
- Use a font size no smaller than 9.5 and no larger than 12. The human brain finds it difficult to read a text with font sizes outside this range and definitely finds it very difficult to retain such material.
- Left alignment in writing again enhances retention and should be used in resume writing.
- The heading for the resume is your name and not "resume" or "CV" or something of the kind.
- Remember to append your contact details right below the name, as that is where most HR managers are hard wired to look for your contact details.
- Use sentences with action words such as "Organized", "Undertook", "Attended", "Led", etc.

A typical college going students' resume would have a few well-articulated sub headings covering various aspects of their life thus far, including the time spent at the college. Some of these headings, with how one could cover them, are as under:

- **Career Objective:** This should typically start with the word "To" and be crisp, yet clearly conveying what the person wishes to achieve in life generally. As a benchmark, it should be a simple sentence that is easy to read and comprehend, not using more than one and a half written lines in the resume and be simple enough for anyone to understand. While writing this down, do make sure that

the final words are written in one's own language even though one may have taken the help of Google to spot some great objectives. A simple way to find out if your objective makes sense is to have someone else read it & convey to you what that person thinks you intend to convey. If that matches your intent, keep it, else rework till you get to something that is great.

- **Work Experience:** It will be difficult for college going students to qualify anything as work experience. But should you have worked anywhere substantially for more than 6 months, it may be highlighted under this heading. It would also be nice to talk a bit in detail about the job profile, skills acquired & used at the workplace. Outcomes or goals achieved must be quantified as far as possible in terms of numbers.

- **Educational Qualifications:** This will be the second heading for most students. The idea is to follow the reverse chronological order while writing this down - most recent comes first. Avoid using tables because tables have the ability to cage you. A much better way to use the paragraph form of writing. It just about allows you to be creative where you want. One must find ways of highlighting one's good academic performance. If one has achieved good marks in individual subjects, mention it. If your PCM aggregate is better than the overall aggregate, mention that. The idea is to build a good impression and a paragraph form of writing down with use of bullets will allow one to do just that. One must follow uniform convention in doing so though. If one is great at a particular subject, can be highlighted in this section.

- **Technical Skills/Summer Trainings/Projects:** This section must be devoted to talking about everything related to technical aspects of one's life. One must talk about various skills acquired setting the expectations right regarding the proficiency level in them. While talking about the trainings undergone and projects undertaken, care should be taken to detail them briefly. A good way is to highlight the problem that you solved using certain technical skills. If possible, the outcome must also be clearly mentioned.

- **Extracurricular/Research/Hobbies/Interests/Awards/Others:** This could typically be the last section in one's resume. All other aspects that are not covered above can be covered under this one heading. One should freely talk about achievements even if one does not have the requisite certificates to show for them. However, please be truthful as some simple cross-questioning in the interview rounds can reveal the truth.

Mentioning personal details such as date of birth, marital status, father's name, etc. can be completely avoided. It is also believed that all you mention in your resume is nothing but the truth and hence, a declaration at the end confessing to the same may also be avoided. There are a number of resume formats available online and one could use those. However, care should be taken to ensure brevity and a clear layout of information. As a closing note, a resume creates the first impression on a prospective employer. One should use one's creativity and ingenuity to make it stand out of the crowd. A resume could, therefore, be used by a candidate as a differentiator in the hiring process.

Prof. Harminder Singh Multani, Joint Director, CDC, SKIT

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# TRANSFORMING STUDENTS FROM MINDLESS MEMORIZATION TO CONCEPTUAL UNDERSTANDING: A PATH BEYOND TRADITIONAL LEARNING

How well traditional instructions do at

As an instructor I think that Cognitive load has important implications for both classroom teaching and technical talks. To maximize learning, instructors must

Factual knowledge and an organizational structure is the prime goal of education. To move a student toward expert competence, the instructor must focus on the development of the student's mental organizational structure by addressing "why" and not just the "what" of the subject. These mental structures are a new element of student thinking. Expert competence is likely to develop these mental structures only if the student is actively thinking and the instructor can





suitably monitor and guide that thinking.

Teaching practices influence student's beliefs, usually by making them more novice-like. Recasting home work and exam problems into a form in which the answer is of some utility rather than an abstract number; making reasoning sense-making, and reflecting explicit parts of in-class activities, home work and exams.

