In this Issue

- Rebranding of the University
- Recent Achievements
- Interviews with Distinguished Professors
- Pro-Chancellor’s Outreach Activities
- News and Events
- News from the Schools
  - School of Engineering and Technology
  - School of Management
  - School of Law
  - School of Professional Attachments
- Student Activities
- Sports
- Papers Published and Presented
- Articles
QUALITY BENCHMARKS

Awarded No.1 Rank in All India Emerging Universities, Higher Education Review - April 2015

Established under Haryana Private University (Third amendment) Act No.25 of 2009, ordinance No. 2 of 2015 dated 22nd July 2015, Legislative Department, Haryana Government

Recognised by the University Grants Commission, Govt. of India, under the UGC Act 1956, and empowered to grant degrees under Section 22 of the Act.

Recognised by the Bar Council of India, Govt. of India

Accredited Undergraduate Engineering Programmes

Member of Association of Indian Universities

Recognised as the BEST@govcampus

Accredited by Accreditation Services for International Colleges (ASIC), United Kingdom, in the category of ‘Premier’ Universities

Member of International Students Exchange Programme

Member of the Association of Commonwealth Universities

Institutional Member of American Society for Quality (India)

ISO 9001:2008 Certified

All information issued under authority of Chancellor

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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.

**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.
Change is the law of nature. It is the notation of progress and growth. We have also changed and changed progressively. The University has rebranded itself in a new avatar offering a its diverse range of programmes. Our branding has changed, but our mission and commitment towards providing high quality education remains steadfast. As we say, “Let’s celebrate the change”.

We present here another issue of VectorTech, your friendly biannual magazine which brings the news of the University to you. The current issue details about rebranding of the University, its necessity and aftermath. The other coverage includes the achievements of the University, conferences, seminars, cultural programmes, extra-curricular activities etc.

We would also like to mention that you can access the e-VectorTech through our website. The soft copy of the magazine (and other publications of the University) is available on our website at http://ncuindia.edu/index.php/publication and can be downloaded for your reference.

We, the Editorial Cell, would like to express our heartfelt thanks to our Governing Body for their continued support and giving us the opportunity to bring out the different publications of your interest. We are also thankful to the faculty and staff and the student community, for helping us in shaping this magazine. This bouquet would not be complete without your individual contribution. A warm note of thanks goes to Brig SK Sharma (Retd) and Col Bikram Mohanty (Retd) for their valuable support and guidance at every step. Thanks are due to Mr Akhilesh Kumar for his wide ranging photographs and to Mr Lalit Narayan Lal for the layout and graphics of the magazine.

We put forward this issues to you and hope that this meets yours expectations. Please feel free to share your feedback with us. Your valuable suggestions will help us in making this a true mirror of the University.

Regards,

Ritesh Ranjan (riteshranjan@ncuindia.edu)
Rekha Mathur (rekhamathur@ncuindia.edu)
Editorial Cell
Table of Contents

Factfile 01
Message from the Governor 02
Message from the Pro Vice-Chancellor 03
Feedback 04
Rebranding of the University 05
Recent Achievements 07
Interaction with Professor Karmeshu 09
The Ganga Passion Trail 11
Tete-a-tete with Freshers 12
Outreach Activities of Prof. Prem Vrat 13

News and Events
Farewell to Prof BS Panwar 15
Women's Cell Event 16
Best BTech Project Awards 17
Visit of Ms Mairi Macintyre from University of Warwick 18
Open Lecture Series at NCU 19
Orientation 2015 20
Quality Enhancement in Engineering Education (QEEE) 21
National Youth Parliament 22

News from the Schools
School of Engineering & Technology 23
Department of EECE
Department of CSE & IT 26
Department of Mechanical Engineering 31
Department of Civil and Environmental Engineering 36
Department of Applied Sciences 42
School of Management 46
School of Law 52
School of Professional Attachment 57
News from the Centre for Languages Learning 61
News from the Library 62
Student Activities 63
Table of Contents

**Sports**

**Miscellaneous**
University records Historic Win in the Garden Competition 68
Movie Club at NCU 69
International Yoga Day Celebrated 70
Independence Day Celebrations 71

**Books & Papers Published / Presented**
Department of EECE 72
Department of CSE & IT 74
Department of Mechanical Engineering 77
Department of Civil & Environmental Engineering 78
Department of Applied Sciences 79
Centre for Languages Learning 80
School of Law 81
School of Management 81

**Articles**
How the best Engineering college in India went Eco-friendly 84
QR Code: Its Applications in Various Fields 85
Educating Product Engineers Young Minds in Contemporary Societies 86
When Inconsistency is a Virtue of Great Minds 88
Companies Act 2013 and its Amendments 2015 89
Cartoon, Classroom and Critical Thinking 90
Dean’s List of Students 93
**Nature of University**: Multidisciplinary, co-educational university offering Undergraduate, Postgraduate and Doctoral Programmes in Engineering, Management, Law, Applied Sciences and Humanities

**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: ncu@ncuindia.edu, Website: www.ncuindia.edu

**Visitor**: Prof. Kaptan Singh Solanki, Governor of Haryana

**Chancellor**: Mr Navdeep K Dewan

**Pro-Chancellor**: Prof. Prem Vrat, PhD, FNAE, FNASc, FWAPS, FISTE, FIIIE

**Pro Vice-Chancellor**: Brig. SK Sharma (Retd.)

**Registrar**: Col. Bikram Mohanty (Retd.)

**Student Population**: Undergraduate 2938
Postgraduate 296
PhD 135

**Student Gender Profile**: Female 31%, Male 69%

**Faculty**: 211

**Scholarships**: Merit - cum - Means Scholarships available, covering 100%, 50%, 25% of tuition fee, Merit Scholarships, Teaching Assistantship etc.

Dean’s List of Students, Best Project awards
Message from the Governor

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.

*Now THE NORTHCAP UNIVERSITY
Message from the Pro Vice-Chancellor

We are immensely proud that our university has come a long way since its inception in 1996. As an integral member of the NCU family, you have known us to be continuously evolving and challenging conventions. The University is renowned for leadership and has initiated efforts towards enhancing research in engineering, sciences, management and law at the undergraduate and postgraduate levels. We offer hands-on practical experience in laboratories and industries so that our students get an opportunity to work in a real world setting.

We have recently rebranded ourselves to 'THE NORTHCAP UNIVERSITY'. This is covered in detail, elsewhere in this issue. The University is an environmentally sensitive university with facilities of rain harvesting, water recycling, solar power system, e-waste management and much more. The University in its new avatar is committed to provide its students all the support and encouragement to shine in different academic and extracurricular fields. We are proud to have a rich intellectual resource which has brought laurels to us. The various awards and appreciations won by the University, its faculty and students are testimony of this.

I extend my best wishes to all staff and students of THE NORTHCAP UNIVERSITY and wish them the best of luck in all their future endeavours.
The University is an excellent university producing students of technology, management and law. The atmosphere of the university is very pious and holy suiting to the culture of our nation. It is truly a centre of learning as we aspire. I wish all the success to the University.

Prof. Kaptan Singh Solanki
The Governor of Haryana & Visitor, THE NORTHCAPE UNIVERSITY

The institution is on the right path in becoming an institute of excellence.

Mr Indu Bhaskar
Scientist F & HOD, DSIR, Team Leader (TPDU Program), DSIR, New Delhi

I have been delighted to come here and was pleasantly surprised at the standard of education being imparted and the discipline. I wish you all the best.

Justice RS Sodhi
Justice Delhi High Court

I found that the Mission, Vision and quality policy are well spelled out. A great leader (VC) is leading from the front with dedicated faculty members. The quality of student intake is good. The research culture is inculcated even in UG programmes. There are lot of good practices that take place here I am quite impressed with the academic activities of the University. Wishing a great time ahead.

NC Shivaprakash
Chairman NBA Team, IISC Bangalore

An impressive seat of learning! Should become an outstanding place for frontline research.

Prof RC Budhani
Former Director, NPL Professor, IIT Kanpur
THE NORTHCAP UNIVERSITY (formerly ITM University, Gurgaon) has come a long way since its inception in 1996. In a span of nearly two decades, we have grown to be one of the foremost educational institutions in the country. To further expand our vision and to take our University to greater heights, ITM University Gurgaon has rebranded itself as ‘THE NORTHCAP UNIVERSITY (NCU)’. The new name, we believe captures the essence of our vision, our guiding principles and our mission for excellence. It is inspired by our geographical location in the north of the country in the National Capital Region. Our new logo has the ‘Bridge’ a mnemonic which represents the connection between the ‘classroom and the real world’ using multidisciplinary value based education imprinted with an industry relevant curriculum. The rebranding has been approved by the State Government and UGC. This rebranding has been necessitated by a variety of factors, external and internal. We’ve answered below some common questions of our students and their parents which, we are sure have provided them with the answers.

Why was it decided to rebrand the University by changing its name and logo?
Several factors presented an opportunity for us to re-invent/re-orient the brand. These are:
• Present branding is restrictive: The acronym ‘ITM’ stood for ‘Institute of Technology & Management’ which was coined to represent our strength in Technology and Management only. However, we have substantially expanded the offerings to include Law, Sciences & Commerce. In the near future, we propose to introduce Architecture and other courses as well. Research will also be at the forefront of the University’s focus going forward. Since our community of stakeholders and students is expanding, the acronym ITM was limiting our expanded vision and mission. Given our University’s multidisciplinary offerings, rebranding will revitalize and reflect our growing community of stakeholders and their aspirations.
• Appropriation of our brand equity: Since its establishment, ITM University has earned an enviable reputation for academic excellence at Undergraduate and Postgraduate levels. We enjoy the distinction of having been ranked amongst the best Universities in independent surveys conducted by leading national and international magazines/agencies each year. This year too, we have been ranked the No. 1 Emerging University in India by Higher Education Review in their March 2015 edition. Consequent to the pole position enjoyed by the University, our accomplishments and accolades may be appropriated by other institutions with the same name, with a view to improve their visibility in a competitive environment. Similarly, the shortcomings and/or misdemeanors of the other institutions with the same name may, by default, bring discredit to our unique institution. Thus, it has become necessary to reassert our unique identity via a considered rebranding strategy.
• Conflict of interest: Since the establishment of ITM University, many more colleges and/or universities have mushroomed with the same name. This has created a lot of confusion in the minds...
of present/potential students and/or their parents. It has also led to unnecessary and avoidable litigation. Therefore, it had become necessary to distinguish ourselves from the other colleges/universities with the same name.

What is the new name of the University?
'THE NORTHCAP UNIVERSITY' or 'NCU' for short.

What does the new name and logo represent?
The new name and logo embodies the expanded vision and mission of the University and its Founders. Through its multidisciplinary and industry-relevant curriculum, the University seeks to empower its students for a lifetime of personal and professional fulfillment. Aside from bridging the gap between the classroom and industry, the new name and logo also epitomizes endless progression of the University based on higher intention, intelligent direction and skillful execution.

Will the rebranding affect its recognition by statutory bodies of the Central/State Government?
No, absolutely not.

ITM University in its new avatar as 'THE NORTHCAP UNIVERSITY' will enjoy exactly the same recognition as earlier. More specifically, the rebranded university and its degrees & other awards continue to be recognized by University Grants Commission (UGC), Bar Council of India (BCI), Ministry of Human Resource Development, Government of India (MHRD), Government of Haryana, Association of Indian Universities (AIU), National Board of Accreditation (NBA), Accreditation Service for International Colleges (ASIC) – United Kingdom, American Society for Quality (ASQ), Association of Commonwealth Universities (ACU) – United Kingdom. It will also be accredited by National Assessment & Accreditation Council (NAAC), Bangalore as and when applicable.

What will happen to the name ITM University?
After the notification from Government of Haryana, the name ITM University is retired and the new name has simultaneously come into effect. However, to leverage the enormous brand equity built by ITM, as also to ensure continuity of the brand value, all materials of the University, whether print or digital will carry the tagline 'Formerly ITM University, Gurgaon' below the new name and logo.

When will the first 'THE NORTHCAP UNIVERSITY' degrees be awarded?
Students graduating in June 2016 will be the first to receive 'THE NORTHCAP UNIVERSITY' degree. The degree and mark-sheet will however clearly mention 'Formerly ITM University, Gurgaon'. Degree/mark-sheet of graduates passing till 2015 will only bear the name 'ITM University, Gurgaon'.

Will the Management structure of the University remain the same or will it undergo a change?
No. There will be no change whatsoever. The new name and logo is also the creation of the sponsoring body i.e. 'Educate India Society' and is notified in the Ordinance by Government of Haryana.

How should students graduating in June 2016 refer to ITM University, Gurgaon in their resumes?
On the resume, one would simply mention 'THE NORTHCAP UNIVERSITY (Formerly ITM University, Gurgaon)'. It will also be mentioned in the degree/mark-sheet.

What is the University doing to reach out to the corporate and industrial sector and other stakeholders in the job recruitment process?
All stakeholders in the corporate and industrial sector have been informed about this change.

Where can one approach in case of any doubt or query?
Please direct your queries, if any, to rebranding@ncuindia.edu.
Recent Achievements

THE NORTHCAP UNIVERSITY
adjudged Best Private University in Haryana

THE NORTHCAP UNIVERSITY, Gurgaon was adjudged the 'Best Private University in Haryana' out of 17 Private Universities of the State. The Annual Survey 2015 was conducted by Dialogue India, a Delhi based publication. Prof (Dr) Prem Vrat, Pro-Chancellor and Brig. SK Sharma (Retd.), Pro Vice-Chancellor received the award from Dr Sanjay Singh, Member of Parliament from Uttar Pradesh at a function held at NDMC Convention Centre New Delhi, on 20 June 2015.

Prof. Prem Vrat was also a panelist and speaker at the valedictory session of the event. Speaking on the occasion, he identified the key factors for continued academic excellence at the University. “The passion to excel supported by quality infrastructure, an efficient and IT enabled teaching-learning process are key to the success of the University, year after year,” he said.

SAEINDIA Foundation confers Guru Award on Prof. PremVrat

SAEINDIA Foundation has conferred Guru Award for the year 2014-15 on Prof. PremVrat, our Pro-Chancellor on 3 August 2015. The award has been conferred to honour Prof. Vrat's valuable contribution towards promotion of SAEINDIA activities. The award was given during the SAEINDIA Foundation Annual Award Function, held at India Habitat Centre, New Delhi. The ceremony was graced by Chief Guest Mr Vijay Chhibber, Honorable Secretary, Ministry of Road Transport and Highways; Mr Ramesh Suri, President, ACMA & Chairman, Subros Ltd., Dr Richard W Greaves, President - SAE International and a distinguished gallery of prominent dignitaries from industry, Government and academics, related to the mobility community in India.

SAEINDIA is India's leading resource for mobility technology and is an affiliate society of SAE International registered in India as nonprofit engineering and scientific society, dedicated to the advancement of mobility industry in India.
University Rankings and Awards

- Higher Education Review – Ranked No. 1 Emerging University in India
- EDU-RAND Engineering College Ranking 2015 – Best Private Engineering College in Haryana
- Dialogue India Survey 2015 – Best Private University in Haryana
- CSR-GHRDC Engineering Colleges Survey 2015 – Ranked No. 6
- Engineering College of Eminence in India
- Outlook Best Professional Colleges 2015 – Ranked No. 56 among all Engineering Colleges in India, including IITs and NITs.
Interaction with Professor Karmeshu

Prof. Karmeshu, Distinguished Research Professor, and a mentor in the Department of CSE & IT, NCU, Professor & Dean, School of Computer & Systems Sciences, JNU, New Delhi, shares his views on how to improve the quality of science and technology education and research in our country, in conversation with Ms Rekha Mathur, Sr Editor, and Ms Jyotsna Singh, Assistant Professor, Department of CSE & IT, NCU.

During the conversation Prof. Karmeshu opined that the key to excellence in science and technology is mathematics though everybody talks about excellence, emphasis on mathematics is however missing. The mathematics curriculum for undergraduate / postgraduate students may be good enough for producing engineers/scientists in a routine way, but to expect from them a capacity for knowledge generation would be a little too much or unfair to them, he added. He further stated that for knowledge generation, in whatever subject, the knowledge of modern tools and techniques in mathematical sciences is indispensable, as Mathematics is the language of modern science and technology.

Prof. Karmeshu observed that a host of new analytical frameworks have emerged and are being widely employed over a wide range of systems as there is recognition that real life problems are seldom confined to any one academic discipline. Competence in the use of these frameworks is absolutely necessary to analyze multidisciplinary problems. He explains that in the absence of such analysis, it would be difficult for researchers to publish their research in high impact journals. A cursory glance at any of the top SCI journals in any subject would clearly show the depth and extent of application of mathematical and statistical sciences.

Interaction with Dr YP Anand

Dr YP Anand, Director National Gandhi Museum, New Delhi and former Chairman Railway Board, Government of India took some time off the Faculty Mentors Meeting on 29 May 2015 and shared some of his views with Ms Rekha Mathur, Sr Editor and Ms Vaishali Sahu, Assistant Professor, Department of Civil and Environmental Engineering, NCU.

What kind of projects can our students take up in waste management and can they receive funding from the Government/industry?

The students may take up projects relating to waste management in designated urban areas nearby, say, Union Territory of Delhi (UTD), Gurgaon, Faridabad, or Ghaziabad. There are well-known, concentrated, and large-scale problems regarding waste management which call for many more studies including determination of policy options and follow-up action plans in the UTD. Some of the subjects which may be considered, are suggested below:

- Overall Management of Municipal Solid Wastes (MSW), including types of such wastes, their collection (including segregation), transport, storage, treatment, and disposal (including maximum scope for the 3R’s—Recovery, Reuse, and Recycling as valuable resources).
- Separate detailed studies for the
Management of each of the major categories of MSW, namely, i) Construction and Demolition (C&D) Wastes
ii) Management of Bio-degradable Wastes
iii) Hospital/ Medical Wastes
iv) Other ‘Hazardous’ Wastes
• The whole system of ‘Landfills’ in the UTD for the final disposal of Solid Wastes, their present situation and problems and their future possibilities and viability.
• Management of: i) Industrial, and/or ii) Commercial (particularly including hotels, eateries, markets, malls, commercial centres such as Nehru Place, and similar concentrated waste producing units/wastes.
• Present state of Management (including all aspects: collection, treatment, and disposal) of human waste (night-soil + urine) and the required improvements, particularly for the population living in over 600 slums and the required system of public toilets.
• Management of the sewerage system (including sewage treatment units)—its present deficiencies and the required changes.
• Waste Management relating to the Yamuna river and its banks as well as that relating to other major water bodies, such as major drains, ‘nallas’, ponds and lakes.
• Overall waste management in the slums in UTD; some of the major slums may be taken for the study.

The students may also take up more broad-based studies relating to the health, environmental, and economic implications of ‘Waste Management’.

As regards the issue of ‘funding from the Government / industry’, I think that its possibilities can be probed only after discussions with the related Local Bodies, and other Government departments and with the industrial/commercial units if any subject related to a major industry/commercial centre or particular set of local industrial/commercial unit is considered for being taken up.

How can our students contribute towards the Government’s ‘Swachh Bharat’ mission?

The ‘Swachh Bharat Mission’ is essentially aimed at providing sanitary toilets to all citizens in India and to arrange for sanitation, cleanliness, and hygienic conditions all over India by 2nd October 2019. It is a very broad based programme and its nation-wide details are still being determined. However, quite a lot of data regarding toilets, and rural and urban sanitation, etc., is already available.

The subjects which can be suggested for being worked upon by the students may be considered under two categories:
• Taking up a specific area for study, such as a cluster of villages, or a defined urban area, and study its deficiencies in provision of toilets, and the state of overall sanitation, cleanliness, non-pollution, and waste management including, that of homes, lanes, roads and bastis, of various institutions and establishments, and of water bodies, and develop a comprehensive proposal for pursuit and compliance by the local, state and central authorities.
• Taking up a function for India as a whole (or for a significant part of India), such as:

The whole subject of providing sanitary toilet facility to every Indian home, including the types of such toilets which may be feasible, appropriate, and economical. (I can suggest here a consultation with and guidance from Dr Bindeswar Pathak, the originator and the head of Sulabh International Social Service Organisation.)

• The subject of Rural Sanitation.
• The subject of Urban Sanitation.
• The subject of cleanliness of homes, ‘bastis’, lanes, roads, institutional and vacant areas.
• The subject of pollution of rivers, streams, wells, ponds and lakes.
• The overall subject of drainage in rural, urban and other areas.

Please suggest feasible interdisciplinary projects and areas of research related to the railways.

Areas of research related to Indian Railways would mostly fall under i) technical, ii) commercial, iii) financial, and iv) management issues. However, the IR being a wholly Government owned and run organization, any really useful studies regarding its functioning can only be taken up in co-ordination with the IR administration. Even any meaningful studies regarding sanitation and waste management would be possible only with the co-operation of the concerned administration. Probably, we may discuss this subject of inter-disciplinary projects and areas of research after which some worthwhile suggestions may be possible.
The Ganga Passion Trail

The Ganga Passion Trail’ traces the course of the mighty Ganga not only as a holy river but an experience woven by literature, art and tradition in the heartland of India, starting from Devprayag and Rishikesh to Varanasi in the pleasant pre-winter air of September 2015. At Devprayag, the river Bhagirathi (originating in Gomukh beyond Gangotri) meets the river Alaknanda (which starts as a trickle at Vasudhara, a slender waterfall near Badrinath) to form the Holy Ganga. Dr Pushpesh Pant, Professor & Dean, School of Law, NCU, who is also a noted historian and food critic was the architect of this six day trail. He shares his experiences in a tete-a-tete with Ms Rekha Mathur, Sr Editor, NCU.

How did you get interested in this trail?
I have a good knowledge about Uttarakhand as it is my home state. My childhood has been spent in close proximity of the Ganga and have written a book entitled, ‘Ganga: origin and descent of the river eternal’ (1987).

How many participants where there in this exhilarating and rejuvenating trail?
There were 19 participants from all walks of life, different religions and different parts of the country – Kashmir to Kerala; Bengal to Gujarat as well as NRIs from Dubai.

Which mode of travel you take on this voyage?
All modes of transport depending upon availability and suitability like a plane, train, car, deluxe coach, boat, as well as walks.

As it was a long journey, you must have stayed in all manner of lodging.
Yes, it ranged from a 5 star hotel at Varanasi to river side camps on the banks of the Ganga at Chunar, Allahabad.

Which Aarti did you feel to be the most inspiring during the trail?
There were many. I cannot miss mentioning Ganga aarti at Har-ki-Pauri, Haridwar; Dashashwamedh Ghat, Varanasi (on a boat) and the amazing sunset Ganga aarti at Parmarth Niketan, Rishikesh.

Which stretch of the Ganga did you find to be the cleanest?
Undoubtedly Devprayag. It is the place where rivers Bhagirathi and Alaknanda, descending from the Himalayas meet and you can clearly see the mingling of their waters. It’s an awesome sight!

What was the most difficult part of the trail?
Night journey from Rishikesh to Devprayag by road as this stretch was particularly bad after the monsoons. Another was the train journey from Haridwar to Allahabad.

And, what was the most thrilling part of the trail?
It was Ganga aarti at Devprayag and visit to the Chunar Fort, Allahabad. The aarti at Devprayag was equally mesmerizing.

Which areas in this wonderful trail were the most picturesque?
Rishikesh and Devprayag. The natural beauty of the place was hypnotic. Beyond spirituality the trail was a discovery of the Ganga in its holistic dimensions yoga, meditation, ayurveda and an organic lunch with Swami Balakrishna, as also experiencing regal lunch at the Chunar Fort, satvik food, Sanskrit and Vedic Mathematics at Rishikesh and Gharana music at Varanasi, on top of a haveli!
In order to gauge the adjustment level of Freshers in THE NORTHCAP UNIVERSITY, Gurgaon, Ms Rekha Mathur, Senior Editor, had informal chats with a few students. The response has been quite encouraging. It is heartening to note that students are not facing any problems and are finding the University environment congenial. As is our record, freshers have not faced any form of ragging; on the contrary their seniors are all out to help them adjust and feel comfortable. Excerpts from some of the chats with 1st Year students are reported below.

**Yashi Bagoli, Department of CSE**  
*School: Summerfield School, Sonepat*  
*Your career choice: I want to be a software professional.*  
*Any case of ragging: Oh no! My seniors were very helpful.*  
*Mode of transport: Cab service is good.*  
*University environment: Lush green and safe environment for girls.*

**Aakriti Bansal, BSc Economics (Hons)**  
*School: Salwan Public School*  
*How did you decide on NCU?*  
Some of my friends are alumni of the University. They have been placed in reputed multinationals and are doing well.

**Varun Ahuja, Department of CSE**  
*School: Little Angels Senior Secondary School, Sonepat*  
*How did you decide on NCU?*  
One of my relatives is a faculty member here and a friend of mine is an alumni of this University. He is working with Delhi Metro. He recommended and said, “You will final NCU to be a good university”. I am liking it here!
Outreach Activities of Professor Prem Vrat
Pro-Chancellor, Professor of Eminence and Chief Mentor, THE NORTHCAP UNIVERSITY

Prof. Prem Vrat attended the selection committee meeting for selection of DRDO chair, Distinguished DRDO Fellows and DRDO Fellows at DRDO, New Delhi on 9 March 2015.

