

# Newsletter

Vol. 68 June 2017



## THE NORTHCAP UNIVERSITY

(For internal circulation only)

### NCU Activities

#### NCU celebrates World Environment Day

The Department of Civil & Environmental Engineering (CEE) organized the World Environment day on 5 June 2017 with full enthusiasm and vigour. On this auspicious occasion a pledge was taken by the faculty and staff of the University to reduce, reuse, recycle waste, protect all life forms and conserve the environment.



To celebrate the occasion a poster making competition was organized in which the faculty of Dept of CEE and CLL participated and came up with innovative ideas. The event was judged by the Pro Vice-Chancellor, Brig SK Sharma (Retd) and the Best Poster Award was won by the CLL Team.

The session also included the screening of a short film on the environment which highlighted our role in its protection, as engineers.

#### Blood Donation Day

To celebrate Blood Donation Day on 14 June 2017 The NorthCap University and Columbia Asia Hospital, Gurugram promoted blood donation to make Old Gurugram free from blood procurement/provisioning challenges during medical exigencies.



Registrar, Col. Bikram Mohanty (Retd); Director, SOET, Prof. Ravindra Ojha; Head, Dept of CEE, Dr Amit Srivastava; Medical Consultant, Dr Shilpy Wadhwa and GM Columbia Asia Hospital, Mr Ashish Chandra, graced the occasion. The event was marked by motivational talks to donate blood followed by a blood donation camp.

#### The NorthCap University Testing Centre participates in NCB Proficiency Testing

The NorthCap University Testing Centre (NCUTC) an entity of NCU established by the Dept of CEE provides professional services to outside customers in the area of mechanical testing of building and construction materials. NCUTC recently participated in Proficiency Testing (PT) offered by the National Council for Cement and Building Materials (NCB), Ballabgarh, Haryana.

A total of 20 labs, all over India, participated in the PT Scheme and the z-score of NCUTC (Lab Code 15) was well below the acceptable limit of 2.0, an indicator of excellent performance.



## National Academic Depository holds awareness programme

### Students can now directly access their Degrees & Mark Sheets

The Ministry of Human Resource Development (MHRD) and University Grants Commission (UGC) have set up a National Academic Depository (NAD) which facilitates academic institutions to digitally secure and quickly upload student's academic awards on the authorized Depository portal which is then transferred into the digital locker assigned to a student upon registration with NAD and accessible by him 24x7 using his UID Aadhaar number or a NAD ID. The student can also print his academic awards or authorize any employer/verification agency to verify his certificates. This would eliminate the need for a student to carry his certificates on person and by chance misplace them or the need to submit attested photocopies of his/her certificates for verification as all awards would be available on-line.

To create awareness about NAD and Digital Academic Certificates, UGC conducted a workshop for all Central, State, Private, Deemed Universities and standalone academic institutions located in Delhi, Punjab, Haryana, Himachal Pradesh, J&K and Rajasthan on 23 Jun 2017 which was attended by Wg Cdr Manohar Vasudev (Retd), Controller of Examinations. The meeting was chaired by Dr Nisar Ahmed Mir, Joint Secretary, UGC. Universities were advised to enter into a Service Level Agreement with one of the two approved Mumbai based Depository Companies viz. NSDL or CSDL and upload student's Academic Awards from academic session 2017-2018. The Depository Company representatives also dwelt on the process of uploading Academic Awards and the responsibility matrix between the institution and the Depository Company. MHRD has directed that the services of the Depository Company would be free of cost up to 30 Sep 2019 for academic institutions and up to the age of 27 for students. The workshop ended with an interactive session and the initiative was lauded by all.



## 'Enactus NCU' spreads awareness about Waste Segregation

To spread awareness about waste segregation among people of various age groups, 'Enactus NCU' in collaboration with NGO 'Sahaas' organized an event at the Ambience Mall, Gurugram on the occasion of 'World Environmental Day' on 5 June 2017. Waste segregation was explained to the people, 'Nukkad Natak' and games were organized on the theme of segregating various items as biodegradable, non-biodegradable and hazardous waste. People of all age groups actively participated in the event making it a grand success.



## NCU's Marketing and Admission Team

- A seminar on 'Need for a one year full time PGDM', its curriculum, importance of ecosystem & networking etc was conducted on 11 June 2017 at NCU. The speakers Dr Narasimhan, Dean, SOM; Mr Shankar Muralidharan, Director - Marketing & Communication; NCU alumnus Mr Ashish Sapra (Class of 2012), Strategy Consultant and alumnus of ISB Hyderabad; Mr Rajshekhar, Strategy Consultant, Mahindra Comviva (a BITS Pilani and IIM Ahmedabad alumnus) and Mr Bejoy Suri (alumnus of ISB Hyderabad) actively networked with the audience. Mr Kashish Jhamb, Dept of EECE, was also present in the audience and networked with them.

The audience included experienced professionals looking at retooling their corporate careers with some additional skill sets to help them move to the next level in the world of management, entrepreneurship & leadership.

Students from our founding batch of PGDM (Class of 2017) also spoke about how the programme transformed them to be more humble, vision oriented and how the pedagogy and faculty interactions will now help them face mid & senior level corporate challenges with confidence.



- On 4 June 2017 a Group Counselling session was organized at Hyderabad.



## News from the School of Engineering and Technology

### Department of EECE

#### Faculty Development Programme

A six day FDP was organized by the Department on 'New technology areas introduced in course curriculum' from 5-10 June 2017. The objective of the FDP programme was to make faculty aware of new technology areas for a better teaching-learning process. The new scheme designed for course curriculum includes the subjects from the new technology areas like Internet of Things (IoT), 5<sup>th</sup> Generation of Mobile Communication, Machine Learning, 3D Printing and Digital Marketing etc.



Emphasis was on hands-on sessions and interdisciplinary talks by industry professionals and senior in-house members on these topics. The FDP was a good learning experience for faculty members and scholars. It facilitated all to understand the importance of keeping themselves updated about new technologies and insights about various aspects of curriculum design and the teaching-learning processes.

#### Students Summer Training Programme

The Department organized a four day In-house Summer Training Programme for 1<sup>st</sup> Year BTech ECE students on 19 May 2017 and from 23 to 25 May 2017. Special hands-on training was on Basic Electronics and Measuring Instruments, Microprocessors, Microcontrollers, Arduino, Raspberry Pi and Python. The basic aim behind the programme was to make students aware of the current technology after which they were allotted projects based on the modules covered. The training was coordinated by Mr Pankaj Rakheja and Ms Amanpreet Kaur with the support of the whole Department of ECE and Mr Sandeep Singh and Ms Prerna Singal, Department of CSE who successfully covered these modules. Students benefited from the training as well as enjoyed all the sessions.

