

VectorTech

Magnitude & Direction



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QUALITY BENCHMARKS



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Act No. 25 of 2009



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UGC Act 1956 and empowered to grant degrees under said Section.



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Founders



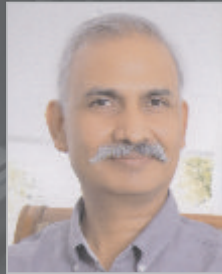
N K Dewan



V Daulet Singh



Shiv Saran Mehra



Avdresh Mishra



Neera Makhija

Vision:

To be known globally for learning innovations, academic excellence and socially relevant research outcomes; strive to become the preferred destination for students, faculty, employers and collaborators & pride of alumni and the community.

Mission:

Focus on quality of learning and innovation in all programmes with rigour and relevance.

Develop competent professionals - innovative, analytical and independent; committed to excel in all their endeavours.

Develop linkages globally with government, industry, academia and alumni for knowledge generation, dissemination and application.

Encourage multi-disciplinarity in programmes and projects to explore new frontiers of knowledge.

Continuously improve physical, academic and information infrastructure in pursuit of academic excellence.

Create a nurturing environment for lifelong learning.

Focus on entrepreneurship and socially relevant projects.

Core Values:

Integrity in all endeavours.

Humility, compassion and concern for all.

Passion for quality and excellence.

Quest for innovation.

Leadership and Team Spirit.

Autonomy with Accountability.

Perseverance.

Quality Policy:

To impart learning of the highest standards in the disciplines we have chosen, through a blend of theory, practice and performance. We endeavour to seek excellence in our academic activities and in all the services we provide to improve the quality of life of our students and the community we serve.

Editorial

Welcome to VectorTech, our bi-annual publication about the life at the University.

In the successive pages of VectorTech, the animated world of ITM University, Gurgaon, comes alive. It is also a record of our activities and achievements.

In this issue we bring to you exclusive interviews with the Pro-Chancellor, Prof. Prem Vrat and the Vice-Chancellor, Prof. BS Panwar. As you turn the pages further, you will find out the success mantra of our successful students: How do they make it?

Innovation, research and development and industry specific learning are buzzwords today, like never before. In this issue we bring to you some views and perspectives of our distinguished faculty members on industry academia collaboration and the dynamic demands of the corporate world.

In the News from the Schools section, I hope you enjoy reading about some of the varied events, celebrations and individual and collective achievements of our Schools and Departments, covering the period from September 2014 to February 2015. We believe there should be a right balance between work and play, finding time to be active in the service of society – all of these are ways of discovering a new meaning and a deeper enjoyment of life. These are showcased in the later section of the magazine.

We are grateful to the faculty, staff and students for their contributions to the magazine. We are especially thankful to Mr Akhilesh Kumar for providing good quality photographs and Mr Lalit Narayan Lal, for the layout, graphics and tirelessly putting up with our corrections.

We hope that you will like our efforts. But what we would love is for you to e-mail us anything you want to say at any of the following Email IDs:

Editorial Team

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sksharma@itmindia.edu,

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Factfile

Nature of University	:	Multidisciplinary, co-educational university offering Undergraduate, Postgraduate and Doctoral Programmes in Engineering, Management, Law and Applied Sciences
Established	:	1996 as affiliated college; 2010 as University
By	:	Educate India Society, as a Private Self Financed University
Located	:	In the industrial heartland of Gurgaon (Located 5 km from Indira Gandhi International Airport, New Delhi)
Campus Address	:	Sector 23-A, Gurgaon, Haryana, India, Tel.: +91-124-2365811-13 Email: itm@itmindia.edu, Website: www.itmindia.edu
Visitor	:	Prof. Kaptan Singh Solanki, Governor of Haryana
Chancellor	:	Mr Navdeep K Dewan
Pro-Chancellor	:	Prof. Prem Vrat, PhD, FNAE, FNASc, FWAPS, FISTE, FIIE
Vice-Chancellor	:	Prof. BS Panwar, Senior Professor, PhD (IIT Delhi)
Registrar	:	Col. Bikram Mohanty (Retd)
Student Population	:	Undergraduate 2868 Postgraduate 408 PhD 109
Student Gender Profile	:	Female 32%, Male 68%
Faculty	:	226
Scholarships	:	Merit - cum - Means Scholarships available, covering 100%, 50%, 25% of tuition fee, Merit Scholarships, Teaching Assistantship etc. ITM Scholar awards, Best Project awards



Message from the Governor



**Hon'ble
Prof. Kaptan Singh Solanki**
Governor of Haryana



हरियाणा राजभवन,
चण्डीगढ़।

HARYANA RAJ BHAVAN,
CHANDIGARH.

Message

I am extremely happy to note that ITM University, Gurgaon has emerged as one of the leading universities in North India. It is good to see that ITM University has been providing high quality education in Engineering, Management and Law. I am impressed by the way; this University has grown from strength to strength since its inception to become a unique multidisciplinary University of higher learning in North India. I am happy to see an absolute ragging-free environment in the University and its excellent intake and placement records. The ratio of female employees and students in different streams is praiseworthy. With relevant and innovative courses, excellent infrastructure and qualified faculty, ITM University shows its commitment to academic development in India in general and Haryana in particular.

I am confident that the University will continue to deliver quality education to serve as an intellectual resource base in India and the world, I wish ITM University, Gurgaon all the best in its endeavours to achieve academic goals and excellence.

(Prof. Kaptan Singh Solanki)

Message from the Vice-Chancellor



Professor BS Panwar
*Vice-Chancellor and
Senior Professor*

This year is ITM University's 19th year since inception and though it is steadily moving ahead from strength to strength we still have a long way to go and scale greater heights so as to be counted amongst the top ten institutions in the country. We are very fortunate to have outstanding staff, students and facilities to make this a premier centre of higher education. The University is focused towards developing knowledge, skills and leadership qualities in its students so as to be ready for nation building and face the challenges of the 21st century and beyond.

The University is committed to making the students' educational experience multifaceted and holistic. It offers a learning environment that is about creation, innovation, discovery and growth - with sensitivity. We continue to improve the quality of education by focusing on research and linkages with the industry so as to make education relevant, enhance employability and entrepreneurship. India will soon become a manufacturing hub with the government's policy of 'Make in India'. To benefit from the myriad opportunities that will soon be available you have to acquire expertise in your core competencies and become skilled professionals so as to be ready to lead from the front.

My first priority is to provide excellence in education to our students. I firmly believe that the aim of education should be to achieve excellence and once excellence is achieved, success will follow. The path of success as a means of earning money and fame may be easier and faster to achieve, but may not give satisfaction, or respect, which only excellence can give. It is essential to build a strong character. In the words of Albert Einstein: "Many people say that it is the intellect which makes a great scientist. They are wrong: it is character." Aim high, follow your curiosity and have determination and perseverance. Strive to be a better human being every day and work towards the common good of society and humanity.

'Think Different, Think Simple and Think Big!'

Vice Chancellor



Feedback

'Impressive environment with first rate planning.'

Prof. SK Joshi
Former DG, CSIR

'A forward looking and impressive institution. An impressive seat of learning, should become an outstanding place for frontline research.'

Prof. RC Budhani
Former Director,
National Physical Laboratory,
Prof. IIT Kanpur

'Very good progress. More opportunities.'

Padmashree Prof MS Sodha
SS Bhatnagar Awardee
Former VC Barkatulla, Bhopal,
Indore, Lucknow Universities

'Sincere efforts to pursue research.'

Prof Karmeshu,
SS Bhatnagar Awardee
Prof. & Dean, School of
Computer & Systems Sciences,
JNU, New Delhi

'It is certainly a matter of pride to learn about the achievement of our daughter, Tashi. Undoubtedly the faculty and the environment have played a great deal in the pupils' achievement.

In hindsight, I remember when she had excelled in PCM of Class XII but was keen on pursuing Law. Though she was getting a scholarship at Amity University she decided to go for ITM University, Gurgaon. I am happy that she took that decision and has done well as a student at ITM University and has enjoyed esteemed love and guidance from the faculty.'

JN Vaish, Roorkee
(Parent of a student)

'At the launch of our company's website, I was given the opportunity to host a major show and make a presentation. I was so confident while making this presentation for my company and all this was possible because of the dedication and hard work of ITM University's faculty, who focused on improving our soft skills. It was a wonderful experience and I am thankful to my alma mater, ITM University, Gurgaon, for preparing me to meet the challenges in a globally competitive world.'

Havisha Sharma
MBA alumni
HR Head, 'Finish Problems'

Facilities in the University - Medical Room

The Medical Room at ITM University is situated centrally on the ground floor of the main building. This facility is available to students, faculty and staff of the University on all working days from 8.30 a.m. to 4 p.m. A team of qualified and dedicated doctors provide allopathic treatment as well as in the Homoeopathy physician provides services in the homoeopathic system of medicine.

The Medical Room provides superior emergency care, with all examination beds, medical equipment and medicines to cater to an emergency, provides first-aid services for injuries, accidents etc. and thereafter move the patient for further course of treatment. For routine medical cover, meet the doctor on duty in the Medical Room and they will take good care of you.



Dr Nancy Malik
Medical Officer



Dr Shilpy Wadhwa
Medical Officer



**Maj. (Dr)
R K Srivastava (Retd.)**
Medical Officer

The University has a well equipped ambulance van that is available round the clock to reach sick students to hospitals and to handle emergencies even in the off-site hostels of the University. The doctors regularly visit the University's

hostels when required. The University also has a tie-up with the Columbia Asia Hospital, in the neighbourhood.



Student Mentoring programme for first year undergraduate students

To help students adjust to new surroundings, settle in and find their way around, ITM University has a programme of nurturing and mentoring freshers in the University. The Mentoring Programme (Mentoring Contact Hours or MCH) was introduced to make the First Year undergraduate students comfortable at the campus and to provide them a mentor/guide for discussing their difficulties in what is likely to be an exciting and hectic few weeks.

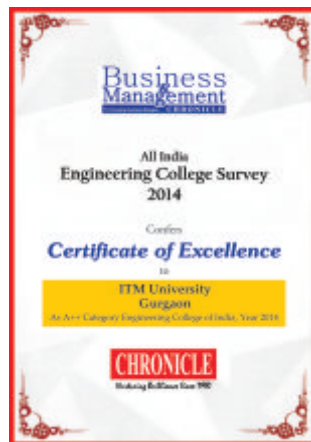
The Programme is coordinated by Dr Rashmi Tyagi of the Department of Applied Sciences as this Department

deals with all First Year students of the BTech programmes. The Freshers or First Year students are divided into groups and the group meets its mentor, a faculty member, once a month. During meetings students seek advice from their mentors and also give suggestions seeking to make it a healthy learning environment. No matter what the problem is, academic, non-academic or personal, freshers can discuss them with their mentor freely, who help and guide them accordingly. Besides the allotted time, students also meet their mentors at mutual convenience. Some constructive suggestions of freshers have

been implemented, such as improvement of basketball, lawn tennis and badminton courts, introduction of inter-branch cricket league and other sports tournaments, issue of increased number of library books to the students, library timings etc.

Recent Achievements

- ❑ ITM University has received an All India Composite Ranking of 47 in Outlook Engineering Colleges Handbook, June 2014.
- ❑ In TOI-Times Engineering Institutes Survey June 2014 the University was nationally ranked amongst the top 59 and was ranked No. 23 amongst the Private Engineering Institutes in India.
- ❑ ITM University was recognized as one of the Top 10 Emerging Engineering Colleges in India in India Today's - India's Best Colleges Survey 2014.
- ❑ ITM University did well in the Edu-Rand survey based on Rand Corp. of USA process, with an All India ranking of 70 out of 850 Engineering Colleges.
- ❑ ITM University was felicitated as the eGovernance nodal centre for the District of Gurgaon in an initiative taken by 'Engineering Watch' in consultation with National Informatics Centre (NIC). The University achieved the highest Level 7 in E-Gov Report of 2014.
- ❑ ITM University was ranked 2nd Top Business School in Haryana and Ranked 52 in Top Business Schools of Excellence in India out of a total of 141 in Competition Success Review (CSE)-GHRDC Survey - November 2014
- ❑ ITM University has been ranked the No. 1 Institute for Management in Delhi/NCR and the No. 1 Institute for Engineering in Delhi/NCR by Business & Management Chronicle Private Professional Colleges Survey March 2014.
- ❑ In Business & Management Chronicle All India Engineering Colleges Survey June 2014, the University was conferred A++ category and awarded All India 4th rank in terms of Infrastructure.
- ❑ ITM University was the First University of Haryana to get ASIC Accreditation of UK.
- ❑ The University has received NBA Accreditation for two years for all six Undergraduate Engineering programmes.
- ❑ ITM University's new academic block was selected in the latest issue of the prestigious American Institute of Architects USA magazine 'for its innovative and unique institutional building, reflecting the vision of the future'.
- ❑ Our Pro Chancellor, Prof Prem Vrat has been conferred with the 'Life Time Achievement Award' at the 18th Annual International Conference of the Society of Operations Management at IIT Roorkee on 13th December 2014.



TOP 100 SELF-FINANCED COLLEGES									
Rank	College Name	Score	Score	Score	Score	Score	Score	Score	Score
1	SRM Institute of Science and Technology	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2	SRM Institute of Technology	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
3	SRM Institute of Engineering and Technology	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
4	SRM Institute of Science	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
5	SRM Institute of Technology	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5

TOP 100 BEST COLLEGES									
Rank	College Name	Score	Score	Score	Score	Score	Score	Score	Score
1	SRM Institute of Science and Technology	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
2	SRM Institute of Technology	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
3	SRM Institute of Engineering and Technology	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
4	SRM Institute of Science	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
5	SRM Institute of Technology	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5



In Conversation with the Pro-Chancellor, Prof. Prem Vrat



Prof. Prem Vrat
Pro-Chancellor and
Professor of Eminence

Prof. Prem Vrat, Pro-Chancellor and Professor of Eminence, ITM University, in an interview with Ritesh Ranjan, Editorial Cell, spoke about the role of Pro-Chancellor in the University, difference between conventional and non-conventional methods of teaching, and role of premier technical institutes in the country.

As the Pro-Chancellor of the University, what are the changes you wish to bring in the culture of the University?

The Pro-Chancellor's role is advisory and mentoring in nature. We, at ITM University truly believe in sustainable quality in our teaching-learning process, research and outreach activities. This calls for a culture of openness, teamwork, transparency, flexibility with a focus, autonomy with accountability at each level. I consider the office of Pro-Chancellor as a facilitator in the process of creating that enabling work culture.

Should education be restricted to conventional classroom approach or should it be moved beyond the classrooms?

Education must be seen holistically. Classroom conventional teaching is just one part of it. Even within classroom teaching, a mix of teaching pedagogy needs to be employed to make classes interactive, participative and inspiring. Learning outside classrooms is as important as classroom teaching. Project based learning, interaction with industry, co-curricular events, conferences,

workshops, debates, and competitions supplement the learning inside the classrooms.

Many non-conventional courses have emerged in the last few years. Does this scenario hamper the basic cause of education?

Non-conventional courses do not hamper basic education. Basic education is fundamental and cannot be replaced by non-conventional courses. These have to be add-ons to develop a person as per his/her interests and in accordance with the needs of the society or industry. Knowledge is growing at an exponential rate and hence we need to create a desire to unlearn and relearn so as remain updated in whatever areas we wish to study. Emerging areas need to be taken up for technological growth and development. But basic understanding, skills, knowledge, values and attributes are fundamental on which other non-conventional knowledge can be developed or built.

With proposal of central universities and IITs in every state of the country, will the quality of higher education, in your opinion, dilute?

IITs and Central Universities signify quality and academic excellence. There is enormous need in the country to have more access to quality education. However, it calls for availability of outstanding, committed and motivated faculty in adequate number, liberal funding to each institution, visionary academic leadership, autonomy with accountability and self-regulation, benchmarking with best global practices. An enabling and a nurturing government support system is a pre-requisite for this. If we can ensure these enablers for each and every IIT/ Central University, then there is no dilution of standards because a large country like India needs huge number of quality-trained human resources. But if these aspects are ignored, then there would be dilution. It is well known that even in existing IITs there are large number of vacant faculty positions (about 30-40%).

We must address faculty related issues with priority, if quality and brand equity of these institutions are to be sustained.

What prospects do you see for the University in the future?

ITM University, Gurgaon has an excellent locational advantage, a very enabling physical ambience, transparent work-culture and focus on discipline. These are useful enablers in a growing competition in private university space of higher education. With visionary leadership, good faculty retention policies and nurturing a passionate work culture, I see a good future for the University. In fact, our vision statement is inspiring and ensures that we are on the right track to remain competitive in future. This of course calls for dedication, discipline and drive to attain the goals with rock solid teamwork and positive energy. In a highly competitive world, one has to run even to remain in the same place. I am confident that we shall grow from strength to strength.

We, at ITM University, truly believe in sustainable quality in our teaching-learning process, research and outreach activities. This calls for a culture of openness, teamwork, transparency, flexibility with a focus, autonomy with accountability at each level.

In Conversation with the Vice-Chancellor, Prof. BS Panwar



Prof. BS Panwar
Vice-Chancellor and
Senior Professor

Prof. BS Panwar, Vice-Chancellor and Senior Professor, ITM University, in an interview with Ritesh Ranjan, Editorial Cell, spoke about the role of premier technical institutes in the country and difference between conventional and non-conventional methods of teaching.

What are your viewpoints on the changed style of imparting education in comparison to conventional methods?

Education is one of the primary needs of mankind. Every human being has the right to be educated. But this education should not be restricted only to the bookish knowledge. And, change is the law of nature. The conventional ways of teaching have been more inclined towards developing the technical skills of a student. In my opinion, a student should be innovative and creative. He should be given sufficient support and encouragement for research and development. Learning today has moved beyond classrooms and laboratories. A student is supposed to have all-round development. The extracurricular activities are complementary to this. Teaching is not confined to the four walls of the classroom. Swami Vivekanand has said, "Our work should be mainly educational, both moral and intellectual." Both the conventional and non-conventional methods should be meant for a student's moral and intellectual development. The methods are only the

pathways to reach destination. It matters less which path one takes; it matters whether the destination is reached or not.

What is your opinion about the government's initiatives to have more IITs and Central Universities?

Education is very important for everyone, however the quality should not be compromised. In our country, the premier technological institutes like IITs have high standards in imparting higher education. The academic environment and the ambience of the IITs are unparalleled. Other institutions are also performing well, but still there is a gap between the quality produced. Our government's plans for more IITs and Central Universities are really encouraging but it demands quality inputs in terms of infrastructure and faculty. It is always good to have more institutions like IITs. The standard and culture of the new IITs and Central Universities require a lot of development. Government should not only focus on increasing the number, but also on increasing and maintaining the quality, otherwise the level and reputation will go down. Focus on research and development should be made, with special care for innovation. New research labs with good infrastructural facilities is the need of today to take the country forward for achieving excellence in new areas for achieving independence in space and defence technology. The brain drain from India has decreased, but it is required to be checked completely. And for this IITs and Central Universities have to play a crucial role.

What are the changes you would like to bring in the culture of ITM University?

ITM University is one of the leading institutions in imparting higher education in Northern India. I appreciate the environment and the support our students get to excel academically. I would also like them to develop as good human beings with great moral values and character. The aim of education should be to achieve excellence and once excellence

is achieved, success will follow. Education should not be restricted to make a technical professional only; it should also create character, ethics and moral values.

I feel that the faculty of the University should be more innovative and engaged in research work. Besides regular teaching activities, they should be aiming for research and development. New ideas are always welcome. Unless we try to explore more, we will not be able to progress.

Education is one of the primary needs of mankind. Every human being has the right to be educated. But this education should not be restricted only to the bookish knowledge.

Industry-Academia Collaboration

About 70% engineering students graduating each year from ITM University, Gurgaon move into industries to serve them. Therefore, it makes the industry – academia engagement more demanding. With the objective of bridging the gap between the industry and the University, and to promote industry-specific learning, the University has industrial tie-ups for summer internships, invited talks from industry experts, workshops by industry leaders, industrial visits, industry relevant major projects and finally placement of students in reputed industries. However, we still have a lot of ground to cover to strengthen this crucial area of academia-industry collaboration. To understand the present status and forge the way ahead on this important aspect of higher education, we bring together the enabling views and recommendations of a small team comprising of Prof. Ravindra Ojha, Prof. Swaran Ahuja, Dr Latika Singh, Head, Department of CSE & IT, Dr Bharti Arora, Deputy Dean, RDIL and Mr BK Gupta, Director, School of Professional Attachment, through interactions conducted by Ms Rekha Mathur, Senior Editor, ITM University, Gurgaon.



Prof. Ravindra Ojha initially gave us an overview of the three levels at which the University engages with the industry. They are:

Level I - Imparting Knowledge Excellence through:

- Guest lectures on real world relevant topics by industry leaders, policy makers and experts from academia. About two lectures in a month is common.
- Curriculum modifications in terms of content of curriculum, structure of the course, credit allocation, introduction of new industry-oriented courses, elective flexibility etc is carried out by the Board of Studies (BOS) which has industry

experts. The BOS meets once a year after the in-depth departmental deliberations.

- The Academic Council meets quarterly and is the approval body that facilitates in making academics relevant to the real world.
- A structured audit of the teaching-learning processes is carried out biannually by a third party experienced group of academic and industry leaders to identifying areas for improvement and the benchmarking practices.

Level-II. Developing Competency Excellence through:

- Summer internship of engineering students in the industry for 6-10 weeks. Structured exposure to industrial processes and problem solving at the *Genba* develops competencies. Learning by seeing, feeling the industrial environment and interacting with top floor and shop floor hugely enriches student experience. The ASQ-ITMU student chapter has been playing a key role in student-industry engagement. Online, it updates students with the tools and techniques of quality and conducts relevant workshops and certification courses for students in the University. The interaction of faculty with industry experts, while guiding summer interns and major projects in industries, has opened up new engagement avenues for the faculty.

- There is a high degree of focus on the multi-disciplinary fabrication related B Tech major projects. Approximately 30% of major projects are hands-on fabricated projects and industry relevant projects.

- Carrying out short term SME funded application oriented projects.

Level-III. Creating Research and Innovation Excellence through:

- Use of the state-of-the-art Central Research Facility created in the university.

- Two projects - the creation of a Centre of Excellence (COE) and the creation of an Innovation Laboratory are under progress which would take the research and innovation to the next orbit in ITMU.

- Encouraging students for innovative projects. Three awards of INR 100K, 75K and 50 K for the Best B Tech project are provided. We are exploring possibilities for consultancy.



Prof. Swaran Ahuja shared his views regarding new linkages developed by the University with leading industries for collaboration in

research/live projects/training/placement etc. He said, "Interaction with the industry and their participation in our teaching learning process is a regular activity and some well-known industries have recently been associated including Mentor Graphics, Cadence and ST Microelectronics, Power Grid Corp. etc. This has resulted in several internship opportunities as well as high quality placements for students, some with annual packages exceeding Rs 10 Lacs."



Dr Latika Singh was of the opinion that "... we need to plan for more collaborations so as to enhance research/live projects/training/ placement etc."

What role is the industry playing in the curriculum formulation?

Prof. Ahuja opined that "Feedback from the industry coming through campus placements, review of the syllabi, at the design stage, by experienced industry experts, is part of the syllabus design process. Suggestions/views of experts are incorporated into the curriculum. While starting new UG/PG programmes, industry inputs are given due importance,

to give sufficient industry orientation to our programmes.”

Regarding outcome based curriculum **Prof. Ahuja** had a view that, “... quality improvement and inclusion of best practices in our teaching learning processes are a continuous effort and in conformity with the University’s vision. Accordingly, the curricula design has been aligned to the NBA guidelines incorporating outcome based practices. A balanced curriculum is designed with proper emphasis on theoretical, practical and industry oriented topics, with the outcomes of each programme clearly identified and reviewed by all stake holders.”

With respect to the steps taken to ensure consultancy and live research projects from the industry **Dr Bharati Arora** said that guidelines to formulate and operate Consultancy Projects have been drawn up. Under the guidelines, a faculty member can devote a maximum of 52 working days in a year for consultancy with outside organizations and industry. The surplus generated by such consultancy work will be shared between the university and the team consultants in the ratio of 30:70. However, we are weak in this area and Departments need to enhance this activity manifold.

The expertise for consultancy is publicized through ITM University’s website. Some of the broad areas of expertise from where the University successfully generated revenue in the past, through consultancy are Vibration, Hydrology, Human Resource Development and Industrial Engineering by the Departments of Mechanical Engineering, Civil and Environmental Engineering and the School of Management.

Prof. Swaran Ahuja was of the opinion that we have to put in more efforts to procure a substantial number of consultancy projects from the industry and for this we must first identify further areas of strength and competence. **Dr Latika** too felt that we have a long way to go in this direction but the process is on.

A well-equipped **Central Research Facility** for science and engineering has recently been established in the University. **Prof. Ahuja** says, “The

process of making the industries, located in close proximity to the University, aware about this facility and to encourage them to make use of it has already been started.”

For running training programmes for the industrial sector **Prof. Ahuja** observed that “Training programmes for the industrial sector are run from time to time. Efforts are on to enter into MoUs with more industries for mutual cooperation wherein industry specific training would be one of the key elements.”

Prof. Ahuja and Dr Singh said that more and more students are being encouraged to participate in project competitions conducted by the industry by providing them proper guidance, time and financial resources for these projects and faculty coordinators facilitate these activities.

Regarding measures taken to encourage multi-disciplinarity in programmes and projects **Prof. Ahuja** was of the opinion that “Multidisciplinary and socially relevant innovative projects are highly encouraged such as the best projects are funded and recognized through Best Project Award up to Rs. 1 Lac. Innovative projects get funded under VC’s innovation fund up to Rs. 2 Lacs per project.”

Dr Latika Singh informed that “There is provision for students to opt for an Elective course from other Departments. 15-20% projects are interdisciplinary in nature. The Department of Applied Sciences (APS) and CSE&IT are jointly guiding MTech and PhD students in programmes and projects.”

The International Society for Optics and Photonics (SPIE) student-chapter of ITM University which was recently inaugurated is also a step in this direction. It advances emerging technologies through interdisciplinary information exchange, continuing education, publications, patent precedent, career and professional growth.

To the question, “Has the industrial interaction benefited our students? How can it be improved further?” all members unanimously agreed that without any doubt, the industry interaction programmes have benefited the students and this is visible in terms of numbers and quality of placements at the University, this year.

Mr BK Gupta, Director, School of Professional Attachment (SPA) pointed out that there has been a 15% increase in the pay packages that are being offered to students this year and there has been a surge in the number of placements, compared to the same period last year. Industry has appreciated the technical knowledge, presentation skills and high degree of motivation in the students of ITM University coming for placements this year.

“The scope of industry interaction is being expanded to improve the quality as well as monitoring of internships with defined outcomes, guest lectures by industry experts and joint projects with industry. Further efforts are also being made to invite the industrial sector to set up some of their development labs/ centres on the campus,” said **Prof. Ahuja**.

Prof. Ojha was of the opinion, “... industrial collaboration will greatly facilitate in knowing what new is happening in the industry because they are in direct contact with the market/customer. The industry is the biggest source for the application of the latest knowledge, tools and techniques... They can provide opportunities to students to enhance their career paths and improve their employability.... we faculty only need to get engaged with them. Finally, in this engineering trajectory, apart from excellence in academics, the two key differentiators for success are the summer internship and major project quality.”

Industrial collaboration will greatly facilitate in knowing what new is happening in the industry because they are in direct contact with the market.

- Prof. Ravindra Ojha

Successful Students: How do they do it?

Having clear goals and a strong desire to achieve them stimulate the brain which sharpens attention and forms the basis of learning. We asked some students who have consistently been outperformers in their studies and are on the coveted Dean's List of Students of ITM University, Gurgaon, a very select list of scholars, as to how do they do it, so that others can also benefit from their success mantra. We mailed a short questionnaire to some students on the December 2014 Dean's list. They took time out from their hectic routine and exam schedule to respond to the questionnaire. Here are some responses.

All agree that being attentive in class, listening carefully and noting down important points are the best help for a quick revision at the time of exams. Self-study is a must!



Supriya Rajpal did her graduation from Jesus and Mary College, DU and was always among the top 5 in her class. In her 1st semester of MBA at

ITM University she scored the highest possible CGPA. She says, "... (when I) find something relatively tough I make sure I go home and revise it the same day and in case of

difficulty I take my doubts to the concerned faculty."



Preeti Dagar doing BSc Maths, has achieved a CGPA 9.91 and is of the opinion that "Attending a class does not mean to be just physically present but mentally alert.

There is a need to work both hard and smart and revising the work on the same day it is discussed in class."



To the question "How do you prepare for the exams?" **Priyanka Jain**, M.Tech, Electronics & Telecommunication s, CGPA 9.92 says, " Besides understanding I

normally look into previous years' question papers and syllabus as it helps to concentrate on areas of importance and priority."

Supriya Rajpal shares some study tips to learn and study effectively: "Take enough breaks while studying. Use mnemonics to learn long answers and underline key words that would enhance your answer."

