

## NCU Activities

### IUCEE-SPEED Conference

The Department of CSE&IT organized a three-day IUCEE-SPEED Regional Conference from 28 – 30 September 2015 for engineering students to improve engineering education in India. The event started with an introduction to IUCEE (Indo US collaboration for engineering education) and SPEED (Student platform for engineering education development). A few group activities and a workshop were held to bring awareness about the challenges associated with the conventional system of engineering and make students work collaboratively to find a solution for these challenges and think about how they can overcome the barriers they face. Presentations were held by various groups about their respective action plans and how they would implement it, what all resources they would need, how they would manage change.

Through this workshop students were made to think beyond the boundaries and focus on how they can work in synergy and accelerate the process of improving the quality of imparted engineering education.



### Outstanding Paper Award by Emerald Group Publishing Ltd.



**Prof. Prem Vrat**  
Pro-Chancellor



**Prof. Ravindra Ojha**  
Director SOET



**Prof. AK Vij**  
Prof. Emeritus SOM

THE NORTHCAP UNIVERSITY shares with great pride that a research paper, 'Manufacturing Excellence and its Critical Factors - An Interpretive Structural Methodology Application' authored jointly by Prof. Ravindra Ojha, Director, School of Engineering and Technology, Prof. Prem Vrat, Pro-Chancellor and Prof. AK Vij, Professor Emeritus, School of Management, has been selected by the Emerald Group Publishing Ltd., UK, for the '2015 Outstanding Paper Award'. The paper was published in

the Journal of Advances in Management Research, Vol. 11, No. 3, pp. 312-332.

Congratulation to the illustrious authors.

### Dean's List of Students

A meeting of Officiating Vice-Chancellor, Brig SK Sharma (Retd) with UG/PG students of various programmes who featured in the coveted Dean's List of Semester Results (June 2015) was held on 9 October 2015. Apart from the Officiating Vice-Chancellor, the meeting was attended by the Pro-Chancellor, Prof. Prem Vrat; Dean (Academics), Prof. Swaran Ahuja and Directors of Schools. During the meeting, brainstorming discussions were held on various points like how to create more practical oriented teaching environment, review of course content at department level, amendments in the process of re-appearing of students in exams, students representation in different university level committees, peer-tutor scheme, various industrial & academic MoUs and placements of NCU. The Dean's List indeed is effectively working as a think-tank of the University.

### NCU Faculty win National Design Contest



A team of Mr Ashwini Sharma, Asst Professor and Mr Gagan Baradia, Asst Professor, both of Dept of Mechanical Engineering bagged the first prize in Professor's Category in Aakruti 2015 National Design Contest with the theme of 'Smart City and Smart Villages of India', held at Pune on 1 October 2015. Mr Sharma and Mr Baradia participated in the contest which witnessed a participation of 703 teams from 129 engineering colleges and universities from all over the country. The team had designed a semi-automatic machine for making low cost sanitary napkins which was appreciated by the jury members.

Aakruti 2015 is a nationwide contest on 3D Design & Modelling with an objective of increasing collaboration between academia and 3D professionals. It invited professors and students from engineering and architectural colleges to design smart products for smart cities and smart villages.

## Mock Interview Sessions



One of the major parameters to gauge an educational institute is the final placement of students. For better preparation of its students for the placements, School of Professional Attachments (SPA) and Centre of Languages Learning (CLL) organized sessions of mock interviews for students of different departments on 13 and 14 October 2015. SPA worked in tandem with CLL for grooming of students for placement drives. Mrs Prema Chauhan from CLL initiated exclusive sessions for aspiring students for forthcoming interviews. She simulated an environment of personal interviews and group discussions. The sessions were found highly absorbing by the aspirant students.

## University organizes Mini- Marathon



The University organized its first ever Mini Marathon on 11 October 2015, in furtherance of its commitment to Raahgiri, health consciousness amongst youth, as a part of its cultural fest- 'Momentum 2015'. The Marathon witnessed a participation of over 300 students of NCU and other colleges along with faculty and staff of the University. The sprinters ran for 3.2 KM with a social cause and message for all to remain healthy and fit. The event was organized by Yukti, the social service club of NCU which has used this opportunity by utilizing the funds raised through this event in social service and upliftment of underprivileged strata of the society. Yukti encouraged the young participants with the motto 'Run a mile, bring a smile.' The other highlight of the event illustrated the desire of the institution to express its support in women empowerment by encouraging maximum female participation.

Parvesh, Sumit and Saurabh were awarded with Gold medals while 12 other winners were awarded Silver medals. Prof. Ravindra Ojha, Director SOET was declared Best Senior Runner while Mr Gagan Baradia (Dept of



Mechanical Engineering) and Ms Anjali Garg (Dept of ECE) were declared Best Male Faculty and Best Female Faculty runner, respectively. Mr Lalit Narayan Lal came first in Admin category and Mr Anish came first in the Technical Staff category. The faculty and staff of NCU showcased their full support and cheer to the participants.

## NCU team treks to 16500 Feet in Roopkund trek



Mr Gagan Baradia and Mr Deepak Monga from Dept of Mechanical Engineering along with two students, Rishabh Mendiratta and Himanshu Verma (2nd year BTech Mechanical Engineering) represented our university in trekking to '16500 Feet on Feet' in Roopkund trek.

The trip was organized by I for Nation Foundation, Noida with the objective of awareness for the Great Himalayas and social eco-tourism from 29 September to 4 October 2015. The Roopkund trek is one of the toughest treks of India which was participated by a team of 17 people from across the India who 'Dared to Trail'. It included a 60 Km round trek to the hills of Upper Himalayas with upto 60 degrees incline over undeveloped trekking paths.