### Externship



Ms Kusum Grewal Dangi, Assistant Professor was on externship at Reliance Jio Infocomm Ltd (Jio), Gurugram from 3-5 May 2017. Jio is a provider of 4G mobile telephony, broadband services, and digital services in India. The objective of the externship was to have real time exposure to the latest advancements that have taken place in the communication industry to bridge the gap between the educational and the deployment world. Three students are on internship with Reliance Jio Infocomm, one in department of Microwave Communication and two in the Deployment department. The possibility of industrial visits, guest lectures and placements were also discussed.

### Alumni Speak

#### Journey from ITM to graduate studies and beyond



**Mr Pulkit Bhatnagar**  
*Apple California -  
BTech ECE (Class of 2012)*

It all started almost a decade ago in 2008 when I joined Institute of Technology & Management (ITM), Gurgaon for undergraduate study in Electronics & Communication Engineering.

I got an opportunity to work with STMicroelectronics and Synopsys after I graduated from ITM. I finally ended up joining the University of California at San Diego to pursue Master's degree in Computer Engineering.

I have recently joined Apple's Silicon Engineering Group and would like to take this opportunity to thank all the faculty and staff at ITMU (now The NorthCap University) for always being supportive and connecting with me even to this day. I would specially like to mention the efforts of Professor Neeraj Kumar Shukla and the VLSI group at ITM for motivating us and imparting skills needed to explore the field of hardware design.

### Department of CSE and IT

#### Faculty Development Programme

The Department organized a six day FDP on 'Internet of Things' conducted by one of the leading training institutes in India for IoT i.e. 'Collabera TACT' Vadodara, from 5-10 June 2017. Advanced concepts and design methodologies in designing IoT Systems were explained by Mr Anshu Pandey, Senior Technical Trainer, Collabera TACT. Starting from the very basics of IoT he elaborated the theme with practical training on Arduino, Raspberry Pi, interfacing of sensors, Running python on Raspberry Pi, Cloud Computing & IoT. All faculty members of the Dept of CSE&IT were trained and gave a good feedback about the same. The coordinator for the programme was Dr Kavita Khanna.



## Faculty Activities

- Ms Jyotika Pruthi, Ms Richa Chabbhra and Ms Mehak Khurana visited four companies namely Swiggy, Incuspaze, Kartar Group and Visteon on 22 June 2017 to get an insight into the latest industry trends and get feedback about NCU students working there as interns. NCU's MTech programmes and curriculum were also discussed with the industry experts. [CSE2017E001]



- Ms Garima Sharma participated in the FDP on 'Introduction to Web Development' at IIT Roorkee held from 13-22 June 2017. It was organised by the Electronics and ICT Academies under the scheme of 'Financial assistance for setting up of Electronics and ICT Academies' set up by the Ministry of Electronics and Information Technology (MeitY), GOI.
- Ms Jyotika Pruthi was recently interviewed by an international Australian magazine 'Ramona Magazine for Girls'. She got the opportunity to share her experiences as a professor at The NorthCap University and her TEDx talk at the University. She spoke about her varied interests, hobbies and achievements. Ms Jyotika advised girls, wanting to be engineers, to be innovative and "never hesitate to step out of their comfort zone to give a try to some new dimension". Read more at: <https://ramonamag.com/2017/06/amazing-babe-jyotika/>

## Department of Civil and Environmental Engineering

### Faculty Development Programme

The Department of CEE organized a six day Faculty Development Programme on skill enhancement from 5-10 June 2017. The FDP was a mixed bag of events like special lectures by industry experts, software trainings, industry visits, discussions on the strategic plan and department tracker, meditation sessions, sessions by eminent speakers from the Government sector, recreational activities etc. The FDP was inaugurated by the Head of the Department, Dr Amit Srivastava on 5 June 2017. He talked about its history, layout, its importance and how FDPs can be effectively planned and executed to get the best output. Pro VC and Professor, Dept of CEE, Brig SK Sharma (Retd) focused on the importance of an FDP and how it can help in skill enhancement and augment the learning process.

Guest speaker, Dr Chandan Ghosh, Professor National Institute of Disaster Management, New Delhi spoke on Disaster Safety Auditing of the built infrastructure and structural safety of buildings constructed in New Delhi and how they would perform in an earthquake situation. Using the department tracker Ms Megha Kalra led an in-depth discussion and review of the Department's progress, identified grey areas and areas for

further improvement. Dr Anil Kumar Mishra emphasized the importance of quality research, research publications, API scores and the new UGC guidelines for the calculation and up-gradation of API scores

In the brainstorming session on the strategic plan presented by Dr Amit Srivastava, the plan for the next semester and the parameters which were of concern for the Department like MTech admissions, quality intake of BTech students, placements with core companies, alumni engagement, collaborations etc were discussed. Software training on Staad Pro by Bentley provided web based training and allowed the faculty to work individually on small projects. The faculty also visited the DMRC metro construction site in Satya Niketan, New Delhi and saw the girder launching process, post tensioning activities, testing labs and facilities.

Dr Umesh Sharma, Scientist E, Dept of Science and Technology, New Delhi spoke on 'Research career opportunities in Science & Technology and the National Programme on R & D'. This was a combined session with the faculty from Applied Sciences and CLL. Dr Umesh discussed various provisions of schemes like FIST, CURE, PURSE etc and the benefits of each one of them.

Dr Sushmita Wariach, Head, SOM, spoke on 'Driving individuals towards creative excellence'; Dr Kanu Priya, Head, SOL on 'Gender Discrimination' and Mr Bilal Ahmed, SOL about Muslim laws. Prof. Ravindra Ojha, Director, SOET conducted a session on LEAN systems, its importance and application in different segments. This was a combined session for all SOET departments, on 8 June 2017.

Industrial visits to NHAI GAWAR upgradation project, Gurugram, IFFCO Chowk site to see the geo grids and geo nets used in construction; Rajiv Chowk site to see construction of overpass and underpass, lab and testing facilities etc. were organized by the Dept.

Ms Kritika, Programme Associate, Createnet Education, New Delhi conducted a session on 'Exploring effective ways of teaching and learning' with special focus on the turmoil in today's world and how to overcome them, on 9 June 2017. She is working for the development of leadership skills in Government school principals.

On 10 June 2017, Mr Deepak Sathyarathi, NCU Systems, and his team organized a joint training session for SOET faculty on Office 365. Alumnus Mr Arpit Gupta, owner of the BMG Group, conducted a session to inculcate a sense of ownership and accountability in managing businesses and the importance of innovation and risk taking in entrepreneurship.