Prof. Prem Vrat visited the Internal Screening Committee (Main) Meeting as an expert for interaction with Scientists ‘F’ of DRDO on 5 May 2015. He chaired an assessment meeting for DRDO Scientists ‘F’ for promotion to Scientists ‘G’ on 7 May 2015 and chaired the Assessment Board for assessing the suitability of DRDO Scientists for promotion to the next grade in DRDO from 19-23 May 2015 at the Recruitment & Assessment Cell (RAC) of Defence Research & Development Organization Delhi.

Prof. Prem Vrat attended the Peer Committee Meeting for promotion of Scientists ‘G’ to ‘H’ and conferral of title of ‘Distinguished Scientists’ to DRDO scientists at DRDO Bhawan, New Delhi on 10 June 2015.

Prof. Prem Vrat attended the Post Assessment Debriefing Meeting of co-chairpersons at Recruitment & Assessment Cell (RAC) of Defence Research & Development Organization (DRDO), Timarpur, Delhi on 6 June 2015.

Prof. Prem Vrat attended the meeting between Hon’ble Minister of Civil Aviation and Independent Directors of Air India Board at Air India, New Delhi on 12 March 2015. He also attended the 65th Board Meeting of Air India on 17 March 2015 and the 66th Board Meeting of Air India as an Independent Director of Air India at Airlines House, New Delhi on 11 May 2015.

Prof. Prem Vrat delivered lectures on Operations Planning and Control at IIT Delhi on 14 March 2015 and 25 April 2015, and on Decision Theory at IIT Delhi on 01 August 2015 as an Honorary Professor of IIT Delhi.

Prof. Prem Vrat participated and presented the proposal ‘Improving organizational cognitive intelligence through bio-inspired analogy models’ under the Cognitive Science Research Initiative (CSRI) at Indian National Science Academy (INSA) Bahadur Shah Zafar Marg, New Delhi on 20 March 2015.

Prof. Prem Vrat attended the convocation ceremony at Management Development Institute (MDI), Gurgaon on 21 March 2015. The Chief Guest at the event was Mr Arun Jaitley, Hon’ble Minister of Finance, Minister of Corporate Affairs and Minister of Information and Broadcasting of India.

Prof. Prem Vrat was invited by the Vice-Chancellor, Sikkim Manipal University (SMU) as a Guest of the University to interact with faculty and students from 23-25 March 2015 at Sikkim. During the tour, Prof. Vrat visited research labs and hostels of Sikkim Manipal Institute of Technology (SMIT) at Majitar campus of SMU and inaugurated a two day Workshop in Remote Sensing and GIS, sponsored by ISRO. He delivered a lecture on Quality in Technical Education to faculty and students of SMIT. Prof. Vrat also attended the inaugural function of National Workshop on Design of Experiments and Statistical Methods as Guest of Honour on 25 March 2015, organized by ISI SQC and OR unit of Hyderabad, held at NIT Sikkim, Rababangla.

Prof. Prem Vrat attended the 4th International Conference on ‘Human Values in Higher Education’ at Gaeddu College of Business Studies (GCBS), Royal University of Bhutan from 27-31 March 2015.

Prof. Prem Vrat attended the 2nd and 3rd Meetings of Management Evaluation and Accreditation Committee (MEAC) of National Board of Accreditation (NBA) at New Delhi on 8 April and 31 August 2015.

Prof. Prem Vrat chaired the meeting of the Academic Committee of Surajmal Memorial Educational Society at Maharaja Surajmal Institute of Technology (MSIT), New Delhi on 11 April 2015. He also attended the Executive Committee Meeting of Surajmal Memorial Education Society at MSIT on 19 April 2015.

Prof. Prem Vrat attended the Selection Committee Meeting for recruitment of faculty for the Department of Humanities & Social Science, Industrial and Systems Engineering at IIT Kharagpur on 13 April 2015, as a nominee of President of India, the Visitor of IIT Kharagpur.

Prof. Prem Vrat attended the Meeting of the Technology Foresight and Management Forum at Indian National Academy of Engineering (INAE), Gurgaon on 22 April 2015 and 29 July 2015.

Prof. Prem Vrat attended the Annual General Body Meeting of IIT Delhi Alumni Association at IIT Delhi on 25 April 2015.

Prof. Prem Vrat visited at IIT Delhi
Prof. Prem Vrat attended the 3rd Dialogue India Award Ceremony and received the award on behalf of the University as well as was requested to share his views on the quality of higher education in the private sector.

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Prof. Prem Vrat attended the session on TEQIP II STC on Supply Chain Management (SCM) and delivered a lecture during the inaugural session at Delhi Technological University (DTU), on 6 July 2015.

Prof. Prem Vrat attended the first and second meeting of the Advisory Group of Experts on 'Upgradation of Technology and Leveraging Make in India in the Railways' with Hon'ble Minister of Railways at Rail Bhawan, New Delhi on 14 July and 11 August 2015.

Prof. Prem Vrat attended the induction programme of fresh graduate students at NIIT University, Neemrana (Rajasthan). During the programme Prof. Prem Vrat delivered an inspirational lecture on 'Quality of Education in India - Present Status, Challenges & Opportunities in Future' on 25 July 2015.

Prof. Prem Vrat attended the workshop by American Society for Quality (ASQ) on 'Educational Excellence' at India Habitat Centre (IHC), New Delhi on 06 August 2015, during which he interacted with Baldrige experts from USA.

Prof. Prem Vrat attended the Annual Flagship Event of Quality Council of India (QCI), the 10th National Quality Conclave held at Siri Fort Auditorium, New Delhi on 7-8 August 2015.

Prof. Prem Vrat attended the selection committee meeting for recruitment of Faculties in Operations Management area (OM) at Management Development Institute (MDI) on 31 August 2015.

Dr Monica Verma, Head MBA Programme at IMS Engineering College, Ghaziabad has completed her PhD under the supervision of Prof. Prem Vrat and Prof. Kanika T Bhal, DMS, IIT Delhi from UPTU, Lucknow. She is the 38th candidate to get her doctoral degree under the guidance of Prof. Prem Vrat.
Farewell to Prof BS Panwar

The faculty and staff at the University bid farewell to Prof BS Panwar on 30 May 2015. Prof. Panwar served as Vice-Chancellor of the University for more than a year. He was instrumental in reviving the initiatives for seeking research projects through Government funding. He reviewed a number of academic processes and improved the teaching-learning systems and its academic delivery. Prof. PremVrat, Brig. SK Sharma (Retd.), Col. Bikram Mohanty (Retd.), Heads of Departments, Faculty members and staff were present at the ceremony.

Appointment of Brig. SK Sharma as Pro Vice-Chancellor

We are glad to share that Brig. SK Sharma (Retd.) has been appointed as the Pro Vice-Chancellor of the University on 13 May 2015. He is also officiating as the Vice-Chancellor of the University since 1 June 2015.

National Workshop on MEMS Design, Technology & Application

A National Workshop on the frontier technology topic of ‘MEMS Design, Technology & Application’ was held at the University from 1-3 March 2015 under the joint collaborative research & development project between IIT Delhi and THE NORTHCAP UNIVERSITY. The workshop sponsored by Department of Electronics and Information Technology, Govt. of India was coordinated by Dr Bharti Arora, Dy Dean RDIL, NCU and Dr Madhusudan Singh, Associate Professor IIT Delhi. The workshop was inaugurated on 1 March 2015 by the keynote speaker and Chief Guest, Dr R Muralidharan, Director, Solid State Physical Laboratory of DRDO. The plenary session on 3 March 2015 was chaired by Dr Surinder Singh, Director, Semi-Conductor Laboratory, Chandigarh (India’s cutting edge ISRO research lab). The workshop was attended by a large number of students and faculty of the University in addition to the participation from academia and industry professionals across Delhi NCR region including South Campus, University of Delhi, Manav Rachna University, Faridabad, NIIT University Neemrana, Apeejay Satya University etc. The topics on multifunctional sensors, conventional MEMS sensors, associated technology, and applications were the highlights of the workshop. Apart from insights of Distinguished speakers from IIT Delhi, NIIT Neemrana and SCL Chandigarh, hands-on training imparted on 1 March 2015 by COMSOL was a major attraction for participants. The workshop opened avenues of further interaction between IIT Delhi, NCU and SCL Chandigarh by using the expertise of each organization on design and simulation and technology with a target for developing application specific devices and systems for health care, defence and space applications for the country.

Guest Lecture by Prof. Kannan Govindan

Department of Mechanical Engineering held a gathering of promising researchers, faculty members and students from engineering and management disciplines on 30 March 2015 for a lecture on ‘Supply Chain Optimization using Genetic Algorithm and other Advanced Metaheuristics’, delivered by Prof. Kannan Govindan, University of Southern Denmark. In his lecture the Prof. Govindan explained about the Supply Chain Management framework and discussed the application of optimization techniques in real time supply chain problems, followed by the theory behind Genetic Algorithms, all in a very interactive manner. The session ended with an animated question answering session from faculty and students. Dr K Mathiyazhagan, Associate Professor, Dept of Mechanical Engineering organized this event.
Women’s Cell Event

An interactive session was organized by Internal Complaint Committee (ICC) for Women on 27 March 2015 at the University. The session was meant for women’s issues of female faculty, staff and students representative across the University. The event started with a welcome address by Ms Deepika Bishnoi, Deputy Manager HR focusing on women empowerment and related issues. The Chairperson of ICC, Dr Meena Kumari described the procedure in accordance with Vishaka Guidelines and urged all present to come forward and report any untoward incident. It was reiterated that ICC will ensure proper complaint resolution in a time bound manner maintaining strict confidentiality. Faculties and students raised queries and gave suggestions on how to keep our campus a safe and friendly zone for females. All ideas were duly taken note of, for implementation.

Technovation – The Annual Project Day

School of Engineering and Technology (SOET) organized Technovation – The Annual Project Day on 17 April 2015, to provide students a platform to showcase their innovative ideas in the form of projects. Engineering being a field that brings about the utilization of the materials and laws of nature for the good of humanity, students of the School of Engineering and Technology are expected to utilize what they have learnt to design an engineering project of practical importance. For innovative minds, projects play an important role for budding engineers and are therefore an essential component of learning. Students at NCU choose projects of their choice and realize their ideas into reality.

A total 22 ideas were converted to projects from EECE, CSE/IT, ME and Civil Engineering Departments, out of the many that were prepared and were showcased during Technovation. Some projects which generated special interest were the low-cost myoelectric prosthetic hand, Suraksha - a women’s safety device, Du-Pahiya e-cycle, Intelligent parking system for car parking, Dextoeka - the humanoid robot, utilization of WTP sludge and tea waste in brick manufacturing, ground water and air quality monitoring, utilization of waste plastic in asphalt roads, colour detector for blind, RFID based person tracking system, online attendance system, intelligent door locking system, deployable tensegrity chair, de-humidification of indoor air through solar water heater.

Prof. Kehar Singh, Distinguished Research Professor; Prof. PremVrat, Pro-Chancellor; Prof. BS Panwar, Vice-Chancellor and Prof. R Ojha, Director SOET among many others saw the individual projects and appreciated the efforts put in by our engineering students of final year. The projects were evaluated keeping in mind ‘FOCUS’ – i.e. Financial Viability of the project, Originality-Innovativeness/Newness, Customer-end applicability/takers, Usefulness to Society.
Best BTech Project Awards

The Best BTech Project Award Committee conducted a meeting on 4 June 2015 to analyze the BTech projects developed by students of the University. The six selected projects, out of 22 projects displayed at Technovation held earlier, were demonstrated by the students. After a thorough analysis the Committee declared the following projects as the winners of Best BTech Projects for 2015:

1. Suraksha (by Nitish Aggarwal, Nishant Bharadwaj and Nishant Ahlawat Dept. of EECE; Project Guide Ms Charu Rana)
2. Dexto: Eka: The Humanoid Robot (by Himanshu Vaswani, Yash Gupta and Sumit Gupta Dept. of EECE; Project Guide Mr Sidharth Bhatia)
3. Development of Mix Design and study the strength and durability of self-compacting concrete with use of waste materials (by Shwetang Kundu, Sumit Ahlawat and Utsav Jain, Dept. of Civil Engg; Project Guide Ms Prachi Sohoni)

The remaining projects were awarded Certificate of Merit:

1. Signs-A Language Spoken by the dumb, heard by the deaf and seen by the blind (by Nikhil Shukla, Prateek Maheshwari and Nalen Anand of Dept. of CSE; Project Guide Mr Gaurav Aggarwal)
2. Utilization of WTP sludge and tea waste in brick manufacturing (by Prashast Gupta, Rakesh Kumar and Rounak of Dept. of Civil Engg; Project Guide Ms Vaishali Sahu)
3. Energy harvesting through footsteps (by Sumit Dalal, Tushar Kaitha, Vishal Sangwan and Vismit Varshney Dept. of Mech Engg; Project Guides Mr Anmol Bhatia and Ms Neha Bhatia)

The Best Project students will be awarded during the Annual Convocation 2015.

Mentors of BTech Projects get Recognized

Faculty guides play a major role in providing substance and value to the BTech Student Major projects. They are the driving force behind innovation and creativity in projects. The guides of the top six finalists of the Best BTech projects were recognized for their contribution to the projects of 2014-15. The Pro Chancellor, Prof. Prem Vrat and the Pro Vice-Chancellor, Brig. SK Sharma appreciated their work and gave away the certificates of appreciation to Ms Charu Rana, Dept of EECE; Mr Sidharth Bhatia, Dept. of EECE; Ms Prachi Sohoni, Dept of Civil Engg; Ms Vaishali Sahu, Dept of Civil Engg; Mr Anmol Bhatia, Dept of Mech Engg; and Mr Gaurav Aggarwal, Dept of CSE&IT.

Virtual Labs

Mr Bhairav and Mr Sanjeev from IIT Delhi conducted a one-day workshop on Virtual Labs on 17 April 2015 at the University for all first year students. A total of 155 students attended the workshop.

Physical distance and the lack of resources make us unable to perform experiments, especially when they involve sophisticated instruments. Web-based and video-based courses address the issue of teaching to some extent. With the present day Internet and computer technologies, its limitations can no more hamper students and researchers in enhancing their skills and knowledge. Web enabled experiments are designed for remote operations and viewing so as to enthuse the curiosity and innovation in students. Today, most equipment have a computer interface for control and data storage. It is possible to design good experiments around some of these equipment which would enhance the learning of a student. Internet-based experimentation permits use of resources – knowledge, software, and data available on the web, apart from encouraging skillful experiments being simultaneously performed at points separated in space and time.

NCU subscribes to ACM Digital Library

IRC at THE NORTHCAP UNIVERSITY has subscribed to ACM Digital Library. The access is provided through IP and can be accessible from anywhere in the campus and from home also with the help of VPN facility. ACM, the world’s largest educational and scientific computing society, delivers resources that advance computing as a science and a profession. ACM provides the computing field’s premier Digital Library and serves its members and the computing profession with leading-edge publications, conferences, and career resources.
Visit of Ms Mairi Macintyre from University of Warwick

Ms Mairi Macintyre from University of Warwick (UOW), UK visited the University on 17 April 2015 to interact with BTech students, interested in higher studies at UOW, with whom we have an MoU. Ms Mairi Macintyre is Principal Teaching Fellow at Warwick Manufacturing Group (WMG) with a focus on Service Systems, Design and Development Management. She is the Course Director for the MSc course Service Management and Design. She has also been responsible for leading a joint team including the Universities of Warwick, Cardiff, Cranfield, Bristol and Bath to develop Master’s level courses from emergent service science research.

She acquainted the University students about the aspects of scholarship opportunities provided by Warwick Manufacturing Group (WMG) for collaborative studies at UOW and wider activities of the WMG department built around business transformation. It was an interactive and illuminating talk which inspired a lot of students to pursue higher studies at UOW.

University organizes the Annual Book Fair

The Library and Information Resource Center (LIRC) at the University organized a Book Fair on 6 June 2015, which witnessed participation from different leading national and international publishers. Books catering to interests of students and faculty of different streams of engineering, management and law were displayed at the event.

The Book Fair was inaugurated by Prof. Kehar Singh, Distinguished Professor, NCU. Mr Deepak Sharma, Assistant Librarian welcomed all the senior officials of the University and other visitors to the fair. The fair was graced by the presence of Pro Vice-Chancellor, Directors of Schools, HoDs, Senior Professors, Registrar, faculty members and the library staff of the University along with Chairman of Library Committee Dr Charu Shri. Brig. SK Sharma, Pro Vice-Chancellor appreciated the arrangements and level of books displayed at the fair. Faculty members visited the counters and recommended one of the relevant books for the library. The event was a success due to the joint efforts of the library staff, under supervision of Mr Deepak Sharma and Dr Charu Shri.

Outstanding Paper Award

The University shares with pride that a research paper, ‘Manufacturing Excellence and its Critical Factors - An Interpretive Structural Methodology Application’ authored jointly by Prof. Ravindra Ojha, Pro. PremVrat and Prof. AK Vij has been selected by the Emerald Group Publishing Ltd., UK, as the ‘Outstanding Paper of 2014’. The paper was published in the Journal of Advances in Management Research, Vol. 11, No. 3.

Workshop on Hands on Optsim

A one day workshop on ‘Hands on Optsim’ was organized at the University on 23 April 2015 in collaboration with Eigen Technologies. 30 students of BTech (ECE) and MTech (ECE) took part in the workshop. Modules on simulation techniques, graphical user interface, use of lab-like measurement instruments and the design and simulation of optical communication systems at the signal propagation level were explained. Interface with third-party tools such as MATLAB and the Luna Optical Vector Analyzer were also explained. The software is used by leading engineers in both academic and industrial organizations worldwide. This workshop was helpful for the students in their course curriculum, projects, dissertations and placements. Ms Sharda Vashisth and Ms Amanpreet Kaur coordinated and organized the event.
Mr Andrew Baines, the Global Managing Director ASQ visited the University on 21 April 2015. He had a very useful interaction with our Pro-Chancellor, Prof. PremVrat and Director SOET, Prof. Ravindra Ojha on education quality and ASQ in India. Some of the key discussion points during the meeting covered challenges faced in improving the quality of education in a growing economy of India, role of quality in ‘Make in India’ drive through the education sector and integration of industry experts in moving education to the next orbit.

Mr Baines was delighted to know the strong engagement of NCU and ASQ and the progress the University has made.

In the first session Prof. Kehar Singh, Distinguished Research Professor, NCU delivered an expert talk on ‘Optical Cryptography: Origin, Development & Beyond’. This was followed by a lecture on ‘History of Semi-Conductor Devices’ by Prof. Vikram Kumar, Emeritus Professor, Department of Physics, IIT Delhi. In the second session, Prof. KL Chopra, Distinguished Research Professor, NCU spoke on ‘Ethical Issues in Science & Technology’, followed by an enlightening talk on ‘Quantum Photonics’ by Prof. K Thyagarajan, Head of Department of Physics, IIT Delhi. The lecture series was attended by a large number of students from various disciplines (BTech, M Tech VLSI, ECE & CSE) and faculty of EECE and APS Departments.

A Certificate course on White Belt in Variation Reduction was conducted by ASQ-NCU Student Chapter on 11 April 2015. The course was attended by 87 participants including 7 faculty members of the University. The training was administered by Mr Ciby James, Director, ASQ (I) and Mr Anindya Sarangi, distinguished faculty from ASQ (I).

The day long training session included innovative, creative and engaging activities, role plays and case studies. The important and complex concepts of Six Sigma, 7 QC Tools, DMAIC Process were presented and explained. The energy level and the vigour were high and all the participants enjoyed the event as it was in the true sense ‘learning with fun’.

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What began as a mere act of inquisitiveness and curiosity, led to an effort of deliberation and successful collaboration. Over the span of last 2 years, as Chapter Chair of the ASQ-NCU Student Chapter, my journey has been fantastic. With a dynamic team that grew from strength to strength, we achieved one milestone after another in our journey. Apart from the professional and holistic growth that ASQ provided, the connections and the invaluable bonds that I have formed will always be a memorable part of my life. I am grateful to the mentor and anchor of the team, Prof. Ravindra Ojha, whose unique style of leadership makes you seek direction even in the most tumultuous of times.

The ASQ-NCU Student Chapter is a place where you: ‘Muster strength, Nurture Skills, Foster Ideas.’
University welcomes new batch of students – Orientation 2015

On 24 July 2015, the University conducted the Orientation Programme for the new students to all the three Schools. The event was graced by the presence and motivating addresses by the Pro Chancellor, Prof. Prem Vrat; the Pro Vice-Chancellor, Brig. SK Sharma (Retd); Director SOET, Prof. Ravindra Ojha; Registrar, Col Bikram Mohanty (Retd) and Heads of different Departments. The programme started with lamp lighting and Saraswati Vandana by the University choir. The new students were then briefed about the University, rules, regulations and courses etc. The briefing to the students continued with examinations, evaluation/grading system and placements by respective Heads. Later, the different Departments guided the students to various facilities in the University and Departments. The students familiarized themselves with a walkthrough of the University. The event was coordinated by Dr Payal Khurana, CLL.

It was a day of excitement and delight for the new students of the University who stepped into a new world of higher studies. The fresh batch of the University students was filled with mixed emotions of enthusiasm, anxiety, and anticipation. The University welcomes its new members and wishes them all the best.

University Pledges to remain Ragging Free

With the new academic session beginning from 27 July 2015, the University has, as in the past, gone in for renewing its pledge to keep the campus ragging free. The University has had an unblemished record of not having a single incident of ragging in the University since its inception.

On 16 July 2015, the University’s Anti-Ragging Committee, headed by the Officiating Vice-Chancellor, Brig SK Sharma (Retd) met to reiterate its resolve to ensure that the campus remains free of ragging. The Committee constitutes of the Registrar and various faculty members along with representatives of University hostel administration, police, NGO, media, parents and students as members. Brig. Sharma briefed the members about regulations of UGC, State Government of Haryana and the Supreme Court of India on the subject of ragging. The members were informed about the actions to be taken in case of any incidence of ragging. The University has also formed Anti Ragging Squads and Quick Reaction Teams (QRT), comprising faculty members, security staff and some senior students to ensure that preventive measures are taken and no incident of ragging is permitted to take place. The parents were appreciative of the fact that the University is handling the matter with the seriousness that it deserves.

On 17 July 2015, the members of the Anti-Ragging Squads were briefed by the Registrar on the modalities of operation and the importance of remaining vigilant and taking preventive action to ensure that no incident of ragging takes place.

‘Make in India’ Brainstorming Session

On 15 July 2015, a session on a topical issue for India, ‘Make in India’, was conducted in the University, led by our knowledge partner, ASQ India, with 22 participants from industry and academia. The session was chaired by the Pro Chancellor, Prof. PremVrat. During the brainstorming session, the growing importance of Industry-Academia engagement was also emphasized by the leaders. One useful takeaway for the University was the willingness of the industry leaders to support our University in the form of curriculum modification, special expert sessions and internship. A white-paper based on the recommendations of the participants is planned for release by ASQ.
Quality Enhancement in Engineering Education (QEEE) Programme

The Committee for Reforms in Technical Education under the chairmanship of Prof. Ashok Jhunjhunwala, IIT Madras, was constituted by the Ministry of Human Resources and Development (MHRD) with a mandate to bring about comprehensive reforms in technical education. The Committee has come up with a programme wherein real time and synchronous technology is used to allow for an integration of superior external scholastic inputs into current pedagogical practices. Department of EECE, has registered itself for the courses offered under this programme from August to November 2015. The programme comprises classes by IIT faculty, course packs, live labs and bridge programmes.

It is expected that other departments of SOET take similar initiatives for the QEEE programme.

Outreach Activities of Distinguished Professor

Prof. Kehar Singh, Honorary Distinguished Research Professor, has been nominated as an Associate Editor of the prestigious journal ‘Optics Express’ (IF 3.525) published by the Optical Society of America. His name, suggested by Prof. Andrew Weiner (Ed. Opt. Express) was unanimously approved by the Board of Editors of OSA. Prof. Singh is the only Indian, working in India, so nominated for any of the OSA journals. The University congratulates Prof. Singh on this achievement. Prof. Kehar Singh has also been recognized as an ‘Outstanding Reviewer’ by the Elsevier Publishers for reviewing research papers for Optics Communications, Optics and Lasers in Engineering, and Optics and Laser Technology.

Internal Audit

Third internal audit of Departments of the University was held from 1-4 July 2015 for the period of Jan-June 2015. The Audit Committee comprised Prof. Prem Vrat (Chairman), Brig. SK Sharma (Retd.), Dr IK Varma, Prof. Naveen Prakash, Wg.Cdr. Manohar Vasudev (Retd.) and Col. Bikram Mohanty (Retd.) (Convener). During the visits by the audit team, the details of Department, NAAC self-study report, and innovative efforts of the Department were presented. The team visited the facilities at the Department and provided valuable feedback for further improvement.

Faculty Mentors Meeting

To review ‘Outcome Based Progress’ of mentees, the Faculty-Mentor meeting was held with Hon’ble Governing Body, Pro-Chancellor, Vice Chancellor and Pro Vice-Chancellor on 29 May 2015 at the University. Though meetings were to be held quarterly but due to time constraints these are held bi-annually. Members decided that in future we could continue to have bi-annual Faculty Mentors meetings. Hon’ble GB members and the Pro-Chancellor appreciated the efforts of the eminent academicians who were mentoring the faculty of the University. Members unanimously agreed that there was improvement in the quality of projects due to mentor-mentee scheme though much is still left to be achieved. It was also discussed that regular mentor-mentee meetings will enrich and enhance the personal and professional development of mentees. All appreciated the mentor-mentee scheme and agreed that it has the potential to substantially enhance the branding of the University.