The NCU team led by Mr Gagan Baradia started on 1 October 2015 from Van Gaon, the base camp at 7,500 feet and returned on 4 October 2015 after covering different milestones like Badeni Bugyal at 11,000 feet, Patal Nachaniya at 14,000 feet, Roopkund at 16,500 feet and Junal Gali at 17,000 feet. The journey brought many interesting and memorable experiences that included the challenging but lush green trek with numerous ups and downs, night stay in the mountains in sleeping bags, temperature drop upto  $-60^{\circ}\text{C}$ , deficiency of oxygen at higher elevations.

## The Ganga Passion Trail



**Dr Pushpesh K Pant**  
Professor and Dean,  
School of Law

‘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 a 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 were 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 a regal lunch at the Chunar Fort, Satvik food, Sanskrit and Vedic Mathematics at Rishikesh and Gharana music at Varanasi, on top of a have!!

## University Staff wins Bench Press competition

Mr Vijay Ghai, Sr Executive, Admin has secured second position in Senior Weight Class Bench Press Competition held at Gurgaon on 1 November 2015. The University congratulates him and wishes him all the best for future competitions.



## News from the School of Engineering and Technology

### Department of EECE

#### Alumni Interactions

- The Department organized a webinar on ‘Group Discussion’ by our alumnus, Mr Deepak Sukhija (2009-2013 batch) for EEE/ECE 5th semester students on 18 September 2015. Mr Sukhija is currently working as a System Engineer with Infosys. The objective of the session was to provide tips to the students for cracking GDs in placement. It was coordinated by Ms Amanpreet Kaur and Ms Nidhi Sharma. [ECE2015WO002]
- The Department organized webinars on ‘Career Guidance’ and ‘MS and GRE preparation’ by our alumni. The first webinar was conducted by our alumnus, Mr Vishal Gupta (2001-2005 batch) for the final year students on 17 September 2015. Mr Gupta is currently working with Microsoft. The session was organized to guide the students in choosing the right career and courses for higher studies. Around 34 students attended the webinar which was coordinated by Ms Anita Sharma and Ms Nidhi Sharma.
- Mr Aryan Kaushik (2009-2013 batch) conducted another webinar for ECE 5th semester students on 18 September 2015. Mr Kaushik is currently pursuing MS from Hong Kong University of Science & Technology. The webinar was attended by the students planning to pursue higher studies abroad. The event was coordinated by Ms Kusum Grewal and Ms Nidhi Sharma. [ECE2015S004]
- The Department organized a talk on ‘Career opportunities’ by our alumnus, Mr Abhinav, Assistant Manager, North Zone, HDFC Bank

on 25 September 2015. Mr Abhinav discussed job opportunities available for ECE/EEE graduates. He further guided them on improving their project quality. The talk was coordinated by Ms Amanpreet Kaur and Ms Nidhi Sharma. [ECE2015WO001]

- Dr Neeraj Kr Shukla, Associate Professor and Nodal Coordinator, Virtual Labs IIT Delhi has been awarded INR 5000 for his continuous efforts and contributions in Virtual Labs by IIT Delhi. Virtual lab is an initiative of MHRD, Government of India.

## Department of CSE and IT

### Departmental Activities

#### Guest Lectures

- The Department organized a guest lecture on 'Big Data Analytics for Personalized Education' by Dr Mukesh Mohania (Distinguished ACM Speaker) from IBM Research India on 9 October 2015. Prof. Prabha Sharma, Senior Professor welcomed Dr Mukesh Mohania, which was followed by an address by Ms Meghna Sharma. During the talk, Dr Mohania discussed about the learning content analytics and automatic content tagging that enables the adaptive and personalized education on Big Data platform. The event ended with a vote of thanks by HOD, Dr Latika Singh. [CSE2015G011]



- On an invitation by Dr Meena Kumari, Dr Dhananjay Dey, Senior Scientist DRDO, Ministry of Defence delivered a guest lecture on 'A Gentle Introduction to Post Quantum Cryptography' on 5 October 2015. The talk covered the present and post quantum scenario of cryptography and the latest development on quantum computer by D-Wave 2X. [CSE2015G010]

### Workshop Organized

- The Department organized a Workshop-cum-Meet Up session, 'Rendezvous with Agile' on 13 October 2015, which was attended by senior Agile software developers from various software industries, directors and representatives of our industrial partners, faculties and MTech students. The session and workshop were attended by about 40 participants. The session was inaugurated by Director (SOET), Prof. Ravindra Ojha. The speakers at the event included Mr Priyank Pathak, Head Innovation Roots, a leading agile company;



### Industrial Visits

- The Department organized an industrial visit to Alcatel –Lucent, Gurgaon for BTech 5th and MTech 1st semester students on 28 September 2015. The students got an idea of how communication takes place with the latest technologies like GSM, CDMA, 3G, and 4G and to gain knowledge of how the BSC, MSC, GGSN, SGSN nodes work. The students found the visit very informative and edifying. The visit was coordinated by Ms Amanpreet Kaur, Ms Nidhi Sharma and Ms Ashu Gautam. [ECE2015V013]



*Industrial visit to Alcatel –Lucent*

- An industrial visit to Traction Substation, Chanakyapuri, New Delhi was organized for 38 students of EE 5th semester and EEE 7th semester on 30 September 2015. It was an educationally enlightening visit giving an insight into working and functioning of a traction substation. The students were given a chance to visit the switchyard and were explained about protection circuits, its different components and maintenance of the traction substation. The visit was coordinated by Ms Anjali Garg, Ms Sheila Mahapatra and Mr Nitin Malik. [ECE2015V012]



*Industrial visit to Traction Substation, Chanakyapuri, New Delhi*

### Faculty Activities

- Ms Mona Aggarwal, Assistant Professor has been selected by Technical University of Munich (TUM), Germany for a travel grant of 1000 euros and a fully funded seven day visit to the University to explore research opportunities.