All scholars agree that taking too much pressure leads to forgetting what you have learnt. Study regularly but do not miss out on your hobbies. For Priyanka it is cultural programmes that create social awareness. Supriya takes part in welfare services that benefit society such as teaching underprivileged students. Preeti enjoys playing games and has also been a part of creative activities.

Regarding future priorities and goals - Priyanka wants "...to be seen as a value addition in my professional walk of life - one which brings in innovation, change and profitability."

After graduation with distinction Preeti is "... planning to prepare for the UPSC exams and my second option is to do MBA."

Supriya's plan is "... to get a good job in a reputed company. I want to grow and be the reason for the company's growth as well. In the next 5 years, I see myself in a position that not only pays well but also gives me enough responsibility and power. Power to do good in service of the society."



Outreach Activities of Professor Prem Vrat

Pro-Chancellor and Professor of Eminence, ITM University, Gurgaon

- ❑ Prof. Prem Vrat attended an EDU Summit at Confederation of Indian Industry (CII) at Chandigarh on 1 September 2014. The summit focused on vocational training.
- ❑ As an Independent Director on the Board of Air India, Prof. Prem Vrat attended the Board Meetings on 2 September, 5 November, 11 December and Audit Committee Meeting on 26 November and 11 December in 2014. In 2015, he attended 2nd Meeting of Independent Directors of the Board on 28 January and a workshop of Air India on 9 February 2015 at New Delhi.
- ❑ Prof. Prem Vrat was invited as the Chief Guest at the Valedictory function of the 56th National Convention of Indian Institution of Industrial Engineering (IIIE) on 13 September 2014 at Vizag Steel Plant, Visakhapatnam, Andhra Pradesh.
- ❑ Prof. Prem Vrat and Mr Lalit Upadhyay received a medal and citation each for their Best Case Study paper in non-traditional area, published in the May 2014 issue of Industrial Engineering Journal. The award was conferred on them during 56th National Convention of IIIE held at Visakhapatnam during valedictory session on 13 September 2014.
- ❑ Prof. Prem Vrat has been appointed Honorary Advisor of Eminence – Education Sector by American Society for Quality (ASQ-India). He visited ASQ-India on 23 September 2014 and was also interviewed by ASQTV for his views on quality in higher education. He attended the meeting of ASQ at Hotel Surya, New Delhi on 21 January 2015.
- ❑ Prof. Prem Vrat attended the National Advisory Board meeting of SPIC MACAY chaired by Dr Karan Singh on 25 September

Prof. Prem Vrat attended the National Seminar on 'Restructuring Higher Education in India- Issues and Strategies' at Amity University, Manesar on 30 August 2014.



Prof. Prem Vrat addressing the seminar on Higher Education at Amity, Manesar

- ❑ 2014 at IIC, New Delhi. ITMU, Gurgaon has been identified by SPIC MACAY as the hub for higher education institutions at Gurgaon.
- ❑ Prof. Prem Vrat attended the Business Session on 'UK and India: Natural Partners for Investment' at Federation House, New Delhi on 10 October 2014.
- ❑ Prof. Prem Vrat attended the two day conference on 'Higher Education Vision 2030: Making it Happen' during FICCI Higher Education Summit at FICCI Federation House, New Delhi from 13-14 November 2014.
- ❑ Prof. Prem Vrat attended the meeting of INAE (Indian National Academy of Engineering) forum on 'Technology Foresight and Management for addressing National Challenges' at Gurgaon on 21 November 2014.
- ❑ Prof. Prem Vrat attended the Hindu Educational Conference at World Hindu Congress 2014 on the theme 'Creating and Networking Educational Resources for Civilizational Re-emergence' at New Delhi on 22 and 23 November 2014.
- ❑ Prof. Prem Vrat attended the function to felicitate Padma Shri Dr Pritam Singh at Education Promotion Society for India at SCOPE (Standing Conference of Public Enterprise) Auditorium, New Delhi on 14 November 2014.
- ❑ Prof. Prem Vrat attended the 20th Governing Council Meeting of JSSATE at JSS Academy of Technical Education, Noida on 28 November 2014.
- ❑ Prof. Prem Vrat chaired the Interview Board meetings for the selection of a scientist for A e r o n a u t i c a l / A e r o s p a c e / A u t o m o b i l e Engineering at RAC, DRDO, New Delhi from 1 – 4 December 2014.
- ❑ Prof. Prem Vrat visited IIT Delhi for the selection of faculty for School of Engineering & Technology, ITM University, on 9 December 2014.
- ❑ Prof. Prem Vrat attended the 18th International Conference of Society of Operations Management at IIT Roorkee from 12 – 13 December 2014 where IIT Roorkee conferred the Life Time Achievement Award on him.

- Prof. Prem Vrat attended the Selection Committee Meeting of the Directors Maharaja Surajmal Institute of Technology (MSIT), New Delhi on 14 December 2014.
- Prof. Prem Vrat attended the Management Evaluation & Accreditation Committee Meeting of National Board of Accreditation (NBA), New Delhi on 24 December 2014.
- As an Honorary Professor of IIT Delhi, Prof. Prem Vrat delivered lectures on Operations Planning and Control at IIT Delhi on 17 January 2015, 1 February 2015 and 27 Feb 2015.
- Prof. Prem Vrat attended the formal inauguration ceremony of Ashoka University by Nobel Laureate, Shri Kailash Satyarthi at Ashoka University, Sonapat, Haryana on 31 January 2015.
- Prof. Prem Vrat attended a meeting on “India-US collaboration - Make in India Strategy” at India Habitat Centre, New Delhi on 5 February 2015.
- Prof. Prem Vrat attended the final meeting of the Project Review Committee (PRC) of DSIR supported TDDP project entitled ‘Development of small size pistons for two stroke engines by high pressure die casting process’ at Abilities India Pistons & Rings Limited, Ghaziabad, on 25 February 2015.

In addition, Prof. Prem Vrat’s outreach activities include the following:

Member, Editorial Boards:

- RITES Journal of RITES LTD.
- Industrial Engg. Journal of IIIE.
- Value Based Management of GIFT.
- ‘Vision’: The Journal of Business Perspective – SAGE Publication (MDI, Gurgaon).

Other Outreach Activities:

- Advisor of Eminence American Society for Quality, India
- Independent Director Air India Board
- Honorary Professor IIT, Delhi
- Distinguished Adjunct Professor AIT Bangkok
- Chairman, Academic Committee MSES, Janakpuri, New Delhi
- Co-chair RAC-DRDO
- Member, Technology Forum INAE

Outreach Activities of Professor BS Panwar

Vice-Chancellor and Senior Professor, ITM University, Gurgaon



Professor B S Panwar
Vice-Chancellor and
Senior Professor

- Prof. BS Panwar attended a meeting at Solid State Physics Laboratory (SSPL), New Delhi on 23 September 2014 for discussing ITM University’s project proposal submitted to UGC on CPEPA. He visited SSPL on 4 December 2014 to attend a meeting for an ongoing joint project with IIT Delhi, ‘MEMS based Energy Harvesting System’. On 8 January 2015 Prof. Panwar had a meeting with the Director, SSPL to explore the possibility of associating SSPL in a joint project of IIT Delhi and ITM University on ‘Solution Process based GaN Device Design, Fabrication and Characterization’ for submission to DeitY.
- Prof. BS Panwar visited DRDO lab, DEAL, Dehradun on 14 October 2014 in connection with an ongoing project of IIT Delhi and also to explore possibilities for procuring funds for ITM University projects. On 27 November 2014 he again visited DEAL and also IRDE, Dehradun to explore the possibilities of initiating a new project.
- Prof. BS Panwar was invited to attend the Sixth Annual Lecture delivered by Dr Karan Singh at NIIT University, Neemrana (Rajasthan) on 15 November 2014. On 2 January 2015 he was at NIIT University to chair a selection committee meeting for the post of the Vice-President of NIIT University.
- Prof. BS Panwar attended a review meeting of the project entitled ‘Design and Development of MEMS Based SoC for Wide Band Energy Harvesting for Cellular Applications’, sponsored by Department of Electronics and Information Technology (DeitY) to IIT Delhi and ITM University on 20 November 2014 at IIT Delhi. He also presented the scope and definition of the work on the same, to be carried out at ITM University. He attended the on-campus placement process at IIT Delhi on 9 December 2014 for recruitment of faculty for ITM University. On 28 January he visited IIT Delhi to finalize the

recommendations of the review committee of DeitY about the joint project of IIT Delhi and ITM University on 'Solution Process based GaN Device Design, Fabrication and Characterization'.

- Prof. BS Panwar visited ISRO Ahmedabad on 26 November 2014 for a review meeting of a sponsored R&D project to initiate the 2nd phase of the project and to initiate a new project at ITMU.
- Prof. BS Panwar visited Society for Integrated Circuits Technology & Applied Research (SITAR), Bangalore on 8 December 2014 to

explore the possibility of procuring some high-cost equipment for the Central Research Facility at ITM University.

- Prof. BS Panwar visited the Semiconductor Laboratory (SCL), Chandigarh on 12 December 2014 for planning a joint proposal of IIT Delhi and ITM University to be submitted to ISRO.
- Prof. BS Panwar visited Solid State Physics Laboratory (SSPL) New Delhi; Department of Electronics and Information Technology (DeitY) and IIT Delhi on 9 February 2015 to discuss SSPL's association

for ITMU's new projects, to check the status of the new projects at DeitY and to discuss about ITM University's joint projects with IIT Delhi, respectively.

- Prof. Panwar visited IIT Delhi on 12 February 2015 to finalize the review of the project on 'MEMS Sensors for Healthcare', an ongoing project with DST.

Outreach Activities of Distinguished Faculty



Prof. Kehar Singh
Hony. Distinguished
Research Professor

- Professor Kehar Singh visited IIT Patna on 26 September 2014 as Chairman of Planning Committee of the DST. He held consultations with some of the resource persons to plan for a 3-week long SERC winter school on 'Frontiers of Modern Optics' in 2015 at IIT Patna. The Committee finalized the number of participants, course content of lectures, laboratory experiments/demonstrations, lists of invited speakers, and other modalities.
- Professor Kehar Singh was invited by the Terminal Ballistics Research Laboratory (TBRL, DRDO) Chandigarh to give a lecture to their scientists. He visited the laboratory and delivered two lectures on 'Schlieren and Shadowgraph Techniques, Basic Instrumentation and Applications' on 29 October 2014.
- Prof. Kehar Singh was invited to give an address on the importance of Optics, at an International Conference on 'Optics and Optoelectronics' held from 22-23 November 2014 at the Institute of Engineering and Management, Kolkata. He also delivered a plenary lecture on 'Optical Cryptography using fractional canonical transforms and structured masks' at the Conference.
- Prof. Kehar Singh visited IRDE (DRDO) on 26 November 2014 to review IRDE's project on 'Infrastructure for Aspheric and Freeform Components Fabrication and Testing'.
- Prof. Kehar Singh delivered an invited lecture on 'Photorefractive Materials: Devices and Applications' on 5 February 2015 at Jaypee Institute of Information Technology, Solan (HP). He also served as an expert of Assessment Committee for promotion of faculty members in the Physics Department.
- Prof. Kehar Singh delivered an invited lecture on 'Optical Cryptography using Structured Masks and Some Fractional Transforms' on 20 February 2015 in an International Conference on Optics and Photonics held at Kolkata from 20-22 February 2015. He also chaired a session during the conference.

News and Events

Annual Convocation



ITM University held its Annual Convocation for the Class of 2014 on 20 December 2014. The ceremony was presided over by the Chief Guest Padma Vibhushan Dr Karan Singh, Hon'ble Member of Parliament (Rajya Sabha). The Pro-Chancellor, Prof. Prem Vrat and the Vice-Chancellor, Professor BS Panwar conferred the degrees and Dr Karan Singh presented the awards and Certificates of Excellence to the students.

Speaking on the occasion, Dr Karan Singh complemented the University for its outstanding contribution to the educational sector in North India. He wished the graduating students all success in their future endeavours. Dr Singh emphasized on concept of lifelong learning and four pillars of learning — Learning to know, Learning to do, Learning to live together, and Learning to be. He emphasized that one should learn to choose between essential and non-essential things and should have concentration, commitment and proper attitude with which he does his work. One should also learn to develop one's inner capacities and system of values including family, societal, global and environmental values.

A total of 798 students were awarded degrees in their respective disciplines,

including 133 from MTech, 2 from LLM, 43 from MBA, 577 from BTech and 43 from BBA. 58 students passed with Distinction. The toppers in each discipline were awarded with medals and Certificates of Excellence. Awards were also given to the best BTech projects by the students and ITMU Scholars. The ceremonial proceedings began with the academic procession led by the honourable Vice-Chancellor Prof. BS Panwar amidst melodious and holy chants. After the degree distribution ceremony, the Vice-Chancellor presented the Annual Report of the University highlighting the achievements and progress made by the University during the year. He mentioned that the University

has been a leading institution for higher education and it would continue to achieve excellence in teaching and research. The ceremony was conducted by Brig. S K Sharma (Retd.) and Ms Payal Khurana.



Scholarship Distribution Ceremony



Visitor of the University and Governor of Haryana, Prof. Kaptan Singh Solanki, awarding Scholarships

ITM University held its Annual Scholarship and Fee Concession Distribution Ceremony on 17 November 2014. The University awarded scholarships on merit and means basis to deserving students. The Chief Guest on the occasion was Hon'ble Prof. Kaptan Singh Solanki, Governor of Haryana. Students from all the three Schools of the University participated in Scholarship

Distribution ceremony. Prof. Kaptan Singh Solanki distributed the Scholarship awards to the outstanding scholars, while the Chancellor, Mr NK Dewan and the Pro-Chancellor, Prof. Prem Vrat presented the fee waiver awards to the students on merit and means basis. Presenting the awards, Prof. Solanki appreciated the support provided to the students through the scholarships.

“The University is a centre of learning, training and creating good human resources. I am delighted to note that the student intake in ITM University is 100%. The ratio of female employees at 60% and that of female students in different streams at 30% is also praiseworthy”, Prof. Solanki said. He emphasized on Prime Minister’s vision of digital India and mentioned that the three ‘S’ are very important in the 21st century – Skill, Scale and Speed. He was pleased to see that ITM University has come good on these three ‘S’. He was glad to see the ambience of the University and quality of higher education provided by the University to meet the state and national needs.

A total of about 200 students were awarded Scholarships and Fee Concessions amounting to over Rs. 1.5 crores.

Annual Academic Advisory Board Meeting

A frontrunner amongst educational institutions in India, ITM University, Gurgaon continues to evolve by regularly reviewing the progress made and making future plans for the University’s growth and development. In this context, the Academic Advisory Board of the University, the supreme advisory body comprising of eminent educationists and industry experts who carry with them a breadth of knowledge, years of experience and expertise, met at the University campus on 14 February 2015. Many of them are on the panel of leading national governance bodies.

Members freely exchanged views, presented new and refreshing ideas, and advised the University on the future charter of action to improve academic life and other essential deliverables, so that the University could achieve its ultimate aim of attaining a position of preeminence in India and have a global



presence. They discussed key issues such as placement for students, flexibility in the curriculum, research and consultancy etc. Flexibility in curriculum was an important component of the discussions so as to give as much of freedom of choices to students to study what interests them most. Apart from core subjects there are over 75

course electives for students to choose from. Their inputs shall go a long way to help shape and enhance the overall academic quality, curriculum development and spectrum of services at the University.

Quarterly Faculty Mentors Meeting

The Third Quarterly Faculty Mentors meeting was held on 7 November 2014 at ITM University. Our faculty mentors, who are eminent academicians, scientists and renowned dignitaries from different fields, met the Pro-Chancellor, Prof. Prem Vrat, and the Vice-Chancellor, Prof. BS Panwar to review the outcome-based progress of their respective mentees, and plan the way forward for improving and making the scheme more effective. At the outset, Prof. Prem Vrat welcomed Prof. Satya Sheel and Prof. KM Mittal, two eminent academics, who recently joined as ITMU's Faculty Mentors. Members felt that though faculty mentoring is a slow process of enriching the faculty but success stories have shown that people who have succeeded in life have their mentors as their role model. It was decided that every faculty member would be attached to a mentor and to strengthen the scheme all the Departments of ITM University would also be a part of this scheme.



Third Quarterly Faculty Mentors meeting in progress

Academic Council Meeting

The XVth Academic Council meeting was held in the University on 17 January 2015. The Pro-Chancellor, Prof. Prem Vrat, the Vice-Chancellor, Prof. BS Panwar, Directors of Schools, Heads of Departments, and senior officials of the University participated in the meeting along with external expert, namely.... members. Various issues for academic development of the University and research projects at the University were discussed during the meeting.

Internal Audit of Departments

Rigorous internal audits were carried for all the Schools and Departments of the University from 14 to 17 January 2015. The Pro-Chancellor, Prof. Prem Vrat, Advisor to GB, Brig. SK Sharma (Retd) and the Registrar, Col Bikarm Mohanty (Retd), along with two External Experts, namely Dr CR Prasad and Prof. VP Sandlas participated in the audit. The performance of the Schools, their departments and faculty were evaluated. Focus was on preparation for accreditation by NBA and NAAC by the end of the year.

ASQ and ITM University conduct Annual Quality Conclave



Prof. Prem Vrat inaugurating the Annual Quality Conclave 2014

The American Society of Quality (ASQ) – ITMU Student Chapter conducted its Annual Quality Conclave 2014 on 18 November 2014 at the University, in which more than 30 industry experts and 180 students participated. The theme of the conclave was 'Zero Defect Zero Effect'. The industry-student synergy was enhanced

by the presence of many industry leaders who brought with them their unique experiences and inspired the students to walk the road of quality. The Chief Guest at the occasion was Dr VK Agnihotri, Former Secretary General, Rajya Sabha & Cabinet Secretary. Other esteemed delegates present at the conclave included Mr KC Mehra, Chairman SKF, Director

Tata Hitachi & Former Dy MD Tata Steel; Mr Sudan Maitra, Dy MD IFB; Mr Anand Prakash, CQO HCL; Mr GVS Subramanyam, GM Coca Cola; Dr Anup Dhir, Sr. Consultant Apollo Hospitals. In the opening address to the conclave, Pro-Chancellor Prof. Prem Vrat addressed the importance and relevance of Quality in life and workplace. The excitement levels reached another peak when Cmdr S K Patel, Director (DQR& S), DRDO, shared the success story of Akash, the surfaceto-air missile system. The students actively participated in the panel discussions on 'Reduce, reuse and recycle' and 'Quality-A way of life', which were moderated by Mr KC Mehra. At the end of the conclave, the new leadership team of ASQ Student Chapter ITM University was inducted and the conclave concluded with a vote of thanks by Prof. Ravindra Ojha, MoU Coordinator, ASQ-ITMU Chapter.

'Lean for Leadership' - Annual Quality Workshop 2015



To provide exposure to the best global practices in industry, the American Society for Quality (ASQ) Delhi, India held its Annual Quality Workshop 2015 on 'Lean for Leadership' at ITM University, Gurgaon on 18 February 2015. ITM University is the first university in India to be selected by ASQ and form a Students' Chapter to usher in a world-class process in every part of academic and professional life in the University.

In his opening address the Pro-Chancellor, ITM University, Gurgaon, Prof. Prem Vrat, said, "In today's competitive world it is crucial to delight your customers more than your competitors do. In order to do this, it is imperative for organizations to maintain total quality, instantaneous service, flexibility in terms of what you want to

offer and what the customer is looking for, competitive pricing besides other factors."

Mr Sachin Garg, VP, Max Life, gave interesting examples of 'Lean' from his personal life in a very informal talk. Ms Savita Bradoo, Director Quality, Convergys, spoke on quality processes in training professions for the BPO industry in a very lively and interactive talk, keeping the students engaged throughout.

Mr Ciby James, Director, ASQ (I), was happy to see the energy level of the students to know and learn more about 'Lean' and said that ITM University, Gurgaon continues to be a very fertile ground for improving the culture of quality amongst students and young engineers.

In the words of Prof. Ravindra Ojha, Director School of Engineering and

Technology, ITM University, "The workshop provided an extremely powerful exposure to students who will soon enter the industry of tomorrow which would be extremely challenging and volatile and to handle volatility an organization has to be Lean for Leadership."

The session concluded with the thoughts that the country's policy of 'Make in India' will be successful if global quality standards are maintained, are cost effective with minimal wastage so as to maintain 'Zero Defect, Zero Effect'. ITM University proactively prepares its students for leadership roles so as to benefit from the myriad of opportunities that will soon be available to them as they graduate as highly competent skilled professionals ready to meet national needs and international standards.

Visit of ASQ team to GMR at Delhi Airport



A contingent of 25 students, led by the Director, School of Engineering and Technology, Prof. Ravindra Ojha visited the GMR office of Delhi International Airport Limited (DIAL) on 21 February 2015 to witness the 'Journey of Excellence' of the Delhi

International Airport. The purpose of the visit, organized by the American Society of Quality (ASQ), was to learn and witness the various quality control measures being employed by DIAL, which led it to be ranked No. 1 airport in the world.

The contingent comprised students and members of faculty from all the three schools of the University. The students interacted with Mr Sushil Joshi (Head-HR), Mr Dinesh Bhurshundi (Chief Quality Officer) and other officials and were taken around the premises. They learned about an innovative and highly efficient and effective practice, 'Disha' which had been a programme and vision through which the employees associated with the Delhi International Airport were introduced to the concepts of Kaizen, 5S etc. to bring in the wave of change. The contingent also visited the Airport Operation Control Centre (AOCC), from where the officials supervise and manage every minute operation at the airport.

IIT Roorkee confers Lifetime Achievement Award on Prof. Prem Vrat



Prof. Prem Vrat
Pro-Chancellor and
Prof. of Eminence

With immense pride, we wish to inform you that Indian Institute of Technology, Roorkee has conferred the Lifetime Achievement Award to Prof. Prem Vrat, Pro-Chancellor, ITM University. The award was presented to Prof. Prem Vrat at XVIII Annual International Conference of SOM at DoMS, IIT Roorkee, held on 13 December 2014. The award has been conferred in recognition of Prof. Prem Vrat's admirable contributions to the education, extensive experience and renowned accomplishments in the academic community. Besides holding many prestigious posts in different institutions, Prof. Vrat had also been Director IIT Roorkee. He carries a legacy of numerous awards and recognitions including Uttaranchal Ratan Award, Lillian Gilbreth Award, SSI Gold Medal and many more.



ASQ Ishikawa Medal conferred on Prof. Manu Vora



Dr Manu K Vora
Hon Adjunct Professor
ITM University

The University shares with great pride that our Honorary Adjunct Professor, Dr Manu Vora has been nominated as the recipient of the 2015 American Society for Quality (ASQ) Ishikawa Medal for Human Aspects of

Quality, to be presented at the ASQ World Conference on Quality and Improvement in Nashville, Tennessee on 3 May 2015. The Medal is being awarded to Dr Vora for his extraordinary commitment to teams in corporate, academic, professional, and philanthropic domains; for his teaching, publishing, and presenting human aspects of quality; for integrating quality management in social responsibility area; for diffusing quality into the Indian Society through education.

The ASQ Ishikawa Medal will be the 5th medal conferred on Dr Vora by ASQ. He has been a recipient of medals for Grant for Education, Lancaster for International

Quality Work, Distinguished Service Medal for Lifetime of Service to ASQ, and Hutchens for Social Responsibility. Dr Manu Vora is currently Chairman and President of Business Excellence, Inc., a global quality management consulting service firm.

Earlier, in November 2014, Dr Vora was presented the prestigious Harrington/Ishikawa Medal for 2014 from the Asia Pacific Quality Organization (APQO) at the 20th Asia Pacific Quality Conference in Kuala Lumpur, Malaysia.



Prof. PK Swamee
Distinguished Professor
Emeritus

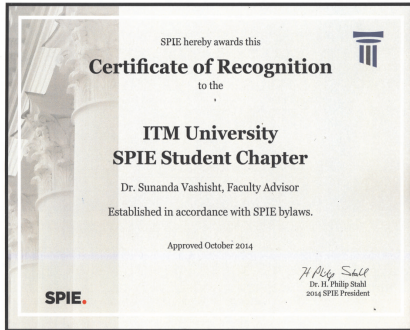
A 'Llyn Tegid sluice gate calculator' has been developed based on the equations derived by our Distinguished Professor Emeritus, Prof. PK Swamee in his research paper, 'Sluice Gate Discharge Equations', published in Journal of Irrigation and Drain Engineering (ASCE, 1992). The details of the calculator can be accessed at <http://thaaquatic.info/sleweeTegid.html>

Intellectual Capital 2015 published



The second edition of the University's special publication, 'Intellectual Capital' was published providing an overview to the University's rich repository of academic and thought leadership. The coffee table book provides an insight into the intellectual and academic assets of the University.

Certificate of Recognition from SPIE



SPIE (International Society of Optics and Photonics) awarded the Certificate of Recognition to ITM University. The SPIE Student Chapter of ITM University was inaugurated in November 2014. Dr Sunanda Vashisht, Assistant Professor, Dept of Applied Sciences, is the Faculty Advisor for the SPIE Student Chapter. SPIE is an international society advancing an interdisciplinary approach to the science and application of light. It provides funds in support of education and outreach programmes. It promotes information exchange among organizations in optics, photonics, and related technologies.

Initiative for Interaction of University Students with Overseas Faculty

A step towards the betterment and exposure of our students to interact with faculty from across the world is being taken by our University. A team of globally renowned and expert speakers will be invited to guide the University students. As a first step, an introductory session by Mert, Germany via skype on Unity3D was conducted and coordinated by Ms Kavita Choudhary and Ms Shilpa Mahajan, Department of CSE& IT. Mert has worked on virtual reality and interactive media installations.

ITM University becomes member of CSI

We are proud to announce that ITM University has now become an Education Institution Member of Computer Society of India (CSI).

The 'Computer Society of India' is one of the leading technical societies of India that aims at spreading awareness and knowledge about computing by conducting seminars, workshops, industrial research and development activities etc. It conducts continuing education and professional development programmes for a focused audience of budding professionals, researchers and students of IT. CSI also extends funding support for research projects as well as funds for visits of researchers presenting papers at international conferences. It facilitates industry-academia interaction through CIO meets, Professors' meets etc. and presents awards to recognize achievements in the ICT domain.

In order to channelize the tremendous potential of students, CSI has more than 30,000 members in 65 chapters and 183 student branches spread over different colleges and institutions of the country. For the benefit of its student members,



the chapters organize technical meetings, product presentations, exhibitions, film and video shows and host regional, divisional, national and international events along with the sponsoring agencies.

The CSI-ITMU student Chapter presently has 81 students and 3 faculty members. As a curtain raiser, it organized a well attended National Workshop on Big Data Analytics and Data Mining Tools on 20 and 21 February 2015.

Conclave on Sports Policy 2015 - Role of Universities

Prof. Ravindra Ojha, Director SOET, attended a meeting with Hon'ble Sports Minister, Haryana, Shri Anil Vij on 23 December 2014, in Chandigarh. The meeting, attended by Vice-Chancellors and Directors from different universities across Haryana, was called to elicit views prior to formulation of the Sports Policy 2015. During the meeting, following points were stressed:

- Each university should focus on one sport for excellence.
- The university should conduct inter-

university tournament in that discipline.

- Focus should be given on mind related games.
- Yoga classes and mass running activities should be encouraged.
- Summer coaching should be organised.
- Policy regarding gender bias in sports should be designed.

University participates in Beti Bachao-Beti Padhao Campaign



Twinkle Sharma
BTech (IT) 4th year



Karan Wadhwan
BTech (IT) 4th year

ITM University, Gurgaon participated in the National Campaign 'Beti Bachao-Beti Padhao' (Save girl child-Educate girl child) organized by Haryana State Govt., held in Panipat, Haryana on 21 and 22 January 2015.

An Android application 'Be Safe Girls!!!', developed by Ms Twinkle Sharma along with Mr Karan Wadhwan, final year students of BTech (IT) under the guidance of Ms Sujata, Asst Professor was selected for this national programme. Ms Saakshi Bhatia, final year student of BTech (IT) presented this application at the event at Panipat. The project was exhibited under

the Haryana Technical Department section and was appreciated by the visitors. The Android application is helpful to girls in emergency situations. It helps a girl to inform the concerned people through a text message with the press of a button by sending the precise location of the device. It would be available to the users once it is operationalized. According to the development team, this app consumes the least memory space (less than 1 MB). Interface of the application is more focused towards simplicity for better efficiency and effectiveness.

Faculty Development Programme on NBA & Outcome Based Education (OBE)

A one day faculty development programme was organized on 24 December 2014 to understand the outcome based education model for accreditation of the courses by NBA in order to impact knowledge in the following areas:

- CDIO (Conceive-Design-Implement-Operate) approach for teaching learning which is the basis of Outcome Based Education Model.
- OBE practices to establish Programme Educational Objectives (PEOs) and Programme Objectives (POs) from Mission/Vision of Universities.
- Mapping objectives to curriculum, teaching learning, examinations etc.