Staff Development Programme organized at the University

The University organized a Staff Development Programme for its non-teaching staff members on 8 and 10 August 2015. The programme was conducted as a workshop by Mr Sanjay Sahay of ‘Competency Solutions’ and was attended by administrative, technical and support staff in different groups. Mr Sahay is a consultant and a training professional with more than 35 years of industry experience.

During the interactive and engaging workshop, Mr Sahay elaborated the importance of ‘Human Engineering’ and explained the values of attitude and responsibility in one’s life. The workshop, ‘Excellence in Attitudes’ was an eye-opener for the audience who were enthusiastic and participated actively in the event. With the help of videos and live examples, Mr Sahay made the participants understand that they can change their perceptions towards the environment around them and can turn their attitude in a positive direction. This is the path of being happy and achieving excellence.
Orientation Programme on National Youth Parliament

A n Orientation Session for the students of the University was organized on 20 August 2015. The aim of the orientation session was to make students aware about the parliamentary procedures and prepare them for the National Youth Parliament which is proposed to be organized on 19 and 20 September 2015. The orientation session was organized by the organizing committee of ‘Disha’ to groom the students for the event. The students from all the three Schools of the University participated in the session and showed great curiosity to know about various parliamentary procedures.

Tech Talk 2015

S tudents and faculty of the University actively participated in Dassault Systemes Tech Talk Series 2015, a series of web-delivered technical seminars for academia community. The Tech Talk series was held from 29 July – 26 August 2015 on each Wednesday. These webinars were delivered by Industry Experts from Dassault Systemes& 3DPLM Software (Dassault Systemes R&D Lab in India). Around 50 premier colleges and universities across the nation connected to the talks delivered by experts on 5 interesting industrial topics, viz. Consumer Goods Design - An industrial case study, Best Practices in Design of Jigs and Fixtures, Simulation for Design Engineers, Concepts of Lean Manufacturing, and Industrial & Creative Designing with a glimpse in to the world of 3D Printing.

Brig SK Sharma (Retd) inaugurates South Indian Bank's Branch at Gurgaon

S outh Indian Bank invited Brig SK Sharma (Retd), Pro Vice-Chancellor, NCU as the Chief Guest at the inauguration of its 829th branch at Sector 23, Gurgaon on 12 August 2015. Brig Sharma graced the occasion accompanied by Col Bikram Mohanty (Retd), Registrar, NCU.

Speaking at the occasion, Brig Sharma congratulated the staff and members of South Indian Bank on its expansion in Gurgaon. Brig Sharma suggested that the bank should facilitate the procedure for hassle free education loans to students of the University, particularly those who come from other cities or states. He thanked the Secretary of the RWA and staff of the South Indian Bank for their kind invitation and wished them success for their new venture.

University appoints a Psychologist

To provide better support to psychological issues of its employees and students, the University has appointed Ms Nikita Kapoor as Psychologist-cum-Counselor. A specialist in organizational psychology, Ms Kapoor will be available for psychological consultation on every Tuesday, Wednesday and Friday in the University. This initiative has helped the students and employees of the University cope with their distress and emotional issues and resulted in an even more healthy and productive work environment.
School of Engineering and Technology

Department of Electrical, Electronics and Communication Engineering

Guest Lectures

- A guest lecture on ‘Evolution of telecom industry and the scope of opportunities students have in the telecom industry’ delivered by Mr Jeevan Talegaonkar, General Manager & Head Practice Business Operations, Ericsson India Pvt. Ltd, was organized by the Department on 06 April 2015. The lecture was attended by ECE third year students. During the talk, Mr Talegaonkar explained how the telecom industry has moved from 3G and CDMA to 4G and 5G. The audience was kept enthralled with the plethora of possibilities which the students could opt as career in this field. The event was coordinated by Ms Jyothi Varanasi, Ms Shaifali Jain and Mr Gian Chandra.

- A guest lecture on ‘Applications & Utilization of Robots in Industry’ by Mr Tanuj Sharma, Manager of Projects (Industrial Robotics) at Robotic Systems Ltd., Gurgaon was organized on 26 February 2015 for the students of 4th sem ECE, 8th sem EEE and 8th sem Mechanical Engineering students. The event was coordinated by Ms Jyothi Varanasi, Ms Shaifali Jain and Mr Gian Chandra.

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Departmental Activities

- The SPIE NCU Student Chapter organized an event ‘Pictionary’ on 20 February 2015 during Club Fiesta 2015. The event was organized by Mohit Yadav, President and Manica Kathuria, Vice-President along with the student members of SPIE and coordinated by Dr Sunanda Vashisth, Dept of Applied Sciences and Dr Prabhat Kumar Sharma, Dept of EECE.

- 10 students of ECE Department along with Mr JP Shivhare went on an educational tour to EFY EXPO 2015 on 28 February 2015 at Pragati Maidan, New Delhi. The students visited Agilent Technologies, Keysight Technologies, Anritsu Ltd., Hewlett-Packard (HP-products), Rhode & Schwarz, M/s Yokogawa and Sahsra Electronics Ltd pavilions.

Guest lecture on Evolution of telecom industry

Guest lecture on Applications & Utilization of Robots in Industry

Guest lecture on Evolution of telecom industry

Guest lecture on Applications & Utilization of Robots in Industry

Students at EFY EXPO 2015

0 Students at EFY EXPO 2015
The Department organized a student counselling session to encourage them to pursue higher studies and prepare for GATE/CAT/GRE/GMAT. The objective of the session was to help them in GATE preparation; to make them aware of peer tutor scheme; to advise and help them for summer internships; to motivate students to join professional societies like IEEE/SIE/SEE/SPIE/E-Club; to motivate them to participate in competitions (technical/non-technical); to encourage them for participating in international activities; to keep track of their research papers and to motivate them to publish papers in reputed journals.

The Department is organizing special classes for GATE exams on every Friday for third and final year students. Subjects specific to GATE are taught by the faculty with extra time on doubt-clearing. These classes are held with the objective of improving students’ performance in GATE.

Nine PhD scholars joined the Department in July 2015 for pursuing their PhD in fields of Signal Processing, Wireless Communication and VLSI.

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Workshops/ Seminars/ Conferences Organized

- Mr Pavan Khetrapal, Assistant Professor conducted a research seminar on ‘Electricity Transmission Pricing in Restructured Power System’ on 6 June 2015. The electricity supply industry across the world is undergoing enormous changes due to restructuring process and India is no exception. The seminar addressed several commonly used transmission pricing methods adopted by public utility companies (PUCs).

- A research seminar on ‘Ancillary services’ was conducted by Ms Anjali Garg, Associate Professor on 21 August 2015 wherein ancillary services were introduced along with their need in the power sector. Support to electricity suppliers and consumers, its trading market, service cost and various other issues were discussed and explained with facts and figures. It was also discussed that though these services are not provided in the Indian power market, rules are being formulated by the Central Electricity Regulatory Commission and both, the Indian power sector and consumers could be benefited by ancillary services soon in India.

The Department of EECE organized FDP on the theme of ‘Engineering Inclusive Teaching and Research’, filled with variety of talks from engineering, teaching and research fields. The programme covered various aspects like motivational topics, leadership, current scenario of quality in technical education, telecom engineering perspective, in addition to the talks on current technologies by eminent speakers from academia and industry. The list of eminent speakers at the FDP included Prof. Swaran Ahuja, Prof. Kehar Singh, Prof. ML Kothari, Prof. Prem Vrat, Prof. Ravindra Ojha, Ms Shaifali Jain, Prof. AQ Ansari from Jamia Milia Islamia, Mr Amit Bhardwaj from Ericsson, Mr Manoj Gopaliya, Prof. Subrato Kar from IIT Delhi, Mr Pavan Khetrapal, Ms Vandana Khanna, Ms Naresh Kumari, Dr Neeraj Shukla, Dr Vinay Budhraja, Ms Sheila Mahapatra, Ms Anjali Garg, Dr Nitin Malik, Dr Rekha Vig, Ms Shaveta Arora and Ms Sharda Vashisth. The FDP also included hands-on software sessions on Cadence tools, Matlab, COMSOL, CST, Optisim and Qualnet. The programme was coordinated by Ms Anjali Garg and Ms Sharda Vashisth.

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Industrial Visits

- The Department organized an industrial visit for EEE 4th Semester Engineering students to 66 KV Grid Substation to have a working experience of Power Distribution System, where they observed major equipment like Incoming 66 KV lines, Lightening Arrestors, 16 MVA Step Down Main Power Transformers connected to 11KV Bus Bars, Current Transformers (CT), Potential Transformers (PT), KV SF6 circuit breakers & isolators, Capacitor Banks to correct the power factor etc. The students found the visit very informative and interesting as it gave them an
Dr Sharma was nominated as the Faculty Activities

- Mr Prabhat Kumar Sharma successfully defended his PhD thesis titled ‘Performance Analysis of Cooperative Communication systems over Fading Channels’ on 26 February 2015 at NSIT, University of Delhi, New Delhi.

- Dr Prabhat Kumar Sharma participated in 21st National Conference on Communication held at Indian Institute of Technology, Mumbai from 27 February-1 March 2015, under a travel grant received for the same.

- Dr Sharma was nominated as the Member of IEEE Com Soc Signal Processing for Communications and Electronics Technical Committee (SPCE TC) by the Chair of SPCE TC, Dr Hai Lin.

- He was also selected to present two of his research papers titled ‘Performance of FSO links under Exponentiated Weibull Turbulence fading with misalignment errors’ and ‘DF Cooperation over Gamma – Gamma fading FSO links with an erroneous relay’ at IEEE International Conference on Communications (ICC) 2015, London, from 08-12 June 2015. He received a grant for his participation in the Conference by the Science and Engineering Research Board (SERB), a statutory body under Department of Science & Technology, Government of India.

- Dr Satya Sheel, Honorary Professor in the Department of ECE visited GLA University, Mathura on 06 May 2015 to address the research scholars and faculty members on ‘Research in India - How to be relevant’ and ‘Some New Tools for Research’. The programme was attended by more than 50 research scholars and faculty members of engineering and management.

- Ms Anjali Garg participated in Summer Faculty Research Fellow programme 2015 under Continuing Education Programme from 15 - 17 August 2015 at IIT Delhi.

- Dr Vinay Bhudhraja, Associate Professor delivered expert lectures on ‘Nanotechnology in Photovoltaics’ and ‘Solar Cell: A Source of Useful Renewable Energy’ during one week short term course on Nanomaterials for Two Dimensional Devices and Energy Applications conducted at the School of Material Science and Nanotechnology (SMSN), NIT Kurushetra, from 20-24 July 2015.

- New Faculty on Board

Ms Mona Aggarwal joined the Department as Assistant Professor (Sr Scale).

Also visited the boiler section, coal crushing section, ash handling, and water treatment section. As an outcome of this industrial visit, the training section of the plant has given an assurance to provide industrial training opportunities to our students. The visit was coordinated by Mr Mandeep Singh, Mr Nand Lal Yadav and Mr Nitin Garg.

An industrial visit to Jhatikra Powergrid substation was organized by the Department for BTech EE 4th semester students on 27 March 2015. A total of 42 students were a part of this visit, for whom it was an enlightening experience with practical applications giving a real insight into working and functioning of a power substation. The students were given a chance to visit the switchyard and were explained about protection circuits and different components installed there along with how the maintenance of the power grid takes place. The visit was coordinated by Ms Anjali Garg, Ms Sheila Mahapatra and Dr Nitin Malik.

Features and utilities of different instruments. The students were introduced to x-ray machine, CT Scan machine, MRI and ultrasound machines. The imaging system, including the procedures and measurements, were explained by the biomedical engineer. The students also got a chance to visualize the measurements involved in dialysis being performed on a patient. It was an informative visit through which they could relate the theory being taught on the subject with actual medical instrument demonstrations. The visit was coordinated by Ms Shaveta Arora and Ms Naresh Kumari of Dept of EECE.

Visit to 66 KV Grid Substation

A contingent of engineering students went for an educational visit to Columbia Asia Multispecialty Hospital at Palam Vihar, Gurgaon on 7 April 2015. The visit was organized by the Department for the students of ECE (6th semester) studying Biomedical Instrumentation. The students got an excellent opportunity to know about the functioning of various biomedical instruments. They also interacted with the biomedical engineer at the hospital and learned about the capacity of 210MW, where they learned about how the various parameters of the plant are monitored and controlled.
Department of Computer Science and Engineering & Information Technology

Departmental Activities

Guest Lectures

- Industry-Institute Interaction Cell conducted a guest lecture by Ms Praneet Kaur for 3rd year CSE/IT students on 10 March 2015. The purpose of the lecture was to groom students, interview skills before pre-placement interviews. The expert also counselled the students on the areas of improvement and weaknesses. The session was attended by about 150 students.

- The Department conducted a series of guest lectures under the Reframers Club on 9 April 2015. The purpose of this event was to prepare third year students for their upcoming placements as well as for CAT/GRE/GMAT. The series included three lectures conducted by bright students of final year (Paras, Sumedha, Geetika, Gargi, Kunal, Khushhal and Mohit). It was attended by a total of 70 students.

- Dr Latika Singh invited Mr Karamveer Bindra, Lead Analyst from Dunn Humby to give a lecture to the students on ‘Careers in Data Analytics’ on 11 August 2015. Mr Bindra focussed on various aspects of Big Data Analytics and the career options available in this domain. [CSE2015G004]

Workshops/ Seminars/ Conferences Organized

- The Department under Reframers Club and FOSS group organized a one day workshop on ‘Web Development using PHP’ on 13 March 2015. The students were given hands-on experience on PHP. Dhruv Jain and Kunal Daral, final year students of CSE were speakers at the workshop. The faculty coordinators were Ms Neeti Kashyap, Ms Shilpa Mahajan and Ms Divya Sharma. [CSE2015W004]

- The Department organized a one day workshop on Python under FOSS group on 18 April 2015. The workshop took an in-depth look at the use of Python language. It started with a brief review of general concepts of Python and then moved forward to cover the different libraries, packages, and application areas of the language.

- Ms Jyotika Pruthi and Ms Neha Sahu conducted an event ‘Code Optimizer’ under the ‘Google Students Club’ on 16 April 2015. The participants were required to convert a problem statement to a working code using any computer language of their choice. The event was organized in collaboration with DKOP Labs, Noida along with GSC team member Mr Siddharth Ahuja, Google Student Ambassador, Mr Palash Chhabra and the extended team members of GSC. Mr Devender Khari, CEO of DKOP Labs gave the vouchers of BookMyShow, certificates and opportunity to work on live projects as awards to the students with the correct solution and shortest running time of the code. [CSE2015W005]

The Department of CSE&IT organized the FDP on ‘Teaching and Research in University: Pitfalls, Challenges and Road Ahead’ from 8-12 June 2015 that was inaugurated by Dr Latika Singh followed by a session on Leadership by Prof. Ravindra Ojha. Other speakers at various sessions included Mr Anil Kumar Mishra, Prof. BK Gupta, Mr Manoj Gopaliya, Dr Naveen Prakash, Prof. BK Das and Prof. Prem Vrat. Dr Vinnie Jauhari from Microsoft gave detailed insights about the gap existing between industry and academics. The last three days of FDP were occupied by parallel sessions in seven research groups existing in the Department.
The Department organized a one-day Workshop on Cyber Security on 11 July 2015, which was attended by about 60 officials of Gurgaon Police including those of Cyber Crime Cell and the newly formed ATM Fraud Cell members. Brig SK Sharma (Retd), Pro Vice-Chancellor; Col Bikram Mohanty (Retd), Registrar; Sri Sajjan Singh, SHO; Dr Meena Kumari, Professor Dept of CSE&IT and Dr Latika Singh, Head Dept of CSE&IT along with faculty members of Dept of CSE&IT were present at the event. The topics covered in the workshop included Cryptography, Insecure Electronic transactions, Social Engineering, SSL stripping and Digital Forensics.

In his welcome address to the audience, Brig Sharma emphasized on the seriousness of cyber-crime and importance of cyber security. Dr Meena Kumari lectured on Cryptography in Secure Electronic Transactions and explained the encryption and decryption keys used in cryptography. Mr Rahul Tyagi talked about security in e-banking and ATM frauds. Mr Saurabh Kaushal presented an informative talk on Social Engineering. Mr Manoj talked about the fundamentals of Digital Forensics and explained the tools used for it. Ms Mehak Khurana and Ms Ruby Yadav spoke about the tools for Cyber Security and Digital Forensics.

The event was organized by the Department of CSE&IT under the supervision of Dr Latika Singh. The coordinators for the event were Ms Supriya Raheja, Ms Shilpa Mahajan and Ms Yogita Gigras.

The Department organized Summer School 2015 from 1 – 24 July 2015 which was attended by a total of 19 candidates. The participants enthusiastically learnt the concepts and protocols of Networking. Besides regular training, the Summer School also comprised of quizzes and tests. The participants appreciated the workshop and enjoyed the hands-on sessions on routers and switches configuration. The Department looks forward to organize more such modules of the course in future.

The Summer School 2015 was coordinated by Ms Suman Bhatia, Ms Shilpa Mahajan, Ms Supriya Raheja and Ms Jyotsna Singh. The speakers for the CCNA Module -1 Certification course were Ms Hitesh Yadav and Ms Neha Singh.

The Department organized an FDP on Cyber Security from 23-25 July 2015 which aimed to address important issues in cyber security and the protection of information systems and network infrastructure from attacks. Mr Shesh Sarandhar, Certified instructor from Information Security Related Projects was the speaker.

The Department organized a Code Hunt event on 21 August 2015 with a view to enhance the coding skills and develop general interest of students in coding. The participants were required to code the whole program from scratch. The question paper provided only the objective on which participants were to define the logic on their own. The event was coordinated by Mr Gaurav Aggarwal and Ms Poonam Sharma along with the student coordinator Mr Shrey Goel.

The Department organized the Valedictory session of the programme ‘Life is a Game, Play it’ for the final year students on 24 August 2015 conducted by Sri Sathy Sai Seva Organization. The programme, running through months, consisted of nine modules for inculcating human values in the young minds of our University. The event was coordinated by Ms Neha Goyal.
Other Activities

- Under the banner of Society for Research in Information Security (SRIS), a movie, ‘Imitation Game’ was shown to BTech CSE&IT 6th semester students on 25 February 2015. The aim of the show was to teach the students art & science of cryptanalysis of Enigma machine which was used in World War II. The movie focuses on the Enigma machine, a seemingly unbreakable Rotor based Cipher machine which was used by Nazis during World War II. Students understood the importance of cryptanalysis, how hard it is to cryptanalyze than to design a cipher system, importance of knowledge of reverse engineering and mathematics. It was a fun-filled, educational and enlightening experience.

- The Department is pleased to share that an MoU has been signed with VDoIT Technologies which is an IT Solution Provider that provides technical and process based solutions to different segment of industries. The MoU has been signed with the coordination of Dr Latika Singh, Mr Anil Kumar Mishra and Ms Niharika Garg. Under the MoU, three students of third year CSE/IT have been taken as summer interns and a consultancy project has been undertaken by Ms Jyotika Pruthi. A project is also being jointly developed by NCU and VDoIT.

- The Department also signed MoUs with Numetric Technologies, Gurgaon, AgBe Technologies, Gurgaon and Ansyst Consulting which are IT solution providers providing technical and process based solutions to different segment of industries. Under the MoUs, students have been taken as summer interns. Joint projects would be undertaken and they would be in constant touch with our Data Mining and Software Engineering Research Group.

- Ms Neha Goyal, along with Mr Akhand Pratap Singh, coordinated a visit for the students of 6th sem CSE and ECE to the blind school at Behrampur, Gurgaon. The event was organized as one of the modules of the programme ‘Life is a Game, Play It’ of Sri Sathyai Sai Seva Organization to make the students feel that they should be considerate and humble towards the weaker sections of the society.

- Ms Jagdeep Kaur visited R&D Centre at MandoSoftech Pvt Ltd, Gurgaon on 4 March 2015 along with 6 MTech Software Engineering students. The motive of the visit was to know the various testing techniques, tools and standards followed in the organization which was presented by Mr Anish from Software Verification and Validation team. Students interacted with the software team lead and discussed their career prospects. They also visited the software team lead and discussed their career prospecs. They also visited the HILS (Hardware in Loop Simulation) lab. [CSE2015IV003]

The Department conducted pre-placement interviews for third year CSE/IT students on 14 and 17 March 2015. Students were given the detailed feedback regarding their technical/attitude parameters. Four alumni, working in reputed software industries were invited to conduct the interviews. The experts also counselled the students in the area of improvement and weakness. The event was successfully organized jointly by Alumni Cell and Industry Institute Interaction Cell.

- The Department facilitated summer internship interviews by calling various companies like Rayk Labs, AgBe, Esoft, ThinkFuture, InfloLona for recruiting third year students for summer internships. About 55 students appeared for the interview.

- The Department conducted a 3 minute Thesis competition developed by University of Queensland in which PhD students had just three minutes to present a compelling oration on their theses and its significance. It was coordinated by Dr Ashish Saini and Ms Geetika Munjal. Ms Jyotika Pruthi stood out to be the winner of the competition and will now be representing the University at an international level.

Industry Visits

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Research Projects Approved

- A project 'Neural Network based Steganalysis' submitted by Ms Rita Chhikara to Department of Science and Technology (DST) under Women Scientist Scheme has been technically approved for financial assistance on 16 April 2015 for an amount of Rs 20 lakh. Prof. Meena Kumari is the mentor for this project.

- A project titled 'A Computational Model for STN (Sub Thalamic Nucleus) in Parkinson Disease to Investigate the Discharge Patterns' submitted by Ms Jyotsna Singh from Dept of CSE&IT Department and Dr Phool Singh from Dept of Applied Sciences to Cognitive Science Research Initiative (DST) has been technically approved for financial assistance for an amount of Rs 18 lakh.

Summer Internship

- The Department takes a note of appreciation for the efforts made by its faculty members to help the 6th semester students getting absorbed for summer internships in various companies namely Stratbeans Consulting Pvt Ltd, Earth Gold Market Place Pvt Ltd., Think Future, VDoIT, Agebe, InfoLona, Infeedo, Lkaav and RAYK. A total of 38 students have got their internships confirmed.

Faculty Activities

- Ms Neha Singh and Ms Hitesh Yadav attended CCNA certification course organized by CISCO at Amity University from 16-28 February 2015. The programme included two modules of one week each with sessions on the Introduction to Networking, Addressing, Switching, Routing along with practical sessions on Packet Tracer (Network Simulation Program) and Hardware Devices (Routers and Switches). Both the faculty members, (as Certified Training Instructors), will conduct CCNA course Module 1 and 2 for BTech students which would include networking concepts with practical sessions.

- Ms Jyotika Pruthi has been awarded the Best Paper and Presentation Award for presenting her paper on Medical Image Processing at International Conference on Emerging Trends of Engineering, Science, Management and Applications (ICETESMA-2015), organized by Academic Science Publication at JNU, New Delhi on 1 March 2015. Ms Pruthi has been working under the supervision of Dr Gaurav Gupta along with the support from Dr Latika Singh, HOD, Dept of CSE/IT.

- Ms Jyotika Pruthi has also been declared Winner from Northern Zone in IET, UK Present Around the World (PATW) Competition 2015. She has achieved this feat successively for two years. About 100 participants from different engineering colleges and universities across the Northern Region had participated in this competition. She later participated in the Nationals of PATW competition that took place in Chennai on 21 August 2015 and represented Northern Zone. She has been given a free membership of IET for one year as a reward of sharing the highlights of the recent visit made by Mr Bhavya Kaushal (2014 Batch) holding a position of Software Engineer at Newgen Software Technologies, Faridabad. He addressed the CSE/IT students regarding the process that they should follow while preparing for placements. The Industry Interaction Cell in presence of Ms Divya Sharma supported him in conducting the pre-placement interviews for five students that...
Ms Pruthi has successfully completed the consultancy project of technical content writing as a part of MoU signed with VDoIT Technologies which is an IT Solution Provider that provides technical and process based solutions to different segment of industries.

An article titled ‘Student’s Life – Transition today’ by Ms Jyotika Pruthi has been published in Haryana Recorder April, 2015.

Dr Charan Kumari reviewed research paper on Software Testing for International Journal of Software Engineering and received an appreciation note from Haitham Hamza, PhD, IJSE Executive Secretary.

Ms Niharika Garg, Ms Jagdeep Kaur and Ms Meghna Sharma attended the International Workshop on Soft Computing and Applications (ISCA’15), organized by Center for Soft Computing Research (CSCR), ISI Kolkata jointly with South Asian University, New Delhi from 25-27 March 2015 at New Delhi. [CSE2015A07]

Dr Latika Singh and Mr Anil Kumar Mishra were a part of Technical Review Committee of IEEE International Conference on Computing, Communication and Automation (technically sponsored by IEEE UP Section) organized by School of Computing Science and Engineering, Galgotias University from 15-16 May 2015. They reviewed papers on Software Engineering, Signal and Image Processing.

Dr Akansha Singh has been appointed as a reviewer for ‘Elsevier’s Journal of Epidemiology and Global Health’.