Immediate response in learning can have a profound impact on the students' educational experience. It provides a way to get an answer quickly for which the student is accountable, and that answer is anonymous to the student's peers and it also provides some measures of what students are thinking, it is the specifics of the implementation - the change in the class room dynamics, the question posed, and how they are followed up determine the learning experience. This specifies need to be guided by an understanding of how people learn. Instructors must also make sure about how and why of the understanding of the content.

It is important to actively encourage students to talk to each other about the questions. We do this, sometimes after they have answered individually, by requiring our groups to come to a consensus answer. Those peer discussions are the times when most students are doing the primary processing of new ideas and problem-solving approaches. Critiquing each other's idea to arrive

at a consensus answer enormously improves their ability to carry on scientific discourse. Finally, the discussion helps them to learn to evaluate and test their own understanding. Experts have to ability to monitor and test their own thinking on an ongoing basis by asking questions like "Does this make sense?" And "How can I test this?" However, it is very difficult for students to learn this skill without some amount of social interaction and feedback.

A real life demonstration or lab includes enormous amounts of peripheral information that the expert filters out without even thinking about it. The student has not learned what can be filtered out, and so all this other information produces confusion and a much heavier cognitive load. The student's attention is often on things the instructor doesn't even notice, because they are irrelevant. So instructor must be careful about this cognitive load and filter the information to the students. The function of teaching is to guide the student along the path that leads safely and effectively across the canyon to the nirvana of expert like thinking. Guidance that ignores the student's starting point or that is interpreted differently than intended usually, just sends the student over a cliff. But education research, careful measurement, and new technology can make it possible to guide most students safely along the path toward a true understanding.

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**Pawan Kumar**, Lecturer, Dept. of Physics

## PROCRASTINATION: THE REAL VILLAIN IN TIME MANAGEMENT

Are you always short of time? Do you wish you had more than 24 hours in a day? Well, if you make a list of things which lead to your poor time management, you will find a monster in it called procrastination.

Procrastination has become one of the biggest challenges for professionals and individuals alike in managing time. The word procrastination is a Latin word, "pro" meaning "in favour of" and "Cras" meaning "tomorrow". It can therefore be defined as "The act or the habit of delaying or putting things off." No doubt, it is a one way ticket of stress, guilt and overwhelm. It is the avoidance of doing a task or objective which needs to be accomplished. Procrastination can also take away the time you need for sleep, exercise, relaxation, family, relationships, and other elements that contribute to life-balance.

Procrastination is a problem for us, it is important that we exercise tools to handle our procrastination. Procrastination occurs when we are faced with too many decisions and are unable to complete matters of importance. Brian Tracy talks about several ways to stop procrastination. He says, our "frog" is our biggest, and "most important task", the one we are most likely to procrastinate on if



we don't do something about it. "It might be the task that can have the greatest positive impact on our life and results". He suggests in his book that if we complete the task that is most annoying first, the rest of the tasks get easier.

To have a good chance of conquering procrastination, you need to spot it straight away, that you're doing it and take appropriate steps to overcome the block. Some steps to avoid procrastination are: Have a plan, Find motivation, Make it easy to get started, Identify your procrastination tendencies and your excuses. Learn to say "NO" when distractions arise and Be patient.

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**Appali Mathur**, Dept. of DMS



## SUMMER SPRING - A NEW INCEPTION

Every morning, I woke up trying to overcome the shackles of murk. Awakening myself to this harsh real world, trying to retrospect and finding answers to my mistakes. I searched for inspiration in the farthest corners of the universe but never bothered to look for it in my nearest nooks. Then one revitalized morning, I woke up to realize that I had answers around me and my answer was in one of the season of the nature's cycle.

Life after all isn't so unappetizingly flavourless. Nature, itself is a great teacher but only for those who have senses to perceive it. Do you know the reason why suicidal statistics are marginally increasing in India? Why few refusals, break-ups, rejections, break-downs are taking us into an elevated state of unconsciousness? This is because we are so much into various materialistic possessions, baseless needs and wants, that our intangible connections with nature are lost. We are unable to comprehend what great lessons our mother nature wants to teach us. Summer spring, season of flowers dancing in the vernal wind, brings in the essence of rejuvenation and rebirth. Swarm of bees rushing at flowers, humming around the blooming petals and opening buds, indicating the festivity of life. Wind carrying the music of soil, new tender leaves springing up on branches denoting energy-the vivid passionate pulse of life. Moving brooks, trees swaying with the breeze unperturbed by the mood of wind, teaching us to move forward no matter how hard destiny holds upon. The relenting rains quenching the thirst of parched earth satisfying the idea of new inception.