FDP on NBA & Outcome Based Education

- Measuring the effectiveness of processes involved in achieving Programme Educational Objectives (PEOs).

The FDP was conducted by Dr Latika Singh, HOD, CSE/IT and her team.

Superannuation of Prof. BC Nakra



Prof. BC Nakra superannuated from the post of Distinguished Professor Emeritus, ITM University. During his tenure Prof. Nakra guided the University in its growth and success. Speaking of the occasion of farewell to Prof. Nakra, the Registrar Col. Bikram Mohanty (Retd.) praised his immense contribution in the development of the University, right from its inception. The University wishes him good luck, good health and success in his future endeavours.

Certificate Course on Communication Skills



Rekha Mathur
Sr Copy Editor

Rekha Mathur, Sr Copy Editor, successfully completed the Certificate Course on Communication Skills conducted by NITTTR, Chandigarh, in ITM University from 23- 27 June 2014.

n+i Seminar



The French Universities network, 'n+i' Engineering, organized an education seminar at the University on 4 February 2015. 'n+i' Engineering network is a consortium of over 70 French Grandes Ecoles (elite engineering institutes) and is the largest network in France. It has an ongoing collaboration with ITM University in the area of students' mobility and research programmes. The seminar was conducted to give information about studying in different French Engineering institutes, how to get a

scholarship and information about the institutions best suited to meet our student's career aspirations. There were presentations covering information about different streams of engineering. The seminar also covered expert advice on admissions, scholarship and funding advice, and guidance on entrance exam and interviews. Another resourceful presentation was given on Engineering Master's Programmes by Ms G Malhotra, India Coordinator -'n+i' Engineering Programmes, which covered various scholarships options available for the

students. The presentation was followed by question-answer session by aspiring students. The University looks forward to having a synergetic cooperation with the leading universities of France.



Special Lecture Series

Special Lecture on Value Education



A Special Guest Lecture as a part of the Saturday Lecture Series initiated by our Vice-Chancellor, was held on 6 September 2014. It was delivered by **Mr Karnal Singh, IPS, Special Director, Enforcement Directorate, New Delhi**. The topic of his lecture was '**Value Education**'. Mr Karnal Singh quoted extensively from the ancient Indian scriptures and narrated anecdotes to illustrate how important it is to choose your values in life and the role values play in bringing out the best in man. He said that values never remain constant, but keep changing according to the situation

and circumstances. New values are added all the time. To illustrate his point, he showed short video films, which effectively explained the point.

He recounted incidents from his personal life to illustrate that if one has values and sticks to them, he will emerge victorious in the long run. Mr Karnal Singh is a 1984 batch IPS officer, who has an excellent academic record and also has exemplary professional achievements to his credit. He was awarded the Police Medal for Meritorious Service on Independence Day, in 2002.

Special Lecture by Prof. Peter Smith

Prof. Peter Smith, Vice President (Academic), McMaster University, Canada was invited to deliver special lectures on '**McMaster's teaching and research**' and '**Your World is Getting Smaller**' to our faculty and students, on 19 and 20 January 2015. The students of EECE, CSE and MBA benefitted from his experience and expertise. He also interacted with the HoDs, DoSs and top management of the University and discussed on the possibilities of future associations between ITM University and McMaster University. Prof. Smith has also accepted to join ITM University as an Honorary Distinguished Professor in the Department of EECE.



Special Lecture by Dr Puneet Agarwal

Dr Puneet Agarwal, Principal Consultant & Head of Unit – Neurology Department at Max Super Specialty Hospital Saket, New Delhi visited the University on 3 January 2015 to deliver a special lecture to our faculty members on the topic '**Signal Processing Techniques in Brain Wave Signal Analysis**'. Dr Agarwal explained the structure of brain and the different parts responsible for different types of functioning. He explained that human brain has evolved through various stages since the evolution of mankind and only about 4-5% of the brain is utilized. He



also explained about the various chemicals utilized by brain for processing different types of signals. With the help of videos and presentations, he made it clear to the audience that visual impulses dominate over the functioning of brain. A visual scene of more than 3 seconds tends to remain in the memory. Dr Agarwal also described how the nerves of brain work and process the signals they receive. The lecture was attended by all faculty members and helped the audience understand the signal processing techniques inside human brain in a lucid manner.

Special Lecture on Signal Representation and Decomposition

A special lecture on '**Signal Representation and Decomposition**' by **Prof. SD Joshi, IIT Delhi** was organized on 3 January 2015. During the lecture to the faculty members of the University, Dr Joshi explained the topics related to signal compression, pattern matching, signal decomposition and denoising. He also gave an overview of the AR (autoregressive) and ARMA (autoregressive moving average) models used in statistics and signal processing. Analysing some cases, he explained how wavelet settings are represented and wavelets are matched for processing.



The lecture was attended by large number of faculty members of the University.

Special Lecture-cum-Interaction



A special lecture on '**Linking Education to Change, Entrepreneurship and Innovation**' by **Mr Vivek Singhal (Ex-IITD)**, followed by an interactive session with the HoDs and faculty members of the University, was organized on 3 January 2015. The faculty members were enthralled by the insights of the speaker. Mr Vivek Singhal is a Certified Management Consultant (CMC), Certified Professional Consultant to Management (CPCM) and founder of a management advisory firm, Strategic Business Management (SBM) Co., USA. He is also a founding member of a nonprofit organization, India Development Coalition of America (IDCA). He later offered to conduct two-day workshop on entrepreneurship for ITM University students. Prof. AK Yadav coordinated the lecture-cum-interaction programme.

Special Lecture on Holography by Prof. Kehar Singh



SPIE (An International Society of Optics and Photonics) is an international society advancing an interdisciplinary approach in the field of Science and application of light. The SPIE student chapter of ITM University

organized an interactive session on **Holography** conducted by **Prof. Kehar Singh (Fellow member SPIE)** on 13 February 2015.

Prof. Singh explained the basic holography concepts to the students. He

further explained about what holograms are and how they are made. The SPIE student chapter at ITMU plans to continue this series and bring up more demonstrations on the subject.

The event was graced by presence of the Pro-Chancellor, Prof. Prem Vrat and the Vice-Chancellor, Prof. BS Panwar. The event was coordinated by Dr Sunanda Vashisth, faculty advisor SPIE student chapter ITMU and Mr Prabhat Sharma, faculty coordinator SPIE student chapter ITMU. The session was attended by about 50 students along with the faculty members of Dept of APS and ECE.

School of Engineering and Technology

Department of Electrical, Electronics and Communication Engineering

Departmental Activities

- A research seminar on 'Multi-Modal Hand-Based Biometric System Using Multi-Resolution Hybrid Wavelets' was conducted by Dr Rekha Vig on 20 September 2014. A hand-based multimodal biometric system using fingerprints, palm-prints and finger-knuckle prints was explained where the features of each of the biometrics are extracted using a new multi-resolution hybrid wavelet which can be operated on images of any shape and size. These wavelets are generated by combining two or more existing orthogonal transforms and are orthogonal. These wavelets can be further used in various applications like biomedical image analysis and compression, satellite image analysis, speech signal processing etc.
- A Value Added Programme on 'Linux for Beginners and Building Applications with Embedded C' was organized by Ms Vandana

Khanna and Mr Nitin Garg for the students of ECE and EEE 3rd semester for five days in October and November 2014. These programmes were conducted in the form of hands-on workshops by industry experts. Students learned about the hardware-software interface which will help them to comfortably adapt to the EDA, Embedded, VLSI and related industries which require strong Embedded C skills.

- A Value Added Programme on Java was organized by Ms Vandana Khanna and Mr Nitin Garg for the students of ECE & EEE 5th semester



Value Added Programme on Java

for five days in October and November 2014. The students were introduced to basic building blocks of Java (classes and methods) and basic syntax. They built some interesting programs utilizing concepts of OOPs (multiple inheritance, constructors, method overloading and over-riding) with classes, objects and methods.

- A Value Added Programme on 'Basic Computer Skills' was organized by the Department for students of ECE and EE 1st semester on 9 and 10 December 2014. The programme covered computer hardware assembly, LAN setup concepts followed by sessions on HTML and MS-Office. The programme was conducted by CSE Department in the form of lectures and lab sessions to fully understand the concepts. Ms Vandana Khanna and Mr Nitin Garg coordinated the event.

Guest Lectures

- A guest lecture on 'Challenges & Recommendations for Custom Layouts at 20nm Process' by Mr Animesh Tanwar was organized on 20 September 2014. Mr Animesh Tanwar is Sr Design Engineer at Cadence Design System, Noida. The topics covered in the lecture included features of Virtuoso advanced tool, micron rules for layout design and OrCAD EDA tool. [ECE2014G017]
- A guest lecture on 'Front End Mixed Signal Design' by Mr Pulkit Bhatnagar, Sr Design Engineer, ST Microelectronics, Gr Noida was organized on 20 September 2014. Mr Bhatnagar delivered an edifying lecture covering topics on mixed signal designing: digital design flow,

The Department organized a guest lecture on 'OOPs & Randomization in System Verilog Verification' on 19 September 2014 by Ms Deepika Ahlawat, VLSI Design Engineer, Xinoe Systems (P) Ltd., Gurgaon. In the lecture, Ms Ahlawat covered the topics on basics of OOPs- static and global variables, ref declaration, class methods, object and handles, copying objects and public vs local. [ECE2014G016]



Ms Deepika Ahlawat with faculty of EECE Department

libraries, types of views (back end view, front end view, behaviour view), textual representation. [ECE2014G018]

- A guest lecture on 'Digital IP Nextgen Converged Ubiquitous (DINCU) Network for mobile back haul and Transmission' by Col. Mukesh Khera, President, IBF was organized on 24 September 2014. In the lecture, Col. Khera covered the topics on call flow, network for mobile back haul and transmission, high speed Internet etc. [ECE2014G014]

- A guest lecture was organized for EEE (3rd, 5th and 7th) students on 'HVDC Transmission Systems' by Mr SK Shrivastava, Senior Manager at Bharat Heavy Electricals Limited (BHEL), Noida on 27 October 2014, where the students were introduced to current scenario and recent trends in HVDC transmission systems. Mr Shrivastava has more than 15 years experience in EHV Substation, HVDC Transmission systems, Shunt and series compensation systems. Mr Gian Chandra, Ms Jyothi Varanasi, Ms

Shaifali Jain and Ms Sheila Mahapatra coordinated the event. [ECE2014G015]

- Dr Neeraj Kumar Shukla along with MTech VLSI Design students, Mr Rajesh Yadav and Ms Mahak Chawla, coordinated a one day training programme on 'An Introduction to SC Industry & Preparing for Technical Interview', for the 2nd and 4th semester students of MTech. The training was conducted by Mr Pulkit Bhatnagar, Sr Design Engineer, ST Microelectronics, Noida. [ECE2015G001]

Workshops Organized

- A one-day workshop on 'Latest Technologies used in Industrial Automation: PLC' was conducted by the experts from Prolific Systems & Tech. Pvt. Ltd on 2 September 2014. The aim of the workshop was to give exposure to our students on automation projects using different PLC kits and their programming software. The architecture of different types of PLC and their programming



Students attending workshop on PLC

software was discussed. The workshop, attended by 20 students, included hands-on sessions and practical implementations. Ms Naresh Kumari, Ms Shaveta Arora and Mr Pradeep Rohilla coordinated the workshop. [ECE2014W012]

- The Department organized a one-day workshop 'Basics of Matlab' under e-club for EECE students on 29 September 2014. The participants had hands-on experience on Matlab covering basic Matrix operations, 2D plotting, 3D plotting, logical functions etc.

A workshop on Industry Automation-PLC and SCADA was organized on 21 February 2015 by the Department under Continuous Education Programme (CEP) of the University. The workshop was conducted by SOFCON, a NSDC, Ministry of Finance, Govt. of India affiliated and funded company and a channel partner of Schneider Electric of France, an ISO 9001-2008 certified Company dealing with design, assembling, installation, supply and servicing of automation Systems.

The workshop was helpful in providing knowledge of industry automation of Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA). It included an introduction to automation, its role in the industry, types of automation, applications to SCADA, features of SCADA, licensing concept, introduction to PLC, introduction to programming software, programme uploading/downloading, and communication between PLC and SCADA. Designing industrial processes with various components of SCADA and PLC along with coding and programming and knowledge of hardware details and interfacing were also discussed.

Faculty members of the Department along with students of ECE, EEE and Mechanical branches of the BTech programme attended the workshop. [ECE2015E001]



Workshop on PLC and SCADA in progress

- A one-day workshop on 'How to write research paper and its implementation using Matlab' was organized under e-club, for EECE MTech First year students on 29 September 2014. The participants learnt about how to write a research paper, its implementation in

Matlab, basics of image processing, cryptography and checking plagiarism of paper. The workshop was coordinated by Ms Anita Sharma, Mr Pankaj Rakheja and Ms Rekha Vig. [ECE2014W014]

Workshops Attended

- Dr Neeraj Kumar Shukla attended a workshop on Virtual labs organized by Ministry of Human Resource Development under National Mission on Education through ICT at Bharti School of telecom IIT Delhi on 6 September 2014. [ECE2014A020]
- Ms Anjali Garg attended a seminar 'Dassault systemes 3D experience forum 2014' held on 10 September 2014 at The Leela, Gurgaon. The agenda for academia session included software details of Dessault Systems, followed by students' innovative projects using the software. The seminar also highlighted the real time projects based on Electronics and Mechanical engineering using the software and its applications in other diverse field. [ECE2014A021]
- Mr JP Shivhare and Mr Prabhat Kumar Sharma participated in IEEE Volunteer Training workshop on 19 January 2015 held at Hyat Regency, New Delhi. The workshop was organized by IEEE HQ (USA). [ECE2015A001]

Industrial Visits

- An industrial visit to National Physical Laboratory, Delhi was organized for 3rd and 5th sem students of EEE & ECE on 30 September 2014. During this educational tour, the students got an opportunity to visit various facilities/ labs, such as Quantum physics, engineering materials, electronic materials, nanoscience/nanotechnology, energy harvesting, surface science, thin films, material characterization, radio and atmospheric sciences, global change, environmental science, superconductivity, low temperature physics etc. The visit was coordinated by Mr JP Shivhare. [ECE2014V019]
- The Department organized an industrial visit to Sahasra Electronics Plant, NSEZ, Phase II, Noida for 3rd and 5th sem students of ECE & EEE, on 7 October 2014. The students got an exposure to core elements of electronic industries and EMS, PCB Design, LED, Solar Tech. The visit was coordinated by Mr JP Shivhare. [ECE2014V020]
- The Department organized an industrial visit to 66 KV Grid

Substation at sector 23A, Gurgaon for 3rd sem ECE students on 26 September 2014. The students got a live exposure to distribution transformer, current transformer, potential transformer, lighting arrester, circuit breaker and capacitor bank. The visit was coordinated by Ms Naresh Kumari, Mr Gian Chandra and Mr Bipin Sharma. [ECE2014V021]

- An industrial visit to DMRC-Shastri Park was organized by the Department on 13 February 2015 for EEE 6th semester and EEE 4th semester students. The students visited two sections of DMRC: Operation Control Centre (OCC) and Station Control Room (SCR). In OCC, they learned about various components of SCADA system like RTU, converters, data cards, traction power control, transmitting and receiving substation (TSS and RSS), feeding poles, transducers etc. and the control of metro trains, their tracks and timings etc. In SCR, they learned about chiller plant, DG sets, relays, circuit breakers, UPS system for power backup in case of power failure. The visit was coordinated by Ms Anjali Garg, Ms Sheila Mahapatra and Dr Nitin Malik. [ECE2015V001]

Department of Computer Science and Engineering & Information Technology

Departmental Activities

TCS Mock Test

The Department organized a mock test for BTech final year students on 20 September 2014, to provide them the real environment of TCS placement. Various aptitude questions on the basis of TCS pattern were covered in the mock test. A large number of students appeared in the exam. Ms Sonal Tuteja, Ms Nisha Kharb and Mr Mohammad Islam with the support and guidance of Dr Latika Singh coordinated the event.



Mock Test in progress

- The Department organized a three day Value Added Course on 'Web development using PHP' on 14, 16 and 17 October 2014, for BTech 3rd sem CSE&IT students, to help students to be industry competent. The course was conducted with efforts of the faculty members (Ms Aman Jatain, Ms Geetika Munjal, Mr Sandeep Singh and Ms Suman Lata Gautam) and 5th sem CSE students (Mr Abhinav, Mr Akshay, Mr Keshav, Mr Shagun and Mr Sahil).
- The Department launched an intranet-based project, 'ITMU-Connect' on 12 January 2015. This release includes HR module and experience and publication related data in Faculty module in the first

phase. This intranet feature can be used for various purposes including searching faculty profile, appraisal system, online project submission, approval process and data/documentation required for NAAC/NBA/UGC from time to time. The team for this intranet-based project comprises the Vice-Chancellor, Prof. BS Panwar, Director SOET, Prof. Ravindra Ojha, HoD CSE&IT, Dr Latika Singh, faculty members and technical staff of the Department, along with some students.

- Prof. Karmeshu, our Faculty Mentor from Jawaharlal Nehru University, New Delhi visited the Department on 4 November 2014 and 27 January 2015 to mentor PhD students of the Department. He individually discussed about teaching learning processes with the mentees. He also had discussions with Dr Latika Singh, HoD regarding the latest research in the area of cryptography.
- The Department organized an ICT-based Short Term Course on 'Cyber Crime and Forensic Tools' scheduled from 1 – 5 December 2014. The course, conducted by the Computer Science Department of NITTTR, Chandigarh, focused on the concepts like malware analysis, open source Helix tool, OS forensics etc. It also included practical sessions on web security. The event was coordinated by Ms Jyotika Pruthi, Ms Poonam Sharma and Mr Satish Kumar. [CSE2014W008]

Guest Lectures

- A guest lecture on 'New Technology Revolution in Telecom Industry: SDN / NFV' (one of the topics amongst 23 technologies given in IEEE Computer Society 2012 Report) by Mr Bhartendu Chaurasia, Senior Manager, Ericsson India was organized on 14 October 2014 for students of 3rd year. The lecture was highly interactive and inspiring for the students and introduced them with new era in networking that will change the fundamental activity from

With the arrival of the new semester, the Department organized AdClass Programme in the University under Google Students' Club from 15 January to 26 February 2015. The six session course, conducted by Palash Chhabra, Google Students Ambassador, aims to introduce students to Online Marketing using Google's platform – Adwords, AdSense, AdMob, Analytics and more. This avenue would help students train and participate in the Google Online Marketing Challenge and also, get certified by Google becoming Adwords Certified Individual. The programme will also expose them to Google workshops and internship offers. The event is being coordinated by Google Students' Club members along with faculty members, Ms Jyotika Pruthi and Ms Rita Chhikara.



Palash Chhabra conducting AdClass Programme

The Google Students' Club organized a seminar on Digital Marketing for Entrepreneurs and Design Thinking on 20 October 2014 in collaboration with Bequrio. The seminar aimed at evolving new ideas, where the participants learnt the



concept of design thinking and developing prototypes for their ideas, marketing them and giving the shape of a business model to it. The seminar was conducted by the GSA, Bequrio Head Coach Mrs Tanya Sarin along with a distinguished panel of judges who grilled and inspired the students who presented their business ideas. The judges panel consisted of Mr Manas Arora, Manager, Ernst & Young; Mr Rahul Abrol, Associate Vice President, Maxlife; Ms Smriti Chandra, Entrepreneur & Coach, Passion Wheel; Ms Ishita Sud, Founder and Creative Director, Creative Pulp Design and Ms Jaya Prasad, Founder, Idea Sugar. [CSE2014W007]

configuring the network to programming. The speaker also facilitated the student with career-oriented talk in telecom industry. This event was coordinated by Ms Sumanlata Gautam.

- Prof. Meena Kumari delivered a talk on 'Motivational Strategy' for CSE/IT faculty on 20 September

2014, in which she highlighted the importance of being a good researcher and how one can be better at research. In addition, her thoughts on how to be a better teacher also proved to be really motivating for all the faculty members.

The Alumni Cell of Department of Computer Science is dedicated to promote unity and networking between alumni and their alma mater. The Cell has launched Alumni Mentorship Programme, through which students have access to the network of alumni who are eager to help and share their wisdom and experience. In this connection, a guest lecture by Pranav Bhardwaj, alumni 2010 batch, on 'Organizational Ethics' was organized on 13 February 2015. Mr Bhardwaj shared his knowledge and experience with students, and motivated them to stay focused and work hard. A Logo Design Competition was also organized to get a symbol that would represent the cell and its vision. The Alumni Cell is working under the coordination of Ms Jyotsna Singh along with Ms Supriya Raheja and Mr Vijay Budakoti.



The Department organized a guest lecture on 'Quality management in Software Projects' by Mr Deepak Srivastava, Senior Project Manager, Aricent Technologies on 14 November 2014 for 3rd year CSE/IT students. Mr Srivastava introduced the students with latest technological advances in quality assurance of software projects in industry. He also helped the students with a career-oriented talk in the software industry. The event was coordinated by Mr Anil K Mishra, Ms Sumanlata Gautam, Ms Aman Jatain and Ms Prachi Ahlawat.



The Department organized a guest lecture on 'Technology Unleashed - Software Project Development using Internet of Things and Gestures' by Mr Devender Pal Khari, CEO & Director, Business Development, DKOP Labs, Noida on 16 February 2015, for the students of BTech 7th semester. Mr Khari holds an experience of 6 years as an entrepreneur and over 10 years in the software industry. Mr Khari also plans to conduct online coding contest for students of BTech. Ms Jyotika Pruthi and Ms Neha Sahu coordinated the event.



Workshop Organized

The Department conducted a National Workshop on Big Data Analytics and Data Mining Tools on 20 and 21 February 2015 in association with Computer Society of India. The workshop covered Big Data as an encompassing term for collection of large and complex datasets. It covered the challenges including analysis, capture, curation, search, sharing, storage, visualization, and privacy violations. The workshop was attended by participants from various institutes across Delhi-NCR including GD Goenka, Amity, Delhi Technological University, Manav Rachna International University, etc. The members of organizing committee were Dr Deepti Gaur, Ms Rita Chhikara, Ms Niharika, Ms Meghna Sharma, Ms Geetika and Mr Gaurav Aggarwal. [CSE2015W001]



Faculty Development Programme

- The Department organized a short term FDP course on Web Technologies from 2 to 6 February 2015 in which sessions were conducted by NITTTR Chandigarh through web conferencing with a view to propagate ICT skills among the faculty members through Induction Training Programmes in order to improve quality of technical education. The course covered the HTML framework, JQuery, Dreamweaver for webpage designing, cookies and session management and introduction to PHP. [CSE2015A002]

The Department is pleased to share that it has received the letter of renewal of its collaboration with NITTTR, Chandigarh for the year 2015 which has been offering faculty training programmes in a wide variety of areas. The coordinator for the web courses is Dr Latika Singh, HOD along with local coordinator, Ms Jyotika Pruthi, Assistant Professor.

Industry Visits

- Dr Latika Singh, Mr Anil Kumar Mishra and Ms Sumanlata Gautam visited Aricent Technologies, Gurgaon on 24 September 2014. The main motive of the visit was to understand and update themselves with the current technologies and projects which will be useful for students and exchange ideas for establishing a healthy relationship which in turn can help in internships and placements. [CSE2014II006]
- Dr Latika Singh, Mr Anil Kumar Mishra, Ms Aman Jatain, Ms Shilpa Mahajan and Mr Gaurav Aggarwal from CSE/IT Department visited MTS, Udyog Vihar, Gurgaon on 10 October 2014. They had interactive session with Mr Kapil Gupta, Head IT and Mr Shubhendu Dutta, Head, Governance, Information Security and Alliances Department. They got themselves updated with the latest industrial

trends and technologies. They had discussions regarding the innovative project ideas for BTech/MTech students. [CSE2014II007]

- Dr Latika Singh, Dr Supriya Panda and Ms Kavita Choudhary from the Department along with 5 members from other departments attended a workshop on 'Outcome based education'(OBE) at JSS Academy Noida, which is a Nodal Centre authorized by NBA for conducting such trainings, from 27-29 November 2014. The participants became skilled at applying PDCA (Plan-Do-Check-Act) at various levels of Outcome Based Education.

- Ms Shilpa Mahajan and Ms Hitesh Yadav visited Viz Expert Pvt. Ltd., New Delhi on 31 January 2015 with a group of 12 students and interacted with Mr Vaibhav, Application Manager, Viz Expert. The students took a tour of the 3-D Visualization Lab and learned about computer graphics and its trends. They were shown a Tracking HDM (Head Mounted Display) and other tools, like graphical display table developed by Viz Expert. They also learned about motion sensor devices and neuro devices used in various applications. [CSE2015IV001]

- Dr Latika Singh, Ms Niharika Garg and Mr Anil Kumar Mishra visited Simplion Technologies, Gurgaon on 27 January 2015 for an interaction with Mr Narinder Kamra, Head, Delivery and Competency, on BTech projects guidance and collaboration with ITM University. [CSE2015II001]

- Ms Neha Sahu and Ms Jyotika Pruthi visited HCL Technologies, Manesar on 21 February 2015 with 15 students where they were shown insights of Business Analytics Services including Enterprise Information Management. The students learned the concept of e-commerce and Omni Channel integration and testing that HCL follows. [CSE2015IV002]

- Dr Latika Singh, Mr Anil Kumar

Mishra and Ms Neeti Kashyap visited Nokia Networks, Gurgaon on 13 February 2015. They had an interactive session with the Solution Architects, Mr Vinay Sharma and Mr Ashish Rai. The motive of the visit was to understand and update themselves with the current technologies and identify projects which will be useful for students. [CSE2015II002]

- An industrial visit to Caparo Maruti limited Gurgaon was organized for students of BTech (CSE/IT) on 9 December 2014. The students had a tour of the manufacturing unit and got a demonstration on Robotic arms utilization in the car manufacturing sector. They later got to know about the SAP module being used in company and their benefits in streamlining the overall process. The students also had interactions with Mr Satish Kumar Dayma (Senior Executive-HR), Mr Dinesh and Mr Sanjay Yadav (DGM- Operations). Ms Hitesh and Ms Neeti Kashyap coordinated the visit.

Faculty Activities

- Ms Sujata has been invited to serve as a designated reviewer on the Technical Programme Committee for the IEEE International Conference on Signal Processing, Informatics, Communication and Energy Systems 2015 (IEEE SPICES 2015). The conference will be held in National Institute of Technology, Kozhikode (Calicut), Kerala during 19-21 February 2015.

She has also been invited as the Speaker of Module 8: High-Ended Software Engineering for the upcoming BIT's 4th Annual World Congress of Emerging InfoTech-2015, which will be held at Shenzhen Convention & Exhibition Center, China from 18-20 April 2015. InfoTech-2015 aims to strengthen the technical and business ties in Information Technology industries, to bring together experts and industry

leaders to share technological advancements and business experiences.

- ❑ Mr Mohammad Islam and Ms Jyotika Pruthi attended a National Symposium on 'Artificial Intelligence: Applications in Medical Science' in AIIMS, New Delhi from 23-24 August 2014 which included the talks by faculty from IIT Kanpur, ISI Kolkata and renowned doctors of AIIMS. They showed the various techniques of blending computer science with medical science. [CSE2014A018]
- ❑ Ms Jyotika Pruthi, represented the Delhi Zone in the final round of South Asia Regional Finals, organized by Institution of Engineering and Technology, United Kingdom (IET UK) as one of the seven finalists. The event took place at IIT Delhi on 6 September and was judged by director of DMRC, professors of IIT Delhi and Director of Amity University, Noida. The rest of the finalists were from Mumbai, Pune, Kolkata, Chennai, Bangalore and Sri Lanka. The participant from Kolkata stood to be the winner of the event.

Ms Pruthi had earlier won the Present Around the World (PATW) competition for the Northern Region organized by IET, UK on 19 April 2014 to qualify for the Finals. [CSE2014A019]



Ms Jyotika Pruthi receiving award at PATW competition

- ❑ Ms Pruthi participated in the Drupal Camp Delhi 2015 at JNU, New Delhi from 10-11 January 2015. Drupal Camp is one of the

Mr Anil Kumar Mishra, Asst Professor, attended the HoD Meet 'Head Start 2014-North India' on 21 November 2014 at TCS Lucknow, on behalf of HoD, Dept of CSE&IT. Experts from TCS, IIT and IIM Lucknow delivered lectures on various technical topics including IT infrastructure services, mobility, cloud computing, software quality assurance, re-emphasizing learning focus and research scholar programmes.



Mr Anil Kumar Mishra during HoD Meet-Head Start 2014-North India

largest associations for the Drupal community in North India, and the most frequently held Drupal event across the country. It brings together the Drupal developer and business user community. The camp included a keynote by Megan Sanicki from Drupal USA which was followed up by Drupal Training Sessions.