Dr Meena Kumari was published on 14 July 2015 in 'Wisdom Blow', a magazine for Netizens.

Dr Usha Batra has been invited to be a reviewer for 'Elsevier's Journal of Epidemiology and Global Health'.

The Department takes pride to share that based on the reference value of Dr Deepti Gaur’s outstanding achievements, ‘Marquis Who’s Who’ has selected her biographical profile for inclusion in the ‘Who’s Who in the World 2016 (33rd Edition)’. This new edition will feature biographies of approximately 55,000 of the most accomplished men and women from around the globe and from all fields of endeavour.

Prof. Prabha Sharma attended the Central Council Meeting of the Operational Research Society of India as an elected member on 16 August 2015 at the Society's headquarters in Kolkata.

Dr Meena Kumari attended a workshop on ‘Cyber Security: The Lifeline of Information and Communication Technology (ICT)’ jointly organized by GISFI and IETE from 3-5 June 2015 at IETE, New Delhi. [CSE2015AW12]

Ms Jyotika Pruthi attended the
International Conference on Recent Development in Engineering, Science and Management on 17 May 2015 at YMCA, New Delhi. [CSE2015AC02]

Ms Pruthi has also shown her flair for writing articles. Her article 'World No Tobacco Day' has been published online in Wisdom Blow Magazine and another article ‘World Day against Child Labour’ has been published online in CSR Times.

Ms Sujata has successfully completed online course ‘Regression Models’ that is a subset of linear models and is an important statistical analysis tool in a data scientist’s toolkit. The course covered regression analysis, least squares and inference using regression models.

Mr Anil Kumar Mishra acted as a session chair at IEEE International Conference on Computing, Communication and Automation (technically sponsored by IEEE UP Section) organized by School of Computing Science and Engineering, Galgotias University from 15-16 May 2015. [CSE2015AC003]

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New Faculty on Board
Dr Vijender Singh joined the Department as Associate Professor.

Department of Mechanical Engineering

Departmental Activities

Guest Lectures

The Department organized expert sessions on the topics, 'Entering the 21st Century Job Market' and 'The Solar Cool House Concept' by Honorary Distinguished Adjunct Prof. Som Karamchetty on 7 April 2015. Prof. Som retired from the US government after working for sixteen years as a GS-15 Executive and senior staffer at the US Army Research Laboratory (ARL), Maryland. The sessions were much appreciated by the students. The event was coordinated by Mr Lalit Upadhayay and Prof. Ravindra Ojha. [MED2015G003]

The Department organized a guest lecture on ‘Emerging Trends in Heat Transfer- “Biological Heat Transfer and Thermal Therapeutics’ by Mr Sanjeev Soni, Sr Scientist, CSIR-Central Scientific Instruments Organization, Chandigarh on 21 April 2015. Mr Deepak Monga coordinated the lecture which was

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Dr K Mathiyazhagan organized a guest lecture by Prof. Kannan Govindan, University Southern Denmark, Denmark on 30 March 2015. Prof. Govindan discussed about the application of optimization techniques in the real time supply chain problems. He also explained the theory behind Genetic Algorithm in an interactive session. [MED2015G004]

An expert lecture on 'Future Prospects of Automation for Multidisciplinary Projects' was delivered on 15 April 2015 by Mr Satpal Singh from CETPA Pvt. Ltd. The lecture was organized by joint collaboration of Departments of Mechanical Engineering, Applied Sciences and EECE and was coordinated by Mr Anmol Bhatia (ME Dept.), Ms Neha Bhatia (ME Dept.), Mr Mandep Singh (EECE Dept.) and Dr Sunil Hans (ASH Dept.). [MED2015G006]

The Department organized a one day Conference on Emerging Trends in Mechanical and Industrial Engineering-ICETMIE-2015 on 18 July 2015. The conference successfully hosted a gathering of promising researchers, academicians and industry representatives from different parts of India. Mr Sudam Maitra, Dy. MD, IFB and Former Chief Operating Officer- Supply Chain, Maruti Suzuki India Ltd graced the occasion as Chief Guest. Other dignitaries present at the event included Prof. Prem Vrat, Pro Chancellor; Brig. SK Sharma (Retd.), Pro Vice-Chancellor; Dr CR Prasad, INAE Fellow, Former Chairman & Managing Director, GAI; Prof. LM Das, Emeritus Professor, Centre for Energy Studies, IIT, Delhi; and Prof. Ravindra Ojha, Director, SOET. The keynote address was given by Prof. Prem Vrat who sensitized the audience towards pursuing research which is multi-disciplinary in nature and is meant for a social cause. Mr Sudam Maitra put forward the industry perspective on the importance of focused research on issues which can solve problems relevant to industry. The conference was supported financially by M/s Inter-Alliance Werardt Pvt. Ltd. and M/s Dragonfly Education Pvt. Ltd. American Society for Quality (ASQ) served as the knowledge partner of the conference. International Journal of Advances in Applied Engineering Research (IJAER) and International Journal of Advances in Operations Management (IJAM) were the publishing partners of the conference. The event was a success owing to assiduous efforts put up by a team comprising the Conference Convener, Dr K Mathiyazhagan; Conference Secretaries, Mr Lalit Upadhayay and Dr Feras Hakkak; Joint Secretaries, Dr Ritwik Basu and Mr Deevesh Sharma along with faculty members and technical staff of the Department. [MED2015W009]

Mr Ashwini Sharma organized a webinar on ‘Concepts of Lean Manufacturing’ Delivered by Mr Kanwaljeet Virk (Dassault Systemes) on 19 August 2015. [MED2015WO001]

The Department, in association with M/s Mitsubishi Electric India Ltd., organized a two day workshop on ‘Programming Logic Control’ on 1-2 April 2015 during which the students were given hands-on experience on PLC programming. The faculty coordinators were Mr Pradeep Rohilla and Ms Shweta Arora. [MED2015WO005]
An expert session on ‘Structured Quality Problem solving methodologies used in Industries’ by Mr Shaibal Roy, Asia Pacific Quality Head, M/s GKN Driveline (international and national market leaders of driveline products) was organized on 26 February 2015. The session was attended by students and faculty members of the Department. [MED2015W003]

A workshop on ‘Hands-on PLC & SCADA’ was organized on 16 April 2015 by the Department in association with Departments of EECE and APS under Continuous Education Programme (CEP). The workshop, conducted by CETPA Pvt. Ltd., was attended by faculty members of the Department along with students of BTech Mechanical Engineering. The workshop had four sessions on Introduction & Career prospects of Automation, Hands-on Experience on Programmable Logic Controller (PLC) designing, SCADA tools Usage, Tagging, Simulation and Practice exercises.

The workshop was helpful for the students to get hands-on experience on PLC & SCADA, which is required for automation in mechanical, electrical, electronics and civil industries. The workshop was coordinated by Mr Anmol Hans, Mr Mandeep Singh, Dr Sunil Hans and Ms Neha Bhatia. [MED2015W004]

**Industry Interactions**

- Prof. Ravindra Ojha and Mr Lalit Upadhyay visited Maruti Centre of Excellence (MACE), Gurgaon on 23 March 2015 to explore the opportunities of industry-academia tie up. They had a meeting with Mr IV Rao, Director, MACE and Mr Y Kheterpal, Sr Manager, MACE to discuss the modes of engagement. They have agreed to induct four Mechanical Engineering students of the University for a duration of one year, who would be given quality industrial training which may be converted into their BTech projects to be completed under the guidance of MACE and NCU faculty. [MED2015W002]

As a part of the ongoing efforts to improve the BTech projects and industrial training quality, Prof. Ravindra Ojha and Mr Lalit Upadhyay had a series of interactions with the officials of M/s Maruti Suzuki India Ltd., M/s Bharat Gears Ltd. and M/s Federal Mogul Goetze Ltd., Bhiwadi. The outcomes of the interactions are:

- Maruti Centre for Excellence (MACE), Gurgaon agreed to take four Mechanical Engineering students (2012-2016 Batch) for the integrated Industrial Internship + BTech project programme and issued training letters to the students. The students got trained at MSIL premises and transferred to one of their associate vendors for their projects.

- M/s Bharat Gears Ltd., Faridabad has inducted four Mechanical Engineering students of the University for the integrated Industrial Internship + BTech project programme. The students worked on the title, ‘Creating world class gear manufacturing line for the EATON group’ during their internship which shall be extended to their final year BTech Project.

- M/s Federal Mogul Goetze Private Ltd., Bhiwadi has taken two Mechanical Engineering Students for the integrated Industrial Internship + BTech project programme. The students shall be working on ‘Problems related to the sintering process and quality engineering’ faced by the company.

Students in these projects are being assisted by the following faculty members of the Department: Prof. Ravindra Ojha, Mr Lalit Upadhyay, Dr Ritwik Basu and Dr K Mathiyazhagan. The Department is working towards more such alliances to improve the Industry-Academia interactions. [MED2015O003]

- Prof. Ravindra Ojha, Mr Lalit Upadhyay and Dr Ritwik Basu visited M/s Federal Mogul Goetze Pvt. Ltd. on 15 April 2015 to evaluate the ongoing final year BTech projects and to find out new problems which can be floated to students of next batch (2012-2016). [MED2015V007]

Mr Lalit Upadhyay and Dr Ritwik Basu followed up with a visit to M/s Federal Mogul Goetze Ltd. on 22 May 2015 and met Mr Rakesh Kumar, General Manager. The meeting was held to discuss points related to training and projects. The students joined the company for training on 26 May 2015. [MED2015V011]

- Mr Deevesh Sharma and Mr Devendra Kumar Pathak along with five pre-final year students visited Rico Auto Industries Limited, Gurgaon, on 15 April 2015. As an outcome of the meeting with Mr Ranjeet Singh Yadav, Chief General Manager – HR, the organization has agreed for three student internships and one project. The industry and the department are looking forward for more future relationships. [MED2015V008]

- Prof. Ravindra Ojha, Mr Lalit Upadhyay and Dr K Mathiyazhagan visited M/s Bharat Gears Ltd., Faridabad along with three final year Mechanical Engineering students (2012-2016). [MED2015V006]

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VectorTech Mar - Aug 2015
Batch) on 19 May 2015. They had a meeting with Mr Sandeep Bathla, Operations Head and his team. The students shall be jointly working with the BGL team on topic ‘Creating a world class gear manufacturing line for the EATON group’. The students joined the company for training on 19 May 2015. [MED2015V009]

Prof. Ojha, Dr Mathiyazhagan and Mr Upadhayay also interacted with higher management of M/s Bharat Gears Ltd to discuss possible courses of action for ongoing BTech Projects. Other possible avenues for industry academia engagement were also discussed.

Prof. Ravindra Ojha and Mr Lalit Upadhayay again visited Maruti Centre of Excellence, Gurgaon (MACE) along with four final year mechanical engineering BTech students for a joint interaction with the Maruti representatives. The students have joined the training programme of MACE from 25 May 2015. Prof. Ojha and Mr Upadhayay met Mr Yash Kheterpal to discuss training and project content and other areas of possible engagement. [MED2015V010]

Eighteen Industrial visits were conducted by the faculty of the Department in June-July 2015. The objective of the visits was to evaluate the performance of 3rd year students in their internships. The details of the visits are as follows:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Faculty Name</th>
<th>Industry Visited</th>
<th>Date of Visit</th>
<th>PCN No.</th>
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An industrial visit to Rak Din Engineers, Gurgaon was organized by the Department on 20 August 2015 for 3rd semester students of Mechanical Engineering. Rak Din Engineers is a manufacturing company which supplies the components like filters, strainers etc. to the companies like Indian Oil, Shell etc. The visit was very useful for the students as they were able to link the theoretical concepts with the practical techniques and production process followed in the company. The visit was coordinated by Mr Anmol Bhatia and Dr Sunil Hans (APS Dept.).

Society Activities

Robotics Society of the Department organized ‘Qube Workshop’ in collaboration with Edutech India Private Limited, on 4 February 2015 for students and faculty members. The highlights of the event were recent developments in the area of robotics, introduction to Quanser make Qube and quiz sessions. [MED2015A003]
Alumni Interactions

The Department organized an interactive session on ‘Effective Project Management in EPC Companies’ by our alumnus Mr Nitin Gupta, Senior Engineer, Samsung Engineering India Pvt. Ltd on 18 April 2015 for BTech 2nd and 3rd year students. Mr Gupta discussed the role and importance of project management in EPC companies and motivated students to get acquainted with the basics of project management before they step out in the real world. The session was coordinated by Departmental alumni coordinators, Ms Neha Bhatia and Mr Anmol Bhatia. [MED2015O006]

Workshops Attended

- Deevesh Sharma and Devendra Pathak participated in ‘International Conference of Advance Research and Innovation (ICARI2015)’ on 31 January 2015, held at Institution of Engineers (India), Engineers Bhawan, New Delhi. [MED2015A001]

- Mr Sudhakara S has undergone a Summer Faculty Research Fellowship Programme (SFRF-2015) under the mentorship of Prof. Ravi Shankar, Department of Management Studies, IIT Delhi from 9 June -15 July 2015. The objective of this programme was to help in inducting and inculcating research culture among the faculty of engineering institutes outside the IIT system. [MED2015FA001]


- Mr Ashwini Sharma attended the national conference on ‘Building India: A shared responsibility’ on 6-7 April 2015 organized by Confederation of Indian Industries (CII) at New Delhi. [MED2015A004]

He also attended a brainstorming session on ‘Professional design projects evaluation- An effective way’ on 4 April 2015, at India Habitat Centre, New Delhi. [MED2015A005]

- Ms Shiv Manjaree Gopaliya submitted her PhD thesis on 'Kinematics and Dynamics of Multi-Degree of Freedom Robotic Systems Using Artificial Intelligent Techniques with experimental validation' on 18 March 2015. The PhD work has been carried out under the supervision of Prof BC Nakra, IIT Delhi (Formerly also at NCU) and Dr Vijyant Agarwal (NSIT, New Delhi). [MED2015O005]

Other Faculty Activities

- On 10 April 2015, Prof. Ravindra Ojha attended the meeting of the LMC of ASQ Delhi NCR. Mr IV Rao, the new Chair of the LMC, presided over the meeting which discussed the broad plans of the ‘Make in India’ drive by ASQ. The engagement of the academia with industries was also discussed. [MED2015O004]

- Mr Ashwini Sharma was invited to evaluate the ‘Quality management and lean practices’ at Jai Vandana Interiors, Gurgaon on 19 April 2015. [MED2015O002]

Patent

Mr Vipin Thakran along with Mr Ashwini Sharma and THE NORTH CAP UNIVERSITY filed a patent for Coconut Opener machine on 12 June 2015. [MED2015O007]

New Faculty on Board

Ms Sidra Khanam joined the Department as Assistant Professor (Sel. Grade).

Mr Anuj Kumar Jain and Mr Samir Kumar Panda joined the Department as Assistant Professors (Sr Scale).
Department of Civil and Environmental Engineering

Departmental Activities

Guest Lectures and Mentor-Mentee Meeting by Prof. SK Kaushik

Prof. SK Kaushik, Fellow of Indian National Academy of Engineering (INAЕ) visited the University from 16-18 March 2015 under the Distinguished Visiting Professor scheme of INAE and delivered three guest lectures and held discussions with his mentees. The programme was coordinated by Mr Ankit Pachouri.

On 16 March 2015, Prof. Kaushik delivered a lecture on ‘Concrete- a wonder’ to the students of 4th semester, in which he described concrete as a material that has transformed the way we construct buildings. On 17 March 2015, he gave students of 8th semester an opportunity to study about ‘Reinforced Cementitious Materials’. The programme ended with a lecture on ‘Cementitious Matrices’ for the students of 6th semester on 18 March 2015, in which Prof. Kaushik emphasized on how cement is poly-phased inorganic compound of complex nature formed by burning of calcareous and argillaceous raw materials as a binding material.

Prof. SK Kaushik, in the meeting with his mentees, Mr Ankit Pachouri, Ms Prachi Sohoni, Ms Megha Kalra, Ms Tanvi Gupta and Dr Amit Srivastava, discussed the progress of their research work and topics for research proposals under R&D projects. He suggested for opening more student chapters, like Indian Concrete Institute (ICI) student chapter, IGS student chapter, etc., so that department can have better linkages with experts in academia and industry.

Prof. Kaushik again visited the University from 20-22 April 2015. During the visit, Prof. Kaushik delivered guest lectures and held discussions with his mentees. The programme was coordinated by Mr Ankit Pachouri.

Prof. Kaushik delivered the first lecture on ‘Non-Destructive Evaluations of Structures’ to the 6th semester students. He opined that NDT is a highly valuable technique that can save both money and time in product evaluation, troubleshooting and research. On 21 April 2015, he gave the students an opportunity to study about ‘Techniques for Repair and Rehabilitation of Structures’. The topic emphasized on how the success of repair activity depends on the identification of the root cause of the deterioration of the concrete structures. The programme ended with a lecture on ‘Materials for Repair and Rehabilitation of Structures’ for the 4th semester students on 22 April 2015.

During the Mentor-Mentee meeting Prof. SK Kaushik suggested a wide range of topics like ‘recycled concrete’ and ‘polymer concrete’ for research in their respective fields. He also provided various inputs and feedback for improving the quality of work culture and research activities.

Guest Lectures

Initiated by Brig. SK Sharma (Retd.) and Prof. S Ghoshal, the Department organized an expert lecture by Mr DK Goel, owner and Business Head - Greenmax Infrastructure, Gurgaon (Project Management Consultancy) for the 4th and 6th semester students on 31 March 2015. Mr Goel has an experience of 27 years in real estate development projects, construction of residential and commercial buildings and townships, sales and marketing of real estate projects infrastructure projects, construction of roads, railways and bridges & flyovers development of healthcare and hospitality projects. Through the lecture Mr Goel educated the students on various types of highways and issues related to road construction in India. He also guided them on future scope for Civil Engineers in India. The event was coordinated by Ms Purnima Bajpai.
The Department organized a mentoring session on ‘Effective communications and enhancement of employability’ by Ms Savita Bradoo, Director of Quality at Convergys on 12 August 2015. Ms Bradoo has also been associated with a US enterprise as Sales Trainer and I-Energizer as its Team Leader for operations. The lecture focused on corporate communication and enhancement of leadership skills. Ms Bradoo emphasized on the importance of hard work and technical as well as managerial efficiency and how one can develop these skills at the University level. The motivating and encouraging lecture was attended by students from all batches of Civil Engineering and a few faculty members from Dept of Applied Sciences. The session was coordinated by Ms Purnima Bajpai. [CEE2015G008]

Ms Savita Bradoo delivering a Lecture on Effective Communications

The Department organized mentoring sessions for the 5th and 7th semester students by Construction Skill Development & Research Institute (CSDRI) on 13 and 19 August 2015. CSDRI acts as a bridge between the academies and the construction and infrastructure industry in India and overseas by providing young engineers with practical training courses recognized by ICMQ India (a leading Italian certification and inspection body). This is a good initiative by the Department to increase the placements and employability of students.

Mentor-Mentee Meetings

Dr YP Anand, Former Chairman, Railway Board, Govt. of India held discussions with his mentees on 16 May 2015. Dr Anand discussed in detail the various experiences and risks associated during execution of projects. He also shared the latest Municipal Solid Waste Management Rules 2015 and discussed its highlights. Dr Anand is associated with our University as a faculty mentor.

Workshops/ Seminars/ Conferences Organized

Initiated by Ms Purnima Bajpai, the Department organized a technical seminar on STAAD Pro & AutoCAD by CETPA InfoTech Pvt. Ltd., on 1 April 2015 for the 2nd, 3rd and final year students. The seminar included introduction to STAAD Pro & AutoCAD software and its role and importance in the industry. It also detailed live project discussions and included the possible job prospects of the selected field. The team from CETPA briefed the students on the latest software along with various tools used in the industry. More than 60 students attended the seminar. [CEE2015W006]

A national level Design Competition was organized for the students of Civil & Environmental Engineering, NCU by CADD Centre, Dwarka under the initiative of Dr Anil Kumar Misra and Ms Purnima Bajpai. More than 50 students from all semesters of Civil & Environmental Engineering participated in this prestigious event
and made it a great success. Lokesh Lochav, 4th semester student was selected for the next regional round. [CEE2015W007]

- A technical quiz contest for final year Civil Engineering students was conducted on 2 March 2015 under the coordination of Mr Lokesh Choudhary. The contest got participations from students of 120 engineering colleges and 40 architecture colleges across Haryana, Punjab and Himachal Pradesh. Himanshu Mittal and Rounak of NCU were selected among participants of top five colleges for the final grand finale quiz held at Panchkula, Chandigarh. [CEE2015W008]

- The Department organized a research seminar on 'Quaternary Binders' on 3 June 2015, during which a special talk was delivered by Ms Niragi Dave, PhD research scholar. [CEE2015W010]

**Student Seminar**

Under the initiative of the HoD Dr Amit Srivastava, the Department organized a student seminar in August 2015 during which the students were encouraged to present the knowledge that they have gained during the summer internship with their classmates. During the session two students presented their work on 'Analysis and Design of Diversion Canal of Jorethang Dam in Sikkim using HERCAS software' and 'Analysis of industrial structures under EQ/WL condition using STAAD Pro'.

**Faculty Seminar**

A Faculty Seminar was initiated in the Department on 14 August 2015. The first session for the month of August was organized on the topic 'Geotextile Reinforced Unpaved Roads Resting on c-φ Subgrade: Analytical and Finite Element Based Design' conducted by Mr Lokesh Choudhary. The seminar was attended by the faculty members with great enthusiasm and the presentation was followed by a healthy discussion on the research work highlighting its future scope and applicability in the avenue of Geotechnical and Transportation Engineering.

**MoU with CADD Centre**

The Department has signed a MoU with CADD Centre Dwarka on 25 July 2015 for conducting training and workshops. CADD centre is Asia's one of the largest training institutions that offer most comprehensive courses in CAD/CAM I CAEI GRAFX/ Project management/ interior. The aim of the MoU is to conduct various software trainings and workshops for AUTO-CAD, STAAD-Pro, Primavera etc. over a period of next one year. This is an initiative from the Department to provide the students a platform to learn and develop new skills and update themselves on new developments in the industry.

**Students pursuing higher studies**

The following students of the Department from the 2011-15 batch will be pursuing their post-graduation from reputed universities:

- Mr Shetang Kundu is pursuing Masters in Structural Engineering at University of Boulder Colorado
- Mr Deepanshu Yadav is pursuing Masters of Science at Concordia University, Canada
- Mr Mohit Daga is pursuing Masters in Environmental Engineering at IIT Guwahati
- Mr Lovish Bansal is pursuing Masters in Construction Management at NICMAR Indore

**Alumni Interactions**

- Under the initiative of Mr Ankit Pachouri, our alumnus Mr Abhik Jain (2008-12 batch), CEO, Shiva Constructions Ltd., Gurgaon interacted with 6th semester students on 4 March 2015, to guide them on future prospects in various fields of Civil Engineering. He had a discussion regarding job profiles in the private sector, options for post-graduation and challenges faced in running one’s own company. He motivated the students highlighting the importance of summer internships and final year BTech projects. [CEE2015W011]

- Two students of our first batch of BTech Civil Engineering (2007-11), Samir Singh and Rohit Sabharwal visited the Department on 6 May 2015 and shared their views about our curriculum’s usefulness in the field. After working for 4 years in the industry their inputs were very useful. They are now proceeding to pursue their MBA.

**News from the Schools**

- Under the initiative of Mr Lokesh Choudhary, Mr Akash Singh (2008-12 Batch), Site Engineer (Project Management Division) at Puri Construction Pvt. Ltd. interacted with 5th semester students on 21 August 2015. Mr Singh guided the students about their future prospects in various fields that they can choose after graduation. He had a
A team from Chaoyang University of Technology, Taiwan visited the laboratories of the Department on 25 March 2015 and discussed the prospects of collaboration with their University in the area of Civil Engineering.

**Visit of Professors from Chaoyang University of Technology, Taiwan**

Five projects prepared by final year students of Civil Engineering were displayed during the Technovation-The Project Day on 17 April 2015. The projects were based on the use of waste material in brick making, use of waste material in asphalt roads, urban planning and management for Gurgaon, ground water and air quality monitoring in land fill sites in Delhi and strength studies on self-compacting concrete.

**Project Display at Technovation**

The Departmental Industry Interaction Cell has been formulated to facilitate interactions between the Department and the industry. This will provide improvement in the engineering curriculum, exposure of industrial work culture to engineering students and subsequent placement of graduating engineers in industries across the country. With the advent of globalization and opening up of Indian economy to the outside world, competition among industries has become stiff. Similarly, there is an urgent need to prepare engineering students for jobs in multinational companies and increase their employability by exposing them to latest technologies and engineering methodologies. These objectives can only be achieved by bridging the gap between industry and the academic institutes. The Industry Interaction Cell recognizes this need and addresses it through the regular associations and meeting with corporate entities. The Cell provides industry exposure to the students and enables them to pick up skills besides what is being imparted in the classrooms.

**Industrial Visits**

Students of 6th Semester (Civil Engineering) visited new canteen site at NCU under the guidance of Ms Prachi Sohoni and Ms Vaishali Sahu on 25 February 2015. Faculty explained the design concepts and bar bending schedule related to the ongoing construction.