The horizon of our minds are often covered with obstacles and resentments. It sometimes becomes very difficult to fight with our own shadow. Nature around us is a magic show, emphasizing to celebrate the festivity of life. Starting with the season of revival and rebirth, the spring, the summer, season of joy and vivacity, unfolding the season of abundance and prosperity, the autumn and finally the winter, cold with gusts of tumbling snow, indicating the time of serene and calm retirement. So whenever you feel dejected, desolated or broken, just look out of your window, move on to the next phase and pave your path to the golden ring.

**Shubham Kothari, IV B.Tech., Dept. of ME**

### AND I THANKED THE SUN

The summer again of dust and salt,  
With birds chirping still in hot air.  
Every drop of water, leaking on the parched floor,  
It tastes as heaven for these nature's engines, and even much more!!  
And the warmth has removed my scars,  
It made me so high, to reach out of everything.  
Cause the warmth of the light, has removed my scars,  
And I thanked the sun, sun, sun, sun  
And I thanked the sun, sun, sun, sun.  
The daffodils have blossomed high,  
The light is up and it woke up the human race  
When it peeps in, I regained the birth  
Everything is lighten up, up, up  
And I got the love, which I sought up.  
It made me reach out to everything,  
Cause the warmth of the light, has removed my scars.  
And I thanked sun, sun, sun, sun  
And I thanked the sun, sun, sun, sun

**Karan Bari, III B.Tech., Dept. of EE**

### LINES OF LIFE

Blessed you are, to have me as a companion,  
You are the one, whom I will never abandon.  
Live me with complete bliss and dedication,  
And I will fulfill your dreams of fascination  
Try to dump me like a lump of waste,  
Or dare spoil my real taste,  
I will rip you apart in complete haste,  
For I am your LIFE, the harbinger of the aftertaste.  
I am the best teacher if you wish to learn,  
Do not get scared if I ever become stern.  
To become the best, you will have to burn,  
Once you start your quest and I'll never let you turn.  
Setting examples is my best trait,  
I've destroyed those who relied on their fate.  
Never feel low if I ever dictate,  
For I am your LIFE, the harbinger of the aftertaste.

**Kunal Advani, I B.Tech., Dept. of ME**



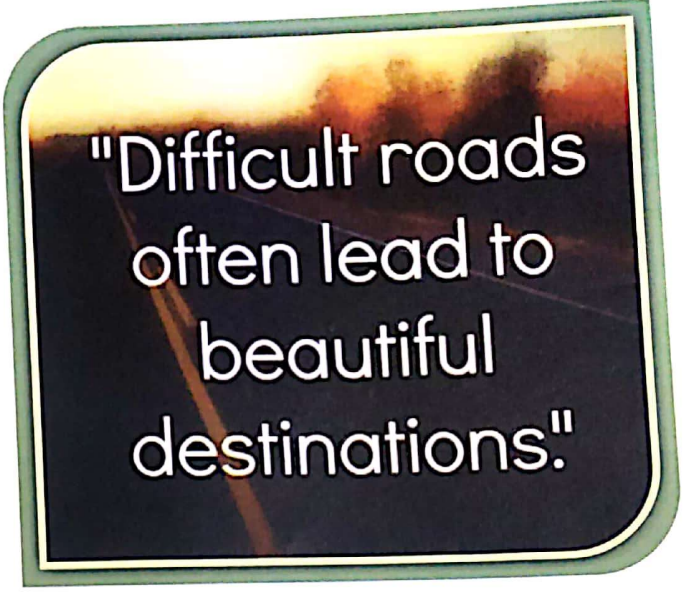
## LIFE: A RISK OR A LESSON

Life is only one and it is unique. Life is offered as a gift but it has a great attachment with risk. A risk results in devastation or development, i.e. sadness or happiness. I compare risk to hardwork, desires and view of life, though it can be compared with some other rules too. We have so many desires in our life and think for the same but the reality is different. We always ask God to fulfill our desires, but I believe that we should always ask God to give what we deserve, not what we desire, because our desires may be few but we deserve a lot. Life has many things like our behavior, respect and beauty etc. And I would like to tag a thing here that good behaviour can cover the lack of beauty, but beauty can never cover the lack of good behavior. Life flows like a river with unexpected turns. It may be good, may be bad, but remember one thing that these turns never return. We have many circumstances in our life. Some provide a joy while some sadden us. It is strange but true. Generally, we believe our memory is weak but when we want to forget someone a lot, we begin to realize how powerful our memory is. And in life we must be very gentle and kind towards ourselves and others. Let me better help you understand this thing with citing an example:

One day the sea asked a river, 'How long will you keep entering into my salty heart?' The river replied, 'Until you become sweet'.