- ❑ Ms Yogita Gigras submitted her PhD thesis in Banasthali University under the supervision of Dr Kusum Gupta on topic 'Application of Soft Computing in Robotic Domain' that covers the path planning problem which is a very critical issue in robotics, that has been solved using learning algorithms Particle Swarm Optimization, Ant Colony Optimization, Firefly Algorithm and Hybrid ACO-PSO.
- ❑ Ms Kavita Choudhary has been invited as a member of Technical Review Committee for INDIA-2015 Conference during 8-9 January, 2015. INDIA-2015 is the Second International Conference on Information System Design and Intelligent Applications, organized by faculty of engineering, technology and management, University of Kalyani, West Bengal. The proceedings will be published by Springer AISC series.
- ❑ Dr Deepti Gaur and Ms Aman

Jatain have been invited as reviewers by the Editor of 'Journal Applied Computing and Informatics' on behalf of King Saud University, Saudi Arabia. Journal of Applied Computing and Informatics aims to be disseminating leading-edge knowledge to researchers, practitioners and academics whose interest is in the latest developments in applied computing.

- ❑ Ms Mehak Khurana and Ms Ruby Yadav attended a three-day workshop from 17-19 November 2014 on 'Cyber security tools' at NITTTR Chandigarh. They got a hands-on experience of various forensic tools of cyber security.
- ❑ Dr Latika Singh and Dr Deepti Gaur have been invited as members of Technical Programme Committee for IACC2015, an IEEE International Conference-2015 to be held at BMS College of Engineering, Bangalore on 12-13 June 2015.
- ❑ Prof. Prabha Sharma's NPTEL video course on 'Probability Theory and its Applications', in association with IIT Kanpur, has become live on 21 November 2014.

Prof. Sharma has been invited as a speaker to present a paper in joint conferences 9th International Conference on Computer

Engineering and Applications (CEA '15); 14th International Conference on Software Engineering, Parallel and Distributed Systems (SEPADS '15); and 9th International Conference on Circuits, Systems, Signal and Telecommunications (CSST '15) to be held in Dubai, United Arab Emirates, from 22-24 February 2015.

Prof. Prabha Sharma has been elected as a member of the Central Council of the Operational Research Society of India for 2015 and 2016.

- Ms Rita Chhikara attended IEEE Technical Activities Volunteer Training Workshop on 19 January 2015, held at Hyatt Regency, Delhi. The workshop provided an insight to the IEEE vision and structure. The distinguished speakers from different universities across the globe explained the roles and processes of reviewing research papers.

She chaired a session for Track on Intelligent Systems in 6th International Conference on Intelligent Systems, Modelling and Simulation, organized by IEEE at Pacific Regency Hotel, Malaysia from 9 to 12 February 2015.

- Ms Jyotika Pruthi, Ms Sonal Tuteja, Ms Poonam Sharma and Ms Mehak Khurana attended the 3rd Security and Privacy Symposium at IIIT Delhi on 14 February 2015. The Symposium had invited talks of renowned speakers from international universities and industry, panel discussions, and poster presentations on various aspects of security and privacy issues. [CSE2015A004]

- Prof. Meena Kumari, as a special invitee, attended the 15th International Conference on Cryptology, INDOCRYPT 2014, along with Ms Mehak Khurana and Ms Ruby Yadav. The Conference was organized by SAG, DRDO, New Delhi from 14-17 December 2014 under the aegis of Cryptology Research Society of India.

- Dr Latika Singh, Dr Deepti Gaur, Dr Supriya Panda and Ms Rita Chhikara attended the Third International Conference on Big Data Analytics, 2014 held at IIT Delhi, from 21-23 December 2014.

- Ms Sujata and Ms Rita Chhikara have been promoted to Sr Assistant Professors.

Online courses on Data Science and Cyber Security

The following faculty members of CSE&IT Department successfully completed the professional development programmes of Coursera, an educational technology company offering Massive Open Online Courses (MOOCs):

- Dr Supriya Panda has taken a course, 'Regression Models' as she has keen interest in regression models due to their powerful nature for future predictions.
- To interpret vast amount of data and its utilization, Dr Deepti Gaur completed the course on 'Bio-informatics'.
- Ms Rita Chhikara was enrolled in the course, 'Practical Machine learning'.
- Ms Aman Jatain was enrolled and certified in 'Data Scientist Toolbox'.
- Ms Prachi, Ms Neha and Ms Sonal successfully completed 'Usable Security' course about trending issues in 'CyberSecurity'.
- Ms Sujata, Ms Shilpa, Ms Supriya, Ms Jyotsna, Ms Yogita, Ms Meghna, Ms Niharika, Ms Suman and Ms Geetika were certified in 'R Programming', enhancing their analytical programming abilities.



Department of Mechanical Engineering

Departmental Activities

Guest Lectures

- A guest lecture on 'Prospects of Automation for Mechanical Engineers' by Mr Sanyam Dixit, Cetpa Infotech Pvt. Ltd., Noida was organized for 3rd semester Mechanical engineering students on 12 November 2014, in which introduction of automation, its application areas in manufacturing and a brief overview of PLC SCADA were presented. The event was coordinated by Ms Neha Bhatia and Mr Anmol Bhatia. [MED2014G008]



- The Department organized a guest lecture on 'Empowerment through Enterprise' by Mr Ritesh Garg, founder and director of 'I For Nation Foundation', a non-profit organization, on 12 February 2015. Speaking on the topic, Mr Garg shared his experience on entrepreneurship and converting ideas into enterprise, with the students and faculty members. The event was coordinated by Mr Gagan Baradia. [MED2015G001]



Mr Ritesh Garg delivering a lecture on Empowerment through Enterprise

Alumni Interaction

The Department organized an interactive session with the alumni on the topic 'Prospective career opportunities in EPC companies for Mechanical Engineers'. The session was conducted by our alumni, Mr Nitin Gupta, Sr. Engineer, Samsung Engineering Private limited, Noida; Mr Abhishek Bhatia, Design Engineer, Daniel Fluor India Pvt Ltd; and Mr Kushal Kalra, Design Engineer, Daniel Fluor India Pvt Ltd on 15 November 2014.

The speakers presented an overview of EPC companies, role of piping in EPC companies and scope of mechanical engineers in these companies. The students got a platform to interact with their alumni and discuss professional issues. The session was coordinated by Mr Anmol Bhatia and Ms Neha Bhatia. [MED2014O006]



Session on Career opportunities in EPC companies

FDP/ Workshops Organized

- A two day workshop on 'Programming Logic Control' for students of ECE and Mechanical Engineering students was organized by Mr Pradeep Rohilla, Ms Naresh Kumari and Ms Shaveta Arora at M/s Mitsubishi Electric India Pvt Ltd, Gurgaon, on 29-30 September 2014. [MED2014W006]
- The Department organized a two day international workshop on 'Excellence in Teaching and Research' on 9-10 October 2014. The moderator for this workshop was Dr Rajendra Singh, Honorary Distinguished Professor, ITM University; Emeritus Professor,



Dr Rajendra Singh during the workshop on Excellence in Teaching and Research

Dept of Mechanical and Aerospace Engineering, Director, NSF I/UCRC Smart Vehicle Concepts Center, The Ohio State University, Columbus. The workshop was attended by 32 faculty members and 4 research scholars of the University. [MED2014W005]

- Prof. Ravindra Ojha, Director-SOET, organized an expert lecture on 'India in the emerging Asian century - The challenges and opportunities' by Dr Rajesh Chadha, Senior Fellow at the National Council of Applied Economic Research (NCAER) for the faculty members of the Department on 18 October 2014. [MED2014W007]
- An expert lecture on design software 'Inventor' by CAD experts from M/s Tikkoo Institute, Gurgaon was organized for the faculty members and technical staff of the Department on 22 October 2014. [MED2014W008]
- Mr Abhishek Tiwari from M/s Capricot Technologies Ltd., Gurgaon conducted the first session of Autodesk Inventor (Professional)



Autodesk Inventor training session in progress

on 15 November 2014 for 10 faculty members of the Department.

The second, third and fourth sessions of Autodesk Inventor (Professional) training were held on 2-3 December, 9 December 2014 and 2-3 January 2015, respectively.

[MED2014W009, MED2015W001]

Workshops Attended

- ❑ Mr Pradeep Rohilla participated in the one-day workshop on 'Latest Technologies used in Industrial Automation PLC for Electrical and Mechanical Systems' on 2 September 2014 at the University. He also attended a Faculty Development Programme on 'Communication Skills' organized by Dept of Applied Sciences on 20 September 2014. [MED2014A003, MED2014A006]
- ❑ Mr Ashwini Sharma attended five-day faculty development-cum-workshop, 'Faculty Enablement through Avant Garde Technology - FEAT 2014' at 3D PLM software, Pune from 1-5 September 2014. [MED2014A004]
- ❑ Mr Pradeep Rohilla, Mr Rohit Lather and Ms Shiv Manjaree attended a technical symposium on 'NI Graphical System Design Approach for latest technological trends in Industry' organized by National Instruments, New Delhi on 30 September 2014. [MED2014A005]
- ❑ Dr Abhinav Gupta, Mr Deepak Monga and Mr Devender Pathak along with students of the Department attended the International Conference 'VENTCONF 2014' on 14 November 2014, organized by ISHRAE at Manekshaw Centre, New Delhi. The theme of the conference was 'Energy Efficient Ventilation for Sustainable Development'. [MED2014A007]
- ❑ Prof. JK Gera attended the 12th International Conference on Renewable Energy on 8-9 December 2014 held at Manekshaw Centre, New Delhi. [MED2014A008]

Industry Interactions

- ❑ Prof. Ravindra Ojha and Mr Lalit Upadhayay visited Ms Federal Mogul Pvt. Ltd. on 24 September 2014 along with BTEch final year students. They had interactions with officials of the company regarding project related activities. [MED2014V017]
- ❑ Prof. Ravindra Ojha along with Mr Lalit Upadhayay of Mechanical Engineering Department visited M/s Federal Mogul Pvt. Ltd. on 11 December 2014 and 7 January 2015, to evaluate the projects of final year BTEch students. They had an interaction with the top management of the company regarding improving effectiveness of projects taken by the students in the company. The evaluation team suggested some valuable points and potential areas where students need to focus. [MED2014V018, MED2015V001]
- ❑ Prof. Ravindra Ojha and Mr Lalit Upadhayay visited M/s Federal Mogul Ltd. on 20 February 2015 to evaluate the progress of final year BTEch projects. Students made a presentation of their progress to the assessment team consisting of company representatives and University faculty members. [MED2015V005]
- ❑ Mr Ashwini Sharma and Mr Ashish Pareta organized an industrial visit to Jay Bharat Maruti, Gurgaon on 25 February 2015 for 2nd year students of Mechanical Engineering. During the visit, the students learned significance of inventory in a plant and saw the working of a manufacturing plant, sophisticated and specialized robotic processes and manual welding processes. [MED2015V004]

Award and Recognition

On 13 September 2014, Prof. Prem Vrat and Mr Lalit Upadhayay were given the 'Best case study award (non-traditional area)' by the National Council of Indian Institution of Industrial Engineering (IIIE) for their research paper 'Quality Paradox in Technical Education in India: An Empirical Study', published in Vol. VI, Issue No. 05 of Industrial Engineering Journal in May 2013. [MED2014O004]

Faculty Outreach Activities

- ❑ Ms Shiv Manjaree Gopaliya and Mr Deevesh Sharma, representing the Department, attended a 3 day training programme on 'Outcome Based Education' organized by JSS Academy of Technical Education (NBA Training Centre) at Noida from 27-29 November 2014.
 - ❑ Mr Ashwini Sharma visited Royal International, Jalandhar on 17 January 2015 to identify the projects of industrial needs. He also visited MIDAS Industries, Ambala on 17 January 2015 for the potential input to get practical know-how related to entrepreneurship for the students of the University. [MED2015V002]
- He also visited Taaran Industries, Ludhiana on 16 January 2015 to identify potential opportunities for the summer internship of BTEch 4th semester students. [MED2015V003]
- ❑ Mr Ashwini Sharma was appointed as the project evaluation expert to evaluate the professional projects, 'Automatic Potato Planter by Swan Industries' and 'Wood Router Machine by Joginder Electrical, Ludhiana' which have been funded by MSME. [MED2015O001]

Department of Civil and Environmental Engineering

Departmental Activities

Guest Lectures

- Under the initiative of Ms Purnima Bajpai, the Department organized a guest lecture on 'Design of flyovers in Delhi and their importance in the development of the country's infrastructure', on 15 September 2014 for the 5th Semester students. The lecture by Mr Sarvagya Kr Srivastava, Chief Engineer, Public



Mr Sarvagya Kr Srivastava delivering a lecture on 'Flyovers in Delhi'

Works Department, Govt. of Delhi, was highly inspiring for the students and helped them understand the technicalities of the construction of flyovers during the Commonwealth games. He also talked about some structural failures which occurred during that period. He guided the students for higher studies and preparation for engineering services examinations. [CEE2014G010]

- Prof. Radhey Sharma, Chairman, Dept of Civil and Environmental Engineering, West Virginia University, USA delivered a guest



Prof. Radhey Sharma delivering lecture on Geoengineering for infrastructure and energy

- lecture on 'Geoengineering for infrastructure and energy' to the 5th sem students on 1 October 2014. He presented the soil behaviour during soil failure and how geo-energy can be useful as green energy. [CEE2014G011]
- Initiated by Ms Purnima Bajpai, the Department organized a guest lecture on 'Urban transportation planning and necessity of bridge structures' by Mr Sanjib Konar, Planning Head, M/s Gamon India Pvt Ltd for 5th sem and 1st sem MTech students on 16 October 2014. The lecture was highly appreciated by the students and helped them understand the importance of urban transport planning and the issues of transportation in growth of our country. [CEE2014G012]



- The Department organized a guest lecture on 'Necessity of Effective Contract Management during Project Implementation for an EPC/Construction Company' by Mr Nitin Sethi on 22 January 2015, for the students of 4th, 6th and 8th semester. The lecture gave the students an insight about the various aspects of the construction industry and the problems faced by the EPC contracts during project execution. With the help of videos and documentaries of actual site construction works and the core engineering activities involved, the students learnt about the difficulties engineers face while working on offshore projects. The lecture was initiated by Ms Purnima Bajpai.

Mr Nitin Sethi is AGM, Strategy & Policy Management of Offshore Oil & Gas EPC Business at M/s Punj Lloyd Ltd. [CEE2015G001]

- The Department organized a guest lecture on 'Solar Energy - A Way towards Sustainable Development' by Mr Nilesh Anand, Senior Manager Engineering, DLF Utilities Ltd. Gurgaon on 29 January 2015 for the 6th semester students. The lecture gave the

The Department organized a guest talk by Dr Pradeep Bhardwaj on 'Management of Disasters at high altitude areas' along with his team from Six Sigma Star Healthcare Pvt Ltd., on 24 February 2015. Dr Bhardwaj is the CEO of Six Sigma Star Healthcare Pvt Ltd, and Chairperson at Six Sigma Accreditation Board India.

Through the lecture, Dr Bhardwaj and his team addressed the issues regarding hazards in high altitude areas and provided necessary training and actions required to overcome problems. The lecture was attended by all batches of Civil Engineering Department and students of ECE and CSE&IT departments, who are currently studying Disaster Management.





students an understanding of solar energy system, advantages and challenges in harnessing energy from the solar power. Mr Anand discussed the details of a roof top solar system elaborating the expenditure and revenue generation with a case study of installed plant in Kolkata by their company. The students were motivated to take up projects in the area of non-conventional energy resources and were invited to visit the DLF office, Gurgaon to see the actual roof top installation and working. The lecture was initiated by Ms Vaishali Sahu, [CEE2015G002]

Alumni Interactions

- Under the initiative of Prof. S Krishnamoorthi and Mr Ankit Pachouri, the Department organized an alumni interaction on 17 September 2014, for the final year students with Mr Rahul Mehta, Assistant Manager, Larsen & Toubro Construction. Mr Mehta is an alumnus of the first batch of Civil Engineering (2007-2011) and had been a consistent star performer in L&T Constructions for the past three years. The session was highly inspiring for the students and helped them understand the technicalities of the construction industry. Mr Mehta enlightened the students about the importance of classroom study and its applicability in the field. He later guided the students for higher studies and engineering services. [CEE2014AL004]
- Under the initiative of Ms Vaishali Sahu, an interactive session on 'Importance of summer training in

a good organization' was organized for 5th Semester Civil Engineering students on 18 September 2014, with one of our alumni, Mr Aashish Bhardwaj (2009-13 batch). Mr Bhardwaj is working as Engineer-Operations, Suez Environment India. Sharing his experience during training and on the job, he suggested the students to take guidance from faculty mentors in choosing an industry for training. The students should work in a manner that the training can lead to placement. Mr Bhardwaj also discussed the various sectors where a Civil Engineer can work, some latest environmental technologies and different responsibilities one has to take up in a company. [CEE2014AL005]



- Mr Shourya Sood (2009-2013 batch), currently pursuing MS (Water Resources Engineering) in Buffalo University, New York, visited the Department on 16 December 2014 and agreed to guide our students in getting admissions in Universities in the USA.

Workshops Organized

- The Department organized a workshop on STAADPRO by Mr Vineet from CETPA Infotech Pvt Ltd, Noida, for 7th sem BTech students and 1st sem MTech students



Workshop on STAADPRO

on 13 October 2014, in which the introduction of STAADPRO and the application areas of software were presented. Mr Vineet discussed some of the modules of the software and showed projects prepared by students using the software. [CEE2014W004]

- A training programme on Primavera Software P6, latest Version 8.3 was organized for final year BTech students and 1st and 3rd Semester MTech students from 17-18 October 2014. The training included a run-through of the basics of Project Management and importance of planning, scheduling and controlling. It also included the detailed overview of the basic functions of Primavera P6 and how it can be used for managing different departments of a project. The training was highly beneficial for all students and faculty.

Visit by Prof. Bruce E Seely

Prof. Bruce E Seely, Dean, College of Science and Arts, Michigan Technological University, USA visited the Department on 5 December 2014 for a discussion on the progress made regarding collaboration between Michigan Technological University and ITM University in offering 3+1+1 scheme in the Department of Civil and Environmental Engineering and for initiating 3+1+1 scheme in the Department of Computer Science and Engineering. Prof. S Krishnamoorthi, Dr Latika Singh, Dr AK Misra and Ms Rita Chhikara took part in the discussions.

Staff Development Programme on Concrete Technology

A Staff Development Programme on 'Concrete Technology' was organized for laboratory technicians on 22 and 23 December 2014. The programme covered topics on cement tests, concrete tests, mix design and special concrete.

Faculty Orientation Programme

The Department organized an Orientation programme for newly joined faculty on 17 January 2015 under the guidance of Prof. S Krishnamoorthi.

ASCE-Student Chapter launched

Under the initiative of Dr Amit Srivastava, Treasurer, ASCE India Section, Northern Region, the ASCE-Student Chapter was launched at the Department of Civil and Environmental Engineering on 20 February 2015 in the presence of Prof. Prem Vrat, Pro-Chancellor and Mr Arif Siddiqui, Secretary, ASCE-India Section, Northern region. On this occasion, Prof. Prem Vrat delivered an expert lecture on 'Efficient and Effective Project Management for Infrastructure Development: A prerequisite to realize vision of developed India'. The event was attended by faculty and students of the University along with faculty members from other engineering colleges of Delhi-NCR region and experts from the industry. [CEE2015G003]



National Design Competition

In association with CADD Centre, Dwarka, the Department organized a national level design competition at the University for the students of Civil & Environmental Engineering. More than 50 students from the Department participated in this event which consisted of two levels, one by using drawing instruments and the other by using Autocad. It gave an opportunity to our students to compete with students from other universities and present their talent at the national level.

Mentor-Mentee Interaction

Dr YP Anand, Former Chairman, Railway Board, Govt. of India and a faculty mentor to ITM University visited the University on 19 February 2015. The mentees interacted with him, sharing the progress of their research work and the initial draft of their research paper. Later, a team of BTech 6th semester CSE&IT students comprising Abhinav

Kharbanda, Ankur Jain and Ujjwal Gupta, interacted with him on the project titled 'Reducing the risk of loss of lives at unmanned level crossings' which is submitted to the Ministry of Railways. Dr Anand guided the students about the project and made them understand the technical and psychological aspects.

Beg Borrow Steal event at Club Fiesta 2015

'Beg Borrow Steal', a fun-filled event was organized by SPACE, the Civil Engineering Society, during the cultural festival, Club Fiesta 2015. The event saw participation from various departments of the University. Ankit Walia, Rishabh Bhadauria and Chirag Nagpal, sixth semester students of Civil Engineering conducted the event. Shreya and Naviti, 2nd year BCom students, were declared the winners. [CEE2015W001]



Cerebration 2014

The Department participated in the Tech Expo held during 'Cerebration 2014' on 8 October 2014 and displayed three projects including the last year's Best BTech Project and two ongoing projects. The main theme of the project was based on the use of waste materials in Civil Engineering construction. Both the events were coordinated by Ms Purnima Bajpai. [CEE2014W006]

Society Activities

SPACE (Society in Pursuit of Advances in Civil Engineering) organized an intra-university technical competition 'Quiz-up' on 11 November 2014, in which a total of 45 participants representing all the three Schools of the University participated. There were 5 rounds

covering questions on general knowledge, current affairs, technical and non-technical topics. Mr Bhavik Goyal and Mr Ayush Pandey of CSE&IT Department won the first prize. The event was coordinated by the 3rd semester students under the guidance of Ms Purnima Bajpai. [CEE2014W007]

SPACE (Society in Pursuit of Advances in Civil Engineering) organized an inter-university event, 'Scissor lift model making based on hydraulics' on 8 October 2014 during 'Cerebration 2014', which received a participation of more than 20 registrations from different universities and colleges across Delhi/NCR. The winning team of Mr Brigu Joshi and Mr Kumar Kislay (5th sem, Dept of Civil & Environmental Engg, ITM University) received a token prize of Rs 1000 for presenting the best model. [CEE2014W005]

Visit by team from Cengage Learning India

Mr Sunil Kumar Agarwal, AGM, and Ms Sukti Mukherjee Bhattacharya, Managing Editor, Cengage Learning India Pvt. Ltd. visited the Department on 12 November 2014 for an informal interaction with Prof. Subrata Ghoshal, Prof. S Krishnamoorthi and other faculty regarding writing digital textbooks in Civil Engineering by our faculty.

Industrial Visits

Initiated by Ms Purnima Bajpai, the Department organized an industrial visit to M/s Unitech Limited Project, Gurgaon for 50 students of Civil Engineering 3rd Semester on 12 September 2014. The students were accompanied by Ms Garima



Visit to Unitech Limited Project

Srivastava, Mr Rohit Poyil and Mr Rajpal Singh. The visit was a learning experience as it was the first industrial experience for the 3rd semester students and they could actually have a visual experience of what they studied in building construction and building drawing courses. The students got a good understanding of construction of a building and foundations and got hands-on experience in the field. [CEE2014V004]

- ❑ An industrial visit to 66 million gallons per day (MGD) Water Treatment Plant in Chandhu Budhera, Gurgaon was organized for 3rd Year civil engineering students on 19 September 2014. The visit was initiated by Ms Vaishali Sahu, which gave the students an opportunity to learn about the various processes involved in water treatment. It also gave knowledge of the construction site as IIIrd phase of the treatment plant was under construction. They were able to see the various slopes provided in the structure which are not visible once they are operational. They were accompanied by Ms Vaishali Sahu and Mr Lokesh Choudhary. [CEE2014V005]



Visit to Water Treatment Plant

- ❑ Some student members of ASQ along with the faculty coordinators Ms Purnima Bajpai and Mr Lokesh Choudhry visited the GMR Delhi International Airport on 21 February 2015 under the initiative of Prof. Ravindra Ojha, Director, SOET through ASQ India as reported elsewhere in this

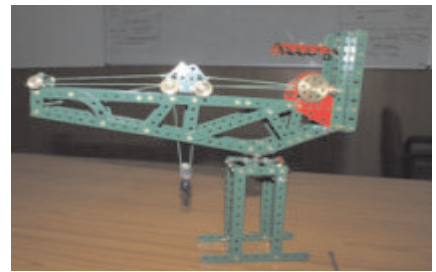
Newsletter. The visit focused on 5S Quality tools and implementation of various quality initiatives which have helped GMR move to the top. The students got a good exposure of the airport construction and good industry practices being followed there. [CEE2015V001]

Workshops/ Conferences attended

- ❑ Ms Prachi Sohoni attended the International Conference on Emerging Trends in Science and Cutting Edge Technology (ICETSCET), organized by YMCA, New Delhi on 28 September 2014 and presented a paper on 'Use of waste material in concrete blocks'. [CEE2014C001].
- ❑ Dr Amit Srivastava attended the National Conference on Geo-Environmental Issues and Sustainable Urban Development (GEN-2014) organized by MNIT and IGS, Allahabad from 10-11 October 2014 and presented a paper on 'Geotechnical characterization of MSW and stability of MSW landfill slopes'. [CEE2014C002].
- ❑ Ms Vaishali Sahu and Ms Prachi Sohoni attended an International Symposium on 'Advanced Science and Technology in Experimental Mechanics' from 2-3 November 2014, organized by the Japanese Society for Experimental Mechanics at New Delhi. Ms Sohoni chaired a session on 'Smart Materials and Composites' and Ms Sahu chaired a session on 'Recycling and Material Processing' on 2nd November 2014 during the symposium. [CEE2014C003]
- ❑ Dr Amit Srivastava attended a conference on 'Geo-Environmental Issues and Sustainable Urban Development' organized by American Society of Civil Engineers (India) and Department of Civil Engineering, Indian Institute of Technology (IIT) Hyderabad from 17-18 October 2014. [CEE2014C004]

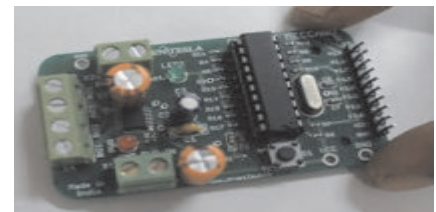
Faculty Activities

- ❑ Prof. Subrata Ghoshal, HoD, is investigating an emerging area of Civil Engineering: 'Intelligent Structures'. He plans to construct several models for this study, out of which he has already constructed a Block-Setting Crane model using approximately 1:250 scale. After completion of modelling, he plans to use embedded intelligence, making the related prototypes smart and intelligent. [CEE2014R001]



Prof. Ghoshal has completed the design and fabrication of a controller card, to be used to make structures function smarter.

The H-Bridge DRV8833 used in the card is capable of driving two small DC motors (or one small stepper motor). The ATME161 microcontroller performs at 12 MHz and offers 2K bytes of flash-type program memory to store software.



- ❑ Prof. Subrata Ghoshal delivered a lecture on 'Data-Path Design', which is a sub-topic of the textbook, 'Computer Architecture & Organization', authored by him, for video recording at Pearson's studio, Noida on 22 October 2014 to be uploaded on YouTube. [CEE2014I001]
- ❑ Dr Anil Kumar Misra and Dr Amit Srivastava participated in training programme on 'Advances in surveying instrumentation and their application' organized by Shotam Instruments Pvt Ltd, New Delhi on 31 January 2015.

- Spanner's forum of Australia along with NZ Meccano forum of New Zealand, conducted Spanners Christmas Challenge 2014 of Meccano modelling during December 2014. Out of 35 models submitted by various modelers from different parts of the world, Dr Subrata Ghoshal's Pile Driver model was voted fifth in order of merit.
- Dr Amit Srivastava has been appointed as the Treasurer of ASCE-Northern India Section for a period of 3 years.
- Dr Amit Srivastava, representing the Department, attended a 3 day training programme on 'Outcome Based Education' organized by JSS Academy of Technical Education (NBA Training Centre) at Noida from 27-29 November 2014.

The final result may be visited at: <http://www.nzmeccano.com/ima-ge-83912&page=1>.



Prof. Subrata Ghoshal has uploaded a small video clip of his 'Pile-driver model' on YouTube. This is a small 6V

DC motor operated working model of a Simplex type RCC cast-in-situ pile driver, constructed for educational demonstration purpose. The video can be accessed at:

<https://www.youtube.com/watch?v=fBNzfeCk011>

IGS –Prof. CS Desai Biennial Award – 2014

Dr Amit Srivastava has been awarded the IGS- Prof. CS Desai Biennial Award for his paper, 'Spatial Variability Modelling of Geotechnical Parameters and Stability of Highly Weathered Rock Slope', published in the Indian Geotechnical Journal, Vol. 42, Issue 3, July-September 2012 (pp.179-185) during the inaugural session of IGC-2014 held on 18 December 2014 at JNTU, Andhra Pradesh. The paper has been adjudged as the best paper on 'Constitutive Modeling for Geologic Materials' published by the Indian Geotechnical Society.

Promotion of faculty

Ms Prachi Sohoni was promoted to Assistant Professor (Senior Scale) from Assistant Professor.

New Faculties on Board

Dr Subrata Ghoshal has joined the Department as Professor on 15 September 2014. He holds a PhD degree from IIT Bombay in the area of off-shore structures. His areas of interest include structural engineering, embedded systems, artificial intelligence and robotics.

Dr Sudheer Chintalapati, PhD in Water Resources Engineering from IIT Delhi, joined the Department as Associate Professor.