Ms Suchi Singla from Scaled Agile Academy; Mr Ashok Jain, a leading agile practitioner and Mr Narinder Kamra, Director, vDoIT Technologies. The speakers discussed different aspects and utility of Agile software and presented the case studies about different projects. Later, Director SPA, Mr BK Gupta met the industry representatives and arranged a meeting of Director Miracle eye with MBA students regarding placements. The event was sponsored by Mr Narinder Kamra, Director, vDoIT Technologies, Gurgaon.

- ❑ The Department is pleased to announce that 26 students have successfully completed CCNA Module 1(Session 2) certification course from 10 Sept- 15 Oct 2015 under the guidance of Ms Hitesh and Ms Shilpa Mahajan.

### Alumni Interactions

- ❑ Alumni Cell of CSE&IT Department conducted a seminar on 'Basic Organizational Ethics and how to appear in an interview' by Mr Pranav Bhardwaj (2006-2010 Batch) on 13 October 2015. Mr Pranav is currently working with Genpact as a Quality Analyst. The seminar was attended by over 100 enthusiastic students of fourth year who are going to appear in interviews for placement this year. Mr Pranav talked about the current working culture and environment of the leading firms and companies in the area of analytics and other profiles. He gave tips to students to succeed in an interview from HR and technical point of view. The students came up with a lot of queries that were well answered by the speaker. [CSE2015G012]



- ❑ The Alumni Cell of CSE&IT Department is working towards a goal of strengthening the bond with CSE&IT alumni. The journey, started in 2012, has grown to a network of more than 900 alumni. The cell conducts expert talks, mentoring sessions, placement activities and internships. The Alumni Cell has been reframed and the new members are: Jyotsna Singh (Chief Coordinator), Supriya Raheja, Shilpa Mahajan, Sonal Gahlot, Usha Batra, Sujata, Neeti Kashyap (Member Secretary), Poonam Sharma and Vijay Budakoti.

### Faculty Activities

- ❑ Dr Vijendra Singh has published a special edition entitled 'Computational Intelligence in Data Science and Big Data: Theories Applications' as Lead Editor. He was assisted by a team of editors comprising representatives from different universities of India and abroad.

Dr Singh has also been appointed as an editor to International Journal of Multivariate Data Analysis, International Journal of Internet of Things and Cyber-Assurance and as a reviewer to International Journal of Information and Decision Sciences, Inderscience, UK.

- ❑ Dr Usha Batra was invited as a keynote speaker at IEEE International Conference on Applied and Theoretical Computing and Communication Technology held from 29-31 October 2015.
- ❑ Ms Sujata attended a meet up Scaling Agile@Gurgaon at Nagarro Software on 12 October 2015 that focussed on agile technology. The participants in the meet up included senior Agile software developers from various software industries, directors and representatives of various firms.
- ❑ Ms Hitesh and Ms Shilpa Mahajan attended CISCO India Networking Academy Conference 2015 held from 23-24 September 2015 at Amity University, Noida.

## Department of Civil and Environmental Engineering

### Departmental Activities

#### Space Day

- ❑ The Department organized its technical fest, Space Day on 22 September 2015 which was inaugurated by Pro-Chancellor, Prof. Prem Vrat; Pro Vice-Chancellor, Brig SK Sharma (Retd); Registrar, Col Bikram Mohanty (Retd); Director SOET, Prof. Ravindra Ojha, and HOD Civil & Environmental Engineering. The ceremony started with an inspirational talk by Prof. Prem Vrat followed by a talk given by Brig SK Sharma. The day had various technical events namely, brick laying workshop for the first and second year students, quizzup extravaganza, Straw Scappers, Plan It Up and much more which saw participation from all the three Schools of the University. The students participated in teams and came up with excellent innovative plans and designs. Prof. Pramila Goyal, Prof of Eminence distributed the certificates and prizes to the winners of the events. [CEE2015O001]



### Faculty Seminar

Dr Amit Srivastava, Associate Professor & Officiating Head of Dept., delivered a lecture on 'System reliability analysis of granular filters for protection against piping in dams' under the Faculty Seminar series of the Department. The seminar covered the important aspects of piping failures in earth dams and provision of granular filters, role of uncertainty in the geotechnical properties and risk based assessment approach.

### Guest Lectures

- ❑ The Department organized a guest lecture on 'Innovation in the civil aviation and infrastructure' by Mr Romy Juneja, Vice President and Chief Commercial Officer, Delhi International Airport (P) Ltd, for the 5th semester students on 23 September 2015. Mr Juneja interacted with the students on various new innovations taking place in the

aviation sector. He also shared some case studies on the DIAL Project and videos on the actual construction of the New Delhi International Airport Project. He discussed the future scope of internships and placement for the students in this sector and proposed to conduct a seminar/workshop on skill development for our students. The lecture was coordinated by Ms Purnima Bajpai. [CEE2015G012]

- Under the initiative of Mr Lokesh Choudhary, a mentoring session was organized on 6 October 2015 for the students of BTech 3rd semester. The session was taken by Mr Himanshu Gupta, Territory Technical Service Manager, UltraTech Cement Ltd., on 'Basics of Concrete: A man-made rock.' Mr Gupta discussed the features and aspects of the material concrete. The lecture was highly motivating and encouraging, followed by a healthy discussion about the scope of training and placements in the company. [CEE2015G013]
- On 13 October 2015, the Department organized an expert session by CETPA Infotech Limited for the 3rd semester students who are new to the Civil Engineering field. The session was targeted to make the students understand the importance of software, current technology in the field of Civil Engineering, and future scope of trainings and internships in CETPA and other similar organizations. The session covered a brief of Auto CADD, and STAAD Pro software. [CEE2015G014]