**Students and Faculty at under-construction NCU canteen site**

An industrial visit to the Signature Bridge at Wazirabad Mandiwala, New Delhi connecting Yamuna’s east and west banks was organized on 11 March 2015 for the final year students. This bridge is only the second of its kind being unsymmetrical with a central glass facade, held together by cables. Students were exposed to briefs of the project in the form of a presentation and also actual construction of foundations. The project manager has agreed to facilitate our students in their summer internship. The visit was organized under the coordination of Ms Purnima Bajpai and Mr Ankit Pachouri.

**Students during visit to M/s Unitech Limited**

The Department organized an industrial visit to M/s Unitech Limited Project, Gurgaon in August 2015 for 60 students of 3rd semester, along with two faculty members, Ms Purnima Bajpai and Ms Garima Srivastav. This was the first visit to the site by the 3rd semester students where they got the real life experience of how work is done at a construction site. The project being executed at site was the construction of Signature towers. The Project Head at the site confirmed that some of our students will be taken for internship at this site.

**An industrial visit to the Signature Bridge at Wazirabad Mandiwala**

Under the coordination of Ms Megha Kalra and Mr Rohith P Poyil, an industrial visit was organised on 18 August 2015 for the third year BTech and first year MTech students to Ultratech RMC plant, Gurgaon. It is the second oldest RMC plant of Ultratech in India which caters to the need of builders in Gurgaon. The authorities at Ultratech has agreed to facilitate our students in their summer internship and also to visit the University for a guest lecture.
Office bearers of ASCE-student chapter of Department of Civil & Environmental Engineering and its faculty advisor Dr Amit Srivastava, M. ASCE, Treasurer, ASCE–India Section Northern region visited Delhi Technological University (DTU) on 5 March 2015 to welcome Dr Robert D Stevens, PE, F. ASCE, President, ASCE – International. Dr Stevens delivered the presidential speech to office bearers of ASCE-India section (northern region) and the local student chapters of ASCE including DTU, PEC (Punjab Engineering College), Zakir Hussain College, Delhi. He emphasized on the role of student chapters, developing good coordination between regions, sections and branches, building and promoting ASCE brand and working together more effectively with related organizations including other civil engineering organizations to reduce redundancy and costs and increase the strength and worth as well as the perceived value of the Civil Engineer. [CEE2015A001]

Visit to DTU by ASCE student chapter, NCU

Members of ASCE-Student chapter with Dr Robert D Stevens

Coordinated by Dr Anil Kumar Misra and Dr Amit Srivastava, a study visit to International Engineering & Technology Fair (IETF 2015) at Pragati Maidan, New Delhi was organized on 27 February 2015 for 4th semester students. During the visit to the fair organized by Confederation of Indian Industry (CII), students got exposed to technologies related to Solid Waste Management and Water Management Technologies, in alignment with the ‘Make in India’ campaign. [CEE2015V003]

Prof. S Krishnamoorthi attended a conference on ‘Higher Education Technology’ organized by EdTech Review in association with UNIPRO Education, on 28 February 2015 held at Gurgaon. Some of the issues discussed were on open educational resources, embracing mobile learning and revisioning infrastructure, learning spaces and environments in colleges. [CEE2015A002]

Prof. Krishnamoorthi also reviewed three chapters of a text book for Oxford University Press, New Delhi in June 2015. [CEE2015R001]

Prof. Subrata Ghoshal constructed a demonstration model of a horizontal steam engine. This model offers cut-out views of piston and D-slide valve cylinders so that the drive-details may be better understood by the viewer. Using a 6 volts DC motor, the model was made operational. A small video clip of functioning of this model can be accessed on YouTube at: https://www.youtube.com/watch?v=frF5mOMM7as. The model has been appreciated by experts and professionals around the world including Mr Mike Maloney from Australia, Mr Stroemdahl from Sweden, Mr Alan Keith from Canada and others.

Prof. Ghoshal also completed the construction of a demonstration model of Scissor-Platform truck, used for maintenance works. The major technical challenge for construction of this model was to overcome the initial inertia for lifting the platform vertically, using horizontal force. This problem was resolved using an inclined crank mechanism in the model. Functioning of this model may be observed through a short video clip uploaded on YouTube at https://www.youtube.com/watch?v=Od4WvwXllQM

Dr Amit Srivastava attended a workshop on ‘Economic and Financial Instruments for Restoration of River Ganga’ on 6 May 2015 at India International Centre, Delhi. The event was organized by Oval Observer.
Foundation and addressed two critical areas, i.e., Economic and Regulatory Conditions needed to make PPPs work, and Financial instruments that can accelerate asset creation. [CEE2015W012]

Dr Srivastava, as MTech Admission coordinator (2015-16), visited 12th Admission Fair 2015, New Delhi to promote MTech admissions in the University. The event brings over 100 India's prominent universities, colleges, educational institutions and student-parent community on one platform to allow face-to-face interaction with the institutions in a friendly and informal atmosphere. [CEE2015W013]

He, as the Treasurer, ASCE India section-Northern region along with Mr Satish Viz, President, ASCE India section-Northern region, visited the Department of Civil Engineering, IIT Delhi on 16 April 2015 to attend the inauguration of ASCE Student Chapter at IIT Delhi. [CEE2015W014]

Ms Vaishali Sahu’s project proposal on ‘Experimental and Numerical Study of Single Pile Capacity Adjacent to Existing Buried Pile System’ has been technically recommended by the DST for financial support for three years. The proposal was submitted to the DST under Women Scheme A. The total estimated cost is Rs. 24.27 Lakhs. Mentor for this project is Dr Amit Srivastava.

Ms Purnima Bajpai attended National Conference on Power Transmission and Distribution on 8 July 2015 at PHD Chamber of Commerce and Industry, New Delhi. The conference focussed on the issues pertaining to the power sector and specifically the transmission and distribution of power. The conference helped in interacting with eminent persons from the industry and also provided a platform for organizing future industrial visits, internships and placements. [CEE2015A003]
Department of Applied Sciences

Departmental Activities

National Science Day Celebration

To spread the message of importance of science and its application among the students, Department of Applied Sciences, organized the National Science Day celebrations on 28 February 2015. National Science Day is celebrated on this day every year to pay tribute to the Nobel Laureate Sir Chandrasekhar Venkata Raman for his discovery of the Raman Effect through his experiments on the scattering of light.

The celebration started with a talk by the Chief Guest Padmashri Prof. K L Chopra, Former Director IIT Kharagpur, on ‘Higher Education in the Knowledge Era’. The lecture emphasized the importance of scientific temper to provide new solutions for modern society through the application of technology, engineering, manufacturing, marketing, and management.

On this occasion, students of the University demonstrated their innovative ideas and research findings in the form of science projects and posters. Some of the main projects included use of solar energy in rural areas, hydel power plant, ocean energy as renewable sources of energy, energy conservation through wi-fi, electricity generation from speed breakers, portable air conditioner with minimal energy consumption. One of the students of Mechanical Engineering devised a low-cost bowling machine for the cricket enthusiasts.

FDP by APS and CLL

A Faculty Development Programme on ‘Outcome Based Teaching and Learning’ was organized by Department of Applied Sciences (APS) and Centre for Languages Learning (CLL) from 8-12 June 2015 which was attended by 27 faculty members of APS and CLL. The aim of this workshop was to motivate and inspire the faculty members through interaction with the speakers which were highly enlightening. The programme commenced with a welcome note by Dr Divyabha Vashisth, followed by talks of renowned speakers such as Prof. CV Baxi, Padmashree Prof. KL Chopra, Prof. Paritosh Tyagi, Ms Praneet Kaur, Prof. Prem Vrat, Prof. Kehar Singh and Mr Manoj Gopaliya who shared their views on topics related to ethics, human values, research, teamwork, organizational excellence, evaluation etc. On the fourth day of FDP, two parallel sessions were conducted by Dr Sangeet Srivastava and Dr Gaurav Gupta for faculty of Applied Sciences, and by Dr Payal Khurana, Dr Divyabha, Ms Praneet Kaur and Ms Prerna Chauhan for faculty of Centre for Languages Learning. Prof. AK Yadav gave concluding remarks and a vote of thanks. The programme was successfully coordinated by Dr Sunanda Vashisth, Ms Pranati Purohit and Dr Divyabha.
BSc and MSc Orientation Programme

The Department organized an Orientation Programme for newly admitted students in BSc (Hons) Mathematics and MSc Mathematics on 4 August 2015. The event was graced by the presence of Director SOET, Prof. Ravindra Ojha; Registrar, Col Bikram Mohanty (Retd); Dy Dean (Academics), Mr Manoj Gopalia; Controller of Examinations, Wg Cdr Manohar Vasudev (Retd.); Chairman BSc (H) Mathematics and MSc (Mathematics) Admission Committee, Prof. AK Yadav and HoD Applied Sciences, Dr Rashmi Tyagi.

On this occasion, senior functionaries of the University addressed the newly admitted students. Prof. Ravindra Ojha, Director SOET congratulated the students for making a good choice of the programmes in Mathematics. Col Bikram Mohanty (Retd) encouraged the students to remain disciplined and apprised them of various aspects of the University. Mr Manoj Gopalia explained the credit-based evaluation system and related matters. Wg Cdr Manohar Vasudev (Retd) gave an overview of the examination system of the University.

Prof. AK Yadav assured the students about giving the best of academic instructions and assisting them in their quest for knowledge and developing key skills for success. Dr Rashmi Tyagi gave an overview about the Department.

Guest Lectures

- The Department organized a lecture by Distinguished Prof. Paritosh Tyagi on ‘Environmental Concerns for Engineers’ on 2nd March 2015 for BTech CSE 2nd semester students and faculty members. Prof. Tyagi (Former Chairman, Central Pollution Control Board) has been associated with NCU under AICTE-INAE Distinguished Professorship Scheme to promote technical education, research, industry-institute interaction, enrichment of curriculum content and other activities.

  During the lecture, Prof. Tyagi emphasized on the key role of engineers in the developmental activities right from planning to the operational phase. Various impacts and consequences follow the activities related to generation of power, manufacture of goods and handling and disposal of wastes. He explained that engineers must understand and own their responsibility in environmental matters since much of the environmental damage is caused by engineering activities.

  The Department organized a series of lectures by Prof. Paritosh C Tyagi covering topics like ‘Environmental and Social Issues in Development Activities’ on 31 March 2015, ‘Overview of Environmental Laws’ on 2 April 2015, ‘Processes and Practice in Environmental Management’ on 7 April 2015, and ‘An overview of Environmental Impact Assessment’ on 10 April 2015, for faculty members and BTech students (CSE 2nd and 6th semester, and EEE 6th semester). In his address, he emphasised on the key role of engineers, scientists and technologists for seeding the ideas of safe, eco-friendly and cleaner environmental options in their life styles. He introduced the audience with the various kinds of development activities and need for environmental awareness. He also explained the important topics related to laws, enactments on natural resources, notifications under the Environment (Protection) Act, specific authorities notified under Environment (Protection) Act, 1986, eco-sensitive areas notified with restrictions, guidelines, significant court orders, corporate liabilities for environment, etc. The importance and scope of Environmental Studies and water resources were also discussed. He also introduced the audience with danger signals, visible damage caused by ‘development’, environmental impacts that often go unnoticed, main activities needing environmental management, strategies for EMP, components of EMP, integrated environmental activities, environmental practices, environmental monitoring, etc. The lectures were coordinated by Dr Rashmi Tyagi.

Dr Vinit Sharma from Department of Materials Science and Engineering, University of Connecticut, USA, delivered a lecture on ‘Computational Materials Design: when intuition and experience weaved into computation’ on 20 May 2015 at the University. The talk provided an opportunity to understand how to design new generation of materials suitable for many technological applications. It also focused on why research community is gradually migrating towards systematic computation driven materials selection paradigms. The lecture was followed by discussion with Dr Sharma on various aspects of multi-scale materials modeling, designing high-throughput computational strategies for design of new materials and improving the existing materials for hi-tech applications. The interaction provided an opportunity for the faculty members and students in terms of future collaboration at the international level and learn more about the historic progress of materials science. The lecture was organized by Dr Kamlesh Sharma. [APS2015G007]

Mr JC Kapoor, Chairman of Delhi Branch, Institute of Defence Scientists & Technologists (IDST), and Former Director of Centre for Fire, Explosives and Environmental Safety (CFEES), DRDO, delivered an invited talk on ‘IDST sponsored projects for DRDO labs in collaboration with academic institutions’ to the faculty of the University on 13 August 2015. The talk was organized by Prof. Sushil Kumar Jain of Department of Applied Sciences. Mr Kapoor informed the audience about organization and functioning of IDST. He presented outlines of ten technology development projects that are futuristic and are needed for defence application. Mr Kapoor also gave details about projects such as high accuracy ordnance guiding system, flame control under electric field, transport containers for strategic articles, near zero power remote wireless sensors, convergence areas of nano-, bio-, info-, cogno-technologies, 3-D manufacturing, CO2 sequestration, waste energy harvesting, etc. He further mentioned about several problems which are being deliberated upon by IDST where NCU researchers can identify tangible deliverables and submit project proposals. Some of the faculty members who expressed interest in submitting project proposals in areas such as flexible solar cells, nano-composite materials for shock absorption, nano-material based super adsorbents etc have begun to submit summaries to Mr Kapoor. [APS2015G008]
Industrial Visits

An industrial visit to SK Enterprises, Faridabad was organized by the Department on 20 April 2015 for 1st semester students of Mechanical Engineering. SK Enterprises is a precision manufacturing company & supplies the automotive components to the companies like Imperial Auto, Honda etc. The students visited the different sections of the company like raw material procurement section, heat treatment section, machining section and the inspection section.

The visit was very much useful for the students as they were able to correlate the theoretical concepts that they have studied with the production process done in the company. The visit was coordinated by Dr Sunil Hans and Mr Anmol Bhatia of Dept of Mechanical Engineering.

Faculty Activities

Dr Tejpal Singh and Dr Dipti Vaya along with their project assistant Smritikana Banerjee visited Chemline India Ltd., Sonepat, Haryana on 10 August 2015 in connection with their ongoing DRDO project in the University. The company is working on mono and multi component polyurethane adhesives for various applications such as coating, flexible packaging, lamination, binding and shoe industry. The visit would be helpful for the DRDO project & development of polyurethane in the research laboratory at the University.[APS2015V004]

An educational trip was organized by Dr Rashmi Tyagi, Associate Professor, for 3rd year BTech CSE students to Krishi Vigyan Mela at Indian Agricultural Research Institute, New Delhi on 11 March 2015. During the trip, the students learned practical aspects of topics related to the course Environmental Studies through exhibitions of models, posters, etc. Some of the exhibits related to sustainable agricultural techniques were drip irrigation model, variety of biofertilizers for different crops, types of bio-pesticides, models for compost and vermicompost production, transgenic products, polyhouse model, etc. They also observed the models of water conservation methods, various renewable energy systems like, windmill, solar drying systems, etc.

Malaria is a mosquito-borne infectious disease that continues to perpetrate suffering and mortality on a large scale. As most of the antimalarial drugs develop resistance, this increased disease potential has led investigators to seek out new therapeutics. Dr Kamlesh Sharma was invited by the National Institute of Medical Sciences, Jaipur, to deliver a lecture on ‘A novel target for the development of new antimalarial drugs’ on 21 May 2015. [APS2015I001]

She also reviewed a research paper on Fluorescence Quenching Study for Journal of Molecular Liquids-Elsevier in June 2015, and received an appreciation note from Dr Toshio Yamaguchi, PhD, Editor-in-Chief.

Dr Phool Singh has conducted three sessions on ‘Octave and Scilab as Matlab Replacement’ as a resource person at a workshop ‘Open Source Alternatives for Engineering Studies’ held from 6-11 July 2015 at GD Goenka University, Gurgaon.

New Faculty on Board

Ms Satwanti Devi joined the Department as Assistant Professor.
School of Management

Departmental Activities

Faculty Development Programme

School of Management conducted a Faculty Development Programme on ‘Multi-criterion Decision Making’ from 8-12 June 2015. Faculty from different Departments participated in the FDP and learned from the insights of the eminent speakers. The aim of this workshop was to motivate and inspire the faculty members in teaching - learning process. The programme was initiated with the session on OLS estimators by Prof. DR Agarwal. The knowledge enhancing programme continued with the useful sessions taken by Prof. Murali Iyengar, Prof. Prem Vrat, Mr Lalit Upadhyay, Dr Charu Shri, Dr Ruchi Nayyar, Mr Pravin Rajpal and Mr Manoj Gopalia. The speakers conducted sessions on topics related to economics, optimization, AHP, system dynamics, innovation, analytics, and result moderation. The faculty coordinators of the FDP were Dr Anshu Agrawal, Dr Ruchi Nayyar and Dr Nirupma Gupta.

Workshops/ Seminars/Conferences Organized

- **School of Management** consistently commits itself to provide students with opportunities for their all-round development and for exhibiting their talents. On 13 April 2015, SOM organized a ‘Seminar on First Bi-Monthly Monetary Policy, 2015-16’ that invited student participation from across the University. Dr DR Agarwal, Dr Himanshu Choudhary, Dr Anshu Agrawal, Dr Sangita Choudhary, Ms Palak Mehta, and Dr Charu Shri were the panel members on the day. Students from BSc Economics, Khyati Chawla and Shreya Taneja were coordinators of the event. The seminar was knowledge enhancing; it helped the students in understanding the practical relevance of monetary policy and it constituents. The seminar met the objective of making students aware of the functioning of the economy and practical relevance of economic policies. [SOM2015S004]

- School of Management organized a workshop on Library e-Resources on 21 August 2015. Mr Kumar Shantanu from Proquest was invited as the chief resource person. Mr Shantanu acquainted the students and the faculty members about accessing the various e-resource databases like ABI/ INFORM and E-Brary sources. While ABI/INFORM database covers almost 3000+ journal articles, E-Brary database has collection of more than 120000 e-books related to various subject areas. The workshop was attended by more than 300 students and faculty members from all the three Schools of the University. Mr Mohd Hussain Kunroo and Ms Karishma served as the workshop coordinators. [SOM2015S006]

- One of the core values that drive the School of Management is building and enhancing the employability of its students. Delivering on this core value, SOM partnered with Zee Media Corp and organized a workshop titled ‘Hum Honge Kamyaab’ for its students, on 07 August 2015. The workshop was conducted by Mr Priyo Guha, Senior Manager, Human Resources, DSC Club and Mr Somit Madan, Senior Manager, Marketing, DSC Club. Mr Guha shared his valuable knowledge and thoughts with the students and made them aware of the various expectations that the corporate has from its prospective employees. The workshop oriented students with the corporate requirements and helped them identify improvement areas and learning points toward making them more industry ready. The workshop was attended by more than 150 students and faculty members. Ms Jiveta Chaudhary coordinated the event. [SOM2015S005]
Guest Lectures

An expert lecture on ‘Legal Aspects of FMCG Sector’ by Mr Rajesh Kumar Jha, Regional Legal Director-South East Asia, Reckitt Benckiser Ltd, was organized on 3 March 2015. As a practicing lawyer, Mr Jha has been a part of various disinvestment transactions initiated by the Govt. of India post-independence such as Hotel Corporation of India and ITDC and has also handled varied litigations- civil as well criminal, before High Courts and Supreme Court of India.

Mr Jha’s well-articulated lecture was wonderfully packed with lots of interesting real life examples, on various legal aspects of business namely new product development, risk mitigation, goodwill protection, company’s ethical code and compliance policy, internal control system, shareholder’s dispute, contract management etc. The lecture was

A guest lecture on ‘Economics of Real Estate in India’ by Prof. GB Singh was organized on 27 February 2015. Prof. Singh has been associated with a number of reputed institutes like Indian Statistical Institute, New Delhi, JNU and MDI, Gurgaon. The lecture was based on facts and figures and a comparative analysis was made on the basis of time-series data collected from Indian market and some other countries of the world. He made out his case very well and concluded that real estate sector and the stock market both should be examined carefully before making investments. Dr DR Agarwal and Dr Shaveta Sachdeva of SOM along with Ms Anjney Sangal (student of BSc-Eco Hons-4th Sem) coordinated the programme. [SOM2015G003]

The Marketing Faculty Club of School of Management conducted a lecture series titled ‘Marketing Essentials’ for BBA and MBA students. Interactive teaching tools such as case study method, teaching through videos and group engagement activities were used to discuss the basic concepts in Marketing. This activity was a step towards preparing students for upcoming internships and placements.

Guest lectures by Prof. Som Karamchetty were organized by School of Management on 6 April 2015. The topics of the lectures were ‘Idea Foundry and How to Develop a Business Plan’ and ‘Rx for Rural Excellence: Adapting Urban Development Models for Rural Development’. The event was coordinated by Ms Jaya Ahuja. [SOM2015G005]

As an initiative of the E-Cell of NCU, a session ‘Journey of an Entrepreneur: From B-School to B-World’ by Mr Annurag Batra was organized on 17 April 2015. Mr Batra is the Chairman and Editor-in-Chief of Businessworld. While...
narrating his journey from a very humble background to becoming a serial entrepreneur, he was able to get across to the students that if you have a dream and work hard towards it, then it is not at all impossible to achieve it. The young and ambitious crowd seemed immersed in Mr Batra’s narration. The energy levels of the aspiring entrepreneurs were visible through a series of questions posed to him. The presence of our Pro-Chancellor, Prof. Prem Vrat was very motivating who shared his insightful thoughts related to entrepreneurship. The session ended with a vote of thanks by Dr Sushmita B Waraich.

School of Management organized a guest lecture on ‘India’s Macro-Economic Revival’ by Prof. Rajat Kathuria on 28 April 2015. Prof. Kathuria opened his talk with the challenges faced by India when there was a dip in the growth rate and how India stood up to the problems. He also discussed some of the current challenges like urbanization, ‘Swachh Bharat’, make in India, smart cities, infrastructural development etc. The lecture was followed by a session on ‘Career Opportunities in Economics’ in which the students were briefed about the various opportunities available and also regarding internships.

Prof. Rajat Kathuria is working with International Management Institute (IMI), New Delhi (currently on sabbatical from IMI with ICRIER, Delhi, as Director). He is a Professor of Economics and was Consultant with the Telecom Regulatory Authority of India (TRAI) for eight years. The event was coordinated by Dr Sushmita Biswal Waraich along with Ms Chavvi Dudeja and Mr Jatin Chanda, students of BSc Eco. (Hons)[SOM2015G006].
Economics, who had interned at Voyants Solutions Private Limited (VSPL) went on a company visit to VSPL on 10 August 2015. They had a fruitful interaction with Mr Santosh Kumar Kulkarni, Head of E M S (Environmental Management Services) at VSPL which is expected to bring in more internship and placement opportunities at NCU.

Other Activities

- **School of Management** successfully conducted mock interviews for first year MBA students on 14 March 2015. The interviews were conducted by four parallel faculty panels followed by one-to-one session of each student with the HOD. This activity aimed at evaluation, providing feedback and guiding students as part of their preparation for forthcoming summer internship.

- ‘Parichay’, an event of the E-Cell of NCU was held on 2 March 2015. The proceedings kicked off with Prof. Prem Vrat giving an analogy that antar-prerna i.e. inspiration for being an entrepreneur, coming from inside, is the real driving spirit. Dr Sushmita B Waraich of SOM gave a brief overview of the objectives of the E-Cell i.e. kindling the entrepreneurial spirit amongst the students as well as providing the possible hand-holding to the potential/ budding entrepreneurs. She unveiled a plan of activities to be conducted by the E-Cell. Mr Ashwini Sharma, Dept of Mechanical Engineering made a presentation on some innovations which have helped the society. He emphasized the need for having more entrepreneurs, which is key for nation building. Brig. SK Sharma (Retd) urged the young minds to look at problems in the society and come up with ideas as to how to solve them and subsequently implement the idea. This was followed by inspirational presentations on entrepreneurs by the student core members and a quiz session at the end, related to entrepreneurship.

- Summer Internship Orientation Sessions for BBA, BCom, BSc Eco (H) and MBA were conducted by Dr Sushmita B Waraich and Dr Anshu Agrawal from 13-15 May 2015, in order to acclimatize the students with the entire process, before joining their respective internship organizations.

- School of Management received a hearty response to its admission process for undergraduate courses viz. BBA, BCom and BSc Eco (H). The personal interviews were held for admission to these courses from 16-18 June 2015.

- Prof. KM Mital, Honorary Distinguished Research Professor visited NCU for mentoring faculty members and guiding research scholars on 15 April 2015. Prof. Mital shared his research and industry experience with the mentees.

- A Pre-PhD seminar of Ms Alpana Agarwal, Research Scholar, School of Management, was held on 17 August 2015. The topic of of the seminar was ‘Bio-Inspired Models for Management of Organizational Systems’. Her SRC members are Dr DR Agarwal (Chairperson), Prof. Prem Vrat (Supervisor) and Dr AK Vij (Subject Expert).

- With pride, we wish to share that School of Management, NCU has been ranked in ‘A5’ Category by the Indian Management Best B School Survey 2015.

Mock interviews for MBA final year students

School of Management organized mock interviews for the MBA final year students as a part of the pre-placement preparation on 01 August 2015. The panel of judges comprised faculty members as well as alumni of SOM. At the end of the session, the alumni gave their feedback as to how to handle interviews effectively and shared their experience in the corporate sector. The ex-students were very excited about coming back to their alma mater and looked forward to more such interactions. The event was organized by Dr Sushmita Biswal Waraich and Ms Palak Mehta.
The Synergy Club has been set up with the aim to impart welfare, enhancement, empowerment and development of the students of School of Management. The Club offers to fulfill the objectives of enhancing leadership qualities among management students, fostering team work, personality development and creating opportunities. The Synergy Club endeavours to impart holistic development of our students by giving them a channel to showcase their skills and abilities. The faculty coordinators of the Club are Dr Ruchi Nayyar and Dr Anshu Agrawal.