The last session was led by Dr PS Rana, Former Chairman HUDCO, Chairman CIDC, Member, Academic Advisory Board, NCU on 'Land pooling and consolidation' on 10 June 2017. He discussed the concept of land pooling, land inventory, classification and usage. He also spoke about various transferable development rights and land acquisition problems associated with infrastructure projects. [CEE2017O014]



## EUROCK 2017

Mr Akx Malik presented a paper titled 'Experiments to determine static and dynamic behavior of Deccan trap rocks, India' at EUROCK 2017 international conference. The European symposium of ISRM was held in Ostrava, Czech republic which is a famous industrial and mining heritage city. The symposium had a gathering of more than 250 scientists, engineers, researchers from universities, science labs and industries.

Mr Akx Malik presented a unique indirect experimental method to understand the splitting behaviour of rocks during blast like conditions. The results would be helpful in designing large structures like dams and high rise buildings which are prone to blasting and terrorist attacks. He had conducted these experiments with support from IIT-Delhi rock mechanics department and DRDO laboratory. Rock mechanics field is evolving in India due to the rapid development of metros and underground facilities in many cities, and there is great scope for development of experimental techniques to determine rock mass behaviour under different field conditions. During the symposium a visit was organized to one of its kind Bukov PVP underground research facility at Rozna mine, situated at 600 m below the earth's surface and to the Weiliczka Salt mine, one of the oldest salt mines, consisting of 298 Km long tunnels.



## Department of Mechanical Engineering Faculty Development Programme

To bridge the gap between the industry and academia and to enhance the learning process at the Department, a Faculty Development Programme was organized from 5-10 June 2017.

Prof.R Singh, Academy Professor, Dept. of Mechanical & Aero Engineering, The Ohio State University, Columbus, USA and Honorary Faculty Emeritus, NCU conducted a session on research, funding and publications on 5 June 2017. He discussed topics like origin and formulation of research problems, funding for research activities, scholarly publications, research credentials, publication ethics and individual vs collaborative work. Prof. Singh discussed about innovation paradigms with mechanism to generate a highly skilled workforce for the future. He also shared upcoming R&D topics for vehicle trends and needs.



*Prof. R. Singh, Ohio University conducting FDP*

Prof. Prem Vrat, Pro-Chancellor spoke about the importance of 'Materials Management' and stated that almost 80% cost of the final product lies in the material and its management and even a 10% savings in material cost and management can result in twice the salary of the man power. As an outcome of the session, a proposal was made to include 'materials management' as a part of the curriculum.



Dr Feras-Al-Hakkak, spoke on the topic 'Applications of bamboo in engineering'. An interesting lecture was delivered on the contemporary topic 'The future of power train/ trend for electrification' by Mr Vinod Hans, Managing Director, Federal Mougul. Dr Rohit Lather, discussed the topic 'Positive Thinking' and the mind set required to be successful in life through examples of successful people.

A session on the topic 'Fundamentals on noise' was delivered by Prof. SP Nigam, Emeritus Professor, NCU. He explained the implications of the increasing environmental noise pollution and the useful applications of noise in the study of heart beats, dental extraction and gave an overview of how noise can be used for positive effects as well as the important frequency ranges for hearing and acoustics.



An industrial visit was organized to Polyplastics Engineering India Pvt Ltd, Bawal, Haryana on 9 June 2017. Live application and implementation of tools for Lean system like 5S, KAIZEN were shown which enhanced practical understanding of the term 'Lean system'. Avenues for doing a live project on a problem faced in the industry, industrial visits, guest lectures were also explored.



Mr Manoj Paweria, Senior Manager, Taikisha India Ltd, Gurugram delivered a lecture on the topic 'Application of CAD/CAM & CAE in industries'. He spoke about eliminating costly prototyping by evaluating the various robot movements and paint parameters in the digital environment, thus leading to an optimum result. The FDPs were coordinated by Dr. Pramod Bhatia, Mr Sanchit Mewar, Mr Praveen Singh. (MED2017FO001)

### Project Bamboo Bicycle ranked 3<sup>rd</sup> at Technovation

Two BTech students Mudit Gupta and Siddharth Jain took up the challenge of using bamboo to make a bicycle as their final year project and guided by Dr Feras Al-Hakkak and Mr Anuj Kumar Jain. The frame of the bicycle was made of bamboo with specially developed steel junctions. The bicycle was tested by riding on bumpy roads for several km in Sector 23. It is comfortable and light. The project was ranked 3<sup>rd</sup> among 20 projects exhibited at Technovation in May 17 and short listed as one of the four projects for the best BTech project of the year.



## Department of Applied Sciences

### Faculty Development Programme

A six day Faculty Development Programme was organized by the Dept of APS from 5-10 June 2017 with a focus on the state-of-the-art tools for learning processes and research. The overall goal of the FDP was the enrichment of the faculty and to learn SCILAB for the lab component of Mathematics-I introduced in the curriculum of BTech. Sessions on latest tools for research such as Mendeley and Science Direct were conducted by experts from eminent institutes.

The FDP started with a brief talk about its layout, activities and sessions planned, by Dr Ambika Devi, Head, Dept of APS followed by the 1<sup>st</sup> technical session on 'Introduction of SCILAB software tool' by Dr Sangeet Srivastava. He discussed the use of SCILAB, introduced the basics of SCILAB tool and through practicals and hands-on session helped faculty gain understanding of the software. Dr Gaurav Gupta took a hands-on session on SCILAB and showed the practicals that are being introduced in the forthcoming semester.



*Dr Harish Narang speaking on Language, Culture & Society*

Prof. Harish Narang delivered a lecture on 'Language, Culture and Society' and discussed the need to understand language, culture, society and hence, prioritize for them. Dr Umesh Sharma, Scientist E, Department of Science and Technology, New Delhi spoke about various funding schemes and Dr Subhra Dutta, Elsevier spoke about 'Awareness of SCOPUS and other tools for research management'. Dr Dutta

introduced three research tools in her lecture namely, Science Direct, Scopus and Mendeley. These platforms/ software were discussed with a live session using the tools.



*Dr Shubhra Dutta, Elsevier, discussing tools for research management*

Dr Ambika Devi conducted an interesting session on 'Central Research Facility'. This was followed by a brainstorming session on 'Effective pedagogy for Mathematics courses' by Prof. R K Sharma of IIT Delhi. A talk on 'Simulation for Physics, Chemistry and Mathematics' was delivered by Prof. R K Puri. He spoke on the Monte Carlo simulation required for physical processes through examples of simulation which can be used in almost all fields of science. Dr Phool Singh conducted a session on Latex and the Microsoft team on 'Office 365' and in the last FDP session Dr A K Yadav shared his experience of Classes of 90 minutes duration. [APS2017013]

## Centre for Languages Learning

### Faculty Development Programme

A Faculty Development Programme on 'Emerging Trends and Challenges in Teaching' was organised by the Centre for Languages Learning (CLL) from 5-10 June 2017. Eminent academicians delivered expert lectures, such as Prof Harish Narang on 'Language, Culture and Society', Ms Kritika Gupta and Ms Vinita Upreti on 'YOGA and effective teaching'.