Ms Megha Kalra, MTech in Structural Engineering from PEC, Chandigarh, joined the Department as Assistant Professor.

Department of Applied Sciences

Departmental Activities

Guest Lectures

- "Physics is the science of figuring out how things work, while engineering is the practice of making things that work. Engineering students should not only be aware that physics has direct application to engineering, but also that the problem solving and thinking skills developed through learning physics are the same skills they will need to use in their profession as an engineer", said Padamshree Professor KL Chopra, former Director IIT Kharagpur and distinguished Research Prof. of ITM University, who delivered a lecture on 'Why Physics for Engineers' on 19 September 2014 at the University. The lecture was organized by Dr Ambika Sharma for all the first year students of School of Engineering. After the lecture, the

students had a fruitful discussion with Prof. Chopra on various aspects of Physics for Engineers. [APS2014G011]

- Mr Paritosh Tyagi, former Chairman of Central Pollution Control Board, has been associated with ITM University under AICTE-INAE (Indian National Academy of Engineering)-Distinguished Professorship Scheme to promote technical education, research, industry-institute interaction, enrichment of curriculum content and other activities.

Mr Paritosh Tyagi visited the University thrice in September and delivered lectures on various fields relating to 'Environmental law and management' under the AICTE-INAE Distinguished Professorship Scheme. The BTech students of various disciplines attended the talks and greatly appreciated its

usefulness in the engineering curriculum. [APS2014G009, APS2014G010, APS2014G012]

The Department organized a lecture on 'An overview of Environmental Impact Assessment' by Mr Paritosh Tyagi on 6 October 2014 for BTech students and faculty members. During his lecture, Dr Tyagi emphasized on the Environmental Impact Assessment (EIA) and explained the steps in making an EIA, assessment, management, tools used in EIA. The lecture was coordinated by Dr Rashmi Tyagi. [APS2014G014]

Mr Tyagi also delivered a lecture on 'Environmental Audit: Concept and Practice' to BTech CSE 2nd year students, on 27 October 2014. He later introduced BTech ECE 1st year students with different types of pollution and emphasized on their prevention and control, on 31

October 2014. He also introduced BTech CSE 2nd year students with the management and handling of electronic wastes, on 10 November 2014. He explained the topics, like rules on management and handling of wastes, application of e-waste rules, treatment, storage and disposal facility, sequence of options for disposal of e-waste, authorisation for related activities, and guidelines issued by Central Pollution Control Board (CPCB). [APS2014G017, APS2014G018, and APS2014G019]

- A special lecture on 'Fabrication and characterization of GaN based nanopillar arrays for device applications' by Dr Rajendra Singh, Dept of Physics, IIT Delhi was organized on 13 October 2014. During his presentation, Dr Singh shared details of experimental procedures at IIT Delhi in the Nano Research Facility (NRF) for characterization, synthesis and fabrication. He also talked about his current research in the field, relating it with the work for this year's Nobel Prize for blue LEDs. The lecture, coordinated by Prof. AK Yadav and Dr Ambika Sharma, was attended by all faculty members and research scholars from the School of Engineering and Technology.

Prior of his talk, Dr Singh held discussions with faculty members from Dept of Applied Sciences on advanced facilities for Nanoscience research at IIT Bombay, IIT Delhi and IISc Bangalore that are accessible to all. He explained the process and encouraged the faculty members and research scholars to write proposals for using these facilities, free of cost. [APS2014G013]

- Prof A Brown, University College, London delivered a talk on 'The theory of best uniform approximation in spaces of continuous functions: 1855 to 2013' on 6 October 2014. The talk outlined the development of the approximation theory till 2013. After the talk, he had discussions with faculty members and students. The lecture was coordinated by Dr Prabha Sharma. [APS2014G015]

Professor RK Sharma, Department of Mathematics, IIT Delhi, delivered a presentation on 'Cryptography' on 13 November 2014 addressing the students of BSc (Mathematics) and MSc (Mathematics). The talk was co-ordinated by Prof. N Chandramowliswaran



Prof. RK Sharma delivering a presentation on Cryptography



Prof. RC Budhani, Senior Professor, IIT Kanpur and former Director of National Physical Laboratory, New Delhi delivered a guest lecture on 'Frontiers of Precision Measurements for Advanced Science and Technology' to the engineering students on 13 February 2015. Prof. Budhani introduced the significance of the topic by taking examples from Indus Valley civilization, when weights and measures made of stones were used. Quoting from ancient texts like Manusmriti, he mentioned about use and validity of measurement in ancient times. Prof. Budhani explained how the

prototypes of SI units, Metre and Kilogram, suffer from variations and how they are being replaced by natural constants such as velocity of light (c), Planck's constant (h), elementary electronic charge (e), etc. He dwelt at length in his lecture on the basics of quantum standards which are based on the values of the natural constants. He concluded his lecture by emphasizing the importance of science of metrology for protection of consumer interests, safety, reliability and efficiency of processes in industry. The event was coordinated by Prof. SK Jain, Dept. of Applied Sciences. [APS2014G020]

Industrial Visits

- An educational trip was organized by Dr Rashmi Tyagi, Associate Professor, and Ms Pranati Purohit, Assistant Professor, for BSc Maths 2nd year and BTech Computer Science & Engineering 1st year students to a garment factory, Charan Singh Kataria Enterprises,

Gurgaon on 30 October 2014. The students observed the machinery and various stages involved in the finishing of readymade garments and learned about the chemicals used in the processing.

Workshop organized

- A workshop on 'Computational Software Scilab' was organized on 30 August 2014. The workshop was aimed to provide a broad overview of the basic concepts, operational algorithms and recent theories related to Scilab and Numerical Methods. The ultimate objective was to give a working knowledge of Scilab to the students of Science and Engineering. The speakers for the workshop were Dr Phool Singh and Dr Sunil Hans from Dept of Applied Sciences. 25 students from first and second year participated in the workshop. [APS2014W003]

Faculty Activities

- Dr Sunita Sharma presented a research proposal entitled 'Quantum dot sensitized solar cells with improved efficiencies' in Accelerators User Committee (AUC-56) meeting at Inter-University Accelerator Centre (IUAC-Formerly Nuclear Science Centre), New Delhi. The paper has been accepted for utilization of low energy ion beam facility at that centre. The characterization facility of IUAC can be accessed by Dr Sharma for her research work on Quantum dot based solar cells. This work will be done in collaboration with Dr Fouran Singh, Scientist-F, IUAC, New Delhi.

Dr Sharma has been selected as a reviewer (IJERTREW360) for International Journal of Engineering and Research Technologies (ISSN: 2278-0181).

- Dr Neha Yadav has been selected for the Travel Grant Award from Soft Computing Research Society, New Delhi to attend and present paper in the 4th International Conference on Soft Computing for Problem Solving, going to be held at National Institute of Technology, Silchar, Assam, India from 27-29 December 2014.
- Dr Dipti Vaya and Dr Tejpal Singh Chundawat received a grant of Rs. 9.99 lakh from DRDO for their

Society Activities

The Mathematicive Society of the University organized an event, 'Maths is Fun' on 8 October 2014, during Momentum 2014. The event, coordinated by Prof. Kalika Srivastava and Dr Divya Agarwal, was based on 3 C's: Concentration, Coordination and Computation. Three rounds were conducted comprising the questionnaire round, quiz round and memory test round. More than 20 students actively participated in the event and had great fun.



Prof. Kalika Srivastava with students during 'Maths is Fun'

project, 'Development of Polyurethane Coating for blast Mitigation'. The project will develop formulation technique for polyurethane which resists the effect of blast.

- Dr Kamlesh Sharma has been invited as a reviewer to review an article by Journal 'Medicinal Chemistry Research' ISSN: 1054-2523 (print), 1554-8120 (online).
- Dr Rashmi Tyagi presented the research work 'Application of nitrogen and phosphorus stress conditions for biomass and oil production by Chlorella vulgaris' in the International Conference on Tropical Ecology Congress 2014

organized by JNU, New Delhi from 10-12 December 2014.

- Ms Aditya Sharma, Asst Professor, received her PhD in Chemistry from IIT Delhi.

New Faculty on the Board

Dr Rani Yadav joined the Department as Assistant Professor. She has been awarded PhD in Mathematics by University of Delhi in 2014.

Ms Ruchi Gupta, Asst Professor, was awarded PhD degree on 1 November 2014 during the convocation at IIT Delhi. She completed her PhD in Fiber and Integrated Optics from the Department of Physics.



Ms Ruchi Gupta receiving her PhD Degree

School of Management

Departmental Activities

Guest Lectures

- School of Management organized an expert lecture on 'Current trends in Business Analytics and Big Data' by Mr Vinay Verma, Head of Visual Analytics for North and East region, SAS Institute (India) Pvt. Ltd. on 16 September 2014. The lecture attracted an enthusiastic response from all the three Schools with about 100 enthusiastic students and faculty members attending the session. The participants highly appreciated the lecture for its contemporary relevance. The expert lecture revolved around role of business analytics in global business with special reference to visual analytics, big data and tools and technologies available for analytics. It gave directions and motivation to students to be a part of Big Data & Analytics Industry. The speaker highlighted the current and future adaptation and trends of visual analytics. The event was coordinated by Dr Himanshu Choudhary.



Mr Vinay Verma delivering a lecture on Business Analytics

- A guest lecture on 'Digital Economy - How it is disrupting the traditional business models' by Dr Rajeev Jain was organized by School of Management on 14 November 2014. Faculty members, PhD scholars and students of postgraduate and undergraduate courses attended the lecture, which was coordinated by Ms Jaya Ahuja and Ms Ritu Chikkara. Mr Rajeev Jain is a Corporate Executive who has worked with many multinational organizations focused on optimizing global operations.

A guest lecture on 'Preparing Business Leaders for the Managerial Challenges in the Twenty-first Century: Educating Next Generation of Managers and Executives' by Prof Jatinder (Jeet) N D Gupta was organized on 17 December 2014. The lecture aimed at examining new ways of thinking about business and its opportunities, suggesting business models to serve the emerging economies while maintaining the goal of making profit and suggesting new directions for business education to prepare leaders for tomorrow in creating a harmonious society. Prof. Gupta is Honorary Adjunct Professor, ITMU and Associate Dean for Graduate and Sponsored Programs & Eminent Scholar of Management of Technology, College of Business Administration, The University of Alabama in Huntsville, USA. [SOM2014G006]



Prof. JND Gupta delivering a lecture on Preparing Business Leaders

- School of Management invited Mr Rajan Jain, Managing Director, GTC Process Technologies India (P) Ltd. and ex-Executive Director (Projects), Engineers India Limited for an expert session on project management entitled 'Managing Mega Projects: a Practitioner's View' on 24 February 2015. Mr Jain has more than 36 years of experience in managing mega projects of worth more than three billion US dollars in the hydrocarbon sector, i.e. refineries and petrochemicals within India and abroad. The session was well received by the students and the faculty members. [SOM2015G002]
- Dr Ranjit Sinha, Adjunct Professor, School of Management, was invited to deliver talks on 'Continuous Improvement' and 'Emerging Issues in Management' on 17 February 2015. Dr Sinha has 40 years of rich experience in varied roles at senior levels with British Steels, UK and other multinational companies. During the session on 'Continuous Improvement', he highlighted Kaizen, Total Quality Management, Change Management, Leadership etc. while he focused on Diversity Management, Supply Chain Management, Bureaucracy and Corruption, Effect of Globalization, Technology in the session on 'Emerging Issues in Management'. The sessions were attended by students from MBA 1st & 2nd Year, BBA and BCom Final Year students.



Workshops Organized

- School of Management organized a workshop on Prowess on 20 November 2014. The resource person for the workshop was Mr Shubham Maheshwari from CMIE (Centre for Monitoring Indian Economy). This workshop was planned with an objective to provide hands-on experience to students and faculty members for extracting data from Prowess which may be used for writing research papers and preparing major/minor project reports. The MBA, BBA and BCom (final year) students along with some faculty members attended the workshop and gained practical knowledge about the database. Dr Himanshu Choudhary coordinated the event.

- The Department organized online aptitude tests in the areas of HR, Finance and Marketing for the final year students of MBA on 10 November 2014. Forty students took the test which helped them to assess their own knowledge in these areas, while approaching the completion of their MBA course. A series of such tests will be conducted in the forthcoming semester as part of the pre-placement preparation.

- School of Management organized a workshop on 'Digital Library Resources' by Mr Shantanu of PROQUEST on 31 January 2015 for the faculty members, research scholars and final year UG and PG students. The objective of the workshop was to make the participants aware about the digital resources available in the University and guiding them how to use these resources to the optimum



School of Management organized a workshop on 'Research Report Writing' on 22 January 2015 for the final year UG and PG students. The workshop was planned with a specific objective of providing hands-on experience to the students for writing research reports and understanding importance of referencing in academic writing. Dr Himanshu Choudhary, Associate Professor, conducted this workshop. [SOM2015W001]



Workshop on Research Report Writing in progress

- level for the purpose of doing research. With full-fledged support from Mr Deepak Sharma, Asst. Librarian, Dr Sangita Choudhary, Asst. Professor coordinated this workshop. [SOM2015S002]

- The Department organized a Digital Marketing Workshop on 21 February 2015 which aimed to empower students to take charge of their website and make it a truly effective marketing tool. This workshop provided an understanding to the fundamentals and a step by step approach to making immediate strategic improvements to a business website. The workshop was well appreciated by all the participants and the overall feedback was extremely encouraging. The participants expressed interest in participating in many similar workshops in future which aim to extract the maximum potential of internet in today's business environment. The workshop was facilitated by Dr Ruchi Nayyar, Asst Professor and coordinated by Dr Himanshu Choudhary, Associate Professor. [SOM2015S002]

- With the purpose of making the students understand how sentiments of traders play a significant role and affect the prices of shares in the stock market, an activity, 'Virtual Stock Market' was organized on 26 February 2015 for the students who have opted the subject 'Investment

Management'. During this activity, students virtually traded shares of selected companies by following the ancient open outcry system for buying and selling the shares from/to other traders. Dr Sangita Choudhary, Asst. Professor conducted this activity.

- School of Management has initiated and formed Entrepreneurship Development Cell. The objective of the cell is to motivate the students of the University to inculcate the entrepreneurial spirit and provide the necessary facilitation to the potential student entrepreneurs.

Society Activities

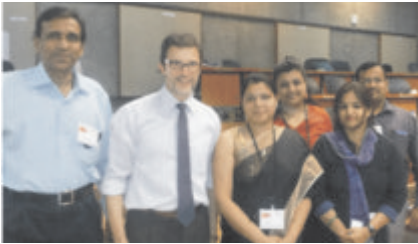
- The Synergy Club of School of Management organized an Extempore Competition on 13 February 2015 which was open to all the students from across the University. The jury members consisted of faculty members from different departments and the editorial cell. Students spoke on topics related to business and current affairs. The winners were Mr Anjney Sangal (4th semester BSc Eco., SOM), Mr Pulkit Sahani (4th semester, CSE) and Mr Anuraag Mehta (4th semester, SOL).

- Inquizzitive- The battle of Wits, a management quiz competition was organized by the Synergy Club on 19

February 2015 which invited student participation from across the University. It tested students for their business & management knowledge challenging their creativity.

Faculty Activities

- Dr Charu Shri attended 'Case Method Teaching Seminar' offered by Harvard Business Publishing & IIM Ahmedabad Case Center from 17-18 October 2014. [SOM2014A001]



Dr Charu Shri at Case Method Teaching Seminar

- Ms Ritu Chhikara attended the 'Third Annual Corporate Summit on Promotion of MSME, Entrepreneurship Skill Development & their Implementation Plans' organized by All India Technical and Management Council (AITMC) at FICCI Auditorium on 16 December 2014. [SOM2014A002]

Ms Chhikara presented a paper, 'Segmentation of Cinema Audiences in the Indian Movie Industry: A Marketing Strategy Perspective' at International Marketing Conference (MARCON) at IIM Calcutta from 18–21 December 2014. [SOM2014C003]

Ms Chhikara has been appointed as Deputy Director by International Management Institute, New Delhi and received a funding of Rs 5 Lakh from ICSSR (Indian Council for Social Science Research) for conducting a research project titled 'The State of education and training imparted by Retail Institutes in India and its relevance for Modern Retailers: Identifying the Gaps'.

Ms Chhikara has successfully completed her PhD from Faculty of Management Studies, University of Delhi. The topic of her thesis is

Industrial Visits

An industrial visit to Yakult Danone India Pvt. Ltd., Sonapat, was organized for the students of SOM, on 21 November 2014. The visit comprised a presentation about the organization, joint venture, global presence, certification, management, benefits of the product, Q&A etc. This was followed by a tour of the factory wherein the students were taken through the entire manufacturing process of the product including the packaging and bottling of the same. This visit was coordinated by Dr Sushmita Biswal Waraich.



Industrial Visit to Yakult Danone India Pvt. Ltd.

- 'Human Resource Opportunities and Challenges in Modern Retail: A Study of select multi-brand Retailers in India'.
- Dr Himanshu Choudhary and Ms Shashi Gupta have been appointed as members of the Review committee for the World Finance Conference 2015 - Buenos Aires, Argentina
- Dr Himanshu Choudhary has successfully completed the IESE online offering of 'Corporate Finance Essentials' course with a 100% score. She has earned a statement of accomplishment with distinction from IESE Business School, Barcelona, Spain.
- Dr Sushmita Biswal Waraich was invited to attend to the National Conference on Higher Education: Ecosystem in Universities organised by ASSOCHAM in collaboration with Association of Indian Universities and Ministry of HRD on 9 January 2015 held at Hyatt Regency, New Delhi. [SOM2015A001]
- Dr Shilpa Sindhu, Assistant Professor attended 4th World Marketing Congress on the theme 'The New Age Marketing Variables' organized by All India Management Association (AIMA) on 10 February 2015. In the conference various themes of new age marketing variables like mobile disruption, e-commerce disruption, data disruption, social media marketing and energizing B2B marketing were discussed by eminent speakers from different organizations. The discussions were focused on the need of upgrading marketing toolkit. [SOM2015AC002]



- ❑ Ms Sunaina Sangwan's article titled 'Attitude matters for Employment' has been published in the August edition of Haryana Recorder magazine.
- ❑ An article by Dr Sushmita Biswal entitled 'Repertoire of Learning' was published by the national daily, The Statesman on 16 January 2015.
- ❑ The following series of articles authored by Dr DR Agarwal were published in different editions of Gurgaon Today (a daily):
 - 'Poverty in India- A multidimensional approach' on 19 February 2015
 - 'Poverty in India- An Economic Analysis' on 20 February 2015
 - 'Poverty in India- A social aspect: Whether Individual is important or family' on 21 February 2015
- 'Poverty in India- A political aspect' on 22 February 2015
- 'Poverty in India- A moral aspect' on 23 February 2015
- ❑ Dr (Prof.) AK Vij has been appointed as Professor Emeritus and Dr Charu Shri has taken over as the Associate Head of SOM.
- ❑ Dr Himanshu Choudhary has been promoted to Associate Professor.
- ❑ Ms Anshu Agrawal was awarded PhD Degree from Department of Management Studies, IIT Delhi. [SOM2014H001]
- ❑ Twenty three research scholars presented their research progress/ proposals and 8 subject experts were invited to evaluate and give their suggestions to the scholars.

New Faculties on Board

Ms Palak Mehta joined the Department as an Assistant Professor (Finance).

Dr Shaveta Sachdeva joined the Department as an Assistant Professor (Economics).

Dr Saumya Dixit joined the Department as an Assistant Professor (Marketing).

Dr Ruchi Nayyar joined the Department as an Assistant Professor (Marketing).



School of Law

Departmental Activities

School of Law and Centre for Post Graduate Legal Studies (CPGLS) jointly organized a one day International Seminar on Surrogacy and Human Rights on 7 November 2014. The seminar was inaugurated by Mr Hans Friedrich Schodder, the Deputy Chief of Mission, United Nations High Commissioner on Refugees (UNHCR). The themes for discussion during seminar were mainly related to national and international perspective of surrogacy, statelessness and health standards in surrogacy as well as social impact of fertility tourism.

Among the distinguished speakers present at the occasion were Prof. Prem Vrat, Pro-Chancellor, ITMU; Prof. BS Panwar, Vice-Chancellor, ITMU and Prof. (Dr) Sanoj Rajan, Director, School of Law. Surrogacy Law Expert, Ms Claire Achmad, Barrister and Solicitor, High Court of New Zealand shared her views on 'Surrogacy: An International Perspective'. Ms Pooja Yadav, Lawyer Lex Global, Surrogacy Legal Consultant placed her opinion on Surrogacy Laws in



India. The social impact of Fertility Tourism in the Indian economy was discussed by eminent panel experts like Ms Sarojini, Sama - Resource Group of Women and Health, New Delhi along with Dr Ranjana Kumari, Director, Centre for Social Research, New Delhi; Dr Manasi Mishra, Centre for Social Research, New Delhi; and Mr Bajrang Singh, MD, Vansh Health Care, Gurgaon. The health standards in surrogacy were discussed by

Dr Sonia Malik, IVF, Max, Gurgaon; and Dr Rita Bakshi, Green Park Infertility Clinic, New Delhi in the subsequent panel discussion. Later there were paper presentations by Ms Titasha Banerjee, Assistant Professor, ITMU and Dr Rajashekar, Assistant Professor, Madras University, which was chaired by Prof. Sanoj Rajan, Mr Hans Friedrich Schodder and Ms Claire Achmad.

Faculty Development Programme



School of Law organized a Faculty Development Programme for its faculty members on 11 February 2015. Prof. (Dr) R Venkata Rao, Vice-Chancellor, National Law School of India University (NLSIU), Bangalore visited the University to conduct the FDP. Highlighting the noble profession of a teacher, Prof. Rao recognized the qualities of a good teacher and encouraged everyone to inculcate the same in their teaching methods. He emphasized the fact that learning is a continuous process and a 'learning teacher' is more revered than a 'learned

teacher'. The job of a teacher is to lead the students from darkness to light, ignorance to knowledge and transience to intransience. During his speech, he referred to a host of inspiring quotes ranging from politicians to authors, to scientists and management gurus. Concluding his address, Prof. Rao encouraged the faculty members to value learning through life's experiences and to apply them in their professional career to ensure success in life. The lecture was followed by an active interaction with the students and teachers. [SOL2015G002]

School of Law organized a Faculty Development Programme from 18 – 20 December 2014 which dealt with Advocacy Skills Training for the SOL faculty members. The programme was conducted by an eminent lawyer, Dr Aman Hingorani who has marked his presence as a mediator for running the Clinical Legal Education programme at the Campus Law Centre, University of Delhi for ten years, training the students and lawyers. Four faculty members of SOL, namely Ms Pallavi Bajpai, Ms Tanvi Arora, Dr Rahul Nikam and Ms Titasha Banerjee were trained at the course which enhanced their advocacy and teaching skills.

Dr Hingorani has been an international faculty at Keble College, Oxford, UK in successive International Advanced Advocacy Skills training courses and at South Asian Institute of Advance Legal and Human Rights Studies, Dhaka in mediation skills training courses.

Guest Lectures

- On 24 September 2014, Mr Ramesh Kumar Mehta delivered a special lecture on varied aspects of the present day patent regime. He enlightened the students on the general understanding of the patents. He distinguished the process and the product patents throwing light upon the significance of Section 3(d) of the Patents Act and discussed the landmark judgment of Novartis vs Union of India. Mr Kumar is a Patent Attorney and Founder of Mehta & Mehta Associates.
- A guest lecture on 'Mergers & Acquisitions - Financial Aspects and Related Matters' by Mr Abhijit Sen, Director, Financial Advisory, Transaction Services, Deloitte Touche Tohmatsu India Private Limited was organized on 14 October 2014. [SOL2014G010]
- The Department organized a guest lecture on Competition Law topics relating to 'Combinations Sec 5 & Sec 6 of Competition Act and working and functioning of Competition Commission of India' by Judicial Assistant Mr Pranav Mehra of Competition Commission of India. Mr Mehra is the Managing Editor in the Indian Competition Law Review. [SOL2014G011]
- The Supreme Court, in the case of Shatrughan Chauhan vs Union of India, commuted death sentences of 15 death convicts to life sentence. In this connection, the Law Commission asked the law schools to contribute their views on abolishing the death penalty. Our School of Law incorporated its version of abolishing of death penalty and submitted the report to the Law Commission where faculty joined hands with the students who are research scholars to frame the same for the incorporation of the attribute of 'death penalty'.
- On 27 October 2014, Mr Dharam Vir, State Election Commissioner, Haryana; former Chief Secretary, Haryana, Public Governance, Policy & Implementation delivered guest lecture on 'Good Governance

and the challenges they pose in implementation' which depicted the current scenario of government policies in India. [SOL2014G012]



Mr Dharam Vir, State Election Commissioner delivering a lecture on Good Governance

- School of Law organized a special lecture on 'National Judicial Appointment Commission' on 16 February 2015 by Dr Adish C Aggarwala, Sr Advocate and President of International Council of Jurists and Chairman, All India Bar Association.

An expert of Constitutional Law, Dr Aggarwala enlightened the students by relating the constitutional provisions with the provisions of the appointment in the higher judiciary in India. He threw

light on the present system of appointment and the vices of the system in the Supreme Court of India. He also discussed that National Judicial Appointment Commission is helpful in bringing transparency in the system. At the same time he inspired all the law students about the future prospect and career options in the field of law. [SOL2015G003]



Dr Adish C Aggarwala delivering special lecture on National Judicial Appointment Commission

On 22 January 2015, Prof. (Dr) BT Kaul, Chairperson, Delhi Judicial Academy delivered a special lecture on 'Protection of the accused persons under the Constitution of India'. Prof. Kaul is a proficient academician in Criminal Law with a teaching experience of over 31 years. He enlightened the students on constitution and criminal law in India for protection of the fundamental rights of the accused. He also discussed 'victimology' as an emerging field in legal studies referring to various Supreme Court judgements including cases of Ajmal Kasab and Mohammad Hussain. He also inspired all the budding lawyers of the School to be good judge and lawyer in the future.



Prof. BT Kaul delivering his lecture

Screening of Documentary Film on Surrogacy

School of Law in association with Sama, a Resource Group for Women and Health, New Delhi organized the screening of a documentary film titled 'Can We See The Baby Bump Please?' on 3 February 2015. The theme was related to the problems of women from the economically weaker sections of society who act as surrogate mothers because of its monetary benefits. The film also highlighted the ethical and legal issues of surrogacy surrounding commercial surrogacy in India. The film's narrative traced the ethical challenges, medical malpractices, and potential exploitation that can occur when surrogacy is practiced in a legal vacuum.

The students and faculty of the University attended the screening of the

documentary film which was followed by an interactive session, with Ms Simran Sawhney from Sama, in which the key features of the proposed legislation related to surrogacy were discussed.

Visit to National Green Tribunal

Man and environment are closely intertwined with each other, to maintain a balance or equilibrium in nature. Different groups of people working in different areas express it in different ways. To make the students of School of Law understand what environment is all about in legal perspectives, the School of Law organized a visit to National Green Tribunal (Principal Bench), for the students of 6th semester of BBA LLB on 19 February 2015. The students witnessed trial proceedings on contemporary environmental issues in two parallel sessions. Dr Praveen Kumar coordinated the visit. [SOL2015V001]

Commonwealth Scholarship

Prof. Sanoj Rajan, HoD, School of Law has been awarded the Commonwealth Scholarship 2014, to undergo a two year programme in International Human Rights at University of Oxford, UK.

Prof. Rajan does pro bono work for the International Criminal Justice Programme in Kinshasa, Congo. Apart from being Professor and Head of Department of School of Law at ITM University he is also an Associate Faculty with Harvard Humanitarian Initiative at Harvard University.



Prof. Sanoj Rajan presented a paper at the First Global Forum on the Statelessness which was convened in the Peace Palace at the Hague, Netherlands. The paper was highly appreciated for its research value and novelty. Further it was declared at the closing ceremony by UNHCR that the discussions by the three member panel on 'Surrogacy and Statelessness' has been nominated as 'the emerging consensus/outcome of the Forum that needs international action and needs further discussion involving UNHCR, the Committee on the Rights of the Child and other experts working in this area to clarify existing standards in this context and look towards possible development of new standards'. The event took place from 15-17 September 2014. Prof. Rajan was a member of this panel.

Special lecture by Prof Sanoj Rajan at ICC, The Hague, Netherlands

Prof. (Dr) Sanoj Rajan, Professor and Head, School of Law was invited to deliver a lecture at the International Criminal Court at The Hague, the Netherlands, on 2 February 2015. The lecture was on 'Domestication of International Criminal Law: International Crimes Tribunal of Bangladesh, A Case Study' and was highly appreciated by the audience at the ICC. It discussed the domestic implementation of International Criminal Law through the national courts. The forum discussed two case studies on this topic, International Crimes Tribunal, Bangladesh and Fujimori's prosecution in Chile. The lecture also touched upon the significance of principle of complementarity in International Criminal Law.