### Bridge Design Workshop

ASCE-Student Chapter of the Department Organized IBCB Workshop-championship on Bridge Design from 7-8 October 2015. The workshop was conducted by ARK Technosolutions, official partners of India's biggest Civil Championship hosted by CEA Fest 2016, IIT Madras. The workshop aimed at training students and improving their skills in the area of Bridge Design. During the workshop, the students prepared bridge models which were tested for efficiency and the winners were given certificates and memento. The winners will now participate in Civil Championship at IIT Madras during CEA Fest 2016. [CEE2015WO013]



### Alumni Interaction

Mr Gurpreet Singh (2007-2011 batch), Senior Engineer (Operations) from L&T interacted with students on 12 October 2015 to guide them about scope of MBA in Operations and its importance in industry. He discussed that experience and higher qualifications are equally necessary to achieve the targeted milestones. Students were enthusiastic about learning from his experience in L&T. The procedure one has to follow to get into L&T for internships was also discussed.

## Department of Mechanical Engineering

### Departmental Activities

#### Guest Lectures

- The Department organized a guest lecture on 'Recent Development in Mass and Force Measurement' by Dr Harish Kumar, Scientist C, CSIR-National Physical Laboratory, New Delhi on 13 October 2015. The event was coordinated by Mr Anuj Kumar Jain and Mr Deepak Monga. [MED2015G003]
- The Department organized a guest lecture on 'Introduction to Ansys' for 3rd year Mechanical Engineering students on 13 October 2015. The session was conducted by Mr Vineet from CETPA Infotech Private limited. The session covered introduction to design process and processes of analysing the component. The students were explained about the applications of Ansys software in designing of mechanical components, with some practical examples. The session was coordinated by Mr Anmol Bhatia (ME Dept) and Dr Sunil Hans (APS Dept). [MED2015G004]



Students attending the session on Introduction to Ansys

### Other Activities

The Department has installed a 3D printer (Ultimaker2) in its CAD Lab. The development team has designed and printed some products and is in the process of making this a central facility at NCU, under the coordination of Mr Deevesh Sharma. [MED2015O008]



### Alumni Interaction

The Department of Mechanical Engineering organized an interactive session on 'Employability of Engineers?' for B Tech 3rd year students on 9 October 2015 by our alumnus Mr Kapil Pruthi (1996-2000 batch), Director at Ritter Tech Limited, Gurgaon. Mr Pruthi has a vast experience as an entrepreneur. He discussed the basic qualities that make an engineer employable as per the current market and industry demands. He shared his experience as an industry personnel and encouraged the students to work hard on their interpersonal skills for a brighter career. He suggested some of the basic qualities in an employable engineer should be imagination and innovation, sound technical knowledge (practical applications) and communication skills. The students were very enthusiastic and asked questions from the speaker, answered quite



elaborately. The session was coordinated by the departmental alumni coordinators - Mr Anmol Bhatia, Mr Gagan Baradia and Ms Renu Sharma. [MED2015O007]

### Faculty Activities

Mr Abhishek Pratap Singh, Mr Pradeep Rohilla, Dr K Mathiyazhagan, Mr Sameer Panda and Mr AK Jain attended an FDP on Communication Skills on 19 September 2015, organized by APS Department. [MED2015FA002]

## Department of Applied Sciences

### Departmental Activities

#### Educational Trips

- The Department organized an educational trip to National Science Centre and Smart Card Expo 2015 at Pragati Maidan, New Delhi for 46 students of BSc (H) Mathematics and BTech on 24 September 2015, accompanied by Dr Phool Singh, Prof. AK Yadav and Dr Dipti Vaya. National Science Centre is a unit of National Council of Science Museums (NCSM) and is a pioneering institute engaged in the popularisation of science among students. The students learnt how sim/smart cards are manufactured and RFID technology is used. The students visited the various galleries of the Centre, viz. 'Our Science and Technology Heritage' showing history of our rich heritage, 'Information revolution' depicting models of revolution in information and communication technology, 'Human Biology' showing the various features of human body, 'Pre-historic life', 'Fun Science' with interesting experiments like mirror maze, rolling balls etc., and 'Emerging technologies' focusing on revolutionary changes in science. [APS2015V007]
- An educational trip to National Physical Laboratory, New Delhi was organized for 28 students of BTech 1st and 2nd year on 30 September 2015 (NPL Open Day). The objective of the visit was to



expose the students to ongoing scientific work being carried out at NPL. During the visit the students saw various scientific models related to measurement science, quantum physics, electronic materials, nanoscience & nanotechnology, energy harvesting, surface science, thin films, material characterization, atmosphere sciences etc. They also watched an audio-visual show on the various scientific activities. The visit was very useful for the students as they were able to link the theoretical concepts with the practical techniques. The visit was coordinated by Dr Pranati Purohit and Dr SK Jain. [APS2015V008]

- Dr Sunita Sharma visited Raj Industries, Rohtak and interacted with its employees on 26 September 2015. She also had hands-on experience on checking the precise designing of automobile parts. It was a good exposure to correlate the theoretical concepts of Physics with its industrial applications to increase the teaching effectiveness. [APS2015V009]

### Societies Activities

- NCU Mathemactive Society organized a quiz, 'Quest for Mathemactive Genius' on 30 September 2015. The quiz consisted of three rounds, written test, game and presentation round which tested the logical ability, accuracy and speed besides basic mathematics concepts. About 40 students from all disciplines of Engineering, Management and Science participated in the quiz. The students were excited and participated with full enthusiasm. They also showed their interest in being a part of Mathemactive Society. The event was coordinated by faculty coordinator Prof. Kalika Srivastava and student coordinators, Riya Gupta, Hari Om, Ruchi Khatri, Manisha, Neha, Jyoti and Rishabh Kalra. [APS2015O002]
- SPIE (An International Society of Optics and Photonics) is an international society advancing an interdisciplinary approach in the field of Science and application of light. The SPIE-Student Chapter at NCU has been actively involved in various academic and research activities since its inception. The year 2015 is being celebrated as the International Year of Light.