Internal experts Prof Prem Vrat delivered a lecture on 'Training For PhD Guides', Brig SK Sharma (Retd) on 'Orientation session on effective teaching and curriculum design', Dr Anil Mishra on 'Research Publication and API Scores', Dr Sushmita Wariach on 'Driving individuals towards creative excellence', Dr Kanu Priya on 'Gender Discrimination' and Mr Bilal Ahmed on 'Muslim Laws'. There was Webinar on Preparing Learners for the 21st Century, 3 Key Interpersonal Skills You Need at Work Today.

The aim of the FDP was to motivate and inspire faculty members and enrich the learning process. The experts helped participants understand that the most important way to enhance learning is by strengthening and updating content knowledge and what we teach and how we teach are inextricably linked and dependent on each other. (20172017FO001)



## Centre for Leadership

### Guest Lectures

- ❑ Ms Anju Talwar, SVP, Quality at Sutherland, shared several inspiring anecdotes from her professional as well as personal life which endorsed the belief of the young graduates that success is all about a positive attitude and persistent efforts. Ms Talwar has spent a major part of her career in operations and process improvement and emphasized that quality of the highest order is essential and the art of execution is an important competitive advantage for any business.
- ❑ Mr Biplob Banerjee, Exec VP, HR & CSR, Jubilant Foodworks, raised an important topic 'When good enough is not enough'. He shared his learnings with the students which was an illusion break for them. He said:
  - Good enough doesn't cut it because it doesn't show my talents and passion.
  - Good enough doesn't satisfy me because I'm not at my best if I'm good enough.
  - Good enough isn't who I am on the inside.
- ❑ Ms Suman Keshari, Professor of HR at ITM Gwalior, Former Civil Servant was of the view that motivation is the key to success for any team. It is a vital ingredient for achieving productivity. Generally, people tend to overlook their team's motivation and they rather emphasise on focusing at the mainstream work. What they don't understand is the fact that motivation is the driving force as without motivation jobs would become mechanical, people would lose interest at work and performance overall would go down.

### Workshop

Ms Preeti Singh, Leadership and Communication Expert, formerly at McKinsey & Co, conducted a workshop for learning life altering tactics like the Pyramid structure thinking in 'People Leadership' and how to translate a Pyramid into a vertical document/presentation. The emphasis of the workshop was extensively on clean and structured communication.

Gita to the corporates, where it is extensively used and the educational institutions. She discussed a case study with the participants. Dr Narasimhan conducted a personality assessment test and discussed the role of traits and mentor's responsibilities. He discussed scientific ways of writing a case study and discussed the importance of clarity, accuracy, relevance, logic, fairness, completeness and depth as essential elements of a good case. The FDP was coordinated by Dr Saumya Dixit. [SOM2017FO001]



### Faculty Achievement

- ❑ Ms Jiveta Chaudhary was awarded a Gold Medal, cash prize of Rs 3,000/- and the 'Best Student of The Year – 2016' award for topping and securing First Rank all India in the Diploma in Training & Development, Indian Society for Training and Development (ISTD), New Delhi. She received the awards at the convocation on 18 June 2017. [SOM2017O001]

### Faculty Activity

- ❑ The Pioneer published an article titled 'A Unique Start-up Culture in the Making' written by Dr Sushmita Biswal Waraich on 4 June 2017 and can be accessed at <http://www.dailypioneer.com/sunday-edition/agenda/Opinion/a-unique-start-up-culture-in-the-making.html>

## News from the School of Management

### Faculty Development Programme

Sessions on 'LaTeX' were delivered by Dr R Narasimhan, Dean, SOM and Dr Mansi Khurana which provided extensive training to faculty on usage of 'LaTeX'. Mr Satish Kaushik, an expert counselling psychologist, talked about profiling of students by teachers as a preliminary step towards effective learning amongst students. He also discussed the various techniques of appreciation for motivating students.

Prof. Prem Vrat, provided insights to PhD supervisors on 'Successful approaches for PhD research completion' where he discussed the problems faced by PhD researchers and coping strategies to enhance performance. He also highlighted the importance of following ethical practices for creating a nurturing research environment. The session was attended by faculties of SOM and CLL.

Dr Sushmita Waraich conducted a session on 'Mentoring Relationships'. She emphasized the relevance of mentoring and explained the difference between mentoring and coaching, counselling, training etc. She explained the concept of mentoring by taking instances from Bhagwad

## News from the School of Law

### Faculty Development Programme

To provide in depth understanding about pedagogy of research and teaching in the domain of Law, the Centre for Post-Graduate Legal Studies at SOL organized an FDP on 'Legal Research and Teaching Methodologies in Contemporary Era' from 5-10 June 2017. The aim of the FDP was to provide better understanding about various methods of



Prof. (Dr) Furqan Ahmad discussing 'Effective Pedagogical Tools in Legal Education'

research and to create awareness about the role of legal research in the development of law.

Prof. (Dr) Furqan Ahmad, Indian Law Institute, Delhi chaired the first session of the FDP and spoke on 'Effective Pedagogical Tools in Legal Education'.

Dr Kanu Priya, Head, SOL stressed upon the importance of Bloom's Taxonomy to better understand a students' level of understanding and syllabi to be framed accordingly.

Ms Prema Iyer delivered a guest lecture on 'Mentoring as a technique for effective teaching'. She spoke about various issues such as student and faculty counselling and how it can be effective in improving teaching and student receptiveness.

Prof. (Dr) M Afzal Wani chaired a session on 'Research Methodology' with special reference to Empirical Research. Dr Keerti Jain conducted a training session on 'Statistical Package for the Social Sciences' (SPSS) which can be used in Empirical Research [relating to socio-legal studies in the field of Law.



Dr Keerti Jain conducts a training session on 'Statistical Package for the Social Sciences'

Cyber Security Expert, Capt. AK Kataria delivered an expert talk on the topic 'Cyber Security and Recent Issues'. He discussed about issues relating to cyber security, current trends in the field of cyber security, possible cyber threats and their solutions. [SOL2017FO001]

### NCU Law Students shine in LLM CLAT (PG)

The BBA-LLB students put up an admirable performance in LLM CLAT 2017 conducted for admission to the National Law Universities across the country. Raghav Kumar (Class of 2016) achieved the Best All India Rank (AIR) of 23. He opted for NUJS, Kolkata. From the Class of 2017: Yogita



Raghav Kumar



Yogita Bangar



Urvashi Bhardwaj



Akansha Gupta



Surabhi Sharma



Prashant Tiwari

Bangar was the Best Performer (AIR 43)- admission in NLSIU, Bengaluru; Urvashi Bhardwaj admission in NLSIU, Bengaluru; Akansha Gupta admission in NALSAR, Hyderabad; Surabhi Sharma and Prashant Tiwari admission in GNLU, Gandhinagar.