Club Activities

- The Synergy Club of School of Management organized an intra-university management quiz competition, Biz Quizzard on 12 March 2015, which was open to all the students from across the University. The quiz competition tested the business skills of the students as well as their reasoning and logical abilities, and helped the students to sharpen their business know-how keeping them abreast with the business trends. The quiz was set in four rounds and participation was solicited in teams of two. A total of 15 teams participated in the event out of which 5 teams reached the final round. Navi Mahajan and Anjney of BSc Eco (Hons) emerged winners.

Faculty Activities

- Dr DR Agarwal, Professor Emeritus was invited by the Principal, Government Postgraduate College, Gurgaon, for delivering an extension lecture on the topic ‘Alternate Growth Models’ on 3 March 2015 to the students of MA (Economics), MCom and BCom (Hons). Dr Agarwal made his point for development of physical as well as human capital. Non-economic obstacles in the growth process could be taken care of through investment in social sector and quality outcomes. [SOM2015I001]

Dr Agarwal was also invited by GD Goenka University, Gurgaon for chairing two technical sessions in the International Conference on Management held from 19-20 February 2015. His comments about the research papers presented in the sessions were well received by participants. [SOM2015I002]

Dr DR Agarwal was felicitated by Honourable Chief Minister of Haryana on 11 April 2015 at a public function held at Govt (PG) College, Gurgaon, for his outstanding contribution to higher education in the field of literature. Dr Agarwal was specially appreciated for rendering his services as a dedicated teacher for 54 years without any break. [SOM2015I003]

Ms Jaya Ahuja, Assistant Professor, has completed online courses on ‘Five Archetypes of Organizational Culture’ and on ‘Positive Psychology’ from The University of North Carolina at Chapel Hill. She also attended a Conference on ‘Learner Centric Education in 21st Century’ organized by Edu Convex supported by Cardiff Metropolitan University, UK, on 18 April 2015 as a delegate. [SOM2015AC003]

Dr Waraich participated in the workshop on ‘Psychometric Testing and Applications’ held at FORE Campus, New Delhi on 7-8 May 2015. [SOM2015AW005]

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- Dr Sushmita Biswal Waraich was invited to be a part of the Conference Paper Review Committee and chair two tracks, on the themes ‘Managing Human Capital-II’ and ‘Strategy and Entrepreneurship’, at the Global Conference on Managing in Recovering Markets organized by MDI, Gurgaon from 11–13 March 2015. [SOM2015I003]

- Dr Waraich participated in the workshop on ‘Psychometric Testing and Applications’ held at FORE Campus, New Delhi on 7-8 May 2015. [SOM2015AW005]

- She also attended the May 2015 Special Event of National HRD Network, Delhi Chapter, on
‘Mergers & Acquisitions – The Human Element of Successful Integration’ on 28 May 2015 at M D I , G u r g a o n . [SOM2015AW006]

She participated in the Faculty Development Programme on ‘Leveraging Research Tools for Quality Research’ organized by University of Delhi, South Campus, from 15-21 June 2015. [SOM2015AW007]

She also participated in a Workshop on ‘Advances in Research Methods & Data Analytical Tools’ organized by All India Management Association, New Delhi, held from 9 – 11 June 2015. [SOM2015AW008]

Dr Waraich visited Accenture as part of the summer internship of MBA students on 23 July 2015.

An article titled ‘Revisiting Management Education’ by Dr Sushmita Biswal Waraich has been published in The Economic Times (ET Ascent), New Delhi, on 21 July 2015.

Dr Sushmita Waraich and Jaya Ahuja have cleared Certification of ‘White Belt in Variation Reduction’ organized by American Society for Quality on 11 A p r i l 2 0 1 5 . [SOM2015AW004]

An opinion article titled ‘Labour reforms must include both state and market voices’ authored by Dr Ritu Chhikara was published in ‘Business Today’ on 14 May 2015.

Dr Shilpa Sindhu, Assistant Professor, SOM, took Lifetime Membership of AIMA (All India Management Association) on 29 June 2015.

Ms Mansi Khurana, Asst professor got certification in ‘Data Science with R’ from Jigsaw Academy, Bangalore. It was a six months online course in analytics and statistical modeling techniques using R.

Online Courses attended by Faculty

Dr Shilpa Sindhu and Ms Jiveta Chaudhary Grover have successfully completed online offering of ‘Regression Analysis’ course from Ohio State University during 23 March – 4 May 2015 and e a r n e d S t a t e m e n t o f Accomplishment with distinction.

Dr Himanshu Choudhary, Dr Shilpa Sindhu, Dr Ruchi Nayyar, Ms Jiveta Chaudhary and Ms Sunaina Sangwan have successfully completed the online offering of ‘Questionnaire Design for Social Surveys’ course and earned a Statement of Accomplishment from the University of Michigan.

New Faculty on Board

Ms Mansi Khurana, Ms Tripti, Ms Karishma, Ms Parul Munjal and Md Hussain Kunroo joined the Department as Assistant Professors.

Dr Charu Shri earned Statement of Accomplishment with Distinction (97.8%)

Ms Jiveta Chaudhary Grover e a r n e d S t a t e m e n t o f Accomplishment (82.6%) in the said course.
School of Law

Departmental Activities

Prof. Pushpesh Pant joins as Professor and Dean SOL

Prof. Pushpesh Pant joined School of Law as Professor and Dean on 4 August 2015. Prof. Pant has a vast teaching experience of over four decades at Delhi University and Jawaharlal Nehru University. He has served on the Court of JNU as well as on the Executive and Academic Councils of various universities. He has supervised over 25 PhD and 75 MPhil scholars. Prof. Pant has published widely on travel and tourism, with over a dozen books to his credit and has contributed research articles in various reputed journals and columns in leading national newspapers.

National Conference on the Protection and Enforcement of the Rights of Women and Children

School of Law organized a National Conference on the ‘Protection and Enforcement of Rights of Women and Children’ on 24 April 2015 addressing the issue of rampant crime rate in the country challenging the protection of rights of women and children. Esteemed dignitaries who have devoted their careers towards working for the above cause, including Dr David Ambrose, Dean of the Department of Legal Studies of the University of Madras, Ms Saumya Gupta, IAS, Director (Women and Child Development), Dr Sanoj Rajan, the then Director School of Law, NCU and Prof. Prem Vrat, Pro-Chancellor, NCU inaugurated the conference.

“As women’s issue and child issues are not separable but are inextricably intertwined”, said Ms Saumya Gupta (IAS) quoting her experiences to explain the mentality of juveniles pushed into delinquency and how women and their families have an important role in it.

As the keynote speaker, Dr David Ambrose talked about various aspects that affect women and children in every society. The conference witnessed an expert session and three sessions of deliberations on the topic by students and legal experts. The expert session was graced by the presence of Mr Amod Kanth, General Secretary of Prayas Institute of Juvenile Justice, Former DGP and Chairperson, Delhi Commission for Protection of Child Rights, Mr Ian-Anand Forber Pratt, Board Member of International Foster Care organization, Ms Vaidehi Subramaniam, Chairperson of Child Welfare Committee, Delhi and Ms Rakshanda Niyazi, Senior Associate, Vaish Associates.

The conference provided an inspiring platform to the legal fraternity to analyze the various legal provisions, national and international, for the development and advancement of women and children.

International Conference on the Protection of Civilians during Armed Conflicts and Other Violent Situations

Civilians continue to be primary victims of violations around the world, committed by both state parties and other weapon bearers. Protecting civilians caught up in such situations is a critical challenge and this is mainly due to the fact that the distinction between civilians and combatants are deliberately blurred. School of Law organized a two day International Conference on ‘The Protection of Civilians during Armed Conflicts and Other Violent Situations’ on 26-27 February 2015. The inaugural session of the conference was presided over by the legends from the fields of International Humanitarian Law and Law of Human Rights with former Chief Justice of India and current Chairman of the
On 17 April 2015, students of School of Law participated in a workshop organized by Ennoble IP, Noida. The workshop was divided into two sessions. The first session began with an introduction from Ms Shweta Singh, founder of Ennoble IP who enlightened the students regarding its functioning. Mr Kumar Anshu, Senior Manager at CPA Global also shared his insights on Intellectual Property Rights. The second session was conducted by Mr Rahul Taneja, Scientist at Patent Information Centre, Department of Science & Technology, which was specific to the patent laws, patent searching and procedures to file application for grant of patents.

Workshop on Intellectual Property Rights

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Regional delegate to Armed and Security forces, International Council of Red Cross (ICRC), Ms Shamila Batohi, Director of National Human Rights Commission, Hon’ble Justice KG Balakrishnan as the Chief Guest and Dr Can Akdogan, the

Professor of International Law at Chinar Law Institute as the Chief Guest of the day, Mr SP Goyal, Retd. Additional District & Sessions Judge, shared his experience as being the Judicial Officer, with the students. Director of Chinar Law Institute, Mr NK Jain along with three other CLI team members, Mr Sanyam Khetarpal, Mr Nitesh Goyal and Mr Sparsh Jain, enlightened our students by elaborating the options that are available to the students after pursuing their law degrees and guided them on how to prepare for Judicial examinations.

World Intellectual Property Day

School of Law celebrated the World Intellectual Property Day on 26 April 2015. The theme for this year was Get Up, Stand Up For Music. The Vice-Chancellor, Prof. BS Panwar appreciated the efforts of the students towards this initiative and outlined the significance of Intellectual Property. In his welcome address, Prof. Sanoj Rajan, Head of the Department, enumerated the Intellectual Property scenario in the country. In his keynote address, Mr RK Nair specified the patent filing statistics and the awareness regarding Intellectual Property in India. It was also the opportunity to distribute the certificates to the students who have successfully completed the WIPO General Course on Intellectual Property.
Guest Lectures

- On 18 March 2015, Dr Anuradha Sai Baba, Legal Advisor, International Committee of the Red Cross, Regional Delegation, delivered a special lecture on ‘International Humanitarian Law’ at School of Law. Dr Anuradha Sai Baba has worked as a lecturer of Law at National Law School of India University, Bangalore for eight years and was also a Fellow at the Hague Academy of International Law and Asian Law Institute, National University of Singapore. She enlightened the students by reflecting on the intricacies of the International Humanitarian Law, its relationship with the present day International Human Rights Law and what makes it a different yet important branch of law. She discussed the significance of various terminologies such as law of war, armed conflicts etc. used in the international arena. She also referred to the recent humanitarian wars and their significance and inspired all students studying international law to work towards building international peace and harmony. [SOL2015G005]

- In the light of the importance of maintaining an appropriate standard of professional conduct, School of Law organized a special lecture on Professional Ethics delivered by Prof. Marian Pinheiro, the Principal Director of School of Law, Vivekananda Institute of Professional Studies (VIPS), Delhi on 11 March 2015. In his highly motivational deliberation, Prof. Pinheiro demonstrated the importance of ethics in everyday life through various innovative audio visual clips. He stressed on honing the basic skills in human beings such as character, competence, perception, time management and attitude. While concluding his lecture, Prof. Pinheiro highlighted the correlation between ethics and law, and encouraged the young aspirants of law to imbibe the basic values to achieve highest quality of professionalism. Prof. Sanoj Rajan, then HoD, School of Law expressed his sincere gratitude to Prof. Pinheiro for his visit and lecture. [SOL2015G004]

- On 9 April 2015, the students of School of Law had an exciting opportunity in knowing about the marketing strategies which may be adopted to ‘market’ their professional skills, through an enthralling lecture by Ms Abha Kashyap, CEO, Med Spa, an organization of medical professionals who have expertise in cosmetic and plastic surgeries. At the outset, Ms Kashyap raised a few questions and challenged the onset of ‘marketing’ in special reference related to the ideology that lawyers cannot market themselves. Being associated with the health sector for a considerable period of time, she drew analogies from health sector to serve the clients in the legal profession. With a colourful and lively presentation, she drew the attention of the students which was evident from their active participation.

Special Lecture on Cyber Law and Policy in India

Prof. Pushpesh Pant, Dean School of Law delivered a special lecture on ‘Cyber Law and Policy in India’ to 9th Sem students of BBA-LLB (Hons) on 17 August 2015. Prof. Pant elaborated the current scenario of cyber laws and its implementation in India. With increasing cases of cyber-crime, it is necessary to have stringent laws and policies. The lecture helped the students understand the different issues related to the subject.

Special Lecture on Criminal Law: Issues and Challenges

Prof. SC Raina, Professor, Faculty of Law, Delhi University delivered a special lecture on ‘Criminal Law: Issues and Challenges’ at NCU Law School on 25 August 2015. Prof. Raina highlighted contemporary issues like Cyber Crimes, Human Trafficking, Police Reforms, Criminal Trials and system of punishment in India during the lecture and suggested valuable changes in the present criminal law.
Special Lecture on Sustainable Development

Sustainable Development (SD) is a process for meeting human development goals while maintaining the ability of natural systems to continue to provide the natural resources and ecosystem services upon which the economy and society depend. While the modern concept of sustainable development is derived most strongly from the 1987 Brundtland Report, it is rooted in earlier ideas about sustainable forest management and 20th Century environmental concerns. To enlighten the students on this contemporary issue, Prof. Saligram Bhatt, Professor Emeritus of Law at NCU delivered the special lecture on ‘Change in sustainable development in India’ on 21 August 2015 at School of Law.

Visit to Juvenile (Observation) Home at New Delhi

With an alarming increase in heinous crimes committed by the juveniles in recent times, there have been series of debates on revisiting the laws relating to delinquent juveniles in India. The Supreme Court of India has also asked the Government to re-examine the laws. At the same time, it cannot be denied that the proposed change in law is against the basic rights of children. School of Law organized a visit to the Observation Home at Juvenile Justice Board-II, New Delhi on 13 April 2015. The team comprised final year students of BBA-LLB and LLM accompanied by Ms Archana Sarma. During the visit, the students interacted with the Superintendent, counselors and inmates to have a background of the Home, which was entrusted to Prayas Juvenile Aid Centre Society, the investigation procedure and various training programmes conducted for the inmates of different age groups for their rehabilitation. The students were also given an orientation about the functioning of the other special remand and after-care homes located in different parts of Delhi and the types of juveniles kept in such homes. The students had an exposure to the challenges involved in dealing with juveniles.

Training on Legal Aid at the University

School of Law organized a training session on ‘Legal Aid: A Right or a Privilege?’ for Law students of different batches on 14 August 2015. The training was conducted by Mr Nikhil Dhawan, Mr Anmol Bakshi and Mr Sarthak Khanna, from People for Legal Assistance (PLA), an NGO providing legal awareness and legal assistance to underprivileged people. The session was quite informative as it provided valuable information on the topic and made students aware of the complexities of legal aid.

Faculty Activities

Prof. Sanoj Rajan edited six modules of International Human Rights for E-PG Padashala Project of University Grants Commission to develop open access post-graduate level e-content for various subjects of Law. [SOL20150001]

Prof. Rajan delivered a lecture on ‘IHL-Contemporary Challenges’ on invitation for the students of Masters of Law at the Department of Legal Studies, University of Madras, Chennai on 26 March 2015.

He also attended the ‘Consultation Workshop on Need Assessment Tool
for Sri Lanka Refugees outside Camp Setting’ organized by Adventist Development and Relief Agency, India, on 27 March 2015 at Chennai.

Prof. Rajan delivered a lecture on ‘Arms Trade Treaty’ by invitation on 9 April 2015 at Indian Society of International Law (ISIL), New Delhi, for the students of Human Rights, International Humanitarian and Refugee Law conducted by the Indian Academy of International Law and Diplomacy. The course is conducted in the co-operation of ISIL, ICRC & UNHCR.

Mr Subhradipta Sarkar, Assistant Professor, completed blind peer review of a manuscript titled ‘Offend, Shock or Disturb: Free Speech under the Indian Constitution’. The work was entrusted by Oxford University Press. [SOL2015O002]

Ms Pallavi Bajpai, Assistant Professor, attended a training programme to enhance the skill on Companies Act, 2013, organized by Indian Institute of Corporate Affairs, established by and affiliated to Ministry of Corporate Affairs, Government of India, and Indian Society of International Law on 27 March 2015. [SOL2015A002]

International Recognition

Dr Sanoj Rajan was nominated as a Visiting faculty for International Law at the Foreign Services Institute (FSI) under Ministry of External Affairs, Govt. of India. FSI was established in 1986 to train Indian Foreign Services Diplomats and subsequently it was expanded to train diplomats from 64 countries across the globe. Dr Rajan has been an Affiliated Faculty at HHI Harvard University, UK and Coordinator and Visiting Faculty, International Christian University, Congo.

Dr Praveen Kumar, Officiating Head, School of Law chaired a technical session at the 8th International Conference on ‘Recent Advances in Civil Engineering, Architecture and Environmental Engineering for Sustainable Development’ (CEAESD- 2015) organized by Krishi Sanskriti on 11 July 2015, at Jawaharlal Nehru University, New Delhi. [SOL2015A004]

New Faculty on Board

Mr Arvind Pratap Bhanu joined the Department as Associate Professor.
THE NORTHCAP UNIVERSITY has experienced an excellent placement session for 2015 students and is still keeping the process on for covering a wider cross-section of industries for the benefit of the students. Out of total eligible students, 95%, 97% and 100% placements took place for BTech, MBA and Law, respectively.

The University is committed to provide its students opportunities to associate with the industry in multiple ways. School of Professional Attachment (SPA) has extensively worked on framing the pre-work for the 2016 placements for its students across the three Schools. As the University ensures that the blend of practical and theoretical knowledge of students is pivotal to outshine in a highly competitive world, SPA planned a series of Guest talks with many senior officials before the final placement process of final year students of 2016 Batch commenced.

- Prospecta Software Pvt. Ltd. conducted its maiden placement drive at the University on 13 March 2015 and has given offers to 8 students of BTech CSE&IT.
- Sage Solutions, a company known for their exclusive work done in Human Resource vertical, visited the University on 19 March 2015 for an on-campus placement drive for MBA (HR) students.
- Total Oil has given an opportunity for MBA students of the University and their placement process was conducted with an online test on 21 March 2015.
- Daikin, a global company in manufacturing air-conditioners, has made its first on-campus placement process at the University on 26 March 2015.
- A prestigious organization in software industry, Orkash Services Pvt. Ltd made a visit on 27 March 2015 for hiring students of BTech.
- On 18 April 2015, Honda Cars extended job opportunities for fresh engineering students for their Honda Plant -2 at Tapukara, Rajasthan. 15 students were shortlisted for final round of interview at the plant.
- 360-degree Cloud, a Faridabad based Information Technology firm has graced our University with their on-campus placement drive on 16 April 2015. The visiting officials appreciated the state-of-art infrastructure and quality of students. On request, the CEO of the firm visited our University for the on-campus placement drive which in turn resulted in selection of 4 students.
- India largest software exporter, Tata Constancy Services has been inevitably focusing on nurturing youth through engaging activities with their premium partner engineering education institutes. Ms Amrita Anshul, Senior Human Resource Associate of TCS visited the University on 21 April 2015 to address students of engineering. She observed that NCU has always been a proven ground for various initiatives of their esteemed organization and the previous NCU students have given their valuable contribution to the organization. While addressing the students of 2nd and 3rd year, she emphasized on the irreplaceable advantages to the students for being on the Campus Commune Programme.
- NIIT Technologies floated placement offer to one of our Computer Science students. The results for the Management students are awaited.
- Crowd HR, a reputed organization of Human Resource has offered placement to three students of MBA.
- Dantal Engineering Pvt. Ltd conducted its maiden campus drive at the University on 19 June 2015. Mr Manoj Dhar, founder member of Dantal visited the University for the on-campus placement drive and actively participated in group discussions and personnel interview process. Two students got the opportunity to work with the organization.

- KPMG has made placement offer to a student of BTech Computer Science Engineering.
- Eicher has offered placement to three Mechanical students in their organization at their Alwar Plant.
- Bharat Gears has made an offer letter to one of our Mechanical students.
- Gerson Lehrman Group India Pvt Ltd., a renowned consulting firm from US has done its maiden placement drive for our University.
and rolled out an offer to one of BBA-LLB final year students. Anjney Sangal from School of Management has also got an opportunity to pursue an internship with the organization.

- **Jamna Auto Industries Ltd.** conducted a placement drive for Mechanical Engineering final year students on 11 June 2015. Mr Ved, HR head has extended the requirement of JETs in their organization at two locations, Yamuna Nagar (Haryana) and Delhi corporate office in core divisions. During the drive, four students got the opportunity to work with Jamna Auto Industries Ltd.

- **Ernst & Young**, a premium consulting firm has extended offers to 3 students.

- **Royal Bank of Scotland (RBS)**, an esteemed recruiter for the University has rolled out offer to a CSE student with an annual package of Rs 8 Lakh.

- **Aspiring Minds** has floated an offer to a BTech CSE student with an annual package of Rs 15 Lakh.

- A prestigious organization Lucid InfoTech has picked up one ECE student with an annual package of Rs 3.6 Lakh on 21 July 2015.

- On 7 July 2015, 7 Mechanical Engineering students received the offer from Sona BLW for their Menesar plant.

- **Gemini Solutions** has added another IT student in their pool of freshers’ intake from our University.

- On 24 July 2015, Orange Services conducted an on-campus placement drive and took 4 students on board.

Sona Group has conducted an on-campus placement drive at the University for the 2015 passing out Mechanical Engineering students. Mr VK Yadav, Head HR Sona Group the students and was pleased with the communications and presentation skills of students.

Our recruitment partner Deloitte opened its placement drive at NCU for 2016 Batch of BTech students by conducting online aptitude test on 10 August 2015 followed by interviews on 26 August 2015 and selected 25 students. Senior delegates from Deloitte were impressed with the performance of our students during the interaction.

Continuing with the 2015 placements, a student of Civil Engineering 2015 Batch received an offer letter from Sobha Developers Ltd., an organization in the arena of real estates.

We invited senior officials of Tata Consultancy Services at our University on 13 August 2015, for conducting a session with the final year students. The session was divided in two parts, one was technical based on Cloud Computing and the other was the interactive session with North India Training Head, TCS.
Other Activities

In contemporary times, there is nothing important than the youth of the country and therefore the gradient efforts should be put in the development of youths. With these thoughts, SPA organized an enlightening session on the topic ‘Campus to Corporate’ conducted by Ms Anju Jain, Country HR Manager, Caterpillar India Ltd. on 8 April 2015.

The session was attended in large numbers by pre-final year students of Schools of Engineering and Management. The enthusiasm and interaction of the students with Ms. Jain indeed greatly impressed the speaker.

On 1 May 2015, the University organized a pre-placement session by Mahindra & Mahindra, Commercial Vehicle (Truck and Bus Division) for the final year students of Mechanical Engineering. Mr Devanshu Nagpal from Mahindra & Mahindra extended the requirement in their esteemed organization of Project Management Trainee for two locations, Agra and Noida region into commercial division. 79 students registered for the opening.

In view of planning for the 2016 campus placements, SPA organized a Faculty Placement Coordinators’ meeting on 16 July 2015. The objective of the meeting was to further understand the students’ outlook and suggestions from all departments for better campus placements.

Placement Policy for the 2016 placements has been updated with the experience gained during the placement season 2014 and 2015 along with the feedback received from the faculty coordinators and students. It has been made more student-friendly and uploaded on the Placement Portal for reference of the students.

As a part of the regular practice, Director SPA, Mr BK Gupta conducted Pre-Placement Interviews for 2016 Batch students from all the three Schools of the University, i.e., Engineering, Management and Law. The objective of this exercise is to give students the simulation effect of real interview scenarios.

Club Activities

Aarohan Club of SPA organized an event ‘Soch Vichar - Your thoughts, Your opinion’, a group discussion (GD) competition which was open to students across all the three schools of the University. As GD is an essential part of any placement process conducted by the visiting employer companies, this event was conducted to equip the students with the look and feel of placement process. The Pro-Chancellor, Prof. Prem Vrat graced the occasion as the Chief Guest. He stressed on the art of discussion, communication, body language and its implementation in our daily lives. Faculty from various schools and Editorial Cell participated as judges for the event. There was a great enthusiasm among the participants. Tanya Pahuja, Aastha Arora, Abhay Abraham and Aayush Pandey emerged winners in the final round.

Students from the Schools of Engineering and Management showed an overwhelming response for being a part of Aarohan Club. Aarohan club is an active wing of School of Professional Attachment of the University, working towards holistic development of students. The students play an essential role during on-campus placement drives and for other activities conducted by SPA.

Mr BK Gupta, Director SPA informed the students about the activities of the club and advantages of being its member. It was followed by personal interviews of students in which students from across different branches of Engineering and Management participated.
Some of our Recruiters
News from the Centre for Languages Learning (CLL)

Departmental Activities

- Mainstream Club organized the activity ‘My Savvy Politician’ as a part of Club Week on 19 February 2015 in which the participants acted as Members of Parliament and answered questions asked by public/media. The questions were based on current affairs related to different areas of governance. Based on credits given on the most convincing and well-communicated answers, Pranab Gambhir (13ECU100), Shivansh Ajmani (13ECU116) and Sagar Pahuja (13ECU110) were declared winners. [CLL2015O001]

- Club Success Mantra conducted an activity on public speaking, ‘Your Views Matter’ on 18 February 2015, in which three contemporary issues were given to students and they were made to express their views in allotted time of 5 minutes. A total of 23 participants registered for the event. [CLL2015O002]

New Faculty on Board

Ms Shivani Sharma joined the Department as CLL Councellor.