SPIE-Student Chapter of NCU organized a one-day workshop on Optics to celebrate International Year of Light (IYL-2015) on 14 October 2015. Prof Ajoy Ghatak (formerly of IIT Delhi) and Prof Kehar Singh (Distinguished Research Professor at NCU) were the distinguished speakers. They enlightened the participants on various aspects of optics such as polarisation, laser, fibre optics, holography, etc. They also spoke about some of the noble laureates in the field of optics and highlighted their contributions in providing crucial breakthroughs. The Pro Vice-Chancellor, Brig. SK Sharma (Retd) gave the opening address and emphasized the importance of optics in science and engineering and congratulated SPIE-Student Chapter of NCU for celebrating the International Year of Light (IYL-2015). The workshop was attended by over 100 students from various colleges of NCR.

In addition to the special lecture sessions, there were demonstrative sessions on holography and polarization, in which different types of holograms, polaroids, polarizing sheets etc. were demonstrated. This was followed by a quiz based on optics and its related applications in the field of science and engineering.

The event was coordinated by faculty advisor Dr Sunanda Vashisth, faculty coordinators Prof. AK Yadav, Ms Amanpreet Kaur and Mr

Naman Joshi. The student coordinators were Mr Mohit Yadav (President) and Ms Neha Gosain of SPIE- Student Chapter. [APS2015O003]



### Faculty activities

A workshop on 'Personal hygiene and Physics around us' was conducted on 29 September 2015 by our faculty Dr Sunita Sharma, at the Ryan International School, New Delhi. She interacted with the students and staff of the School and introduced them with the latest research findings like solar cells. She also explained about the rebranding of the University and various programmes running at NCU. [APS2015O004]

## News from the School of Management

□ School of Management organized a one-day seminar on 'Our Obligations towards the Society' on 1 October 2015. The objective of the seminar was to sensitize the young minds regarding their obligations. Ms Sonia Shrivastava, CSR Head, South Asia (Intel), Mr Pravin Mallick, Environment Director, Tetra Pak India Pvt. Ltd. and Ms Mamta Saikia, Vice President, Bharti Foundation shared their organization's initiatives towards fulfilling societal responsibilities. Goonj, a leading NGO working in the area of clothing the poor, was represented by Ms Harshie who presented the contributions of the organization and its founder Mr Anshu Gupta (Magasay Award winner, 2015) towards the society. 120 students attended the seminar from Schools of Management and Engineering. The seminar was coordinated by Dr Sushmita B Waraich, assisted by Dr Saumya Dixit. [SOM2015WO006]

□ An academic economic fest 'Arthshastra 2015' was organized by School of Management on 8 October 2015, which catered to Economics and Management students from different universities and colleges across Delhi NCR. The fest gave the students an insight into the world of economics by organizing various events



namely Stock Fusion, a mock stock market; Seal the Deal; Idea buzz; Abhivyakti, a business board game and a quiz. Dr GB Singh, an independent economist and a visiting faculty member, Economics and Planning Unit, Indian Statistical Institute (ISI), Delhi Centre graced the occasion as the Chief Guest. Prof. Prem Vrat, Pro-Chancellor; Brig SK Sharma (Retd), Pro Vice-Chancellor; Dr Charu Shri, Head, School of Management; Dr DR Agarwal, Mrs Archana Mehra and over 150 students and faculty members attended the fest. Students were invited from over 100 colleges and universities. Cash prizes were given to the winners along with certificates to each participant.

□ An 'E-waste Awareness Session' was organized at the University on 7 October 2015, in association with M/s Attero Recycling Pvt Ltd, India's largest e-waste management company. The delegates from Attero addressed the audience and elucidated what constitutes e-waste. They described that electronic waste refers to unwanted, obsolete or unusable electronic and electrical products ranging from tiny chips to computers to music players. They explained the hazards associated with e-waste materials and enlightened the audience on correct ways for disposal of the same. Most of the e-waste is handled by the informal and unorganized sector where it is treated in unscientific ways damaging our environment and health. Attero have also placed some bins in the University campus for few days for starting the e-waste collection. The awareness session by attended by the Pro-Chancellor, Prof. Prem Vrat, Director School of Engineering and Technology, Prof. Ravindra Ojha, Head School of Management, Dr Charu Shri along with several faculty members and students of the University. [SOM2015G001]



□ The School of Management organized a 5 day Capsule Course on Social Media Marketing from 12-16 October 2015. This was the first stream of capsule courses planned to guide our students in acquiring the necessary skills to implement a successful digital marketing campaign. The workshop incorporated 5 modules including orientation to digital marketing and social media,





demystifying community building on Facebook and Twitter, leveraging LinkedIn and measuring ROI of social media. The workshop was conducted by Dr Ruchi Nayyar and was well appreciated by all the participants. [SOM2015O002]