### NCU Law Students break into top foreign universities

It is indeed a matter of pride to announce that two of our students have got admission in prestigious foreign universities to study LLM. Ms Sunethra S (Topper of Class of 2017) is joining LLM in Advanced Studies programme Public International Law at the University of Leiden, The Netherlands. Mr Suyash Srivastava (Class of 2017) has secured admission to the prestigious University of California at Berkeley (UCB) Boalt Hall.



Sunethra S.



Suyash Srivastava

### Formal Installation of The Rotaract Club NCU

The Rotaract Club NCU was formally inaugurated by the Rotary Club Governor at Hotel Queens Pearl, Gurugram on 3 June 2017. Dr N Subramanian, District Governor and Mr Dilip Grover, President, Rotary Club, Gurugram handed over the Certificate of Organization to student volunteers and Mr Subhradipta Sarkar, Assistant Professor. Rotaract is the youth wing of Rotary International which provides opportunity to the youth to develop their professional and leadership skills and address the needs and concerns of the society through continuous engagements through specific programmes.

The Rotaract Club NCU is expected to enhance the social outreach of law students, make an impact in the society, enhance knowledge and skills and help in the personal development of students. The Rotaract Club NCU has started with 30 volunteers mainly from SOL. The Club's President is Shreya Gupta, Secretary - Tashi Vaish and Mr Subhradipta Sarkar is the Faculty Advisor.

### Library

#### New Arrivals in the Library:

- SOET - 87 new titles (861 copies)
- SOM - 69 new titles (467 copies)
- SOL - 22 new titles (191 copies)

### News from the School of Professional Attachment (SPA)

- ❑ **Deloitte Touche Tohmatsu Ltd** commonly referred to as **Deloitte**, is a UK-incorporated multinational professional services firm. It conducted the campus selection process for our Mechanical Engineering students on 2 June 2017 where four students got the final offer.
- ❑ **Chicago Bridge & Iron Company NV (CB&I)** is a large conglomerate engineering, procurement and construction (EPC)

company. It visited NCU for an on-campus selection process of BTech students on 9 June 2017 where one student got the final job offer.



*Q&A session during the CB&I Campus selection process*

- ❑ Everest, one of India's fastest growing building solutions companies and the most trusted and dominant name in the construction industry, conducted a campus selection process of BTech students on 19 June 2017. Results are awaited.
- ❑ Fidelity International, formerly Fidelity Worldwide Investment, a company that provides investment management services, successfully completed three weeks of campus training programme for the 12 students (Class of 2017) selected on 9 June 2017.



*Students clearing their doubts during the Fidelity training*

## Alumni Speak



**Pallavi Sharma**  
Delloite, Analyst  
B Tech ECE,  
(Class of 2014)

"I am a 2014 batch BTech Graduate from ITM (now NCU). I was placed with Deloitte from college and have been working with them for close to three years now. Recently, I have also secured an admission to INSEAD's MBA programme with a scholarship. INSEAD's MBA is currently globally no#1 and I start in August at Singapore.

As an alumna of ITM (now NCU), I would like to contribute to my alma mater. I will be happy to engage with students for counselling sessions especially if they are looking to move into consulting or looking forward to studying further for MBA.

Again, I also want to thank you and our extremely talented faculty who have contributed to my success."

## Research Papers Published

### Research Papers Published

#### Books

##### International

- ❑ **Supriya Raheja\*** and **Vaishali Jain** (2017) 'Prediction of Diabetes using vague set theory', pp. 1-89, LAP LAMBERT Publishing House, UK, ISBN-978-3-330-07456-9, **CSE2017B002**.
- ❑ **Pooja Yadav\*** and **Anuradha** (2017) 'An Efficient Hierarchical Clustering Technique for Medical Diagnosis', pp. 1-63, LAP LAMBERT Publishing House, UK, ISBN-978-3-330-31914-1, **CSE2017B003**.

#### Book Chapters

##### International

- ❑ **Srishti Sharma\*** and **Yogita Gigras** (2017) 'A Survey: Threats and Vulnerabilities in Cloud' in Detecting and Mitigating Robotic Cyber Security Risks, Chapter 6, pp. 87-97, IGI Global, USA, ISBN-9781522521549, **CSE2017BC010**.
- ❑ **Sakshi Gupta\*** and **Yogita Gigras** (2017) 'A Survey: Vulnerabilities Present in PDF Files' in Detecting and Mitigating Robotic Cyber Security Risks, Chapter 1, pp. 1-Nov, IGI Global, USA, ISBN-9781522521549, **CSE2017BC011**.
- ❑ **Prem Vrat** (2017) 'Inventory Management' in The Routledge Companion to Production and Operations Management, Chapter 6, pp. 101-124, Routledge (Taylor and Francis Group, UK), ISBN- 978-1-138-91959-4, **SOM2017BC001**.
- ❑ **Mohd Hussain Kunroo\***, **Irfan A. Sofi**, **Mansi Khurana** and **Sandeep K. Mogha** (2017) 'Re-visiting the Impact of the Euro on Trade Flows: New Evidence Using Gravity Equation with Poisson Count-Data Technique' in Advances in Intelligent Systems and Computing, Chapter 26, pp. 229-239, Springer, ISBN- 978-981-10-3325-4, **SOM2017BC002**.