Prof. Rajan became the first Indian academician to be invited at the ICC for the lecture and ITM University, Gurgaon became the first Indian institution to participate in the lecture series since the last 12 years at ICC. [SOL2015I003]



Faculty Activities

- ❑ Prof. Sanoj Rajan was invited as a judge at the semifinal round of 2nd VIPS International Moot Court Competition, organized by Vivekananda Law School at New Delhi on 9 November 2014.
- ❑ Ms Titasha Banerjee, Assistant Professor, attended the international seminar on 'Queer Groups' at Jawaharlal Nehru University, New Delhi, where she presented a paper entitled 'Socio Economic Structure and Queer Rights: in Contemporary India' and was chosen as the best speaker.
- ❑ Prof. (Dr) Sanoj Rajan, Head, SOL delivered a special lecture on 'Challenges in Protection of Human Rights and Responsibility to Protect' at NSS Law College, University of Kerala, on 19 January 2015.
He also delivered a lecture on 'Human Rights - The Recent Trends' at VIT Law School, VIT University at its Chennai Campus on 21 January 2015.
- Mr Praveen Kumar, Assistant Professor published an e-book, 'Global e-waste Management Laws', ASIN: B00RZ6VH36 through Amazon Publishing Services on 7 January 2015.
- ❑ Prof. Sanoj Rajan attended IBA Annual Conference on International Criminal Law – International Legal Challenges for 2015 held at the Peace Palace, The Hague on 31 March and 1 February 2015, organized by International Bar Association's War Crimes Committee. [SOL2015A001]
- ❑ Dr Praveen Kumar, Assistant Professor, was invited to judge preliminary rounds of 3rd NHRC–LC-I National Moot Court Competition, 2015 organized by

Law Centre-I in collaboration with National Human Rights Commission at Faculty of Law, Delhi University from 20 to 22 February 2015. [SOL2015O001]

- ❑ Prof. Sanoj Rajan, HOD SOL, attended, by invitation, the panel discussion on 'India and the Challenge of Statelessness: A review of the Legal Framework relating to the Nationality', on 10 December 2014 at the National Law University, Delhi, jointly organized by UNHCR and NLU Delhi.
- ❑ Ms Titasha Banerjee, Asst. Professor, attended, by invitation, a symposium on 'PCPNDT ACT-Issues and Challenges' organized by Centre for Social Research in association with District Appropriate Authority, Gurgaon, on 24 December 2014. During the symposium she presented a paper on 'PCPNDT ACT –An Analysis & Implementation' as a key research person.

LLM students visit SEBI Regional Headquarters

- ❑ Capital Market and SEBI are closely interlaced to regulate and ensure future growth of the share market. To understand the role of regulator on one hand and first adjudicating body on other side in this regard, School of Law organized a visit to the SEBI Regional Head Quarter, North Region, New Delhi for the students of 2nd Semester of LLM (Corporate Law), on 24 February 2015. The students had the first-hand experience of the actual working and enforcement of various Regulations of SEBI. Dr Rahul Nikam accompanied the group. [SOL2015V003]

Students invited for training on Mediation

- ❑ In the recent times, mediation is becoming an important means of alternative dispute resolution. To infuse awareness and discuss nuances about the process, the students of SOL were invited for training on mediation at the Gurgaon District Court on 21 February 2015. The programme was organized jointly by the Haryana State Legal Services Authority and Supreme Court Mediation and Conciliation Centre. Ms Suruchi Atreja Singh, Chief Judicial Magistrate-cum-Secretary DLSA-cum-Nodal Officer Mediation & Conciliation Centre Gurgaon and Ms Poonam Mendiratta, Advocate, Mediation and Conciliation Project Committee, Supreme Court of India were the main speakers on the occasion. Mr SuPhotobhadrapt Sarkar, Asst. Professor accompanied the students for this programme. [SOL2015V002]



Placements

School of Professional Attachment (SPA)

The University experienced an excellent response from premium organizations for hiring fresh resources from our University. The academic culture of our University has always been appreciated not only by recruiting companies but also by our own alumni, many of whom visited us as delegates of hiring companies.

- ❑ Tata Consultancy Services gave an inspiring pre-placement talk on 26 September followed by an online test. 231 students were shortlisted after online test and on the second day of the drive, an excellent number of 112 students got placement calls from TCS for 2015.
- ❑ With the addition of BBA-LLB for year 2015, Director SPA, Mr BK Gupta has ensured interaction with each student and conduct mock interviews for them. The same pattern has been followed for MBA students to conduct pre-placement interviews.
- ❑ Newgen Software Technologies, one of the leading companies in various domains, visited the University for on-campus placement drive. Students were pleased to listen to 2013 alumna, Ms Tushti Naryani. She shared her impression about the organization and its culture, and addressed the queries of students regarding placements.
- ❑ October brought news for the selected Computer Science graduates of the University. We invited our prestigious hiring partner, Protiviti consulting for the campus drive at ITMU. Our alumna of last year came along with the interview panel as representative of Protiviti to welcome her juniors and acquaint the innovative and friendly work culture of the organization. They hired 4 students from 2014 batch. The organization was impressed by the skill set of our students and the compatible infrastructure of

24 students of the University received a 'welcome aboard' kits from Deloitte Consultancy on 1 September 2014. The partner of Deloitte, Mr Matt Marsh who flew from US to be a part of an on-campus drive at our University mentioned that our students are good, but as they have limitations of intake they have selected 24 students only.



Mr Matt Marsh, Co-lead, US India Advisory of Deloitte, addressing students

the University required for engineering students for practical knowledge.

- ❑ Nagarro visited the University on 13 October 2014 and extended offers to 4 students for IT services in their Gurgaon office.



Mr BK Gupta welcoming Mr Kunal Choudhary, HR Official, Nagarro

- ❑ Simplion Technology, an organization which visited for the first time for a placement drive to any campus, visited ITM University to hire fresh graduates for their Gurgaon office. Some of our students had been to Simplion Technology for summer internship and their positive engagement led the relationship of making the organization a hiring partner for the University.

- ❑ On 10 October 2014, three students got offers from the leading organization in Library Management System in our country, Libsys.
- ❑ Global Economic Advantage, in a campus drive, has given offers to 8 students of our University.
- ❑ Stratbeans Consulting has shortlisted 7 students of MBA for their requirements.
- ❑ Orkash Services Pvt. Ltd came up with their placement drive on 12 November 2014, in which 17 students have been shortlisted for final round of process.
- ❑ Technology Uncorked has given confirmation to 7 students for 3 days trial work at their office.
- ❑ Law students had been exposed to a renowned Supreme Court lawyer, Dr Aman Hingorani, who interviewed one student for an open position in his law firm.
- ❑ Lava Mobiles has shared their requirement for marketing positions in Noida.

- ❑ The founder Chairman of Cerestek, Commodore Gopal Bharti visited the University on 25 November 2014, for recruiting CSE/IT and MBA Marketing students in his organization.'
- ❑ The welcome of the new year 2015 brought an overwhelming experience for many students of final year. Gemini Solutions doubled its intake from our University for this year's hiring and made offers to 4 students.
- ❑ Manuis Technology conducted a placement drive for our MBA students, for an open position of Sales profile in their organization. They also conducted a placement drive for our CSE and IT Engineering students.
- ❑ The students felt privileged to become a part of a campus drive of a global organization which has already made the presence loudly visible for more than 4 decades. Our six bright students got the offers from Steria .
- ❑ Startup organizations are holding the major share in today's placement market for freshers; therefore we are also making frequent interactions with students to make them aware of the advantages of working with startups. In this light we have invited Globus Eight, a two year old organization with a significant growth not only in its client base but also in revenues. Mr Alok Sinha, founder and CEO of Globus Eight, inspired the students with



Mr Alok Sinha, CEO of Globus Eight, lighting the lamp

On 19 January 2015, Ernst & Young visited ITM University for the first time for an on-campus placement drive. The process ended up with offers to 7 engineering students.



Ernst & Young team lighting the lamp before the campus recruitment drive

- the future plans of his organization. We have got 7 students placed in his organization.
- ❑ Telecom giant, Vodafone has given us opportunity for conducting their campus placement drive at the University. Human Resource personnel from Vodafone, Ms Payal was delighted to see the state-of-the-art infrastructure of the University for students' development. Vodafone has rolled out offer letters to 4 students of the University.
- ❑ University's recruitment partner Hettich India Pvt. Ltd conducted an on-campus placement drive and made the offers to 2 students of Mechanical Engineering and one student on standby.
- ❑ Orange Business Services, a globally renowned organization, conducted a two-day placement drive on 12 and 13 January 2015, at the end of which, 9 BTech students got offers from the esteemed organization.
- ❑ Protiviti Consulting Pvt. Ltd, an esteemed organization, conducted placement drive for MBA students on 21 January 2015 and made offers to 2 students.
- ❑ Orient Craft made offers to 2 students of MBA.
- ❑ DLF, a big name in real estate industry, conducted a placement drive for MBA students in December and made offers to 2 students.
- ❑ Newgen has made an offer to 1 MBA student.
- ❑ On 23 January 2015, Tata Consultancy Services came to address students of pre-final year and helped them understand the requirements of the industry. Ms Anuradha Mahajan, Campus Lead of TCS was delighted to see the passionate level of students.
- ❑ On 4 February 2015, Secure Meters conducted an on-campus placement drive and has given an offer to one BTech Computer Science student of the University.
- ❑ Medley India, a 3 decade old organization conducted a placement drive on 12 February 2015 and rolled out offers to 3 BTech students.
- ❑ On 12 February 2015, an online test for Think Future Technologies, a Gurgaon-based organization was conducted. 14 students qualified for next level of interview which took place on 24 February 2015, in which 4 students have been shortlisted for final round of interview.
- ❑ A 125 years organization in the EPC industry, CB&I visited the University on 13 February 2015 for

an on-campus placement and made offers to 7 students of BTech.



Mr RP Singh, Director of CB&I being welcomed by Mr BK Gupta

- SPA plays a crucial role for overall development of students by organizing innovative and creative competitions. SPA's volunteer club Aarohan organized 'Prastuti-2 (Sales person of the year)', the Powerpoint presentation competition which got students from all the Schools of University under one umbrella to show their sales and presentation skills. The event was inaugurated by Dr Prem Vrat, Pro Chancellor, who was delighted to experience the zeal of students. There were 25 teams from all the three Schools of the University, out of which 14 moved to the final round. The team from School of Law emerged winners.
- Two students of CSE&IT got placed with Libsys, a renowned Library management organization based in Gurgaon, on 19 February 2015.
- Deloitte has taken a step further for 2016 placements and met students of prospective branches to understand their expectations from their organization and to get themselves prepared for next year placement drive. The Director Mr Neeraj Kumar had an interactive session with 3rd year Engineering students on 25 February 2015.
- Prospecta visited for campus placements for CSE, IT, ECE and EEE students and has shortlisted 10 students for final round of interaction with the MD of the organization.
- On 27 February 2015, SPA invited IDBI for taking interviews of MBA and BBA students for summer internship programme in their organization, the outcome of which is awaited.

Training

SPA is very keen on giving a very conducive environment for a complete development of our students. Keeping this in consideration we expose our student to various world level conferences organized by high end organizations. We got 10 students who participated in a conference of CII held at Le Meridian Hotel, New Delhi from 29-30 October 2014.

Deloitte, one of the key placement partners of the University has rolled out an initiative for young aspirants to sharpen up their skills in Cyber Threat vertical. The Deloitte Collegiate Cyber Threat Competition (CCTC) is a national level competition which comprises multiple rounds over two months. The Deloitte leaders visited ITM University on 17 February 2015 to conduct the initial round of the competition. Out of 12 participating groups, the three groups qualified for the next round after a tough competition. The groups qualified from ITM University are Hack Titans, Quadcore and Spiderweb. In the next round, one of these three will qualify for the final round to be held at Deloitte, Hyderabad.



Some of our Recruiters



News from the Centre for Languages Learning (CLL)

Departmental Activities

- A Faculty Development Programme on Communication Skills was organized on 20 September 2014. The FDP was attended by 18 faculty members from the three Schools of the University. The objective of the FDP was to strengthen the speaking skills of members of faculty and to help them attain mastery over the linguistic aspects of vocabulary, pronunciation and articulation required for effective teaching. The FDP started with an overview and introductory talk by Dr Divyabha. The facilitators of the sessions for the day were Ms Prerna Chauhan and Ms Praneet Kaur. A series of sessions is planned to be conducted on subsequent working Saturdays that shall include broad range of related activities. [CLL2014F001]

The second series of the FDP was organized on 15 November 2014. The focus of the session was to enhance speaking skills and to improve body language. The session was conducted by Ms Prerna Chauhan, Dr Payal Khurana and Dr Divyabha. [CLL2014F002]

'Abhivyakt', the Speech and Debating Club under CLL, organized a debate competition for the students of School of Engineering and Technology on 12 September 2014. The topic of the debate was 'A high paying career with an MNC is a doorway to quality life'. Prof. Ravindra Ojha, Director SOET, Dr AK Vij, Head SOM and Dr Shrutimita Mehta, Head CLL and Deputy Dean (Students) graced the occasion as Chief Guests of the event. The judges panel consisted of Ms Sagarika Goswami and Dr Divyabha. The event got a very encouraging response with 24 participants from various branches of SOET. Akshat Mathur, with his impeccable debating skills was adjudged the winner of the competition followed by Sahil Bansal who stood second. Club Abhivyakt provides a platform and opportunities to students of the University where they can participate and hone their oratory as well as analytical skills. [CLL2014O001]



Debate competition in progress

CLL's club, Mainstream, organized a quiz competition across board for students of the University on 19 November 2014. A total of 17 teams participated enthusiastically in the quiz that comprised questions on diverse areas such as sports, politics, awards, environment, space, literature and sciences. The quiz was closely contested in two preliminary rounds followed by the final round, with three teams finally chosen as winners. [CLL2014O002].



Student Activities

Student Projects

During the Annual Convocation Ceremony for Class of 2014, the following projects have been awarded Best BTech Projects by the students.

ANKHEIN (A Noble Konzept of Having Eyes through Indoor Navigation)

This device helps the visually impaired person to carry out easy navigation. It translates images of objects and surroundings into voice messages. Each device is connected to several clips, which can be attached to sunglasses of the users. A hearing aid is attached to the clip for voice instructions. The device has been developed by Jayant Balyan and Khushboo Pahwa, students of Computer Science Engineering & Information Technology.

Re-use of Waste Material for Low-Cost Hollow Concrete Block

This project was undertaken to investigate the performance of hollow concrete blocks containing discarded foundry sands and stone dust as a replacement of fine aggregate with a view to verify the suitability, economic viability and potential use of stone dust, a waste product from aggregate crushing plants. Results show that foundry sand can be safely used in concrete for durability and strength purposes. Also, there is considerable cost saving through material saving in hollow block leading to lesser dead load and thus lighter structural design. The device has been developed by Nimish Gupta, Saransh Mittal, Sajal Goel and Siddhant Kapoor, students of Civil and Environmental Engineering.

- Three student projects: Smart flush system, Low cost machine for making sanitary napkins, and Economic pug cutting machine were displayed as poster presentation in the CII Knowledge Expo held at Greater Noida from 21-22 November 2014. [MED2014O007, MED2014O008, MED2014O009]

Five BTech student projects by Department of Mechanical Engineering were published online at the Ministry of MSME (Micro, Small & Medium Enterprises) site. The projects were funded by Ministry of MSME



Ten major student projects by the Department of Mechanical Engineering were displayed at 'Tech Expo' during Cerebration 2014 from 8-10 October 2014. M/s Mitsubishi Electric Pvt. Ltd. also displayed their PLC kit in the fest for the purpose of student awareness. [MED2014O005]



- Prateek Maheshwari, BTech Computer Science 4th year along with Bhavesh Sharma from Manav Rachna International University, Faridabad and Alok Sharma from Jaypee University, Noida have developed an e-commerce website www.buymebook.com which facilitates buying as well as selling of second hand books, ranging from academic streams of medical and engineering branches to cookery and hobby related books.

Model United Nations

- Mr Hitansh Thakur, student of Civil Engineering 3rd semester, was awarded 'Special mention' in the Model United Nations organized by Indian School of Business and Finance, New Delhi and the University of London during 8-9 November 2014. He was designated as Minister of Internal affairs in the Russian Cabinet, where his team resolved the economic and security issues to restore Russia to its former glory as the Soviet Union of pre-1991.
- Noble Robinson and Nitesh Jain, students of BBA LLB (Hons) 2nd year were awarded with a Verbal Mention award at the Delhi IITASEC Model United Nations (MUN) which was held in New Delhi Institute of Management (NDIM). They were representing People's Republic of China and The Islamic State of Iraq respectively, in the MUN.

Moot Court Updates

ITMU School of Law students have shown their enthusiasm by participating in various moot court competitions held in and outside the University.

- ❑ Upinder Singh, Sunethra S and Prerna Gupta (3rd year BBA-LLB students) participated in the 3rd Indraprastha National Moot Court Competition held from 10-12 October 2014.
- ❑ Apoorv Bhatnagar, Himashu Rathee and Gaurangi Gupta (2nd year BBA-LLB students) participated in IMS Moot Court Competition held from 10-12 October 2014.
- ❑ Shubhankar Mohanty (4th year), Shreya Singh (3rd year) and Shubham Yadav (3rd year) participated in the prestigious Seventh Justice Hidayatullah National Moot Court Competition held from 17-19 October 2014 in Raipur.
- ❑ Dolly Kaushik, Malika Raturi and Niharika Gulati (all 3rd year) participated in 8th Pro-Bono Enviro Moot Court Competition organized by School of Excellence, The TN Dr Ambedkar Law University, Chennai held from 17-19 October 2014.
- ❑ Mr Eshan Sachdeva, Mr Sugam Kumar and Mr Rohan Krishna Seth of BBA-LLB 3rd year participated in Bar Council of India Trust Moot Competition, organized by Lloyd Law College, Noida from 7-9 November 2014.
- ❑ Mr Vishnu Tandi, Ms Sukriti Ghai and Ms Monika Yadav of BALLB 3rd year participated in the CLEA Mooting Competition, 2014 organized by Chanakya National Law University, Patna, from 14-16 November 2014.
- ❑ Ms Garishma Bhayana and Ms Gabriela Ruhil of BBA-LLB 4th year along with Martine Ruhil of 2nd year participated in XII All Delhi (NCR) Moot Court Competition organized by the Law Centre-I, Delhi University on 15 November 2014.
- ❑ A team comprising Apoorv Bhatnagar, Martina Ruhil and Rashi Sherawat, (students of 2nd Year BBA LLB (Hons)), participated at NHRC-LC-I National Moot Court Competition, 2015 organized by Faculty of Law, University of Delhi from 20-22 February 2015. The team reached the Quarter-Finals.
- ❑ A team comprising Apoorv Bhatnagar, Martina Ruhil and Rashi Sherawat, (students of 2nd Year BBA LLB (Hons)), participated at NHRC-LC-I National Moot Court Competition, 2015 organized by Faculty of Law, University of Delhi from 20-22 February 2015.
- ❑ A team comprising Ishan Kumar Jha, Biswaksen Panda and Ujjwal Kansal (students of 1st Year BBA-LLB (Hons)) participated at Madan Mohan Malaviya National Moot Court Competition 2015 organized by Banaras Hindu University on 28 February and 1 March 2015.
- ❑ A contingent of 9 students from School of Law attended the Indore Law fest, 'Lex Bonanza 2014' organized by Indore Institute of Law from 27-28 September 2014. SOL students participated in various events like Moot Court, Parliamentary Debate, Law Quiz, Extempore competition, Conventional Debate and Street Play, with students participating from over 20 law schools and universities across India. ITM School of Law was declared overall winners with 3 champion trophies in Parliamentary Debate, Law Quiz and Conventional Debate. The team comprising Anshul Chaudhary of 3rd year, Swamini Chibbar of 2nd year and Nobel Robinson of 2nd year were declared winners in the Parliamentary Debate Competition focussing on women issues. The team comprising Rashi Sherawat and Sakshi, both of 2nd year won the Law Quiz competition. Rashi Sherawat also bagged the Winner's trophy in the Conventional Debate category.
- ❑ Students from Dept of EECE participated in General Technical Quiz and Group Discussion (Extempore) at the IEEE Day celebration on 9 and 10 October 2014 held at Gautam Buddha University, Greater Noida. On behalf of IEEE-HQ, USA, the Delhi section had invited ITM University to participate in the event. The student activity was coordinated by Mr JP Shivhare.
- ❑ Vasundhra, PhD (Law) student, pursuing PhD on 'Institutional Care a Violation of Human Rights of Children: An Indian Perspective' gave a presentation on 'Starting foster care in India: A sustainable and strategic approach' at International Foster Care Organisation, European 2014 Conference, held from 26-29 August at Waterford Institute of Technology, Ireland. The presentation was intended to present current situation of India on issues like abuse, child labour, trafficking, street children, the laws pertaining to children and the need to start foster care in India.
- ❑ ITM University's Google Student Ambassador, Palash Chhabra was invited to attend an Online Marketing Lab by Google at Gurgaon in December 2014. The event comprised of a three day live training programme which helped the participants increase their online marketing knowledge. It also provided the resources and skill-set to understand Google's tools and



functionalities and become Google Adwords Certified Individual. Palash was also trained by some Program Managers from Google to introduce the Online Marketing Course in the University with the help of AdClass Programme.

- Student photography society, Lumiere organizes interactive training workshops that are free of cost, and are open to all. A seminar was organized by Lumiere on 6 January 2015 to guide the students about photography techniques and tricks. Kaushal Chug, final year student of Dept of ECE and also a professional photographer, explained the composition of a camera and the settings to be made while shooting in different conditions. The participants were told about creating mood, using natural light, and playing with their equipment capabilities. It was a beneficial session for the participants as they learned about photography and its intricacies.

- Hemant Bindal, Parth Dudeja and Karan Kapoor of CSE Department went for a Management internship to Moscow, Russia. They went through AIESEC, an International and student-run organization to work under Russia's National Project, Project Sunshine. They worked in a team comprising members from different parts of the globe, to manage social events with a motive to familiarize the locals with the cultures of other countries.

- Robin Sharma and Swamini Chhibbar, both 2nd year students of BBA-LLB (Hons), were adjudged the 'Best Team' in the Law Debate



Robin and Swamini receiving the award for Best Team



Dhvanik Miglani
BTech (IT)
Batch 2010-14

Dhvanik Miglani, student of BTech (IT programme Batch 2010-14) has proceeded to study at ITB, Dublin, Ireland in MSc in Computing (Information Security & Digital Forensics) under the MoU of ITMU-ITB collaboration. She is availing 50% fee concession scholarship at ITB, Ireland.



Pulkit Garg
BTech (ECE)
Final Year Student

Pulkit Garg, student of BTech Final year (ECE), was selected for 'Jagriti Yatra: Building India through Enterprise 2014'. Jagriti Yatra is a 15 days long odyssey that takes budding entrepreneurs and other distinguished achievers across India, introducing them to like-minded peers, and helping them explore much wider horizons.

Dhruv Basnotra and Diksha Goyal, BTech CSE final year students, under the supervision of Ms Supriya Raheja and Ms Jyotsna Singh have won the Northern India final round of 'CSI Discover Thinking Project Contest 2015' conducted by Computer Society of India at ABES Institute of Technology, Ghaziabad. They demonstrated the project on 'Wireless Mobile to Mobile Charger'.

The team from ITM University emerged winners competing with 10 teams from different states of Northern India, and has moved to the All India round, to be held at Chennai on 14 March 2015.

In the same competition, BTech final year CSE student, Siddharth Sachdeva working on a project 'Rakshak-Saviour' under the supervision of Ms Usha Batra got third position in 4th National Student Project Contest 2015.



on 'Should prostitution be legalized in India', held at Amity Law School, Noida on 12 February 2015.

- Robin Sharma, student of 4th semester BBA LLB (H) participated in SPLASH 2015 - the cultural fest of Lady Hardinge Medical College, New Delhi, on 31 January 2015. He was awarded the Best Speaker in Desputatio - Debate.

Alumni Speak



Kashika Wellington
Senior Analyst,
Copal Research
India Pvt. Ltd.

"The School of Management provides an enriching experience to its pupils by ensuring that they are taught by an excellent faculty which is highly experienced. Moreover, regular guest lectures by industrial experts add effectively to the learning during the course."

Sports

University's Inter-Department Sports Tournaments 2014-15

The University's Inter-Department Sports Tournaments for the session 2014-15 witnessed warm response from the players and the spectators as well. The competitions for Volleyball were held from 25-29 August 2014 while Basketball matches were held from 15-19 September. Teams from different departments participated in the tournament with full enthusiasm and presented an excellent show of competitive sports. The team of Civil



defeated the team of CSE in Volleyball in Boys group, while in the Girls group, the team of SOL emerged winner defeating the team of BTech. In Basketball tournament, the team of SOL was declared winner in Boys group with CSE at second position. In Girls group, the final match was won by the team of ECE over the team of CSE+IT.

The Football matches were played from 20-21 October 2014 which witnessed spectacular performance by different teams. In the Finals, the team of CSE emerged winner defeating the team of ECE.

In the Cricket tournament, a brilliant knock from Samyam helped the EEE team win the final match over the IT team by 4 wickets. Batting first, the Department of IT put a total of 127 runs on the scoreboard in 15 overs. The Department of EEE met the target in 14 overs with Samyam as the lead scorer. Nine teams from different departments, Civil, IT, SOL, MTech, ECE, EEE, CSE, SOM, and Mech participated in this tournament. The Best All Over Trophy was won by SOL on the basis of points earned.



- ITM University Tennis Open 2015, the first Lawn Tennis tournament of its kind, marked a great start on the grounds of the University. Organized by SPACE, the Civil Engineering Society, the tournament saw participation from various departments including Civil, Mechanical and ECE. Diligent efforts by Civil Engineering students, Ankit Walia, Yash Chawla and Tarun Gupta who helped put it together, ensured the smooth functioning of the same. Raunak and Karan, the seniors of Civil Engineering department, were able to bag the winning cash prize of Rs 1000. [CEE2015002]

- Avi Sharma, student of BBA 3rd year of ITM University, Gurgaon participated in the 3rd IHAI National Ice Hockey Championship, under Junior Boys U-20 category. His team finished as



Avi Sharma
BBA 3rd Year

Annual Faculty Sports Tournaments

The faculty and staff of the University were all geared up for the Annual Faculty Sports Tournaments. The Cricket Tournament for the faculty and staff of the University was a great entertainment. A total of six teams, viz., ECE, Admin, Technical, APS, KSB and ME participated in the Cricket tournament. The final match was played between the teams of ECE and APS, in which ECE emerged winners.

In the Volleyball Tournament for the faculty and staff of the University, a total of five teams, viz., ECE, Admin, Technical, APS and KSB participated with full enthusiasm. The final match was played between the teams of ECE and APS, in which ECE emerged winners.



Runners Up in the Finals bagging the coveted Silver Medal.

As there is no official ice hockey team for Haryana or Delhi, Avi has currently opted to play for Maharashtra team. The games were held at Ambience Mall, Gurgaon from 15 – 19 February 2015. He has also earlier played in the Senior category held at Ladakh in February 2015. Avi is now preparing hard to play in the national Ice Hockey team.

Miscellaneous

Teacher's Day Celebrations



Enthusiasm and festivity marked the Teacher's Day Celebrations in the University on 5 September 2014. All faculty members and admin staff assembled at the Auditorium to celebrate the occasion. The proceedings started with Ms Deepika Deswal, Dy Manager HR welcoming all teachers and eulogizing the teaching fraternity for having chosen this noble profession. The Hon'ble Vice-Chancellor, Prof. BS

Panwar gave away the awards to the star performers from each Department. Awards were also given to Prof. Prem Vrat and Prof. BC Nakra for their outstanding contribution to the cause of education and in recognition of their efforts in bringing the University to a state where it can be counted

amongst the top universities in the country. Speaking on the occasion, Prof. Panwar explained the origin of Teacher's Day and exhorted all teachers to inculcate the values as envisaged in the teachings of Dr S Radhakrishnan and Swami Vivekanand.

The Star Performers from different departments acknowledged on this occasion were: Dr Ambika Sharma,

Applied Sciences; Dr Rashmi Tyagi, Applied Sciences; Dr Anil K Misra, Civil & Environmental Engg.; Rita Chhikara, CSE & IT; Sharda Vashisth, EECE; Amanpreet Kaur, EECE; Sheila Mahapatra, EECE, Vandana Khanna, EECE, Lalit Upadhayay, Mech. Engineering; Manoj K Gopaliya, Mech. Engineering; Ashwini K Sharma, Mech. Engineering; Archana Sarma, School of Law; Subhradipa Sarkar, School of Law; and Jaya Ahuja, School of Management.

Les' Nouveaux, 2014

Colour, laughter, music and celebrations, were all one could spot on the occasion of Fresher's Party on 19 September 2014 at the University. It was the most happening and memorable experience for the newly inducted students of the University. Lively and entertaining cultural extravaganza comprising dance, fashion shows, melody, skits and energetic choreography was at display to welcome the new batch of about 850 students. The fresh batch put up an attractive and a stimulating fashion show by walking the ramp for the coveted Mr and Miss Fresher's title.