### Faculty Activities

- ❑ Ms Parul Munjal presented a research paper, 'Islamic Banking: A Primer' co-authored by Dr P Malarvizhi and Ms Parul Munjal, for the track 'Financial Inclusion' in a two-day National Seminar on Recent Advances in Accounting, Commerce and Taxation from 16-17 September 2015, jointly organized by Institute of Chartered Accountants of India (ICAI) and Amity College of Commerce and Finance at Amity University, Noida. [SOM2015CA003]
- ❑ Ms Tripti presented a paper, 'Empirical verification of the Marshall-Lerner condition in the major Indian manufacturing industries namely Sugar and Leather Industry (2009-2014)' in the 57th Annual Conference of Indian Society of Labour Economics (ISLE) held during 10-12 October 2015 at Central University of Kashmir, Srinagar, Kashmir. [SOM2015CA004]
- ❑ Dr DR Agarwal, Professor Emeritus was invited by India TV Channel on 26 October 2015 for giving his feedback as an economist on completion of one year of Haryana Government. The programme was a live telecast on national channel during which Dr Agarwal gave his valuable comments with facts and figures. [SOM2015I005]

## News from the School of Law

### Departmental Activities

#### Symposium on Legal Education and Career in Law



With an aim to deliberate on new dimensions in career prospects in law and approaches in legal education, School of Law and Centre for Post-Graduate Legal Studies (CPGLS) organized a Symposium on 'Legal Education and Career in Law' for Law students on 27 October 2015. The event witnessed talks by eminent academicians and law professionals and was attended by a number of students from School of Law.

Prof. Pushpesh Pant, Dean, NCU Law School, while addressing the students, stressed on new innovations in imparting clinical legal education, which converts a classroom to a court room. Prof. Saligram Bhatt, Professor Emeritus, NCU Law School congratulated the law students for their proactive role towards society on environmental issues. He discussed about the international strategies across the globe in sustainable development. Moreover, he motivated the law students for work for environment and possible career opportunities across the globe. Prof. Kiran Gupta, Professor-in-Charge, CLC-II, Delhi University reminded about the social obligations of a lawyer towards the society. She delivered a lecture on advocacy skills to law students. Mr Haleem Khan (Sr IAS), Director General in Council for Advancement of People's Action & Rural Technology (CAPART) delivered a lecture on relation of law and

legal policies in Public Administration. He inspired the students to appear for public service commission and serve the nation. Prof. JL Dwivedi, (HCS) Dist. Employment Officer, Gurgaon delivered a lecture on opportunities for Law students in judicial services. He was keen on inspiring the students to excel in a legal career both, in public and corporate sector. The event was coordinated by Dr Arvind P Bhanu, Associate Professor. [SOL2015S010]

### Guest Lecture

On 12 October 2015, Prof. M Afzal Wani, Dean, School of Law, GGSIP University, Delhi, delivered a lecture on 'Approaches to the study and understanding of Law'. In his lecture Prof. Wani emphasised on the needs of the students of Law to understand the right approach to study and understand law. He highlighted the importance of law students in the development of the society. Prof. Wani gave a wonderful approach of learning the subject to the students. He emphasised that the students should learn to read unwritten books first. He also encouraged students to learn how to develop respect for the profession.

Prof. Wani was a member of 19th Law Commission of India. He has authored and edited several books on subjects like women and law, human rights, Islamic jurisprudence, constitutional law and industrial jurisprudence etc. He is the founder editor of Indraprastha Technology Law Journal, a specialized journal on the subject. [SOL2015G010]



### Faculty Activities

Dr Arvind P Bhanu, Associate Professor was invited to judge the 4th Indraprastha National Moot Court Competition (4th NMCC) on 10 October 2015, organized by University School of Law and Legal Studies (USLLS), GGSIP University, New Delhi.

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

- ❑ School of Professional Attachment (SPA) invited a leading MNC, **Tata Consultancy Services (TCS)** on 15 October 2015 for a



Mr Ayan Dutta, Senior Consultant during pre-placement drive

placement drive. The drive continued with online tests and pre-placement talk by the visitors who were impressed with the vibrant, cheerful and positive outlook of the aspiring students of the University. A total of 328 students appeared for the online test, out of which 172 students were selected after the final rounds. This has been a historic result with so many students selected on a single day. This has been the result of vigorous and constant efforts of all concerned. SPA also addressed students on 8 and 9 October 2015 well in advance to sensitize them about this important placement session.

- ❑ **Newgen Software Technologies Ltd.** conducted on-campus placement drive on 19 and 20 October 2015. 16 out of 75 appeared students were selected by the organization.
- ❑ **Gemini Solutions** visited the University on 21 October 2015 for an on-campus placement drive. Students exhibited the best of technical skills to secure the position in an organization. Two students got the offer after the final rounds.



*Mr Neeraj Yadav being welcomed by Mr BK Gupta*

- ❑ **Nagarro Software**, a rapidly growing company visited the University for an on-campus placement drive on 26 October 2015. 96 students appeared for online test and the final interviews took place on 27 October 2015.

### Call for Prime Minister's Fellowship Scheme for Doctoral Research

Under the Prime Minister's Fellowship Scheme for Doctoral Research, Mes-Technik Pvt. Ltd., an Indore-based company, seeks candidates in power electronics background, in particular, with specialization in designing drives and SMPS power supplies. Candidates with relevant background may get in touch with Confederation of Indian Industry (CII) at the earliest at: [neha.gupta@cii.in](mailto:neha.gupta@cii.in); [pm.scheme@cii.in](mailto:pm.scheme@cii.in); [shalini.sharma@cii.in](mailto:shalini.sharma@cii.in). For more details on the Fellowship Scheme, please visit <http://primeministerfellowshipscheme.in/Home.aspx>

## Research Papers Published

### Book Chapters

#### National

- **Prof. Prem Vrat** (2015) 'Faculty Quality in Technical Education: Concerns, Challenges and Way Forward' in Transforming Indian Higher Education, Chapter 7, pp. 159-172, Bloomsbury, ISBN - 978-93-84898-95-3, **SOM2015BC003**.