#### Journals

##### International

- ❑ **Anju Arya**, **Rashmi Tyagi\*** and **Durlubh Kumar Sharma** (2017) 'Application of nitrogen and phosphorus stress conditions for biomass and oil production by Chlorella vulgaris' Vegetos : An International Journal of Plant Research, Vol. 30, No. 3, DOI:10.4172/2229-4473.1000259, **APS2017J017**.
- ❑ **Chetna Tyagi\*** and **Ambika Sharma** (2016) 'Dielectric behavior of CdSe loaded Polyvinyl Alcohol (PVA) matrix' Advanced Science Letters, Vol. 22, No. 11, pp. 3821-3823, **APS2017J018**.
- ❑ **Preeti Yadav\*** and **Ambika Sharma** (2016) 'Linear and non linear refractometric study of Pb doped Se-Te-Bi Chalcogenide thin films.' Advanced Science Letters, Vol. 22, No. 11, pp. 3847-3849, **APS2017J019**.
- ❑ **Deepika\*** and **Hukum Singh** (2017) 'Structural and optical study of Nano structured Se80-xTe20Sbx(0≤x≤12) thin films' Nano-Structures and Nano-Objects, Vol. 10, No., pp. 192-197, **APS2017J020**.
- ❑ **Lokesh Choudhary\*** and **Anil Kumar Misra** (2017) 'Influence of design and thermal conductivity of building materials on indoor building temperature' International Journal of Advanced Technology in Engineering and Science, Vol. 5, No. 5, pp. 624-632, **CEE2017J008**.
- ❑ **Kumar Kisley** and **Lokesh Choudhary\*** (2017) 'Generation of electricity from ocean wave energy: A Novice technique' International Journal of Advanced Technology in Engineering and Science, Vol. 5, No. 5, pp. 422-428, **CEE2017J009**.
- ❑ **Megha Kalra\*** and **Gauhar Mehmood** (2017) 'Analysis of three types of quartzite as coarse aggregate material and their impact on compressive strength of concrete' Recent Trends in Civil Engineering and Technology, Vol. 7, No. 1, pp. 1-8, **CEE2017J010**.

- ❑ Madhu Kumari and **Vijendra Singh\*** (2017) 'Big Data Analytics in Healthcare: Opportunities, Challenges and Techniques' International Journal of Social Computing and Cyber-Physical Systems, Vol. 2, No. 1, pp. 1-24, **CSE2017J024**.
  - ❑ Alisha Rohilla\*, **Mehak Khurana** and Meena Kumari (2017) 'Homomorphic Cryptosystem' International Journal of Computer Network and Information Security, Vol. 9, No. 5, pp. 44-51, **CSE2017J025**.
  - ❑ Ritu Chaudhary\* and **Mehak Khurana** (2017) 'A Structural Approach for Pdf Documents Classification' International Journal of Advance Engineering and Research Development, Vol. 4, No. 4, pp. 851-858, **CSE2017J026**.
  - ❑ Kiran Gill\* and **Supriya Raheja** (2017) 'Designing of optimised rescue robot using fuzzy inference system' International Journal of Fuzzy Computation and Modelling, Vol. 2, No. 2, pp. 149-166, **CSE2017J027**.
  - ❑ Shaifali Madan Arora\*, **Kavita Khanna** and Navin Rajpal (2017) 'A Novel Hybrid Approach for Fast Block Based Motion Estimation' International Journal of Interactive Multimedia and Artificial Intelligence, DOI:dx.doi.org/10.9781/ijimai.2017.03.011, **CSE2017J028**.
  - ❑ Sarishka\* and **Neeti Kashyap** (2017) 'Hardware and Software Security Challenges in Internet of Things: A Review' International Journal of Innovative Science, Engineering and Technology, Vol. 4, No. 5, pp. 5-10, **CSE2017J029**.
  - ❑ **Sumanlata Gautam\*** and **Latika Singh** (2016) 'Speech Impairments in Intellectual Disability: An Acoustic Study' International Journal of Advanced Computer Science and Applications, Vol. 7, No. 8, pp. 259-264, **CSE2017J030**.
  - ❑ **Prachi\*** (2017) 'Network Intrusion Detection using Machine Learning Techniques' International Journal of Data Mining And Emerging Technologies, Vol. 7, No. 1, pp. 23-32, **CSE2017J031**.
  - ❑ Manu Gupta\* and **Jyotsna Singh** (2017) 'A comparative study of cache optimization techniques and cache mapping techniques' International Journal of Engineering Research and Technology, Vol. 6, No. 5, pp. 903-905, **CSE2017J033**.
  - ❑ **Vijendra Singh\*** (2016) 'Big data characteristics, challenges, architectures, analytics and applications: a review' International Journal of Social Computing and Cyber-Physical Systems, Vol. 4, No. 1, pp. 1-31, **CSE2017J014**.
  - ❑ Ram Sharma, **Mona Aggarwal\*** and **Swaran Ahuja** (2017) 'Channel Capacity and BER Estimation of Indoor Optical Wireless Communication System Under Receiver Mobility' Journal of Optical Communications, DOI:doi.org/10.1515/joc-2016-0119, **ECE2017J005**.
  - ❑ Smriti Tikoo\* and **Nitin Malik** (2016) 'Detection, Segmentation and Recognition of Face and its Features Using Neural Network' Journal of Biosensors and Bioelectronics, Vol. 7, No. 2, pp. 1-5, **ECE2017J006**.
  - ❑ Niyati Chatwal\*, Palak Moga and **Saurabh Sachdeva** (2017) 'Intelligent Train Track Checker System', International Journal for Research in Applied Science and Engineering Technology, Vol. 5, No. 5, pp. 1350-1355, **ECE2017J007**.
  - ❑ Abhishek Jain\*, Hemant Hasija, Ashish Dwivedi, **Amanpreet Kaur** and **Pankaj Rakheja** (2017) 'Virtual Person Counter With Real-Time Automation', International Research Journal of Engineering and Technology, Vol. 4, No. 5, pp. 2679-2682, **ECE2017J008**.
  - ❑ **Charu Rana**, Neelofar Afzal and Dinesh Parasad\* (2017) 'A low Voltage Power High Performance FG MOS Based Current Mirror', Contemporary Engineering Sciences, Vol. 10, No. 1, pp. 263-271, **ECE2017J009**.
  - ❑ **Lalit Upadhayay\*** and **Prem Vrat** (2017) 'Policy Boomerang in Technical Education: A System Dynamics Perspective' Journal of Advances in Management Research, Vol. 14, No. 2, pp. 143-161, **SOM2017J007**.
  - ❑ Anantjyoti Badgaiyan\*, Anshul Verma and **Saumya Dixit** (2016) 'Impulsive buying tendency: Measuring important relationships with a new perspective and an indigenous scale' IIMB Management Review, Vol.28, No.28, pp.186-199, **SOM2017J008**.
  - ❑ Rajiv Kumar\*, Vijay Kumar and **Anmol Bhatia** (2017) 'Investigation of the Effect of Process Parameters on Cutting Speed in Wire Electric Discharge Machining of EN31 Tool Steel' International Journal of Advanced Technology in Engineering Science, Vol. 4, No. 8, pp. 336-343, **MED2017J016**.
- National**
- ❑ S Seelakumar Titus\*, Vikram, Girish and **Sushil Kumar Jain** (2017) 'Metrological Characterization of the Vickers Hardness Primary Standard Machine Established at CSIR-NPL' Journal of The Institution of Engineers (India): Series C, DOI :10.1007/s40032-017-0359-9, **APS2017J016**.
  - ❑ Shipra Malik\* and **Sandeep Singh** (2017) 'ALEABRA Framework for Sequence Alignment Problem using Emergent' Imperial Journal of Interdisciplinary Research, Vol. 3, No. 1, pp. 617-621, **CSE2017J032**.
  - ❑ Pooja Yadav\*, **Anuradha** and **Yogita Gigras** (2017) 'An Efficient Hierarchical Clustering Technique for Medical Diagnosis Using KNN Classifier' International Journal of Artificial Intelligent Systems and Machine Learning, Vol. 9, No. 4, pp. 62-69, **CSE2017J034**.
  - ❑ Bhawana Yadav\*, **Anuradha** and **Yogita Gigras** (2017) 'Mining Patterns for Clustering using Modified K-means and SVM (Support Vector Machine)' International Journal of Artificial Intelligent Systems and Machine Learning, Vol. 9, No. 5, pp. 87-92, **CSE2017J035**.
  - ❑ **Jaya Ahuja\*** and Nidhi Chaturvedi (2017) 'Job Crafting and Employee Engagement: A multivariate study' NMIMS-Management Review, Vol. 34, No. 1, pp. 106-120, **SOM2017J009**.
  - ❑ **Subhradipta Sarkar** (2016) 'Ensuring Accountability in Disaster Response: A Critical Issue of Responsible Governance' Elenchus Law Review, Vol. 2, No. 1, pp. 17-37, **SOL2017J002**.
- Conference Proceedings**
- International**
- ❑ **Phool Singh, Anil Kumar Yadav**, Kehar Singh and Indu Saini (2017) 'Optical image encryption in the fractional Hartley domain, using Arnold transform and singular value decomposition', AIP Conference Proceedings (International Conference on Recent Advances in Mathematical Sciences and its Applications (RAMSA-2016)), pp. 020017-1-7, **APS2017P005**.
  - ❑ **Purnima Bajpai\***, Ankit Brar, Apoorva Nara, and Nikhil Dudeja (2017) 'effect on strength properties of concrete by using wood ashes partial replacement of cement', Conference World, pp. 6-11, **CEE2017P002**.
  - ❑ Anshul Vats, **Mona Aggarwal\*** and **Swaran Ahuja** (2017) 'Outage Analysis of AF Relayed Hybrid VLC-RF Communication System for E-Health Applications', IEEE International Conference on Computing, Communication and Automation (ICCCA-2017), pp. 1432-1437, **ECE2017P005**.
  - ❑ Ram Sharma\*, **Charan Kumari, Mona Aggarwal** and **Swaran Ahuja** (2017) 'Performance Analysis of LED Based Indoor VLC System Under Receiver Mobility', IEEE International Conference on Computing, Communication and Automation (ICCCA-2017), pp. 966-971, **ECE2017P006**.
  - ❑ Himanshu Khanna, **Mona Aggarwal\*** and **Swaran Ahuja** (2016) 'Outage Analysis of a Variable-Gain Amplify and Forward Relayed Mixed RF-FSO System', INDICON 2016, pp. 1-6, **ECE2017P009**.
  - ❑ **Charu rana\***, Neelofar Afzal and Dinesh Parasad (2016) 'A High Performance Bulk Driven Quasi Floating Gate Mosfet Based Current Mirror', Procedia Computer Science, pp. 747-754, **ECE2017P010**.