So likewise, we have to (or we may) fall into the sea, i.e. live among rude and angry people. But, we must have the thought of the river throughout our life. Good behavior, kindness and gentleness lead to good relationships. But today, relationships are murdered by ego. Since Ego is the only requirement to destroy any relationship so we have to be a bigger person, skip the "E" and let it "go". And always have sweet memories and their remembrance. And photos are the best memories ever kept. I have read few lines as follows: A great author said, 'I love photos'. Someone asked, 'Why?' He replied because the best thing about the photo is that it never changes. Even people in it change.

If you expect anyone to be exactly of your kind then it is meaningless, because you cannot hold someone's right hand in your right hand if you want to walk together. Life will never go as you desire. In life, believe the sprouting ups and not the elders/experiences because they don't know the ways to mischief you, and if they do not stand up properly then there will be mistakes. But remember that mistakes are never bigger than things done intentionally. Always keep on doing something because actions may not always bring happiness, but there is no happiness without actions. Don't rely on others so easily because those who stand for nothing fall for everything. The world has now filled with negative thoughts and there is bad influence everywhere. So if you fall in bad influence then change your group because you can't control the winds, but you can adjust your sails.



"Difficult roads  
often lead to  
beautiful  
destinations."

Most important thing about life is that make each and every step in life carefully because life is like a pen, you can cross something, but you can never erase it.

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Vaibhav Vijay, II B.Tech., Dept. of CS

### MEMORIES

*They make me cry, they make me laugh  
And remind me of the bonds that were meant to last.  
Walking down those roads all over again,  
Living those priceless moments  
And wishing, things wouldn't have changed.  
Good or bad, cheerful or sad  
Those times were the best.  
And now we stand all alone  
Thinking, where are the rest??  
But this is life and life goes on.  
It waits for none, asking us to move on.  
Old threads will get replaced,  
But some still occupy a special place.  
While all these thoughts were making a noise  
I lay down and there came a voice,  
"The whole new world is waiting outside.  
What all happened, just keep it aside."  
The voice was strange but it taught something new.  
This is a game and it should be continued.  
People will go, relationships will perish,  
All I'll have are these memories to cherish.*

Prachi Keswani, I B.Tech., Dept. of IT



## IMBIBING SPIRITUAL KNOWLEDGE

The first step into experience, particularly the meditation experience, is knowledge. What does it mean to know? Knowing involves four steps which ultimately give the meditator the experience of realization:

The first step in the direction of knowing is information. With information, our intellect opens to new ideas and opinions.

The second step is knowledge, when we begin to reflect on the ideas that we have received. At this point, we often have to select only a few of the ideas we have heard, as it is not always possible to review all the information that is fed to us. In order to deepen our understanding, we reflect on the information and sometimes discuss our findings and thoughts with others.

The third step of knowing is when we move from thinking to doing, that is, from knowledge to wisdom. Wisdom is gained when we commit ourselves to doing. Knowledge translated into our everyday behaviour is called wisdom, which, in turn, is called quality life. A life of quality is where personal values are not only realised but also lived and experienced through our practical actions.

Doing, or practice, naturally brings us to the fourth and final step of knowing, which is called truth.

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**Archit Bohra**, II B.Tech., Dept. of CS

## INDEPENDENCE IS A MYTH

In August 2016, we will be celebrating our country's 66th Independence Day. But in reality, are we independent? Actually dependence and independence both are myths and reality is to be inter-dependent. Everything in our surrounding is inter-dependent on each other. We need oxygen to survive and plants need carbon dioxide to survive. At the same time, man and animals both are dependent on plants to have their food. We have studied in food cycle that every level of organisms depend upon each other for their survival.

But we don't want to understand these issues. Continuous deforestation is going on which results in the accumulation of carbon dioxide and further results in the rise of temperature. We are well aware of the fact that ozone is like a blanket to earth which protects us from harmful rays of the sun and allows only life rays. But, we have made holes in that blanket which results in the possibilities of suffering from cancer and many other life threatening diseases.