### Journals

#### International

1. **Prachi**, Nisha and Suruchi (2015) 'Green Wireless Networking', International Journal of Computer Applications, Vol. 125, No. 10, pp. 4-10, **CSE2015J045**.
2. **Prachi** and Seema Verma (2015) 'A Cluster based Key Management Scheme for Underwater Wireless Sensor Networks', International Journal of Computer Network and Information Security, Vol. 7, No. 9, pp. 54-63, **CSE2015J046**.
3. Vaishali Jain and **Supriya Raheja** (2015) 'Improving the Prediction Rate of Diabetes using Fuzzy Expert System', International Journal of Information Technology and Computer Science, Vol. 10, pp. 84-91, **CSE2015J047**.
4. **Shilpa Mahajan**, Jyoteesh Malhotra and Sandeep Sharma (2015) 'Pre-deployment Non-uniform Node Distribution Strategy for Enhancing Network Efficacy in WSN', International Journal of Wireless and Mobile Communication, Vol. 9, No. 1, pp. 49-57, **CSE2015J048**.
5. **Usha Batra**, Shelly Sachdeva and Saurabh Mukherjee (2015) 'Implementing Healthcare Interoperability utilizing SOA and Data Interchange Agent', Elsevier's Journal of Health Policy and Technology, Vol. 4, No. 3, pp. 241-255, **CSE2015J049**.
6. **Geetika**, M. Hanmandlu, Ashish Saini and Deepti Gaur (2015) 'Modified k-Tuple Method for the Construction of Phylogenetic Trees', Trends in Bioinformatics, Vol. 8, No. 3, pp. 75-85, **CSE2015J050**.
7. **Usha Batra**, Saurabh Mukherjee and Anuj Ramesh Yadav (2014) 'Analytical Comparison of Aspectized Service Oriented and Distributed Objects', IERI Procedia, Vol. 7, pp. 71-76, **CSE2015J051**.
8. Sugandh Sharma, Taranjeet Kaur and **Megha Kalra** (2015) 'The Study of Structural Behaviour of Steel Fibre Reinforced Concrete Beam', Journal of Structural Engineering and Management, Vol. 2, No. 3, pp. 27-33, **CEE2015J016**.
9. **Vaishali Sahu** and **Prachi Sohoni** (2015) 'Low Cost Concrete Block: A Sustainable Solution to Construction Industry', Journal of Construction Engineering Technology & Management, Vol. 5, No. 3, pp. 68-74, **CEE2015J017**.
10. Mohan Negi and **Vaishali Sahu** (2015) 'Performance Evaluation of 9 MLD Sewage Treatment Plant at Gurgaon & Cost Effective Measures in Treatment Process', Civil Engineering and Urban Planning: An International Journal, Vol. 2, No. 3, pp. 1-7, **CEE2015J018**.
11. **Prachi Sohoni** and **Vaishali Sahu** (2015) 'Comparative Strength Studies of Recycled Aggregate Concrete and Fresh Concrete', Civil Engineering and Urban Planning: An International Journal, Vol. 2, No. 3, pp. 9-13, **CEE2015J019**.
12. **Lokesh Choudhary** and **Ankit Pachouri** (2015) 'Analysis of Non-engineered Structure using SAP2000', Journal of Advance Research in Science & Technology, Vol. 4, No. 1, pp. 218-227, **CEE2015J020**.
13. **Savita Sondhi**, Munna Khan, Ritu Vijay, Ashok K Salhan and SK Sharma (2015) 'Effect of Normobaric and Hypobaric Hypoxia on Formant Characteristics of Human Voice', International Journal of Computer Applications, Vol. 122, No. 15, pp. 32-37, **ECE2015J055**.
14. **Savita Sondhi**, Munna Khan, Ritu Vijay and Ashok K Salhan (2015)

- 'Vocal Indicators of Emotional Stress', International Journal of Computer Applications, Vol. 122, No. 15, pp. 38-43, **ECE2015J056**.
15. **Savita Sondhi**, Munna Khan, Ritu Vijay, Ashok K Salhan and Satish Chouhan (2015) 'Acoustic Analysis of Speech under Stress', International Journal of Bioinformatics Research and Applications, Vol. 11, No. 5, pp. 417-432, **ECE2015J057**.
  16. **Deepti Chahar, Meenskshi Yadav** and Sakshi Chaudhary (2015) 'Performance Analysis of Proximity Coupled Microstrip Patch Antenna with DGS and EBG', Journal of Microwave Engineering and Echnology, Vol. 2, No. 3, pp. 1-8, **ECE2015J059**.
  17. Kanika Kapoor and **Shaveta Arora** (2015) 'Colour Image Enhancement based on Histogram Equalization', An Electrical & Computer Engineering International Journal (ECIJ), Vol. 4, No. 3, pp. 73-82, **ECE2015J060**.
  18. **Naman Joshi** and Prabhat Sharma (2015) 'Performance of Wireless Optical Communication in S-distributed turbulence', IEEE Photonics Technology Letters, **ECE2015J061**.
  19. **Sudhakar S** (2015) 'Value Stream Mapping and Value Stream Design in a Complex Diesel Pump Production Flow: A Case Study', Journal of Mechanical Engineering and Automation, Vol. 5, No. 3B(2015), pp. 69-75, **MED2015J017**.