- ❑ **Jyoti Sahni\*** and Deo Prakash Vidyarthi (2017) 'Systematic Study of Resource Provisioning and Scaling in Cloud Platforms', INDIACOM-2017, 11th INDIACOM, 4th International Conference on Computing for Sustainable Global Development, pp. 4386-4391, **CSE2017P012**.
- ❑ **Prem Vrat** (2017) 'India as a Global Destination for Higher Education: Opportunities and Challenges', Pan IIT Alumni India, pp. 16-24, **SOM2017P001**.

#### National

- ❑ Kamna Sharma, Anshul Vats and **Mona Aggarwal\*** (2017) 'Outage Analysis of variable-gain amplify and forward relayed hybrid FSO/VLC communication System', ICEIT Conference on Advances in Mobile Communications, Networking and Computing - MCNC 2017, pp. 123-127, **ECE2017P001**.
- ❑ Kamna Sharma, **Mona Aggarwal\*** and **Swaran Ahuja** (2017) 'A Brief survey on femtocells and interference management techniques', ICEIT Conference on 'Advances in Mobile Communications, Networking and Computing - MCNC 2017', pp. 61-66, **ECE2017P002**.
- ❑ Anshul Vats\*, **Mona Aggarwal** and **Swaran Ahuja** (2017) 'Outage Analysis of Mixed Radio Frequency-Visible Light Communication System', 5th National Conference on Advances in Metrology (AdMet-2017), **ECE2017P003**.
- ❑ Ram Sharma, **Charan Kumari**, **Mona Aggarwal\*** and **Swaran Ahuja** (2017) 'Performance Analysis of HypEA and PSO Based Optimization of LED Deployment in Indoor Visible Light Communication', 5th National Conference on Advances in Metrology (AdMet-2017), **ECE2017P004**.
- ❑ Shradha Singh Parihar and **Nitin Malik\*** (2017) 'Non-convex Environmental Economic Dispatch using Fuzzy based Real Coded Genetic Algorithm', 5th National Conference on Advances in Metrology (AdMet-2017), pp. 202-203, **ECE2017P007**.
- ❑ Himanshu Khanna, **Mona Aggarwal\*** and **Swaran Ahuja** (2017) 'On the performance of a Mixed RF-FSO Link with a Decode and Forward Relay', 5th National Conference on Advances in Metrology (AdMet-2017), **ECE2017P008**.

#### Conference Presentation

##### International

- ❑ Chetna Tyagi and **Ambika Sharma** (2016) 'Chemically prepared polymer nanocomposite impact on a.c. impedance measurement, optical nonlinear refractive index and luminescence property', Vllth Conference on Neutron Scattering, BARC and Neutron Scattering Society of India, **APS2017C04**.
- ❑ Preety Yadav and **Ambika Sharma** (2016) 'Linear and non linear refractive index of novel Se-Te-Bi/PVP composite films for optical limiting applications', Vllth Conference on Neutron Scattering, BARC and Neutron Scattering Society of India, **APS2017C05**.
- ❑ **Lokesh Choudhary** and **Anil Kumar Misra** (2017) 'Influence of design and thermal conductivity of building materials on indoor building temperature', 2nd International conference on emerging trends in engineering, technology, science and management, Conference world, **CEE2017C001**.
- ❑ Kumar Kisley and **Lokesh Choudhary\*** (2017) 'Generation of electricity from ocean wave energy: A Novice technology', 6th International Conference on Recent Development in Engineering Science, Humanities and Management, Conference world, **CEE2017C002**.
- ❑ **Purnima Bajpai\*** and K Chandarshekar Iyer (2017) 'Review of risks associated with renovation and modernisation of thermal power plants in India', 2nd World Conference on Technology, Innovation and Entrepreneurship, Istanbul University, **CEE2017C003**.
- ❑ **Purnima Bajpai\***, Ankit Brar, Apoorva Nara and Nikhil Dudeja (2017)

'effect on strength properties of concrete by using wood ashes partial replacement of cement', 2nd International Conference on Emerging Trends in Engineering, Technology, Science and Management, Conference world, **CEE2017C004**.