In my view designating the word 'stupid' to ourselves will be like using a very humble and most cultured word. We deserve something worse because we do not acknowledge the fact that life is a deep interdependence.

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**Vageesha Tiwari**, IV B.Tech., Dept. of EE

## MACHINES WITH A MIND OF THEIR OWN

Has man made machine or has machine made man? Stupid question, because everyone knows that machines can't make a man, they can't make any living thing on their own. But what to say when machines will have a mind of their own. Yes, by 2029, computers will match human intelligence. Ray Kurzweil, one of the world's foremost Artificial Intelligence (AI) genius revealed that in future, computers will understand natural language and nanobots will fight disease. Microsoft chief research officer Rick Rashid was addressing a session in 2013 in China. He was speaking in English and the Chinese translation was heard in his voice, which was translated by a machine. Isn't this something like 'wow', what a translator! It is a breakthrough in the world of technology. I am thinking of the day when man & machine would sit on the opposite chairs with a chess-board between them and both of them using their own mind. It would be a real fight

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**Shubhangi Sawarn**, IV B.Tech., Dept. of EE

### *Dreams are scary*

*When I woke up from a scary dream  
Which got broken with, My horrible scream.  
The room was a bit green,  
And I was imagining the whole terrible scene.  
With no one besides me  
though someone's presence that time was important to me  
My mind was a bit worried,  
With sweat over the body all around.  
The time was good  
And the wax of the candle has melted out.  
The images of ghosts and worthy creatures  
grabbed my mind glare, It was like, I felt,  
I was being starved. What else to do then...  
The scary dream was just a daydream  
Which has on its own -no mean  
The prayers which the brave have,  
Was taken in presence of dark air, The night passed  
And it's the morning again...  
It was when I woke up from a scary dream  
Which got broken with my horrible scream.*

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**Karan Bari**, III B.Tech., Dept. of EE





## जुगाड़ जरूरी है!

तो कर तो बात उस हुनर की जिसके बिना आज जिन्दगी अधूरी है,  
जो हो तो अनदेखे रास्तों से गुजरने पर भी लगती मंजिल पूरी है,  
कहाँ होता है अब कोई काम उसे काम में लिए बिना,

'जुगाड़' है वो बला जो जिन्दगी में जिन्दगी से भी ज्यादा जरूरी है।

परमात्मा की दी हुई जिन्दगी तो, जुगाड़ का बेहतरीन नमूना है

श्रद्धा की आड़ में हम परमात्मा को ही लगा रहे चूना हैं।

जन्म लेने से लेकर अन्तिम यात्रा तक में जुगाड़ का रोल है,

नौकरी पाना तो दूर उसे कायम रखना और भी बड़ा झोल है।

बच्चे बुजुर्गों को सम्मालने की जिम्मेदारी का जुगाड़ खोजने के मूल में है।

अपने जीवन में आती मानसिक बुजुर्गावस्था से अनजान ये नादान न जाने

पिता बेटे का दहेज लेने और बेटे को दहेज देने के जुगाड़ में लगा है,

गोल है दुनिया मेरे भाई तब तूने किसी को ठगा था अब तुझे किसी ने ठगा है।

राजनीति तो मिसाले जुगाड़ है उसमें जुगाड़ है उसमें जुगाड़ के क्या कहने,

अखाड़ा बन चुकी देश की स्थिति में उठा पटक तो पड़ेगी ही सहनी।

मंत्री संत्री चले चपाटे जुगाड़ के भरोसे मलाई चाट रहे हैं,

पेट भरने तक को जो तरसे कभी आज चुनावी जीत की बर्फी बांट रहे हैं।

राजनीति के क का से भी अनजान जुगाड़ आज नेतागिरी में गुरु हो गए,

छो चुके थे जो समाज में नैतिकता कमबख्त सब छोड़कर राजनीति में शुरू हो गए।

गली के हर छोटे मोटे बदमाश ने चुनाव में टिकट का जुगाड़ कर लिया है,

क्या खून है राजनीति भी की गरीब की झोपड़ी जलाने वालों ने पॉश कॉलोनी में घर लिया है।

सबसे बड़ा जुगाड़ का कमाल तो इन्जिनियरिंग नाम की विद्या में देखने को मिलता है,

हमारा टीवी बिना थाप और स्कूटर बिना टेढ़ा किये कहाँ चलता है।

भावी इन्जिनियर भी उपस्थिति और सत्रांक बढ़वाने के जुगाड़ लगाने में जुटे दिखते हैं,