## Conference Proceedings

### International

1. **Amit Srivastava** and GL Sivakumar Babu (2015) 'System Reliability Analysis of Granular Filter for Protection against Piping in Dams', International Symposium on Geohazards and Geomechanics, pp. 1-12, **CEE2015P003**.
2. **Amit Srivastava**, Deepanshu Yadav and Bharat Gaur (2015) 'Ground Water Quality Assessment around Gazipur Landfill Site, Delhi', International Conference on Geo-engineering and Climate Change Technologies for Sustainable Environmental Management, pp. 149-156, **CEE2015P004**.
3. **Pranati Purohit and SKJain** (2015) 'A Method for Determination of Shear Wave Attenuation Coefficient in Rubbers based on a Piezoelectric Resonator', 8th International Conference on Recent Advances in Civil Engineering, Architecture and Environmental Engineering for Sustainable Development, CEASED-2015, pp. 90-92, **APS2015P004**.

## Student Activities

- It was an honour for NCU Law School when a team comprising Mr Upinder Singh, Mr Rohan Seth and Mr Apoorv Bhatnagar bagged the Runners Up position at the G H Raisoni State Trial Advocacy Moot 2015 at Nagpur during 30 September – 2 October 2015. The Best Advocate Prize was won by Rohan Seth.



- Mr Nitesh Jain of 3rd Year BBA-LLB (Hons.) won the Special Mention Award at Model United Nations (SYMUNC) organized by Symbiosis Centre for Management Studies, Noida from 6-7 October 2015.

- A team comprising Mr Nitesh Jain, Mr Rachit Garg and Mr S Phanindra Kumar represented NCU Law School at the Amity International Moot 2015, Noida during 8–10 October 2015.
- A multi-disciplinary team comprising Chaitanya Jhanji (ME), Kulbhushan Gogia (ME), Sahil Saini (EEE) and Karan Malhotra (EEE) along with faculty advisor Mr Pradeep Rohilla (ME), participated in a national level automation competition organized by M/s Mitsubishi Electric Ltd. The NCU team, 'ELECTROTECH' has been shortlisted in top 24 teams who will now compete for The Mitsubishi Electric Cup in the finals to be held at Pune from 10-13 February 2016. The initial rounds witnessed a competition among more than 100 teams from all across India. [MED2015O006]



The NCU Electrotech Team

### Student Speak

- The new Online Test Management System developed by NCU developers is top-notch. The first test was conducted by SPA on 12 October 2015. Vineet Gupta, student of BTech IT final year shares his experience:
 

*"It was a wonderful experience while giving test on OTMS. The questions were excellent and the best part is that we got our test result immediately. I am extremely grateful that NCU listened to our concerns and provided us with an effective solution."*
- Pranshu Atri, student of BTech (IT) 7th Sem is an avid music lover. He shares his views on music.
 

*"Music means the world to me. It helps me keep a positive attitude about life and makes me happy and cheerful in every situation. Music is a universal language and a reassuring way of knowing you're not alone. Music is the thing that drives one's imagination and creativity."*
- A first year student, Prachi Bansal (15CSU152) shares her views about the University. She has recently joined the Google Students' Club at NCU.
 

*"A good thing about NCU is that the crowd is good and decent. My interview for GSC was quite good. The members who took the interview were frank and friendly. Overall it was a nice experience and I hope to get good exposure being a part of this club."*



## Sports

### An Achievement

NCU Table Tennis team won the Silver Medal in the Table Tennis tournament during the Inter Collegiate Sports Festival 'Udgosh 2015' organized by IIT Kanpur from 1-4 October 2015. Competing in a league of 30 teams participating from different colleges and universities from all across the nation, the NCU team defeated the 3 times defending champions IIT Kanpur team in the Semi-Finals to compete with NIT Trichy team in the Finals. The NCU team comprised Kartavya Atri (15CSU090), Subham Jain (15CSU226), Abhishek (15CSU005) and Shivansh Dhall (14CSU192).



## Outreach Activities of Prof. Prem Vrat

Pro-Chancellor; Professor of Eminence and Chief Mentor, THE NORTHCAP UNIVERSITY



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

- ❑ Prof. Prem Vrat attended a special function as invited guest by the Apeejay Institute of Technology at New Delhi on 9 October 2015.
- ❑ He attended CAETS Convocation on 'Pathways to Sustainability, Energy, Mobility and Health Engineering' as an invited delegate, hosted by INAE at New Delhi on 13-14 October 2015. The convocation was inaugurated by Dr Harsh Vardhan, Minister of Science and Technology, Government of India in which delegates from 26 Science & Engineering academics from across the globe attended.
- ❑ Prof. Prem Vrat delivered lectures on 'AHP and Goal Programming' at IIT Delhi on 17 and 31 October 2015 as an Honorary Professor.
- ❑ Prof. Prem Vrat attended a meeting of selected invitees to celebrate 70th United Nations day for World Peace at the Parliament annexe organized by the Brahma Kumaris on 24 October 2015. Dy Chairman Rajya Sabha, Mr PJ Kurien was the Chief Guest in which Chief and Addl. Chief of Brahma Kumaris personally blessed the invited delegates.
- ❑ Prof. Vrat attended the INAE Forum on Technology Foresight at INAE HQ in Gurgaon on 28 October 2015.
- ❑ He attended the meeting of the Audit Committee and the Meeting of Board of Directors of Air India at Air India, New Delhi on 29 October 2015.
- ❑ Prof. Prem Vrat chaired the Selection Committee Meeting for recruitment of Additional Chief Construction Engineer for DRDO at RAC on 30 October 2015.



Dean's List of Students for Semester Result - June 2015



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