Club Success Mantra conducted an activity on public speaking, ‘Your Views Matter’ on 18 February 2015, in which three contemporary issues were given to students and they were made to express their views in allotted time of 5 minutes. A total of 23 participants registered for the event. [CLL2015O002]

Club Lingua Franca conducted an activity ‘Social Extempore’ on 19 February 2015. The event dealt with exposing participants to a spontaneous delivery of their views upon social problems pertaining to the nation. The students were judged on different parameters including body language, fluency and presentation. [CLL2015O003]
The University signed an MoU with the Information and Library Network, INFLIBNET, an autonomous organization of the University Grants Commission (UGC) on 18 February 2015. This association allows accessing and uploading PhD research theses worldwide through 'Shodganga' platform for students pursuing research work. It also helps the University scholars in networking with various academic libraries of higher education across India and will promote scholarly communication among academicians and researchers. It will also help the students in identifying latest research trends and specializations.

Information and Library Network (INFLIBNET) Centre is an autonomous Inter-University Centre of the University Grants Commission (UGC) of India. INFLIBNET is involved in modernizing university libraries in India and connecting them as well as information centres in the country through a nationwide high speed data network using the state-of-art technologies for the optimum utilization of information.

Mr Deepak Sharma, Assistant Librarian said, "The MoU between NCU, Gurgaon and INFLIBNET will help the University to improve the quality of research carried out during doctoral programmes. It will also help in avoiding duplication of research at national level."
Student Activities

- Akash Sheoran, BTech Mechanical Engineering has successfully qualified in GATE with All India Rank 65.

- Hitansh Thakur, 4th semester student of Civil Engineering participated in the Thapar Model United Nations organized at Thapar University Patiala, held from 14-15 February 2015. He was representing United States of America in the General Assembly. The agenda of the debate was ‘Measures to prevent terrorist organizations from acquiring conventional weapons and weapons of mass destruction’.

  He also participated in GD Goenka University Parliamentary Debate competition on 12-13 March 2015, in which he stood as the 1st Runner up.

  As a result of his hard work, MUN Circuit selected him for the post of Rapporteur in the Executive Board (Judges panel) of Indore MUN 2015, held at Sri Vaishnav Institute of Technology and Sciences from 24-26 July 2015.

- Student volunteers from the School of Law contributed significantly towards the dissemination of information on Breast Cancer during a cancer awareness programme on 17 March 2015, held at Gurgaon. The students distributed pamphlets and educated the audience on the subject in various MNCs in the vicinity of cyber city Gurgaon.

  As a part of broad initiative undertaken by DLF Foundation in collaboration with the World Health Trust (WHT), a Cancer Awareness cum Screening Programme was organized to commemorate International Women’s Day. The event witnessed large scale participation owing to the Foundation’s exemplary efforts in spreading the word on Breast Cancer Awareness. The event was attended by medical experts who elucidated upon the invasiveness of this affliction, especially in working women and adolescent girls.

- Mr Nitesh Jain, student of 2nd Year BBA-LLB (H) won Special Mention in Zenith Model United Nations held at Miranda House, Delhi University from 14-15 March 2015.

- Pranav Jain, BTech CSE 2nd year, has been awarded the first prize in Times App Search Contest organized by Times of India. He was awarded Certificate of Gold, the Winner’s Trophy and Apple Macbook Air for ‘Best Mobile App Idea’. The mobile app developed by Pranav, ‘PassKey’ provides a new way of managing passwords to the users. The user can access applications with different passwords with ease with the help of this app. This app can work flawlessly across any platform.

  Times App Search Contest is an annual nation-wide mobile app idea contest inviting original ideas on the ‘Next Big App’, open to entrepreneurs of all age groups. The final round of the contest was held at Le-Meriden Hotel, New Delhi on 26 March 2015. He was accompanied by Parichay Tayal, BTech CSE 2nd year as a member of the team.

- A three member team comprising Danish Kaur Mavi (1st year BBA-LLB (H)), Mandeep Kalra (4th year BBA-LLB (H)) and Swamini Chibber (2nd year BBA-LLB (H)) emerged Champions in the ‘Pitch Parliamentry Debate Competition’ organized by GD Goenka University as a part of their annual fest ‘Accelleron’ held from 12-13 March 2015. The competition witnessed participation from 20 institutions from various parts of the country. In the fiercely contested Asian style 3 on 3 Parliamentary Debate, School of Law bagged the first position receiving a cash prize of Rs. 5000, free access to LexisNexis database and set of Law books worth Rs. 6000.
Puranjay Bhatt and Shubham Yadav, students of 3rd year BBA-LLB (H), participated in the annual quiz competition ‘Quaestus, 2015’ held at Atma Ram Sanatan Dharma College, University of Delhi on 10 March 2015. Competing among 18 teams from across Delhi NCR, they stood at 2nd position in the finals, receiving a cash prize of Rs. 2500. The competition witnessed participation from various educational institutions such as IIT Delhi, Jamia Millia Islamia, Kamla Nehru College, Shaheed Sukhdev College of Business Studies, Sri Venkateshwara College.

The project of the humanoid robot named ‘Dexto:Eka’ developed by final year ECE students Himanshu Vaswani, Yash Gupta and Sumit Gupta secured the 2nd Runners-up position in Student’s Innovation Pavilion held at GRIDTECH 2015 (5th International Exhibition & Conference) at ITPO, Pragati Maidan, New Delhi from 8 – 10 April 2015. The students were rewarded with an appreciation and a cash prize of Rs. 25,000. The students have developed this project under the guidance of Mr Sidharth Bhatia, Asst Professor, Dept of EECE.

The robot is created with the aim of serving various purposes using its advanced teleoperation as well as night vision ability and provides live video feed to the remote operator. Some of the notable areas of its use are bomb detection and working in inhospitable environments such as nuclear disaster sites.

In addition to the project Dexto:Eka, two more innovative projects from the University were selected for the exhibition. The project titled ‘GPS based Collision Avoiding System’ prepared by Akshay Kapoor, Arjun Panu and Anshul Lakra of Dept of EECE under the guidance of Ms Naresh Kumari and the project titled ‘Intelligent Parking System with Damage Notification’ prepared by Shubham Ahuja and Sawan Chauhan of Dept of EECE under the guidance of Ms Amanpreet Kaur were exhibited and appreciated by the visitors.

Mr Lokesh Lochav, 4th semester student of Civil Engineering, won two rounds of the National Level Design Competition at the regional level. He is ranked among Top 10 participants and represented the University in the finals at Bangalore. The organizers of the competition, CAAD Centre, Dwarka, visited the University on 30 March 2015 to felicitate Lokesh.

Ten students of BSc (Eco Hons) have successfully completed the online offering of ‘Questionnaire Design for Social Surveys’ course and earned a statement of accomplishment from the University of Michigan:

Chhavi, Divya, Ishani, Jatin, Khyati, Manav, Navi, Naviti, Pranay and Shreya.

Three students of SOM have cleared Certification of ‘White Belt in Variation Reduction’ organized by American Society for Quality (I) on 11 April 2015:

Sumedha Bansal, Naresh Yadav and Puneet Khanduja

A live project Adopt a plant, Cool the fire, Share a smile were carried out by BTech IT (6th sem) students under the guidance of Dr Ritu Chhikara, as part of their Entrepreneurship course. This project was titled ‘Let’s learn Social Entrepreneurship’. Simple yet powerful social issues that we all come across everyday were taken up and executed in a highly professional manner. Students made comprehensive entrepreneurship business plans and carried out various online and offline awareness campaigns to popularize their concepts and received laudable results. The students also visited few NGOs in the area in this regard.

ECE student participates in International SPIE Meet at USA

Manica Kathuria, student of ECE 4th semester, got the sponsorship to participate in the SPIE (The International Society for Optics and Photonics) meeting at San Diego, CA, USA from 8-13 August 2015, under the SPIE NCU student chapter. She received a grant of $2500 and a full waiver of the student registration fee. It has been a good achievement for the University as its Student Chapter of SPIE was started recently in November 2014 and in the very first year, Manica was awarded the grant to participate in the event. She was also the youngest and the only undergraduate student to represent a Student Chapter.

SPIE NCU Student Chapter is now the second largest Chapter in India with 45 members, after Delhi University’s Chapter which has 60
members. Manica shares her feelings about the visit:

“It was a memorable experience not only in my educational or professional life, but also in my personal life”.

Manica Kathuria at SPIE Meet, USA

Alacrity at QUAD TORC 2015

A team of 24 students from the Department of Mechanical Engineering under the able guidance of faculty advisor, Mr Abhishek Pratap Singh, participated in 'QUAD TORC 2015'. The technical event was organized by Indian Society of New Era Engineers (ISNEE) at Faridabad from 31 July – 4 August 2015. Our team Alacrity was captained by Danish Kapoor. Teams were tested in 12 different technical and non-technical parameters. Team Alacrity performed well in different rounds including DisAsm, Business Presentation round, Design validation of vehicle, and secured 5th position in overall ranking out of 32 participating teams from across the country. [MED2015O002]

The Society of Automotive Engineers (SAE) Council has been formed in the University. SAE student team, A got registered for SUPRA SAEININDIA national competition. [MED2015O001]

Himanshu Sharma, a student of 7th Sem (CSE&IT) completed the 10 weeks internship in Android Technologies from AgBe Technologies, Gurgaon. During the internship, he worked on various concepts of a product development life cycle for a proprietary product, launched for smart phones and also underwent the agile software development lifecycle. He was awarded as ‘Star Performer’.

Educational-cum-Recreational Trip to Goa

An education-cum-recreational trip to Goa was organized for the students of the University from 27 March to 2 April 2015. A total of 171 students along with 7 faculty and staff coordinators participated in this excursion. The students visited the regular tourist attractions of Fort Aguada, Chruch of Bom Jesus, the beaches of Calangute and Candolim and engaged in a lot of water sports. They took time off from the sights of Goa for an industrial visit to the IFB manufacturing plant located in Goa. All in all, it was a fulfilling trip with adventure, learning and bonding time for the students.
Education cum Adventure Trip to Solang Valley

THE NORTHCAP UNIVERSITY Recreation Club organized a camping trip to Solang Valley, Himachal Pradesh from 6 -10 June 2015 for first year students. The main objective of the tour was to educate students on the concept of ‘Learn by doing’ and to gain new knowledge and skills.

The students enjoyed treks and adventure sports like rappelling, river crossing and appreciated the river rafting. They visited the Anjani Mahadev Temple, waterfalls, Dundi Bridge, and appreciated the natural flora and fauna. The students also interacted with the villagers and gained knowledge about their culture, living and beliefs. The tour helped them to enhance their university experience while connecting with the natural environment and fellow students and peers. The tour was coordinated by Ms Jyotsna Singh, Dept of CSE&IT.

The Last Truth: A short film by NCU students

The University witnessed the premiere of a short film titled ‘The Last Truth’ on 23 April 2015, directed by Kushagra Gupta (CSE 6th Sem) with Abhishek Shanker and Tanya Pahuja (our IT 6th Sem students) as the lead cast. Kapture Production’s first short film by our University students was successful holding the attention of the audience. The movie depicts a story of two young people and how their lives get affected by certain inevitable circumstances. The movie can be viewed online at https://www.youtube.com/watch?v=cgDMdwaatrI

Moot Court Updates

- A moot court team comprising Rupali Srivastava, Natasha Sahani and Navya Chopra (all 4th year BBA-LLB(H)) participated in 5th ILNU All India Moot Court Competition, 2015, organized by Institute of Law, Nirma University, Ahmedabad from 13-15 March 2015 where they emerged Runners-Up in the keenly contested Finals. 30 teams from various law schools across the country participated in the event.

- A team comprising Ishan Kumar Jha, Biswaksen Panda and Ujjwal Kansal (all 1st year BBA-LLB(H)) participated in Madan Mohan Malaviya National Moot Court Competition organized by Banaras Hindu University, Varanasi from 28 February–1 March 2015.

- A team comprising Apoorv Pandey, Harshit Dusad and Nikhil Jain (all 4th year BBA-LLB(H)) participated in the NLU Antitrust Law Moot Court Competition organized by National Law University, Jodhpur from 20–22 March 2015.
The University's Inter-Department Sports Tournaments for the session 2015-16 started with Chess, Carrom, Table Tennis and Volley Ball competitions held from 17-21 August 2015. Various teams from all the three Schools of the University participated with full zeal and showcased their sporting skills. The students showed sportsmanship while competing with each other.

The results were as follows:

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<th>Event</th>
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<td>Winners</td>
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<td>Carrom</td>
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<td>Table Tennis</td>
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The University has started a Fitness Programme for faculty and staff, which aims to improve the employees’ health by having recreational activities. The programme, started on 13 April 2015, has been designed on the belief that everyone desires to create a better self which creates a better world. The programme is conducted by Mr Pawan Singh Raghav, Mr Ashwini Sharma, Mr Gyan Chandra, Ms Sonal Gahlot and Ms Neha Goyal.
University records Historic Win for the Fourteenth time in the Garden Competition

The NorthCap University (formerly ITM University) bagged the 1st prize in the Educational Institution category during the HUDA flower festival held on 7 and 8 March 2015. Our band of gardeners headed by Mr Suresh deserves all praise for the grand and colourful look which they have given to the garden. They worked tirelessly day and night by taking care of the plants and protecting them from frost, cold and rainy weather. In addition to the plants laid on the ground, a variety of seasonal flowering plants have been prepared in pots and placed in a stepped form to make the garden colourful and resplendent.

It is a matter of great pride that our garden has stood first continuously for the last fourteen years.

‘Bechara Mara Gaya’

Abhimanch Theatre Society of the University produced a stage play ‘Bechara Mara Gaya’ adapted from the original play ‘Accidental Death of an Anarchist’ by Dario Fo on 28 March 2015. The play was transcribed in Hindi by Chanakya Bhardwaj, a member of the Mashaal Theatre Group and was directed by Nikhil Malhotra and Akash Tyagi, our alumni. The event was graced by the presence of Col (Retd.) Bikram Mohanty, Registrar and about 300 spectators. Open to the public, the performance received a thunderous applause from a very appreciative audience.

Shab-e-Rukhsat

A farewell ceremony for the students of Engineering, Management and Law of 2015 batch was organized on 24 April 2015. The adieu was full of excitement of entering into a new life in the professional world, but was mixed with the ache of departing from the alma mater. Prof BS Panwar, Vice-Chancellor opened the ceremony and addressed the students on the occasion which celebrated their academic accomplishments at the University. Prof. Panwar wished them all the best for their future endeavors. Prof. Ravindra Ojha, Director, School of
Engineering and Technology and Dr Charu Shri, Acting-Head, School of Management, applauded the students for the efforts they had put in these intervening years. Student representatives from different Departments and Schools also expressed their feelings for their Alma Mater and shared some of their fondest memories.

The event featured a wonderful performance by the Bhangra group and the melodious songs hummed by Raunaq and Saumya made the evening come alive. This was followed by title conferment to final year students. The coveted titles were Mr Law and Ms Law that were conferred to Akshay Mehta and Nripi Jolly; Milkha of the University to Davinder Virk from CSE; Mr Einstein to Shubham Ahuja from ECE; Stage King to Prashast Gupta from Civil; Mr Popular and Ms Popular to Vaibhav Java and Priya Rai from CSE&IT; and Mr and Ms University to Puneet from School of Management and Taniya Dhamija from CSE, Mr and Miss Fashionista to Kshitij Singh and Yukti Gupta from CSE&IT respectively.

**Movie Club at THE NORTHCAP UNIVERSITY**

A screening of the movie ‘Interstellar’ was held at the University on 9 April 2015. The screening was done as a precursor to the formation of a Movie Club at the University, which would screen movies of interest in scientific thought and ideas of social relevance. The idea behind screening ‘Interstellar’ was to start with a film related to science, as most of the students and faculties at our University are from science background.

The students found the movie very interesting as it had lot pf Physics-related elements that raised their curiosity. A lot of what is shown in the movie is taken from scientific theories, such as the ‘string theory’ or the ‘m-theory’ which talked about phenomenon such as wormholes, black holes, singularity, relativity and a universe having more than the 3 dimensions we perceive.

Mr Siddharth Bhatia from Dept of EECE is the coordinator for the Movie Club.

**FunCUMasti at the University**

After working hard at examinations and results the entire faculty, technical and administrative staff of the University relaxed and had fun in the auditorium on the afternoon of 6 June 2015. It was a great occasion to bond as the afternoon featured music, poetry and performance. The programme was compèred by Dr Latika Singh, HoD CSE&IT.

The elating highlights included beautiful renditions of songs by Ms Archana Sarma (SOL), Mr Sidharth Bhatia (EECE) and Ms Poonam Sharma (CSE & IT). Dr DR Agarwal (SOM) had everyone spellbound as he shared his interesting and inspiring experiences which were dotted with poetry and sufi couplets. Speaking at the occasion Brig. SK Sharma (Retd.) said, “This get-together is a great initiative to bring all faculty, technical and admin staff together. Such events will help us to rise above departmental boundaries and have a social interaction between all faculty and staff of the University.”

Continuing the idea of having fun-filled and informal get-togethers, Team FunCU of the University organized yet another entertaining programme on the afternoon of 1 August 2015. The faculty and staff of the University showcased their talents to entertain the audience. The afternoon was filled with dances, songs, plays, fashion shows and masti. The audience appreciated and enjoyed the performances greatly.

There were group and solo performances presented by different departments. To encourage the performers, the events were judged by the jury, based on their innovation, appeal and presentation. The team of Mechanical Engineering stood first, while the teams of APS, CLL and Civil Engineering were declared joint runners-up. The programme was anchored by the brilliant and engaging pair Ms Jiveta Choudhary and Mr Siddharth Bhatia.

It was truly a fun-filled show that everyone enjoyed. Team FunCU is committed to organize more such events in coming months.
International Yoga Day Celebrated

In celebration of International Yoga Day, THE NORTHCAP UNIVERSITY conducted yoga classes on 20 June 2015 for its faculty and staff. The Yoga Day is celebrated to create awareness amongst the students, faculties and staff on the benefit of yoga. The faculty and staff of the University participated in this event with great eagerness and learned from the teachings of a Guest Yoga teacher, Dr Seema Sud. Dr Sud explained the benefits of Yoga and demonstrated some useful yogasanas which can be practiced on a regular basis for a healthy body and mind.

Enactus NCU shows pottery skills

Enactus NCU received a grant of Rs 20,000 for their ‘Project Kumhaar’ under Walmart Women’s Economic Empowerment project partnership. The aim of the project is to employ the conventional potters as teachers of pottery in various schools of Delhi NCR, to revive the dying art by passing it to the next generation, and introduce new products to bridge the gap between the consumers and producers, hence empowering the Kumhaar community. Enactus NCU has conducted workshops in Delhi NCR for this noble cause. They participated in Enactus National Competition held on 21-22 July 2015 at Hotel Leela-Ambience, Gurgaon and presented the Project. The student leader for the project was Dhruv Aneja and faculty coordinator was Dr Dipti Vaya.

Enactus NCU had earlier organized a pottery workshop at ‘Raahgiri’ on 28 June 2015. The student project leader for the event was Ayush Gautam and faculty coordinators were Dr Dipti Vaya and Ms Sagarika Goswami.

University pays homage to Dr APJ Abdul Kalam

The University organized a condolence meeting on 28 July 2015 in memory of Dr APJ Abdul Kalam. The faculty, staff and students of the University paid homage to the former President with a thoughtful silence of two minutes in memory of Dr Kalam.

Dr APJ Abdul Kalam had visited the University on 10 March 2011 during the Annual Convocation of the University. During his visit, he mingled informally with the students and inspired them for success in their professional and personal life. He was delighted with his interaction and praised the enthusiasm of the students. It was a rare opportunity for the students and faculty to hear the legend in person. His positive attitude, hard work, modesty and sincerity left a mark on everyone’s hearts. His mission of igniting of minds has been impressive and inspirational for all.
Independence Day Celebrations

On 15 August 2015, the University celebrated the 69th Independence Day with enthusiasm and gaiety. The environment at the University was full of patriotic fervor. Earlier the faculty and staff of the University set the mood by assembling in vibrant theme dressing. They wore attires in different shades of tricolour. 14 August was also celebrated in the University as Hindi Day.

The Independence Day celebrations started with the flag hoisting by the Pro Vice-Chancellor, Brig SK Sharma (Retd). After unfurling the National Flag, Brig Sharma took the salute as the Security Staff of the University marched past the dais. After the march past, Brig Sharma addressed the gathering and greeted all faculty members, staff and students on the occasion. He reminded all present to take responsibility and perform their duties to the best of their ability ensuring that the University always lives up to its image and glory. The speech was followed by a cultural show comprising a brilliant dance performance by Ms Ruchi Khatri, student of BTech Computer Science and a patriotic song, ‘Sare Jahan Se Acha’, rendered by the students. The celebrations ended with refreshments for all.

Medical Camps at the University

- A Medical Camp in partnership with Rockland Hospital was organized in the University premises on 28 April 2015. The objective of the camp was to bring specialized medical care to our doorstep. A lot of interest was seen in the employees and students and some investigations were conducted free, like Random Blood Sugar, BP checkup, BMI, BMD and onsite Physician Consultation. Around 150 people benefited from the camp and took personalized reports covering additional medical tests like bone density, BP, blood sugar etc. The camp was coordinated by Dr Shilpy Wadhwa, Medical Consultant, THE NORTHCAP UNIVERSITY.

- In line with the University’s commitment towards a disease free society, ‘Nivaran’ – Preventive Health Check Camp, was held at the University, on 12 August 2015. ‘Nivaran’ was undertaken through a diagnostic campaign for Vitamin D3, Calcium, Hb, RBS and Lipid Profile to make people aware about their role in prevention of several diseases and maintaining a healthy lifestyle. The screening/diagnostic campaign was conducted in association with Mantracare, a major Diagnostic Centre and Samvedanaa which offered complementary sessions of US FDA Cleared Class IV Deep Tissue Laser Therapy to facilitate improved function and mobility. Around 75 people availed the specialized diagnostics and laser therapy at ‘Nivaran’, which was coordinated by Dr Shilpy Wadhwa and Dr Nancy Malik, Medical Consultants, NCU.
Research Papers Published/Presented

Journals

International


Books Published

International


Conference Presentations

International


Conference Proceedings

International


Department of CSE & IT
Research Papers Published/Presented

Journals

International


Conference Proceedings


Department of Mechanical Engineering
Research Papers Published/Presented

Journals
International


Conference Proceedings International


Department of Civil & Environmental Engineering

Research Papers Published/Presented

Journals

International


7. Ankit Pachouri (2015) 'Experimental Analysis of Wheel Load on Tunnels', Trends in


Conference Proceedings

International


National


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Department of Applied Sciences

Research Papers Published/Presented

Book Chapters

International


Research Papers Published

Journals

International


12. Tejpal Singh Chundawat,


Conference Presentations
International


National


Conference Proceedings
International


5. Divyabha (2015) 'English
2. National Conference Presentations

3. International Journals

Praveen Kumar
Srishty Banerjee
Archana Sarma
Palav Bajpai
Sanoj Rajan

Bar Council of India in Reforming Legal Education in India: Issues
SOL2015C002

Indian Law Institute, New Delhi, Trafficking in Human Being, National Seminar on Human Rights, Rajiv Gandhi National University of Law, Patiala, SOL2015C004.


School of Law
Research Papers
Published/Presented

Journals

International

National


Conference Presentations

National


Ambrina Khan (2015), 'Anti-Corruption Strategy in India: From Right to Information to Right to Public Services Law', National Seminar cum Workshop on Right to Service and Good Governance:


**National**


**Conference Presentations**

**National**


In the News

ITM University, Gurgaon, felicitates teachers on Teacher’s day

The Northcap University now The Northcap University

GURUGRAM: The University Grants Commission (UGC) has notified the name change of ITM University, Gurgaon to The Northcap University (NCU) on 26 August 2015. An Order dated notifying the name change was sent on 24 August 2015. The University is already included in the list of Private Universities under Section 2(f) of the UGC Act. The new name is strengthened by a logo depicting a bird, a moniker which symbolises freedom.

ITM University becomes edubuzz

Students drop a brick, put construction waste to t
How the best Engineering college in India went Eco-friendly

Rekha Mathur  
Sr Copy Editor  
Editorial Cell

How we use water, energy, dispose waste, promote efficient use of resources, can make an enormous difference to our development in a sustainable way. Educational institutions have a role to play both in sensitizing students in this regard and demonstrating the eco-friendly way. The future of the world lies in the hands of the youth and it is imperative for them to realize the importance of protecting the environment and of bringing science into their everyday life.

How can we help save our planet?

Colleges and universities are leaders of innovation in our society and have the potential to inculcate sustainable principles in the youth through their day-to-day deliberations.

THE NORTHCAP UNIVERSITY, one of the best Engineering colleges in India is committed to the green movement. Campus-wide initiatives at reducing, reusing and recycling are helping it achieve a green code of living:

• **Energy Conservation**: LED lighting, false ceilings to reduce heat load, as well as abundant natural light help make the building energy efficient.