सुनहरे भविष्य की चाह में, हासिल वर्तमान को छोड़कर, टूटा फूटा इतिहास लिखते हैं।

देश को मजबूत वाट्सअप, फेसबुक स्टेटस अपडेट करने वाले इन्जिनियर मिल रहे हैं,

महान भारत वर्ष रूपी कालनी में हुए छेदों को अपनी फटी चादर के पैबंदों से सिल रहे हैं।

जीवन में अपनाया गया हर जुगाड़ तुम्हें जिन्दगी की असलियत से दूर ले जाएगा,

देशी घी की मिठाइयों का मन, वनस्पति घी के जुगाड़ में कहाँ जाएगा।

अगर चाहते हो की तुम्हारा अपनाया हुआ हर रास्ता मंजिल पर जाकर मिले,

तो जुगाड़ करने की आदत छोड़कर देखो जीवन रूपी उपवन में कितने फूल खिले।

विवेक शर्मा, वरिष्ठ व्याख्याता, विद्युतीय अभियांत्रिकी

## अपनी कमी को स्वीकार मत करो, करो प्रयास उसको दूर करने का

कुछ काम करो, कुछ नया-कुछ नया

बस अपनी कमी को स्वीकार मत करो

करो प्रयास उसको दूर करने का

जब यह दूर होगी न जाने तू कहाँ होगा,

वरना ये जहाँ तुझे कोसता रहा होगा॥1॥

नहीं कहता मैं यह पढ़ने को, बस पढ़कर कुछ कर दिखाने को

वही पाता जो मंजिल जो करता अपनी कमी को दूर,

वरना बस देखता रह जाता, उस मंजिल को सुदूर॥2॥

मत समझ अपने आप को परिस्थिति को गुलाम, बस करता जा वह काम

एक बार प्रयास करके देख, वह सफलता होगी तेरे पास ॥3॥

कहना नहीं, कर के दिखाना, कहने वाला कमी न करता काम

करने वाला कर-कर दिखाता

कहना ही है वह कमी, करना ही है वह प्रयास

बस कर अपनी कमी को दूर, मत कर उसे स्वीकार॥4॥

मत कर वह गलती, एक बार कर दी तो बार बार करेगा

कर प्रयास उसको दूर करने का, कर दी वह गलती बनाकर यह कविता

नहीं किया वह प्रयास जो करना था मुझे

करना कुछ और, कर दिया कुछ और, बना डाली यह कविता॥5॥

दीपक सुथार, द्वितीय वर्ष, विद्युतीय अभियांत्रिकी

## हे ईश्वर ! मेरी विनती सुनना,

हे ईश्वर ! मेरी विनती सुनना,

कि मैं अपने विद्यार्थियों की,

वैचारिक दुनिया में उनकी सहायक बन सकूँ।

मेरी दृष्टि एवं धारणा उन पर हावी न होने पाए

बल्कि वे अपनी मौलिकता से उसे नया आयाम दें।

उनकी मंजिल दूर है, इस बात को ध्यान में रखकर

सही समय पर सही दिशा की प्रेरणा दे सकूँ।

ताकि आत्मविश्वास और निजी विशिष्टता के साथ

वे अपने पथ पर मजबूती से आगे बढ़ सकें।

हे ईश्वर ! मेरी विनती सुनना

कि मैं उनके मन की बात समझ सकूँ

आत्मीयता एवं अपनेपन की उष्मा से

उन्हें समझा सकूँ कि बड़ों की बात ध्यान से सुने।

हम उम्र की बात पर गौर करें, क्योंकि उसमें विचारों की वित्तिघटा है

चाहें उन्हें अनुपपुक्त लगे।

भाव-संवाद का यह संचराग, ज्ञान गंगा का प्रवाह

अविरत चलता रहे, संबंधों की गरिमा बनी रहे,

परस्पर अनुभव-सरिता बहती रहे।

हे ईश्वर ! मेरी विनती सुनना, कि वे तन से सदैव स्वस्थ रहें,

मन से मजबूत रहें, भाव से समृद्ध रहें,

स्वभाव से सरल और व्यवहार से संतुलित रहें,

वाणी से विनयी रहे, खान पान में संयमी, कामकाज में विवेकी रहें,

अंत में अपनी संस्कृति का बिगुल बजाते रहें, युगों-युगों तक!!

डॉ. निधि शर्मा, रीडर, अंग्रेजी विभाग



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