Dressed to the nines, the girls and boys made a spectacular show. The contest, held in a number of rounds was keenly contested wherein the participants were judged on different parameters of talent, quirkiness, presentability and smartness. Mr and Miss ITM were crowned in a thrilling finale. Apart from these two titles, Mr and Miss Popular 2014 were



introduced by the organizing Team Fresher's for the first time. Speaking at the occasion, Prof. BS Panwar, Vice-Chancellor, said, "We welcome the new students to our esteemed organization. These young boys and girls are the future of our country and we can shape the future

of our society by nourishing these young minds. During their stay here, we will ensure their overall development."

Health Workshop on World Heart Day

On the occasion of World Heart Day on 29 September, the University conducted a health workshop – ‘Start Early to Keep Your Heart Healthy’ – in collaboration with Health Care at Home (HCAH).

During the workshop, healthcare experts of HCAH apprised the students about measures that they must take to cut the risk factors of heart problems. Accompanied by Dr Gaurav Thukral, Head Medical Services, HCAH, and Kanika Malhotra, Sr Clinical Nutritionist, HCAH, the workshop briefed the students on the factors that are responsible for cardiac ailments and also on dietary habits and changes to be made in the lifestyle to keep heart fit and healthy.

A large gathering of students participated in the workshop and sought personalized nutrition assessment for keeping one’s



heart in good shape. Ms Malhotra shared dietary tips and inclusion of protective foods in diet, besides sharing information on how eating foods rich in vitamin C such as citrus fruits, capsicum, amla can help decrease the urge to smoke. The students learned how to act in the situation if someone suffers a cardiac attack. They

were given a demonstration and students volunteered to practice CPR (cardiopulmonary resuscitation) taught to them during the event.

Diet charts were also provided to the students and the awareness event culminated with an interactive and lively question and answer session.

Momentum 2014

With full-on entertainment and excitement, the much awaited Annual Cultural Fest of ITM University, Momentum 2014 was held from 8-10 October 2014. The students celebrated the extravaganza with much pomp and show. ‘Momentum’ provides the students a platform to showcase their extracurricular talent. Over 14 colleges and universities from Delhi-NCR participated in the fest and exhibited a great show of competition.

The three-day fest started with inauguration by the University’s Pro-Chancellor, Prof. Prem Vrat and Vice-Chancellor, Prof. BS Panwar. The Khushi cell under the social club of the University, Yukti organized the dance show by children of an NGO, Sanshil Foundation which was highly applauded by one and all. The traditional dance and unplugged music performance by students enthralled the audience. The other attractions of the day included musical performances by

different bands and numerous game shows along with exposition of technical projects by the students. Students were seen enjoying different events like rock climbing, tug of war, rangoli, street play, gully cricket, face painting, slow cycling, bull riding and many more. The technical shows were equally attractive and fascinating showing creativity and innovation of engineering students. The technical projects shown in the fest included Obfuscation, Scissor lift, Circuit-o-mania, Digitrix, Web designing etc.

The second and third days of the festival witnessed fashion and dance shows adding glamour to the gala event. Students from different colleges participated and presented a spectacular fashion show. The solo and group dance performances by the students were graceful and highly appreciated. The alluring performance by participants from different colleges added variety and charm to the show.

The grand finale of this gala event was the performance by Bollywood singer,





Badshah who has shot to fame with the quirky dance number, 'Saturday Saturday'. The live performance by him engrossed the audience completely.

Momentum 2014 was an enjoyable experience for the students, who participated with exuberance and enthusiasm.

Club Fiesta 2015



With the onset of spring, comes a season for celebrations. ITM University celebrated its Club Fiesta on 20 February 2015. Various student clubs of the University organized

extracurricular activities and competitions. The students in a jubilant mood turned up in large numbers to showcase their extracurricular skills. They organized several cultural programmes and game shows spread through the day. The day started with a theatrical presentation by Abhimanch, the Drama Club of the University. This year the theme of the street play was 'TRP in media' and how it can slant the news, if not presented in an

unbiased manner. The other attractions of the day were a photo exhibition by Lumiere (Photography club) and musical performances by Encore (Music club) and games by Crossroads (Students club). The Guitar Wars by the University Encore band got students tapping to the beat and enjoying the lively numbers. The Club Fiesta saw a culmination to the week-long activities organized by the Student Clubs which included technical and non-technical quizzes, mime shows, speeches and debates, technical competitions and much more.

Voting Awareness at Raahgiri Day

On Sunday, 5 October 2014, the University students made the Raahgiri day an amalgamation of fun, entertainment and social awareness. It was a unique effort by them to spread the Election and Voting Awareness beautifully blended with the spirit of Raahgiri. The awareness campaign, for the Haryana State Assembly Elections 2014, was conducted by the students of ITMU, led by the University Student Ambassadors Vineet Gupta and Siddharth Ahuja. The campaign was organized near Galleria Market, Gurgaon in which many students from the University participated with zeal. The campaign was aimed to promote fair and peaceful elections where the voter votes fearlessly and without being influenced by considerations of religion, race, caste, community, language or any inducement. The residents showed enthusiasm and more than 300 people pledged to vote in the elections.



ITM University participates in Swachh Bharat Abhiyan



Taking inspiration from the Prime Minister's initiative, the Student Clubs of ITM University – Yukti, Aarohan and Abhimanch together initiated the cleanliness drive in and around the ITM University Campus, under the Swachh Bharat Nirman mission.

On 29 October 2014, the students and faculty of the University spread the

message of the mission and sensitized the residents in the neighbouring residential areas about cleanliness and sanitation. Student volunteers gathered in large numbers to clean the neighbourhood areas of Carterpuri village in Gurgaon. They then went to the Government School in Carterpuri and picked up every bit of garbage littered in the area. The Abhimanch club presented a street play depicting the

importance of cleanliness and hygiene. The students of the Government School were impressed by the message and determined to keep their surroundings clean.

The campaign initiated by the University aims not only at cleaning up the city but also to spread awareness among the students as well as campus neighborhood on the need for a healthy environment. It also intends to improve the appearance of the city. The students and faculty enthusiastically served the social cause by cleaning the areas adjoining to the University and spread the message to one and all.

Speaking on the occasion, the Registrar, Col. Bikram Mohanty (Retd) emphasized on the importance of hygienic environment and sanitation. He encouraged the students and staff of the University to make the campaign a grand success, stressing to build a clean and hygienic India.

Founder's Day Celebrated at the University



It was a day of great enthusiasm and excitement when ITM University celebrated its Founder's Day in grand style on 10 January 2015. The celebration was held on a clear sunny afternoon in the otherwise chilly wintry weather of Gurgaon. The celebrations were attended by large number of faculty of the University, its Management and senior staff of the Administration along with their spouses. Some of the senior academicians who are mentors in the University also graced the occasion.

The presence of the Army pipe band

playing ageless golden tunes enthralled the audience with the performance befitting the occasion. The live performance by a ghazal singer stole the show.

The faculty

members also displayed their talent by presenting their singing and recital skills. The tempo of the celebrations was enlivened when Ms Archana Sarma rendered a few songs and drew a loud applause. Mr Siddharth Bhatia had everyone spellbound with his melodious voice and playing the guitar. The day was celebrated with fervor, zest and enthusiasm at the University.

Founder's Day celebrations provided an excellent platform for all members and their spouses to interact and bond as a family.

A Big Plus for Youth

YES+ is a fun-filled dynamic course for college students and young professionals that can give their lives the boost of energy. The University organized a week long workshop on YES+ from 14-19 October 2014 wherein the participant faculty and staff of the University learnt how to be productive and dynamic while staying cool and centered. They learnt powerful breathing techniques, yoga and meditation which could help increase and conserve energy and manage our time well. It also helped them strengthen their leadership skills, enhance memory and concentration, relaxation from stress and increase self-confidence.

Road Safety Week organized

The University organized Road Safety Week from 10 to 17 January 2015 at the University campus. Students were guided on safety measures on roads and how to act in an emergency. They were also informed about the traffic rules and signals to be followed. Security officer, Mr Sanjeev Kumar guided the students on traffic rules and regulations.

SPIC MACAY organizes Bharatnatyam

ITM University takes the pride of being the nodal centre for SPIC MACAY activities in Gurgaon. The Society for the Promotion of Indian Classical Music and Culture Amongst Youth, (SPIC MACAY), is a movement that promotes Indian classical music, classical dance and other aspects of Indian culture.

On 20 November 2014, the University organized Bharatanatyam dance by Ms Ragini Chandrashekar, who is ranked amongst the finest Bharatanatyam dancers of her generation, with a spanning career of over 25 years. Ms Ragini performed on two poems in devotion of God. She beautifully explained the meaning of both the poems and also addressed the queries of the audience in relation to the art form. Ms Chandrashekar was accompanied by Shri



S Shankar on Nattuvangam, Shri MV Chandrashekar on Mridangam, Shri Rajat Prasanna on the flute and Shri K Venkateswaran as vocalist. The dance

show was followed by an orientation programme conducted by Dr Kiran Seth, the Founder-President of SPIC MACAY.

Spreading Message of Unity, Safety and Security



On the birth anniversary of Sardar Vallabhbhai Patel, 31st October was celebrated as Rastriya Ekta Diwas (National Unity Day). During the celebrations at the University, the staff and students took a pledge to preserve the unity, integrity and security of the nation and to spread this message among their compatriots. The pledge-taking was followed by a recital of the National Anthem. The University publicized the works on Sardar Patel and organized a pictorial exhibition on Sardar Vallabhbhai Patel. The University also organized plays on this theme in the neighbouring Government school to create awareness among young children and sensitize them about the importance of unity, integrity and security of the nation.

Surrogacy - social and legal issues

ITM University, School of Law in Association with Sama, a Resource Group for Women and Health, New Delhi organized the screening of the documentary film titled 'Can We See The Baby Bump Please?' on 3 February 2015. The theme was related to the problems of women from the economically weaker sections of society who act as surrogate mothers because of its monetary benefits. Agents and doctors of private clinics mint money by exploiting these surrogate women who often face risk to their health as well as their life. The film also

highlighted the ethical and legal issues of surrogacy surrounding commercial surrogacy in India. The film explored questions and concerns through the experiences of surrogate women. The film's narrative traced the ethical challenges, medical malpractices, and potential exploitation that can occur when surrogacy is practiced in a legal vacuum. The film focused on the interplay of surrogate women's choices, contexts and compulsions and the urgent need for the protection of the legal rights of the surrogate mother and child.

The students and faculty of the University attended the screening of the documentary film and were enlightened about the social and legal issues related to surrogacy in India from the national and international perspective as well as statelessness and health standards in surrogacy. It was followed by an interactive session, with Ms Simran Sawhney from Sama, in which the key features of the proposed legislation related to surrogacy were discussed.

Republic Day Celebrations

On 26 January 2015, the University celebrated the 66th Republic Day with pomp and show. The rain and cold weather could not dampen the patriotic fervour and enthusiasm of the faculty, staff, students and children who braved the weather to attend the function. After unfurling the National Flag, the Vice-Chancellor, Prof. BS Panwar took the salute as the security staff marched past the dais. The Vice-Chancellor felicitated all faculty members, staff and students on the occasion of Republic Day and paid homage to the great visionary leader, Dr Bhimrao Ramji Ambedkar, who drafted the Indian Constitution. Quoting from Swami Vivekanand, he said that education means the process by which character is formed, strength of mind is increased, intellect is sharpened and by which one can stand on one's own feet. Prof. Panwar said that the aim of education is to make a person a good human being - having good values. According to him, development of a good personality with character is essential for nation building.

Speaking at the occasion Prof. Panwar said that right from the beginning the aim of the founders of ITM University has been to make this a most preferred institution of higher learning. He said



that today our University stands amongst the leaders in the National Capital and the northern region and the credit for achieving this goes to the hard work and dedication of all members of the University. He reiterated his resolve to lead the University

to greater heights so that it is counted amongst the top ten institutions in the country. 'Make in India' and 'Educate at ITM University' was his message of the day. The celebrations were followed by high tea for all.

National Voters' Day

To celebrate National Voters' Day, the staff and students of ITM University participated in the event and pledged to vote in the elections. In the presence of Registrar, Col. Bikram Mohanty (Retd), the students pledged to abide by the democratic values of the nation and to vote in every election fearlessly and without being influenced by considerations of religion, race, caste, community, language or any inducement. 'National Voters' Day' is celebrated on 25 January every year in order to encourage more voters to take part in the political process.

Employees of the Month

ITM University is pleased to announce the following Employees of the Month for their highest number of hours put in their respective departments.

September 2014 :

Dr Sangeeta Chaoudhary Asst Professor, School of Management

Mr Pawan Kumar, Sr Executive Assistant, Administration

Mr Gurminder Singh, Sr Tech Assistant, Dept. of EECE

October 2014 :

Dr Tejpal Singh Chundawat, Assistant Professor, Dept of Applied Sciences

Mr Pawan Kumar, Sr Executive Assistant, Administration

Mr Gurminder Singh, Sr Tech Assistant, Dept. of EECE

November 2014:

Mr Sandeep Singh, Assistant Professor, Dept of CSE & IT

Mr Sanjeev Kumar, Security Officer, Administration

Mr Nitten, Lab Engineer, Dept. of EECE

December 2014:

Dr Rahul Varshney, Asst. Professor, Dept. of Applied Sciences

Mr Dinesh Mishra, Sr Executive Assistant, Administration

Mr Anish Kumar, Lab Engineer, Dept. of EECE

Nature and Wildlife Tour to Jim Corbett Park

The students of ITM University, Gurgaon had an exciting experience on a four day tour to Jim Corbett Park. As a part of extracurricular activities for the all-round development of the students, the University organized an educational-cum-recreational tour to Jim Corbett Park for the students, from 16 to 19 October 2014.

The students had a scintillating experience of watching the wild animals and birds in their natural habitat. The Jeep Safari at the Park was an exhilarating experience for the young students. They also participated in different adventure activities at Kosi river. Under the supervision of experts, the students did river crossing and rappelling with ease and excitement. They also learnt about



safety measures during their training. The students later went on a jungle trek along with a forest guide.

The students enjoyed trekking to Garjia

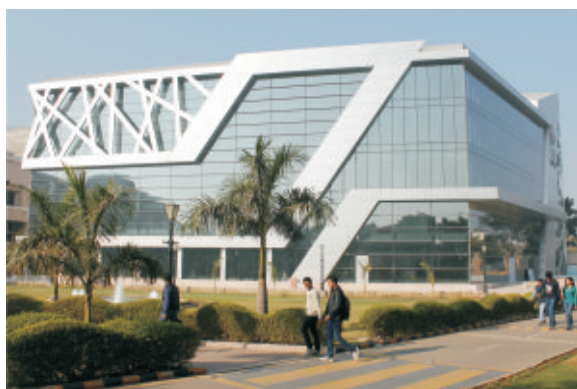
Temple along the Kosi river. The trek to the temple was gratifying and the pleasant weather and company of friends added charm to it.

University's Exceptional Architectural Design finds Accolades in International Magazine

The University adds one more feather to its cap when it was covered in the prestigious American Institute of Architects magazine. The New Academic Block of the University, designed by Sabyasachi Sen & Associates (SSA) presents an excellent piece of architecture. The architects had to face many architectural challenges as the proposed site for the new block was a narrow strip of land immediately abutting and at right angles to the existing building. The new academic block had to be designed to reflect the University's vision of the future without jarring and conflicting with the old one. The design team at SSA had to come up with an extremely innovative and unique solution to address these challenges.

The complete story, covered in American Institute of Architects magazine, can be accessed at:

<http://www.architectmagazine.com/projects/view/itmuniversity/5435/>



Achievements of Enactus ITMU during 2014

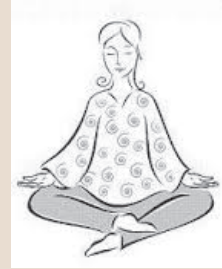


Students Club Enactus ITMU had a wonderful year 2014, starting from appreciable worldwide platform for its project 'Naya Ujala'; to sponsored project by Mahindra for 'Kisaan Ki Umang'; and students being a part of a seminar on entrepreneurship and leadership at St Stephens College. The Project 'Naya Ujala' spreads lights in the interiors of NCR where people still suffer from darkness, due to lack of electricity. The Project 'Kisaan Ki Umang' under the leadership of Karan Kattar, a student of Enactus ITMU, works upon the cultivation of Jatropha seeds, used to process bio – diesel. The projects were not only appreciated but also encouraged at the national and international platforms. Faculty coordinators, Dr Dipti Vaya and Ms Sagarika Goswami, along with their team are working upon new projects to be implemented in the coming year.

Sahaj Yoga Classes started at University

Under the initiatives of Dr Feras Al-Hakkak, Dept of Mechanical Engineering, the University started Sahaj Yoga classes for the faculty and staff of the University. These Yoga classes are being held every alternate Friday from 4 pm to 5 pm.

Sahaj Yoga is a simple, easy and a good technique for achieving inner silence and stress management. It helps us have better concentration, study better, become prosperous, achieve more, be confident and enjoy every moment. It helps in how to achieve self-realization, meditate, and balance our systems.



Team Yukti's Social Service

Yukti Club donates clothes to needy

Yukti, the social service club of the University, distributed clothes to the economically challenged people in its Vastradaan scheme on 25 November 2014. The Vastradaan was scheduled in the construction sites in Bajgeda, Gurgaon which was enthusiastically accepted by the poor and needy people. With the generous contribution from the University's staff for the collection, the members of Yukti and the coordinating faculty could make this social service a success. Yukti looks forward to organizing more such events in the future to help the deprived strata of the society.



I Love My Tiranga



ITM University welcomed Mr Khalid Qureshi, the initiator of 'I Love My Tiranga' programme and organized the event in the University to spread awareness among students and staff of the University on the importance of our national flag. The event was organized

under the banner of University's social club, Yukti on 20 February 2015. The students and staff of the University participated in the programme and ran at the campus grounds along with Mr Qureshi with the tricolor flags.

'I Love My Tiranga' is a social initiative

by Mr Khalid Qureshi, a Ticket Collector in Western Railways to inspire and encourage all Indians to embellish their homes and institutions with the Indian national flag. To spread the message, Mr Qureshi completed a marathon run from Mumbai to Delhi holding the Tiranga, covering a distance of over 2000 KM. He has visited several educational and religious institutions to encourage them to keep Tiranga in their premises.

Speaking on the occasion, Mr Qureshi said that one doesn't need a reason to fly the national flag aloft one's house. The Tricolour is our pride and we should love and respect it by fluttering it atop our houses and other buildings.

School of Engineering and Technology

Department of Electrical, Electronics and Communication Engineering (EECE)

Research Papers Published/Presented

Journals

International

1. Rishika Kaloniya, **Sharda Vashisth** and **Pooja Sabherwal** (2014), 'Study of ECG Signal Features Extraction using Wavelet Transform - A Review', Current trends in signal processing, Vol.4, No.2, pp. 1-6, I.F - Nil, **ECE2014J054**.
2. Malika Narang and **Sharda Vashisth** (2014), 'Infant Cry Analysis for Emotion Detection by using Cross-Correlation Algorithm', Journal of Medical Science and Technology, Vol.3, No.2, pp.pp. 27-33, I.F - Nil, **ECE2014J055**.
3. Pankti Brar and **Sharda Vashisth** (2014), 'Arterial stiffness and parameters for its assessment', Journal of computational Biology, Vol.3, No.2, pp.16-19, I.F - 1.564, **ECE2014J056**.
4. **Shaifali Jain** and Ragi Jain (2014), 'Microcontroller Based Solar tracking System for enhancing efficiency of a Photovoltaic system', Int. Journal of Engineering Research and Applications, Vol.4, No.9, pp. 73-79, I.F - 1.69, **ECE2014J057**.
5. N Kumar Swamy, N Pavan Kumar, P Venugopal Reddy, Manish Gupta, S Shanmukharao Samatham, D Venkateshwarulu, V Ganesan, Vikas Malik and **BK Das** (2014), 'Specific heat and magnetocaloric effect studies in multiferroic YMnO₃', Journal of Thermal Analysis and Calorimetry, Springer Publication, Vol.118, No.1, I.F - 1.982 (JCR), **ECE2014J058**.
6. **Menka**, Anand Bulusu and S Dasgupta (2015), 'Insights into channel potentials and electron quasi-Fermi potentials for DG tunnel FETs', Journal of Semiconductors, Vol.36, No.1, pp.014005-6, I.F - 0.9, **ECE2015J001**.
7. Sayan Seal, **Vinay Budhraj** and Vasundara V Varadan, (2015), 'Enhanced Light Trapping in Thin Film Solar Cells Using a Plasmonic Fishnet Structure', International Journal of Photoenergy, No.910619, pp.1-8, I.F - 2.166, **ECE2015J002**.
8. **Prabhat Kumar Sharma**, Ankur Bansal and Parul Garg (2015), 'Relay Assisted Bi-directional Communication in Generalized Turbulence Fading', Journal Of Lightwave Technology, Vol.33, No.1, pp.133-139, I.F - 2.862, **ECE2015J003**.
9. **Vandana Khanna, BK Das, Dinesh Bisht, Vandana** and PK Singh (2015), 'A three diode model for industrial solar cells and estimation of solar cell parameters using PSO algorithm', Renewable Energy journal, Vol.78, No.1, pp.105-113, I.F - 3.842, **ECE2015J004**.
10. Nidhi Verma, Ishaan Dua and **Naresh Kumari** (2014), 'Scenario of Rural Electrification in India- Challenges and Impact', International Journal of

Books Published

International

Prof. Prem Vrat, 'Materials Management: An Integrated Systems Approach', ISBN: 9788132219699 (hard bound), 9788132219705 (ebook), September 2014, Springer publication, New Delhi.

National

Subhradipta Sarkar (2014), 'Rights of Children and School Safety - A Legal Perspective', All India Disaster Mitigation Institute, pp.56, SOL2015B001.

Engineering Research and Applications, Vol.4, No.12, pp.39-43, I.F - 1.69, **ECE2015J005. (Paid)**

National

1. Rishika Kaloniya and **Pooja** (2014), 'Sleep Apnea syndrome detection techniques using ECG signal recordings -A survey paper', International Journal for Research in Applied Science & Engineering Technology, Vol.2, No.10, pp.354-360, I.F - 0.35, **ECE2014J059**.

Conference Proceedings

National

1. **Neeraj Shukla, Shivani Garg** and Komal (2015), 'Coverage Driven Assertion based Efficient verification environment for programmable interval timer core', TEQIP sponsored national conference on, 'Advances in Electronics and Communication Technologies', Organized by-Deenbandhu Chhotu Ram University, **ECE2015C001**.

Department of CSE & IT

Research Papers Published/Presented

Journals

International

1. **Shilpa Mahajan**, Jyoteesh Malhotra and Sandeep Sharma (2014), 'An energy balanced QoS based cluster head', Egyptian Informatics Journal, Vol.15, No.3, pp.189-199, **CSE2014J068**.
2. Priya Hooda and **Supriya Raheja** (2014), 'Vague Logic Approach to Disk Scheduling', International Journal of Intelligent System & Applications, Vol.12, pp.48-54, **CSE2014J069**.
3. Neetu Gupta and **Hitesh Yadav** (2014), 'BPMN to BPEL: Implementing ATM System', International Journal on Recent and Innovation Trends in Computing and

Communication, Vol.2, No.11, pp.3796-3798, **CSE2014J070**. (Paid)

4. Neha Gehlot and **Jagdeep Kaur** (2015), 'Dynamic inheritance coupling metric-design and analysis for assessing reusability', International Journal Software Engineering, Technology and Applications, Vol.1, No.1, pp.118-133, **CSE2015J001**.

National

1. **Supriya Raheja**, Reena Dhadich and Smita Rajpal (2014), '2-Layered Architecture of Vague Logic Based Multilevel Queue Scheduler', Applied

Computational Intelligence and Soft Computing, Vol.2014, No.NA, pp.1-12, I.F - NA, **CSE2014J067**.

Conference Proceedings

International

1. **Ashu**, Rita Rana Chhikara and Deepika Bansal, 'GLCM Based Features for Steganalysis', Confluence 2014, pp.385-390, **CSE2014P036**.
2. **Usha Batra**, Saurabh Mukherjee and Anuj Ramesh Yadav (2014), 'Analytical Comparison of Aspectized Service Oriented and Distributed Objects', IERI Procedia, pp.71-76, **CSE2014P035**.

3. Chhavi Sharma, **Neha Sahu** and Ranjani Kumari (2014), 'Review of Face Recognition Techniques', 8th International Conference on Advanced Computing and Communication Technologies, pp.46.49, **CSE2014P037**.

4. **Shilpa Mahajan** and Akanksha Mutneja (2014), 'Design solutions for network improvement using QoS parameters', Computer Society of India, Institution of Electronics & Telecommunication Engineers, IEEE Delhi Section, ICACCT2014, pp.62-67, **CSE2014P038**.

Department of Mechanical Engineering

Research Papers
Published/Presented

Journals

International

1. Khushal Khera, **Anmol Bhatia**, Sanjay Kumar and Mehul Bhatia, 'Investigation of the Effects of Various Heat Treatment Processes on Microstructure & Hardness with Respect to Corrosion Behavior for Carbon Steels', International Journal of Engineering and Advanced Technology (IJEAT), Vol. 3, No.6, pp. 72-75, ISSN: 2249- 8958, **MED2014J010**.

National

1. **Anmol Bhatia**, Sanjay Kumar and Parveen Kumar, 'A study to achieve minimum surface roughness in WEDM', Procedia Materials Science Journal of Elsevier (Science Direct), Vol. 5, pp. 2560-2566, **MED2014J011**.

Department of Civil & Environmental Engineering

Research Papers Published/Presented

Journals

International

1. **Prachi Sohoni** and **Vaishali Sahu**, 'Use of waste material in concrete blocks', International Journal of Advanced Research in Science and Engineering, Vol.3, No.1, pp.565-569, I.F-Nil, **CEE2014J014**.
2. Kasra Mohammadi, Shahaboddin Shamshirband, Chong Wen Tong, Muhammad Arif, Dalibor Petkovic' and **Sudheer Ch** (2015), 'A new hybrid support vector machine-wavelet transform approach for estimation of horizontal global solar radiation', Energy Conversion and Management, Vol.92, No.1, pp.162-171, I.F - 3.59, **CEE2015J001**.
3. Thainswemong Choudhury and **Anil Kumar Misra** (2015), 'Minimizing changing climate impact on buildings using easily and economically feasible earth to air heat exchanger technique', Mitigation and Adaptation Strategies for Global Change, Vol.19, No.7, pp.947-954, I.F - 2.019, **CEE2015J002**.

Conference Proceedings

International

1. **Purnima Bajpai** and **Ankit Pachouri** (2014), 'Socio-economic aspects of

rural road development in India and its role in enhancement of GDP of the nation', Management of Accounting, Finance, Marketing, Entrepreneurship, Economics and Business (MAFMEB-2014), Jawaharlal Nehru University, New Delhi, pp.68-71, **CEE2014P005**.

2. **Prachi Sohoni** and **Vaishali Sahu** (2014), 'Behaviour of Concrete Reinforced with Flax Fibre', International Symposium on Advanced Science and Technology in Experimental Mechanics, Japanese Society for Experimental Mechanics, pp.1-6, **CEE2014P006**.
3. **Vaishali Sahu**, **V Gayathri** and Amit Srivastava (2014), 'Unconfined Compressive Strength and Durability of a Composite Material made from Fly Ash and Lime Sludge', International Symposium on Advanced Science and Technology in Experimental Mechanics, Japanese Society for Experimental Mechanics, pp.7-12, **CEE2014P007**.
4. **Vaishali Sahu** and **Prachi Sohoni** (2014), 'Landfill Gas - A Potential Source of Green Energy', International Symposium on Advanced Science and Technology in Experimental Mechanics, Japanese Society for Experimental Mechanics, pp.13-18, **CEE2014P008**.

Department of Applied Sciences

Research Papers Published/Presented

Journals

International

1. Pankaj Attri, Eun Ha Choi, Gi-Chung Kwon, Rohit Bhatia, Jitender Gaur, **Bharti Arora** and In Tae Kim, 'Single-walled Carbon Nanotube-triethylammonium Ionic Liquid as a New Catalytic System for Michael Reaction', Bull. Korean Chem. Soc., Vol.35, No.10, pp.1-6, I.F-0.835, **APS2014J016**.
2. **Sunil Hans**, Dinesh Tripathi and Babita Tyagi, 'Some Inequalities for the Derivative of Polynomials', Journal of Mathematics (Hindawi), Vol.2014, No.Article ID 160485, pp.5, **APS2014J017**.
3. **Sunanda Vashisth, Hukum Singh, AK Yadav and Kehar Singh**, 'Image encryption using fractional Mellin transform, structured phase filters, and phase retrieval', Optik, Vol.125, pp. 5309-5315, I.F-0.786, **APS2014J018**.
4. **Hukum Singh, AK Yadav, Sunanda Vashisth and Kehar Singh**, 'Fully phase image encryption using double random-structured phase masks in gyrator domain', Applied Optics, Vol.53, No.28, pp.6472-6481, I.F-1.649, **APS2014J019**.
5. **Sunita Sharma**, Shaila Bahl, Santanu Ghosh, K. Asokan and **Pranati Purohit** (2014), 'Growth and characterisation of ZnO and TiO₂-MWCNT nanocomposite for dye sensitised solar cells', Advanced Science Letters, Vol.20, No.7, pp.1576-1579, I.F - 1.253, **APS2014J020**.
6. **Hukum Singh, AK Yadav, Sunanda Vashisth and Kehar Singh** (2014), 'Double phase-image encryption using gyrator transforms, and structured phase mask in the frequency plane', Optics and Lasers in Engineering (Elsevier), Vol.67, No.NA, pp.145-167, I.F - 1.695, **APS2014J021**.