• Use of renewable energy: Based on green audit, installation of 150 KW rooftop solar PV system with net metering facility - possibly the first and only university to install it.

• Water harvesting: Five rain water harvesting structures with pipes going to 300 feet below ground.

• Sewage management: Garbage handed over to MCG for proper disposal. No hazardous waste produced on campus. 100 KLD sewage treatment plant to ensure zero discharge to municipal sewer line with plans to use treated water for horticulture.

• Efforts for Carbon neutrality: Green footprint through 6 acres of green area out of 10 acre campus area.

• Plantations: Lush green gardens all around the campus. 14th consecutive year NCU a winner of HUDA garden competition in Gurgaon.

• E – waste management: Segregated and reused where relevant or recycled to external vendors for proper disposal.

• Paper recycling: Reduced usage of paper by using electronic medium of communication. Tie up with vendors ensures recycling of newsprint.

• Social service: Gifting necessities to the needy.

• Programmes, conferences impart skills in sensitizing and mobilizing community participation.

NCU’s mantra is ‘Live and let Live’ for a healthier tomorrow!

Small things make a big difference

Don’t forget the three R’s: Reduce, Reuse, Recycle!

• Reduce usage: Don’t waste – Save Electricity: Substitute with something that doesn’t use that much energy like a fan for an AC, false ceilings to reduce heat load, building designs that allow natural light.

• Fuel: Wherever possible cycle, travel by public transport, use renewable sources of energy.

• Water: Use as much as required. Repair drips and leaks.

• Reuse whatever you can.

• Water for gardening, Paper for rough work,

Give things you don’t want any more, to the needy,

• Use E-waste where relevant

• Recycle: Rain water harvesting is a great way to recharge the water table.

Composting and using organic manure instead of chemical fertilizers thereby reduces carbon footprint.

Grow more plants and trees: Tree planting helps tackle climate change - absorb carbon dioxide and are vital carbon sinks. The world’s forests store an estimated 300 billion tons of carbon, the equivalent of 40 times the world’s annual greenhouse gas emissions (source: Time, Nov,’09).

Post your comments or contact us at http://ncuindia.edu/
What is a QR Code?

QR codes are information containers. QR means ("quick response") code is two-dimensional barcode invented by Japanese company Denso wave in 1994. Initially its purpose was to track/scan vehicle parts at very high speed during the manufacturing process in industry. Now a days QR codes are very popular in as compared to bar codes used various fields of education and research because of large storage capacity. In QR code information is encoded in both the vertical and horizontal direction, holding upto several hundred times more data than a traditional bar code (Fig. 1). A typical barcodes have maximum 20 digits while a QR codes can hold upto 7089 characters. Main advantage of QR code is it is away from human interaction and automated systems. As the encoded information is intended to be machine readable only, a human cannot distinguish between a valid and a maliciously manipulated QR code.

QR-codes are part of daily life in several countries such as Japan, Korea, Taiwan, Hong Kong, and China. Moreover, depending on the type of data recognized and the nature of the application: a phone number can be automatically dialed, a short text message can be sent, a web page corresponding to the decoded URL can be displayed in a mobile browser, or a definite application can be executed. Thus, due to QR-codes now appear in magazines, advertisements, product information, T-shirts, passports, business cards, Aadhar cards, air-tickets etc. The use of QR codes is free of any license. Previously Denso wave owns the patent right on QR Codes, but has chosen not to exercise the patent right. That was the one of reason that QR is so popular. QR codes can be read or create by smartphones or tablets with free APPs.

QR codes used in Research

In today’s sensitive world, security is paramount interest; it is almost very difficult to secure the legal/valuable data. Data of the important documents like birth certificate, caste certificate, mark sheets, license, ATM card can be easily tempered/forged and used for greedy purpose. There are many tempered cases are happening day by day for example, tempering of marks or changing names in any document. Such fake mark sheet can be deposited to any University/company to get job/employment or in any institution to get admission. Such forged documents can cause huge financial loss to the system. In present time the data authenticity is check by humans and there are chances that it is not completely accurate. There is no method to detect such forged documents. The Digital and optical information image processing systems have been widely studied for the various security applications. The optical and digital security techniques have become an active research field over the last many years. Optical security systems based on optoelectronics can perform highly accurate encryption and decryption in almost real time. A highly successful technique for optical image encryption is the double random phase encoding (DRPE) first proposed by Refregier and Javidi. The DRPE is an optical symmetric-key technique that encrypts a given image by multiplying two RPMs, one in the spatial plane and other in the frequency plane. DRPE may be implemented digitally or optically and has potential applications in many areas such as security verification systems, watermarking, information hiding, and multiple-image encryption. Later, to make information more secure the DRPE was further extended form Fourier domain to the various canonical transform.

Encryption Scheme

A flowchart of encryption process of DRPE scheme involved steps, are illustrated in Fig. 3. In this scheme, the first input image to be encrypted is generated into QR code and QR is bonded with a random phase masks (RPM1) defined as \( \exp (2j\pi n(x,y)) \) are multiplied in the input plane. The random phase masks used above are statistically independent of each other. The resulting complex images are subjected to Fourier Transform (FT). Then, in the frequency domain, it is bonded with another random phase masks (RPM2) defined as \( \exp (2j\pi m(x,y)) \) and are multiplied in the input plane. The encrypted images then obtained by performing inverse Fourier Transform (FT-1) mathematically, the encryption process can be written as

\[
E(x,y) = FT^{-1} \{ FT \{ QR \text{ Code } \times RPM_1 \} \times RPM_2 \}
\]

Fig. 3 Flow chart for encryption scheme

Decryption Scheme

Decryption process is the reverse of encryption process with the following steps (Fig. 4): The conjugate encrypted
images are first subjected to Fourier transform (FT). The resulting complex images are multiplied by the RPM2. Then, an inverse Fourier Transform (FT-1) is performed. Mathematical expression for decryption is given by

\[ I(x, y) = FT^{-1} \left[ FT \{ E(x, y) Q R \text{ code} \} \times \text{conj}(RPM) \right] \]

where \( \text{conj} \) indicates conjugate of the encrypted images.

**Fig. 4 Flow chart for Decryption scheme**

**Results**

Some results (Fig. 5) on QR code using MATLAB 7.6.0(R2008a) software have been obtained. First QR code of binary image (Optical Image Processing) is generated from freely available APPs on mobile (QR manager). After that this QR code is used as input image in double random phase encoding (DRPE) as shown in the steps in encryption scheme. The encrypted QR code is obtained thus used for decryption process. An encrypted QR code is used as input and applies all the steps of decryption; a decrypted QR code is obtained. The encrypted information now can be sent together with encoding key RPM2. The encrypted information is more secure because it involves keys, without knowing the correct keys it is very difficult to get correct information. So, encrypted QR codes are more secure than normal QR code. The researchers believe this is highly secure method for data transfer.

**Applications of QR Codes**

There are many examples of QR codes in business and industry can be found:

(i) Blood test process management in Australia (ii) Tracing of livestock with ID numbers in Australia (iii) Jewelry certification system in China (iv) Bus commuters pass issuing system in Japan (v) Betting ticket management in Japan (vi) Passenger management for a casino cruiser in Japan (vii) Patient identification in Japan, Hong Kong and Singapore (viii) Application in agriculture in Taiwan (ix) Telecom company as basis of e-business in Taiwan (x) Payment slips management in Taiwan.

**Fig. 5 (a) Input binary image (b) QR code of image (c) Encrypted QR code (d) Decrypted QR code (e) Decrypted image with wrong key**

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**Educating Product Engineers**

Dr Usha Batra  
Associate Professor  
Department of CSE&IT

The IT industry has helped Indian intellect gain global recognition and a major contributor to this movement have been privately funded education institutions that have helped meet the huge demand for computer engineers. No wonder the IT majors flock to college campuses and recruit students in huge numbers.

Sadly, the IT industry has gone through many ups and downs and is vulnerable to the market conditions outside India. Not only this the presence of many competitors has led to saturation in the IT outsourcing business. In view of this situation NASSCOM, the association of software service companies, is keenly promoting the product segment. At the second NASSCOM Product Conclave held in Bangalore, the NASSCOM chairman, in his welcome address predicted that the coming decade is of the IT product industry. He said that their research clearly shows that the product industry will take over from the service sector and become both the larger revenue generator and employer of young engineers.

This trend is reflected by the recruitment patterns being followed at prestigious government colleges, where the IT consulting companies are no longer major recruiters and have been replaced by product companies such as Google, Yahoo and Microsoft. Such companies not only offer higher compensation but also offer greater job stability.
Clearly there is a push for higher quality product engineers. Sadly, our young graduates are not prepared for this giant leap, as per a study conducted by Aspiring Minds, only about 4% of young graduates are skilled enough to work in the product sector.

Such is the need of product starts that companies are by passing the engineering colleges altogether and hiring from schools. Chennai based “zoho.com” is one such company, they over the past few years have successfully trained school pass outs and such recruits now comprise a major share of their workforce.

So what should be done to improve the situation? Many institutes have modernized their curriculum but that is not good enough. It takes considerable time and effort to develop curriculum and by the time the new curriculum is enforced that technology is already outdated. So by the time the colleges caught up to C++, Java became the rage, when Java was added to the curriculum, web technologies picked up followed by AJAX and smart phone apps. There is simply no way that the institutions can keep up with the break neck pace of the IT industry.

This problem is not unique to India; universities all over the world too have to deal with this. While the American school system has failed to deliver students with necessary math and science skills, their universities have excelled at producing innovators and thus they have managed to stay at the technology forefront. American universities are counter to the idea of teaching a specific technology, they are focused upon teaching one and only one thing, self learning.

This ability is developed by stressing on the fundamentals of computer science using loads of hands on project work. Instead of just teaching about the theoretical aspects of an operating system, a US university actually calls upon a student to develop an OS. A web technology course involves 6 weeks long projects that call upon the students to develop applications with incremental complexity. The software engineering course makes student work as a team for a real client. The list goes on and on and on.

The core idea being, practical is an intrinsic part of theory, they are not separate courses. While in India, we have all the necessary lab courses, they are rarely integrated with the theoretical course. On top of that, pass rates in practical courses are way higher than theoretical courses. If students are made to work rigorously in the lab courses and carry out innovative projects as part of their curriculum, we will witness a sea of change.

As a first step, institutes should begin with making their lab courses more rigorous. The following actions should be taken to improve quality of lab work:

1. The list of experiments should be redrawn in consultation with industry experts with emphasis on real life problems.
2. Students should be made to use source control software, such as SVN. This will help them learn to industry best practices.
3. The code should be automatically evaluated using test cases, which should be written by another student another industry practice that must be incorporated.
4. Stress should be laid upon quality of code and adherence of coding best practices. Code reviews should be carried out by faculty members.
5. Most importantly plagiarism detection software such as MOSS should be used. This will help ensure that students do not copy code. (http://theory.stanford.edu/~aiken/moss/)
6. Last but not the least, we must validate that pass percentage of lab courses is similar to theory courses. Lab courses are equally important.
7. Implementation of steps 2-6 can even be carried out in the middle of the semester for a small set of lab courses; this will help prepare for a wider implementation across all courses in the next semester. Once satisfactory results are obtained the list of experiments can be redrawn.

This is just a small step to get the pedagogy going in the right direction. Moving forward the institute should integrate the theoretical and practical courses and ensure that students can connect the two aspects.

Young Minds in Contemporary Societies

Dr Supriya P Panda
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Department of CSE&IT

It is a general probity in young minds to know the various traits that can guide one to success. In a materialistic society, wealth and power have been the conventional index of success in life. However, research shows that two traits predict success in life: grit and self-control.

Along with the life success habits such as study skills, work habits, time management, there are also meta-cognitive strategies such as self-control, persistence, and the quality of relationships with peers and adults, which allow young minds to successfully manage new environments and meet new demands. Satisfying the need to be productive has important consequences for well-being and self-worth.

The accelerated pace of life enabled by technology and globalization are constant concerns among people in contemporary societies. Since today’s life styles offer more options, public is striving to “have it all” and aspire to achieve accomplishments in multiple domains. The only scarcity seemingly is ‘Time’!
The Indian youth is at the threshold of a new era with unprecedented headways & challenges. India, a country of diversity, is the fifth largest in terms of power generation, but also home to the world’s largest un-electrified population with around three hundred million having no access to electricity. Demand and supply have not kept up with pace.

There is great diversification in higher education, as well as an increased awareness of its vital importance for socio-cultural and economic development, and for building the future, for which the younger generations will need to be equipped with new skills, knowledge and ideals. Higher education is being challenged by new opportunities relating to technologies that are improving the ways in which knowledge can be produced, managed, disseminated, accessed and controlled.

Research says, an intrinsic pleasure from awareness and activities seems to motivate sensation seeking. Such paradoxical consumption is counter-productive and reflects intolerant, impulsive, and spontaneous tendencies in individuals.

We see on one hand the potential for greater individual initiative as key to solving the mounting global challenges over the next fifteen, twenty years. On the other hand, in a tectonic shift, individuals and small groups will have greater access to lethal and disruptive technologies, particularly cyber instruments, and bio-terror weaponry, enabling them to perpetrate large-scale violence.

This is a world of extremes. Within many countries, inequalities dominate: leading to increasing political and social tensions. Between countries, there are clear-cut winners and losers. Equitable access to these technologies should be ensured at all levels of education systems. On the threshold of a new shift it is the duty of higher education to ensure that the values and ideals of a culture of peace prevail and that the intellectual community be mobilized to that end.

Responsibility, focus, unshakeable grit and motivation can make best possible use of the time and resources available, and employ them to create great value for oneself and the world. Genuine effort is reason enough to dispel thoughts of fear for failure. True wealth to the nation is generated when the young minds are put to productive use.

**When Inconsistency is a Virtue of Great Minds**

“**A foolish consistency is the hobgoblin of little minds, adored by little statesmen and philosophers and divines. With consistency a great soul has simply nothing to do.**”

Imagine if judiciary was consistent in India, so many A.K. Gopals’ would have been languishing in jails, so many Vishakas’ would have been facing sexual harassment at workplace everyday, many Nirbhayas’ wouldn’t dare to come out of their houses and many Shah Bano’s would have been fighting for bare survival. There would have been no rights of transgender or recognition of euthanasia, the legal development would come to a standstill, only if judiciary aims at consistency.

The judicial craftsmanship which is known as judicial review has led to the legal transformation with its ever progressive judgments. The Supreme court of India has not just been a pioneer in declaring the law as it is but it has also set a stage for legal development by clearly stating what the law ought to be.

Today we can talk of rights as we hear sounds, right from giving a new dimension to right to life, new understanding to concept of equality, the judiciary by adopting a progressive and path breaking approach has set the tone for rights like right to sleep, right to marry or for that matter in a very recent judgment the court declared a right to have a different view.

The Supreme Court of India today finds itself in a dilemma because on the one hand, it has to maintain and uphold the certainty to the Rule of law in the country which it is Constitutionally bound to perform, under Article 141 of the Constitution of India it is the duty of the Supreme Court to authoritatively declare what the law is but on the other hand, it has to apply the law progressively with the ultimate aim of rendering justice in all cases, which has led to the expansion of the legislated laws and which leads to changed and inconsistent understanding of the laws; for instance initially it was only right to live, then it was molded to mean and include right to live with human dignity and now it means not just right to live but also includes healthy, peaceful, decent living thereby reflecting on the need to have an inconsistent approach to the understanding of various legal provisions.

In the case of Keshavanada Bharathi (1973) the Supreme Court stated foremost that a constitutional amendment even though it is validly legislated by the government can be considered invalid if it destroys the basic structure of the Indian Constitution. In many ways this can be considered as a colossal legal rise unfamiliar to many legal systems. The superiority and certainty of the constitution was established by this pronouncement, the upshot of which is that the basic features of the constitution will always be outside the purview of Parliament.

Article 21 of the Constitution of India provides that ‘no person shall be deprived of its life and liberty except according to the procedure established by law’ has
become the most vibrant article in the prerogative of the courts in India. A completely new set of rights which were not explicit in the constitution were inferred into Article 21.

The Supreme Court of India gave a dynamic understanding to Article 21 of the Constitution of India in the ever famous case of Maneka Gandhi v Union of India, which can be considered a path breaker for further advancement of concept of ‘reasonableness’ and ‘fairness’. The Supreme Court stated for the very first time that it is not only sufficient to ‘prescribe’ a ‘procedure’ for ‘denying life and liberty’; the procedure itself must be fair and reasonable. This gave birth to the idea of substantive due process, which is not explicitly enshrined in the Indian Constitution

Similarly in the case of Vishaka vs State of Rajasthan, the Supreme Court set the stage for a comprehensive sexual harassment legislation for redressing the sexual harassment of women at workplace, and stated the law as follows:

“In view of the above, and in the absence of enacted law to provide for the effective enforcement of the basic human right of gender equality and guarantee against sexual harassment and abuse, more particularly against sexual harassment at work places, guidelines and norms are hereby laid down for strict observance. This is done in exercise of the power available under Article 32 for enforcement of the fundamental rights and it is further emphasised that this would be treated as the law declared by the Supreme Court under Article 141 of the Constitution of India.”

Though it can be considered a clear case of judiciary usurping the power of the legislature, but ultimately it aims at justice and betterment of the rights of the people. As it was validly remarked by the Supreme Court in the above case, “when the legislature slumbers, judicial usurpation obtains legitimacy and approval from the general public”.

All said and done, had it not been the inconsistency of the judicial minds, justice would have been in deep slumber and legal vacuum taking its toll. It can be truly said that if consistency is a virtue of small minds then our Indian judiciary cannot be blamed of any mediocrity because through these and many more inconsistent and path breaking judgments the judiciary has proved that such inconsistency can only be a virtue of great minds who choose ‘the roads less travelled by and that has made all the difference’.

Companies Act 2013 and its Amendments 2015 – Heralding a New Corporate Dawn in India

“Let us strive to understand the changes that are taking place around us and implement the same with the conviction that we must be in tune with the times and be prepared to break the traditions. The world can unfold the possibilities only to the size of our dreams. So let us strive to make corporates in India practice good corporate governance under this new enactment in order to create better governance environment in Indian Corporate Sector”.

Society keeps on evolving with time, nothing is static then why should the law be so. The jurisprudence of the society has changed over the period of time. The old

Companies Act 1956, which was in existence for more than fifty years, has somewhere been ineffective at tackling some of these present day encounters of expanding industry and the interests of an alarming class of cultured stakeholders. The corporate environment has progressed immensely. Hence there was a need for a revolutionary legislation which would govern the companies in India. The aim of the law makers was to make corporate law regulating the companies in a more transparent, simple and globally accepted manner. The newly drafted Companies Act 2013 is Revolutionary piece of legislation which is likely to have far-reaching consequences on all companies in India. This legislation has been significantly influenced by the corporate developments which were taking place all over the world especially with those where stakeholder interests seemed to be compromised.

The New 2013 Companies Act focuses to substantially ‘raise the bar on governance’ and in a comprehensively rationales to deal with pertinent themes such as auditor accountability, director responsibility and fraud mitigation, inclusive agenda, investor protection, reporting framework and efficient restructuring. To support decoding of the critical nuances and effects of the Act, the article highlights the changes in brief – each targeted at a different stakeholder community, but aiming at a common objective – ‘Raising the Bar on Governance’. The level of modification and the complications associated with enforcing the changes introduced by the 2013 Act are likely to be noteworthy for companies, and the effects of these changes would have an impact on the actual functioning of the organisations.

Some of the important features which raise the bar on governance are Introduction of class action suits which are aimed to increase shareholders vigilance where by increasing shareholders democracy, with the help of these concepts they would be more informed about their rights. Shareholders would now have a say on major aspects of the company and their approval would be a mandate. The act aims to reduce managerial say on their own remunerations.
Articles

The new Companies Act 2013 and its amendments 2015 are globalised interests. The new Companies Act 2013 and its amendments 2015 are inclusive of the best corporate practices worldwide. The legislation has a cutting edge; it is an anticipatory law in nature. This piece of legislation would herald a new dawn in the corporate regime where the interest of every stakeholder would be taken care of and the corporate entity should incorporate an accountability of auditor. The amendments establish a stringent vigilance for companies accepting deposits it says there would be stringent penalty for Directors of Companies that invite or accept or renew deposits contravening to the Companies Act, 2013. The Board Resolutions were public documents and could be downloaded by paying a fee. But to maintain the confidentiality of the company, the board resolutions now cannot be accessed publicly. Companies with losses cannot distribute dividends to its shareholders, for distribution of dividends the company should have positive reserves.

India is not a newly Independent country anymore, the need of an hour is that the corporate regime should incorporate globalised interests. The new Companies Act 2013 and its amendments 2015 are inclusive of the best corporate practices worldwide. The legislature has a cutting edge; it is an anticipatory law in nature. This piece of legislation would herald a new dawn in the corporate regime where the interest of every stakeholder would be taken care of and the corporate entity would flourish contributing immensely to the growth of the Indian economy.

Cartoon, Classroom and Critical Thinking

It was an unusual hot afternoon. The August sun seemed tired and pale. The clouds floated lazily as I walked through the corridor for my class. I met some of my students by the stairs.

“Ma’am, we are having classes since morning. Please let us not do a writing task today,” one of them said whining like a child.

“We will do something different today,” I said, smiling reassuringly.

Subsequently, after having connected my laptop to the projector, I asked the class to settle down. A curious energy was palpable in the room.

“Today, we are going to practice speaking and writing through a cartoon!” I announced, introducing a slide containing a bespectacled man with a tuft of short hair. He was dressed in a dhoti and a checked coat. “Do you know who this man is?”

“RK Narayan,” a student said raising his hand.

The girl next to him rolled her eyes.

Shivani Sharma
Counsellor
Centre for Languages Learning
“RK Laxman. The cartoonist!” she said, shaking her head in disbelief.

“Is this bespectacled man RK Laxman?” I asked.

“No, this is the ‘common man’ that Laxman drew as a cartoonist,” another student said, breaking the silence in the room.

“Great! And, what is hanging from the stick over his shoulder? Who carries such a thing?” I further prodded.

“A small bundle. Nomads carry them,” a girl from the last row replied.

The students had faint smiles on their faces.

“Great! Nomads or travellers move from one place to another. There is a certain sense of detachment that they experience when they are in new environments. This detachment enables them to observe, muse and comment.”

This time their smiles got bigger.

“Well done, class! That was just a warm up exercise. Let me show you the cartoon that you have to analyze. The aim is to foster critical thinking and focus on your interpretive skills. So, think before you interpret and write.”

I showed them the slide containing the cartoon: a figure of a woman walked with a broom in her hands while, a handful of men were dumped in the garbage bin.

“Remember, the first step is,” I began to list. “Observe the shapes, colors, textures, the position of people, objects etc. The second step is to write about the cartoon or the picture without interpreting it. The third is to write about the questions that come to your mind regarding what you are seeing on the board.”

After 15 minutes, I asked the class to sit in a group of three to four students and share their questions with each other. The enthusiasm with which the students discussed their questions and searched for their answers made me happy. They came up with questions like: who is the lady in the cartoon? Who are the people in the garbage bin? Why is she holding a broom? Why is she walking away from them? What emotion does her face exhibits? What time does the cartoon capture?

Source of the cartoon: http://api.ning.com/files/f5QbJIEIZ4wKgmDK0WH9DymzRJFt8q1pySBBI25PThjHVXdt1O8W8Ta hQtrvTQ4DFXXMvnrpZp-0L6pwM7vkIBHbWHIht74.png

After another 15 minutes, I asked the students to wrap-up their discussions and tell me what the cartoonist was trying to say through the cartoon. They came up with various points such as “women empowerment”, “sweeping the elections”, “doing away with corruption” and so on. They said that the people in the garbage bin are the fellow politicians from her party or opposition. The posture of the lady fascinated as well repulsed students. Some found it as full of vanity while some found it as fatigue. This difference of opinion in interpreting her posture helped me introduce the word “subjective” to my students. They understood how works of art, literature are subjective in nature i.e. how their interpretation is influenced by personal feeling, taste or outlook. Lastly, I asked them to guess the time the cartoon captured in Indian history. I gave them four options: 1950s, 1960s, 1970s or 1980s. Interestingly most of the students said 1970s but there was a sizable number of students who said that the answer was 1980s. It surprised me and I thought that I would focus on communication and incorporate elements of history, geography, science, technology etc. in my communication classes.
Proud to be part of Dean's List

JUNE 2015 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 June 2015 UG students’ Dean’s List:
School of Engineering & Technology
- Dilpreet Singh
- Kriti Chaudhary
- Ankita Gupta
- Priyanka Rastogi
- Tanuja P Bhandari

School of Management
- Supriya Rajpal
- Sumedha Bansal

The June 2015 PG students’ Dean’s List:
School of Engineering & Technology
- Gaurav
- Priyanka Jain
- Shivani Garg

School of Management
- Rupesh Verma
- Sumit Jain

Dean’s List students had a date with the Vice-Chancellor on 9 October 2015 - a dream occasion for a student of THE NORTHCAP UNIVERSITY, to be in the company of an exclusive gathering and to be recognized amongst his or her peers. The inspirational meeting with the Pro-Chancellor and the Vice-Chancellor was followed by a group photograph.

VectorTech Mar - Aug 2015