- ❑ **Jyoti Sahni\*** and Deo Prakash Vidyarthi (2017) 'Systematic Study of Resource Provisioning and Scaling in Cloud Platforms', INDIACOM-2017, 11th INDIACOM, 4th International Conference on Computing For Sustainable Global Development, Bharati Vidyapeeth's Institute of Computer Applications and Management, New Delhi, India, **CSE2017C001**.
- ❑ **Jyotsna Singh** (2017) 'A Survey steganography methods to enhance integrity, confidentiality and availability,' International Conference on Engineering and Technology Innovations, DPGITM Gurgaon, **CSE2017C002**.
- ❑ **Jyotsna Singh** (2017) 'A study on analysis and comparison of efficiency and capability of digital forensics tools', International Conference on Engineering and Technology Innovations, DPGITM Gurgaon, **CSE2017C003**.
- ❑ Mohit Yadav\* and **Sharda Vashisth** (2016) 'Comparative analysis of visible light communication and radio frequency communication: Li-Fi vs Wi-Fi', Asia student photonics conference, Manipal University, Karnataka, **ECE2017C001**.
- ❑ **Mansi Khurana** (2017) 'Jackknifing and Bootstrapping the Liu type estimator', International Conference on Computational Mathematics and Statistics, Banasthali University and University Putra Malaysia, **SOM2017C003**.

#### National

- ❑ **Amita Bhagat** (2017) 'Retrial Queues with double orbit, priority and breakdowns', Workshop on Applied Stochastic Models and Optimization, IIT Roorkee, **APS2017C06**.

\*Corresponding Author

## Student Activities

### NCU student wins international 5G Hackathon

Pranav Jain, CSE&IT (Class of 2017) participated in the 5GFWD Hackathon in Oulu, Finland and also spoke at the EuCNC Conference, Finland and shared his ideas with teams from countries of Asia, Europe, USA and even as far as Brazil, held from 9-11 June 2017.

Pranav won the first prize of Euros 10000 in both the competitions, 5G Hackathon 2017 and OYS Challenge 2017. Only a selected few students from across the globe get the opportunity to participate in these competitions. This is a matter of great pride for the Department of CSE and the University. We extend hearty congratulations to Pranav who has brought great laurels to The NorthCap University, Gurugram, internationally. Keep up the good work, Pranav.



## OSA Student Chapter



**Nishant Sachdeva**  
BTech (CSE) 2nd Sem

Nishant Sachdeva has been selected by the Optical Society of America (OSA) to represent NCU's OSA Student Chapter at the Student Leadership Conference (SLC) and OSA meeting: 'Frontiers in Optics/ Laser Science' (FiO/LS) which will be held in Washington, DC, USA from 17-21 September 2017.

OSA is paying for the round-trip flight in advance, including cost of conference registration fee and a three night stay at the Washington Hilton. Congratulations Nishant.

metres through penstock pipes to the Uhl river. They interacted with the villagers and saw their terrace farms with organic vegetables, fruits, pulses and witnessed weaving woollen clothes, shawls and local pattu's, as a housecraft.

The trek started from the base camp at Barot to Rajgundha (15-18 km). At a height of 3700 metres the team enjoyed the mesmerizing view of the Himalayan range, Bir-Billing with para-gliders sailing down from Billing to Bir, Kangra and Barot Valley. The trip was full of excitement and adventure. The trip was coordinated by Ms Jyotsna Singh, Dept of CSE&IT.



## Trek to Barot Valley

The club 'Trekking of NCU' organized a trekking expedition at 7700 feet (2300 Metres) inside the magical valley of Barot, on the outskirts of Nargu Wildlife Sanctuary, Mandi, Himachal Pradesh. The Barot valley is located at the foot hills of Dhauladhar, a hidden paradise referred to as 'Chotha Bhangal' with the gushing Uhl river flowing down from the Thamsar Glacier, which forms a gateway to the legendary 'Bara Bhangal'.

A team of 14 enthusiastic students, alumni and faculty were part of this trek from 25-28 May 2017. The team saw the reservoir at the Joginder Nagar Hydel Power Project with water rushing down nearly a thousand

## Outreach Activities of Prof. Prem Vrat

### Pro-Chancellor, Professor of Eminence and Chief Mentor



**Prof. Prem Vrat**  
Pro-Chancellor,  
Prof. of Eminence  
and Chief Mentor

- Prof. Prem Vrat was a Special Guest at the 5th International SPICMACAY Convention on the occasion of its 40th Anniversary, held at IIT Delhi on 5 June 2017. The inaugural function was addressed by the Prime Minister through video conferencing and the Guests of Honour included the Minister for Railways, Governors of Haryana and Tripura and Dr Karan Singh. Director IIT Delhi presided over the inaugural function.

- Prof. Prem Vrat presented a Theme Paper on 'India: The Global Destination for Higher Education' at the inaugural session of the International Conclave on 10 June 2017 at Hotel Ashok, New Delhi. HRD Minister, Shri Prakash Javadekar delivered the inaugural

address via video conferencing. Minister of State, Dr MN Pandey; Director, IIT Kharagpur; Secretary, Higher Education, MHRD were the Guests of Honour at the inaugural session. Prof. Prem Vrat also chaired the 4th Session on 'Road Ahead' with Addl. Secretary-Tech Education, MHRD, Shri R Gopalakrishnan, Former Director, Tata Sons; Prof. PB Sharma, Former VC, DTU and Prof. G Raghuram, Director, IIM Bangalore as panellists.

- Prof. Prem Vrat delivered a two hour lecture on Materials Management in the Management Development Programme (MDP) by SIDBI at the Department of Management Studies, IIT Delhi on 16 June 2017.
- Prof. Prem Vrat attended the faculty selection committee meeting at MDI, Gurugram as subject expert in Operations Management on 29 June 2017.



**Published by :** Editorial Cell, The NorthCap University, Gurugram  
Tel.: +91-124-2365811 to 13 Email: newsletter@ncuindia.edu  
Editor: Ms Rekha Mathur • Graphic Designer: Mr Lalit Narayan Lal