7. **N Chandramowliswaran**, S Srinivasan and P Muralikrishna (2015), 'Authenticated key distribution using given set of primes for secret sharing', Systems Science & Control Engineering: An Open Access Journal (Taylor & Francis.), Vol.3, pp.106-112, I.F - 0.566, **APS2015J001**.

8. **AK Yadav, Sunanda Vashisth, Hukum Singh and Kehar Singh** (2015), 'A phase-image watermarking scheme in gyrator domain using devil's vortex Fresnel lens as a phase mask', Optics Communication, Vol.344, pp.172-180, I.F - 1.542, **APS2015J002**.

National

1. **K Thyagarajan** and Ruchi Gupta, 'Long Period Fiber Grating Based Novel Optical Fiber Devices', Journal of Indian Institute of Science, Vol.94, No.3, pp.311-317, I.F-nil, **APS2014J015**.

Conference Proceedings

Papers Presented

International

1. **Rashmi Tyagi** (2014), 'Application of Nitrogen and Phosphorus Stress Conditions for Biomass and Oil Production by *Chlorella vulgaris*', Tropical Ecology Congress, JNU, Delhi, **APS2014C013**.
2. **Sunita Sharma** (2014), 'Synthesis and optical limiting properties of sulfurhodamine B doped polymethylmethacrylate matrices using Nd:YAG laser', Third International Conference on Polymer Processing and Characterisation, Mahatma Gandhi University, Kerala, **APS2014C014**.
3. **Neha Yadav** (2014), 'Artificial Neural Network Technique for the Solution of Non-Linear Elliptic Boundary Value Problems', Fourth International Conference on Soft Computing for Problem Solving, NIT, Silchar, Assam, **APS2014C015**.

Centre for Languages Learning

Research Papers
Published/Presented

Journals

International

1. **Payal Khurana** (2014), 'Black Humour Elements Exhibiting Dystopian Reality in Nathanael West's A Cool Million', Vetri Education, Vol.IX, No.4, pp.28-32, I.F - Nil, **CLL2014J002**.

School of Management

Research Papers
Published/Presented

Journals

International

1. **Ravindra Ojha, Anil K Vij and Prem Vrat** (2014), 'Manufacturing Excellence and its Critical Factors: An Interpretive Structural Methodology Application', Journal of Advances in Management Research, Vol.11, No.3, pp.312-332, **SOM2014J014**.
2. Poonam Kumari, **Nirupma Gupta** and **Shilpa Sindhu** (2014), 'Modeling the barrier to rural marketing using the interpretive structural modeling approach', The IUP Journal of Marketing Management, Vol.XIII, No.3, pp.7-30, I.F - Nil, **SOM2014J015**.
3. Alpana Agarwal and **Prem Vrat** (2014), 'An analogy between organisational and individual cultural profiles: Revisiting Denison's Model of culture', Value-Based Management, Vol.3, No.2, pp.13-26, I.F - Nil, **SOM2014J016**.
4. Irameet Kaur and **Charu Shri** (2014), 'Achieving self-transcendence for inspiring and helping others: The role of social media', Value-Based Management, Vol.3, No.2, pp.69-82, I.F - Nil, **SOM2014J017**.
5. Irameet Kaur and **Charu Shri** (2014), 'Music, emotions and work: An empirical study in the education

sector', Value-Based Management, Vol.3, No.2, pp.95-104, I.F - Nil, **SOM2014J018**.

National

1. Alpana Agarwal and **Prem Vrat** (2014), 'Bio inspired managerial insights for a flexible and efficient organisation: A SAP LAP analysis', Global Journal of Flexible Systems Management, Vol.15, No.4, pp.345-361, I.F - Nil, **SOM2014J019**.

School of Law

Journals

International

1. **Sanoj Rajan** (2014), 'Principles of Laws of War in Ancient India and the Concept of Mitigating Armed Conflicts through Controlled Fights', Journal of International Humanitarian Legal Studies, Vol.5, pp.333-351, **SOL2015J002**.

National

1. **Subhradipta Sarkar** (2014), 'Recognition and Protection of Refugees' 'Right to Nationality' under Indian Legal Regime: A Passage

from Refuge to Statelessness?', Chanakya National Law University Law Journal, Vol.4, pp.128-146, **SOL2015J001**.

Conference Presentations

National

1. **Titasha Banerjee** (2015), 'Gender Equality a Myth or Reality: A study in the lights of LGBT community', National Seminar On Challenges To Indian Democracy – A Socio Legal Perspective, organized by Amity University, MP, **SOL2015C001**.



Strategic Utilization of Social Networking



Dr Ruchi Nayyar
Assistant Professor
School of Management

Traditional communication between a consumer and an organization has been more or less one-way. Marketers love to educate selective target audience about their products or services. Social media and Internet propose a two-way communication system whereby the flow of information between a consumer and the company is bi-directional. A successful community over social media can be created by establishing a sense of trust, authentic voice and social presence. Even today, word of mouth marketing is the most effective method to reach out to customers and build trust. A happy and satisfied customer is the company's best brand evangelist. However innumerable challenges can crop up while building an online community of fans due to differences in background, understandings and expectations.

In today's times, children are born in a world woven with cables and wireless connectivity. Younger generation excels in the art of digitally juggling their lives. Social media promotes a sense of community as it allows people to communicate, collaborate, converge and be creative using digital media. Customers' demands are ever-increasing. Apart from satisfying their hedonistic and utilitarian needs, they also require channels to voice concerns and opinions. They tend to carry out extensive information research to educate themselves in innovative products and services available in the

market. Social media has the power to significantly influence a business. Therefore it should be seamlessly integrated in any marketing strategy design process to not only interact with customers but for reputation and brand management as well.

Social networking sites (SNS) facilitate social networking. They allow members to create public profiles and form relationships with other members. Users are able to articulate and make their social network visible. Strangers are able to initiate relationship building through such platforms. At times, it results in connections which are otherwise difficult to be made define a social network site as a place where users can create their own profile, become friends with other users, write updates or messages and share pictures. Social networking's popularity is growing manifold. Be it LinkedIn invitations from brand icons, promotions on Twitter or advertisements on Facebook; social media has become the famous buzzword. People are spending more time on Facebook than any other site. Accessing social media has become the most preferred choice of mobile owners.

Social networks have interested a lot of like-minded individuals to congregate on online channels and share common interests. Social media platforms have impacted contemporary consumer decision process by radically changing the interaction between customers and brands. Marketers can utilize the power of social networking sites (SNS) to increase their visibility to consumers. Social networks facilitate a two-way communication between the consumer and marketer. The volumes of blogs posted affect actual sales for organizations. The impact of online word of mouth on social channel is greater than traditional word of mouth interaction. This necessitates the importance of encouraging online word of mouth.

The darker side of social networking cannot be overlooked. Social media content is not avowedly innovation and mostly talks about ongoing life activities. The content may infuse a general dissatisfaction amongst users and feeling

of getting addicted. It may also, to some extent, impact self-esteem of users. Vacation pictures, physical beauty and posts of family happiness tend to trigger feelings of animosity and can lead to discontentment in youth. Nevertheless, social networking has a lot to offer to e-marketers. It must be integrated with the other online as well as offline marketing activities of the company. Opportunity cost needs to be evaluated based on which, the most suitable marketing campaign (offline/online) should be adopted. At times marketers may feel that the number of visitors on their SNS has exceeded in comparison to their official company's website. This should be considered as a positive indicator of growing brand awareness. Here, using integrated technology, the social media channel should be used to drive more traffic to the official website.

If content is king, quality is queen. Poorly-ranked social networking sites either lack in quality, perceived ease of use, perceived usefulness, content, and/or unsuitability for target. Posts on social media should be highly effective. Humbleness, truthfulness and brevity are the key constituents of an effectual post. Also, posts should be educational enough to quench a reader's thirst for information. Rather than populating a page, 5-6 relevant posts per product at regular time intervals are sufficient enough to engage a customer. Digital marketing is not just selling. It fosters interest, awareness and demand for the products or services. Selling takes place later. There is no scarcity of digital tools in the present tech-facilitated marketing. Unfortunately, not every tool is applicable for each online campaign. The best tools create relationships with customers. They manage knowledge sharing experiences to bring the company closer to its customers. Social CRM is the need of the hour!

A successful Social CRM strategy promotes engagement and interaction with the target audience. This definitely does not only involve posting some relevant information about the company's products or services. Also, inconsistency

in information dissipation can lead to loss of potential customers. Marketers must “listen beyond brand” to their community members before they start strategizing social media. Equally important is to identify measures to evaluate social media strategy effectiveness. Traditional CRM strategies do not work well on social media. These strategies focus more on managing customer relationships to extract maximum customer value. Contrarily, Social CRM strategies must facilitate collaborative experiences and other information that customers’ value. Therefore, in a social environment, traditional CRM strategies must be restructured to meet the customers’ online interests. This has fashioned a

new “technologically-enhanced” culture of learning.

The key processes for strategic utilization of social media fall under three main categories- Launch, Manage and Optimize. Launching digital media involves identifying the organizational goals, value proposition, target audience, motivators, available resources and in-house teams based on which the most appropriate social media tools are selected for content development. Managing digital media puts the entire tools and resources into action. By facilitating social shares, embeds, links, comments and likes, marketers can build a community apart from increasing brand awareness. Once, a respectable online

community is build, the subsequent phase is engagement. At this point, the underlying objective is to identify the most influential target audience, drive audience participation and improve brand sentiment. The final stage involves optimizing the online marketing initiatives by integrating it into the broad organizational structure. Measuring campaign effectiveness is equally critical to establish standards. Digital media should drive conversions and performance metric tools are crucial for tracking and benchmarking success over time.

Green Technology



Dr Kamlesh Sharma
Assistant Professor
Department of Applied Sciences

The ‘Green Technology’ is the technology which has a ‘Green’ purpose. It means the technology which is environmental friendly, developed and used in such a way that will reduce environmental footprints, conserve natural resources, and thus keep the nature green. These are innovations that often involve energy efficiency, recycling, safety and health concerns, renewable resources, and many more. The research fields that come under green technology are the Green Energy, Green Building, Green Chemistry and Green Nanotechnology.

Green Energy is the most urgent need for Green Technology today. It includes the development of alternative fuels, new means of generating energy and the energy efficiency. In fact the fossil fuels (such as natural gas, coal and petroleum, etc.) should be replaced by the use of agriculturally obtained fuels, biodiesels, and many more. The use of biofuels, hydropower, solar power, wind power, biomass etc. must be encouraged. The higher mileage vehicles, green transportations, GPS, electric motors, green mobile phones are good example of energy efficient devices and must be used. More energy efficient refrigerators must be designed. This means generating electricity and fuels with diminishing environmental footprints and pollution should be emphasized in near future.

The Green Building concept is equally important as well. The green building research comprises the processes ranging from the selection of building ingredients to where a building is situated. However, the Green Chemistry is schematic designing and use of the chemical products as well as the methods to eliminate or decrease the use and generation of toxic solid, liquid or gaseous waste. In addition, the Green Nanotechnology is also an interesting research area which encompasses the

manipulation of materials at the scale of the nanometre. Green nanotechnology in fact is the application of green chemistry and green engineering principles. There are twelve principles of green chemistry and technology. The first principle is to ‘Prevent Waste’. As a green chemist, chemical transformations should be designed in such a way that generation of hazardous waste or toxic chemicals can be minimized. This will further reduce the hazards related with waste transport, storage, and its treatment in waste treatment plants.

The next and very vital step is to maximize the ‘Atom Economy’, which is a measure of the proportion of reactants that convert to a useful product. As a green technologist, methodologies should be designed in such a way that the all starting materials should be able to get converted into the product, resulting in fewer waste atoms or by-products. This will be a more efficient and waste minimizing step.

The next principle is ‘Designing Less Hazardous Chemical Synthesis’. Wherever feasible, projects should be designed to generate and utilize the substances or chemicals which possess minor or no hazard to the human health and the environment. The goal should be the use of environmentally friendly substance that simulates the minimum

hazard and produces only less side-products as a waste. However, the materials should be designed in such a way that it will be potentially effective for the target application and inherently minimizing the toxicity. In academic labs as well as industries the principle 'Design Safer Chemical and Product' should be applied in designing the new target products.

However, to achieve this goal, the principle of 'Safer Solvents and Reaction Conditions' should be used which is very important as the solvent used leads to waste. The reduction of solvent amount or complete exclusion of solvents should be preferred. In cases, where the solvent is required, less toxic solvents should be employed so that environmental and economic impacts would be minimal. Whenever possible, methods should be designed for the use of ambient temperature and pressure; this would minimize the energy costs and will follow the next principle of Green Technology i.e. 'Increase Energy Efficiency'. In addition 'Use of Catalysts' should be encouraged as a green chemist. As it is well known that catalyst can (i) reduce the temperature of a reaction, (ii) enhance the selectivity of a reaction and (iii) thus can improve the extent of conversion of reactants to a

product. However, by reducing the reaction temperatures, one can minimize the energy uses and potentially can avoid the undesirable side-reactions and thus can minimize side-product formation. The next and important principle is 'Avoid Derivatives'. This means that unnecessary protection and de-protection of functional groups should be avoided because such steps require addition chemicals and generate waste.

Wherever applicable, 'Renewable Raw Material should be Utilized'. The targets should be designed in such a way that renewable raw material can be used as much as possible. The agricultural products or agricultural wastes are the good example of renewable raw material. This will definitely help in depleting feedstocks that are mined or generated from the fossil fuels (e.g. coal, natural gas, petroleum, etc.).

The next vital principle of the green technology is designing for the 'Degradation'. The efforts related to this principle emphasis on designing and synthesizing materials that degrade or reduce into nontoxic substances when released into the environment. This implies that projects or material should be design in such way that at the end of their function they break down into harmless

degradation fragments and do not persist in the environment.

The principle 'Analyze in Real-Time to Prevent Pollution' should implicate strongly. This principle is actually about to monitor the prevention of pollution during progress of a reaction or a project to identify the development of any undesirable hazardous waste. Whenever feasible, experiments should be designed and used to permit for real-time, in-process monitoring and control of the growth of toxic materials. 'Minimizing the Potential for Accidents' should also be encouraged. One way to reduce the probability for chemical accidents is to select green solvents (e. g. water, glycerol, ionic liquids etc.) and reagents that minimize the potential for the explosions.

In fact, by understanding and implicating the 'Green Technology' at every step, humans will be aware of developing an aptitude for innovative green methodologies that will minimize the toxicity and other hazards on earth. This will laid the foundation for green pathways in our life and will definitely be a step to prevent the 'Global Warming'.

Engaged Employees –The Real Wealth of an Organization



Dr Nirupma Gupta
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School of Management

In India, the rapid expansion of new businesses to meet diverse needs worldwide has created thousands of job avenues. With more choices in hand in terms of growth opportunities, job-hopping is getting prevalent among employees. In the past, jobs were not much demanding and crucial jobs vacancies could be filled up with sufficient number of desired candidates. Furthermore, once employed, people would often spend their entire career in the same job. In areas of frequent turnover, new employees could be selected with timely planning and conscious efforts by the organization.

These days there is a huge demand for multi-skilled professionals. The supply of competent manpower is inadequate and a sound manpower planning necessitates

thoughtful and two-fold approach of aggressive recruitment and innovative retention strategies. Organizations spend time and money in recruiting and training employees so that they fit in the organization. When such employees leave the company, they create a vacuum which is not easy to fill. Employees are the most valuable asset of any organization. Committed employees are the only wealth of the organization that cannot be stolen. So, it is in the long term favour of the organization to build and nurture this wealth of employees by retaining them and providing them such work environment which makes them engaged with the organization. Importance of retaining employees remains the same irrespective of the size of the organization, its nature of business or the country of

operation. The only difference lies in realizing the need of immediate attention and curing the problem of employee unrest.

Deal with things before they emerge, put them in order before there is disorder.

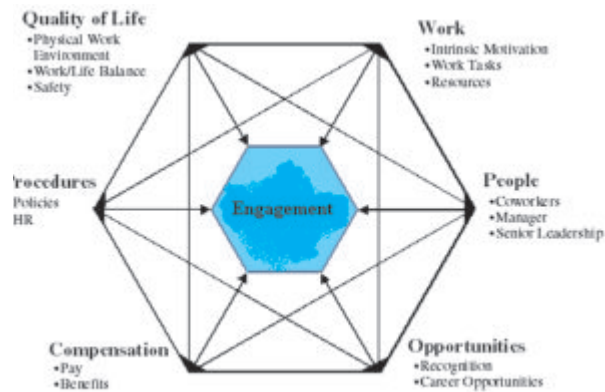
In the words of AL Gini, a philosopher, "Adults need meaningful work in the same way that children need interesting play, in order to fulfill themselves as persons." Thus, a discussion of problems that employees face and leave jobs will give a fair view and justification for possible retention practices that can be followed to make employees' work interesting and maximizing their potential as persons.

Today employees do not stick to a particular organization just for want of money. They also look for appreciation and recognition for work, high growth prospects, comfortable work schedules, better work standards, and many more such things. Besides, not only employees should be retained but they should also be engaged through innovative management practices for enjoying competitive advantage in an era of rapid growth

According to former GE Chairman and CEO, employee engagement is a measure of a company's health. No company, small or large, can be successful in the long run without energized employees. Institute for Employment Studies defines engagement as: 'a positive attitude held by the employee towards the organization and its values'. An engaged employee is aware of business vision, and works with peers in mutually cohesive groups for the benefit of the organization. Such employees meet and willingly exceed their objectives. They are the internal customers of the organization who are not only satisfied but delighted.

It is difficult to devise a single strategy that fits into varied needs of employees to ensure successful employee retention. Generally, a blend of factors contributes towards an employee's choice of continuing in the same job and energizes his work behaviour. These factors are better described in terms of Engagement Model proposed by Institute for Employment Studies.

These factors contributing to engagement might vary from person to person depending upon the personal needs,



Hewitt Engagement Model

perception, family background, culture and personality of an individual. Though, it is a herculean task to design a basket of employee engagement programmes that can be appreciated and welcomed by all in the organization but still organizations are leaving no stone unturned in finding innovative ways to keep the employees engaged and giving them an opportunity to maintain a work-life balance. Here, I would like to mention many such initiatives in the field of Quality of Life.

To catch some light moments, organizations such as Coca-Cola arrange for unique and whacky awards in special categories such as 'the-person-who-is-always-on-the-phone' award, 'all is well' award to the most optimistic person. Many team building events such as sports, fun games, family day, etc. are organised wherein people enjoy the platform of mutual interaction. Travel portal MakeMyTrip.com organizes Fun Friday games on the floors in addition to celebrating major festivals for team bonding. Employees are further relieved of tension of leaving their children all alone at home during summers vacations through corporate summer camps. These camps organize magic shows, clay modeling, art and craft, film shows, dance classes and many such initiatives that develop little minds and souls and give an opportunity to budding talents. For e.g. Mphasis garners employee loyalty by hosting a one-month long summer camp for kids between 3-12 years during April/May. Implementing flexible working hours is another policy by which employees, specially the working mothers, feel relaxed as they have multiple roles to play and offering a choice of work

timings enables them to perform multi tasks more efficiently and effectively.

Though we all are quite grown up but still the corner of every heart is occupied by a child and its emotions which are reflected when we look for moments of enjoyment and happiness at work. Respecting this, I would also like to suggest some initiatives that can be thought of for bonding employees with the organization.

Open door practice: Organizations can have an open door policy to encourage employees to discuss their problems without any hitch or fear. If any employee feels unfair treatment is done to him or he has any other question which if remains unanswered may affect his performance or peace of mind, he can be given full freedom to discuss it with his supervisor and higher authorities by going through proper channel.

Departmental lunches and informal get-togethers: Departmental lunches and informal get-togethers can be organized to inculcate a sense of togetherness within the functional group thus leading to better and coordinated team efforts.

Rewards & Recognition programme: Rewards & Recognition Programme can be organized where performance and contribution of employees is acknowledged. Employees can be given awards in the form of cash, tickets, gift certificates, mugs, and other items or citations can be displayed on notice/bulletin board. They can also be recognized by an Appreciation letter from top level management, phone calls, e-mails, admiration notes from peers or honoring with special awards such as

'Employee of the Month' award. Rewards in the form of trainings, reimbursements of books for kids or in the form of eligibility of a premium parking lot for good performance can be other ways of rewarding.

Long service recognition: Recognizing employees for their continuous service is an immensely popular way to boost morale and motivation. Awards can be given to employees who are with the organization for five and more years in the form of memento, certificate and cash award to demonstrate their excellence in service and as recognition for their long association.

Suggestion box: People can be encouraged to be forthcoming by having suggestion box where anyone can put any suggestion without his or her name.

Token of wishes: There can be a provision of sending a cake or bouquet for employees and their families on special occasions like Birthdays, Marriage anniversaries etc.

Theme days: Special days can be assigned to celebrate a particular theme such as traditional dress day or casual wear day. This acts as breeze of freshness in dull and monotonous work environment.

Conducting exit interviews: Organization can have a procedure for taking exit interviews to get an insight into the reason of employee exits for taking action in future and to prevent exit of other employees. Such interviews if used wisely can be a gold dust by providing an early warning sign about what employees need to continue doing great jobs.

But at the end it is necessary to mention that all these privileges have a meaning when employees also realize their duties and broaden their horizon of thinking. They need to give a back seat to mutual criticism, and inculcate a feeling of appreciation for the sheer hard work of the deserving employees and an initiative by the organization for giving its employees an extended family at workplace.

You Can be What You Want to be



Vijay Kumar Ghai
Sr Executive
Secretarial Services

What do you want to become – a special person or just another person? The question is simple and most of the people can reply without thinking twice that they want to be a special person. No one thinks of becoming an ordinary person, or in other words, just another person. Although the reply to this question looks to be simple, it involves a lot of action. You can become what you want to be.

If you want to be an ordinary person, you may get lost in the fair of the world. No one will notice you. But if you want to be someone special and extraordinary, you should try for it. Today, education is very

essential for everyone. You should try to go for higher education from some good institution, like ITM University. This will make you different from others. Without education, a person is like a watch without cell. If all the parts of a watch are arranged properly, but there is no cell, the watch will not work. Similarly, a person without proper education is useless.

If you want to achieve which you have never achieved then do something that you have never done before. It is said, "Aim for the moon; if you don't get it you will land on stars." This means you should aim high and should try to achieve bigger. If you are not able to get what you want, even then you will achieve something. But if you will not try for achieving big, you will not be able to get anything. History has been made by people who decided to write their life in a different way. It is said, "Winners do not do different things, they do things differently." If you want to be different from others, you should think in a different way. Winners make their own way and others follow them. To be a leader, you should make your ways. This does not mean that you should choose the wrong ways.

A responsible person should learn how to unlearn the things. Then only, he will be able to learn new things. There is a story of a philosopher. If anybody came to the philosopher and asked for some advice, he used to say, "Empty your cup first." He explained that our minds are like a cup which is filled by the things we have seen and learnt. If we want to add something to a filled cup, it will not go inside. Therefore, we should empty our cup first. Then only, we can add something new.

If you are not ready to get defeated, you will move to new heights. It is important to keep going. You should not stop till you reach your goal. If you stop in the middle, you will never reach the end. You should set your mind to face all problems that come in your life. You should work hard and be ready for the struggles of life. If you are face the things, fight with the troubles, learn new things, do new and different things, you will be successful. You will not remain ordinary. You will become extraordinary and special.

Think better, aim for better and do better!

Hazards of Plastic



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 12-MEU-088

Today, plastic is more or less a part of everyone's life. Whether it's a small stall or a big multiplex; people carelessly use the polybags. The plastic or polyethylene not just stays limited to polybags, it includes much more. From parts of an aeroplane to the cover of the pen; most products have some plastic in it. These may be of different forms, but all of these harm the environment. It's just a matter of time when everything around us would be corrupted by one form of plastic or the other. Today, we are facing hazards around us such as increasing air toxicity, extinction of wildlife, herbs, and non-renewable minerals and above all, poisoned humans both mentally and physically which may lead to our extinction. This can be stopped only by our unanimous efforts. We all have a responsibility on our shoulders to preserve what we have, whether in the form of resources or in the form of habitation. There is a misconception among people about using products made of plastic. Some people think what worse could happen if I alone use it? Or what change it would do if I won't do it? They do not understand that a change doesn't start with all in the group; it starts with one. One person can be the change. It gives you a chance to be that one person. Today, no one would like to tell their children in future about how it felt to travel in a petrol car. It may sound like a

story when they will not be able to do that. Plastics are chains of hydrocarbons. They can neither be decomposed nor can they be burnt because they release toxic components while burning. This property of plastics creates problem not only for humans but for other species too. Traces of plastics are reported to be found in fish, cattle, flock, and other animals. These harmful results affect the flora and fauna equally. When plastics are buried in soil, these do not decompose and hence mutate the soil and the habitation around. If burnt, they just transform into the small granules and still remain in the environment. Because of lack of awareness, we are knowingly and unknowingly creating a lot of the hazardous waste.

Today, the world belongs to the youth, and it can be said that, they have the power to destroy it as well as save it. It is just the matter of time when they realize, how powerful they are. To enlighten the youths about this state of emergency, we had an activity; in which we were given a situation in which we had to take some stuff from market to our home or on our way from college to home without using any plastic bag or polybag. The main aim of this activity was to find out our ability 'to think creative and out of the box'. The activity was conducted by one of our teachers Mr Feras Al-Hakkak who teaches Machine Design.

We were divided into 4 groups of 5 students each. All the groups were given 10 minutes to think and discuss within the groups. Then we were asked to come forward and share our ideas with everyone. We all had our common points and our differences too. This activity generated some good ideas about conservation and wise utilization of resources. Those ideas focused on using things like jute bags, hard paper cartons, wooden boxes, space management, remove the use of unnecessary things in our lives etc. The activity did not end here. We were also shown a video on plastic that included how much waste we produce daily; how the fish or the aquatic

life is affected due to the plastic waste disposal in the rivers, pond or in oceans. It has been diagnosed that a large number of aquatic animals die because of ingesting plastic along with their food as plastic was found in their digestive systems.

It is not only about plastics; it is about the responsibility to pass on the planet to our coming generations in a better condition than our ancestors gave it to us. If there were any faults earlier, it should be our moral duty and responsibility to rectify those mistakes and make this world a better place to live in.

The aim should be to first create awareness among youth and to encourage them to discuss the ill effects of plastics on our environment. It is truly said, "A man can accomplish anything when he realizes he's a part of something bigger. And a team of people who share that conviction can change the world."

Proud to be part of Dean's List

DECEMBER 2014 DEAN'S LIST

Dean's List of Students

To promote excellence in academics and to recognize outperformers, students scoring a CGPA of 9.5 and above are included in a selected Dean's List. This achievement is reflected in their degrees. They form a think tank for the University's academic reforms, and enjoy special privileges and pride of place in the University. They are specially invited to conduct distinguished visitors to the University. This policy has worked significantly to encourage students to strive towards making the grade to be on the Dean's list.



The December 2014 UG students' Dean's List:

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Shreya Chadha
Lakshya Nanda
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Pankaj Dagar
Nitin
Shubham Sehgal
Radhika Agrawal
Jitender Verma
Ravi
Tanyam
Sumit Jain
Divya Bajaj

Kunal Arora
Akshay Kumar
Sukriti Sharma
Aishwarya Basotia
Abhishek Jain
Ishant Bhardwaj
Hemant Hasija
Jitesh
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Mayank Jain
Suyash Abhay Ghirnikar
Ruchi Khatri
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Sanya Gambhir
Arunika Sangwan
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Rashi Aggarwal
Gaurav Chauhan
Geetika Guleria
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Mohit Vats
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The December 2014 students' PG Dean's List:

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Neha Kajal
Ankita Gupta
Anita Dangi
Priyanka Rastogi

Tanuja Singh
Priyanka Jain
Shivani Garg
Kanika Bhutani

School of Management

Supriya Rajpal
Sumedha Bansal

Dean's List students had a date with the Vice-Chancellor on 12 March 2014 - a dream occasion for a student of ITM University, to be in the company of an exclusive gathering and to be recognized amongst his or her peers. The inspirational meeting with the Vice-Chancellor was followed by a group photograph.



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