

## NCU Activities

### XVIIth Academic Council Meeting of NCU

XVIIth Academic Council Meeting of THE NORTHCAP UNIVERSITY was held on 19 September 2015. The meeting was chaired by the Pro Vice-Chancellor, Brig. SK Sharma (Retd). The Academic Council is the apex body for academic activities and promotes the highest standards of teaching and learning. The meeting is held thrice a year and stimulates debates on major strategic and academic issues. It also reviews and approves academic resolutions and policies. For the first time, two student members were invited to the meeting to share their views and contribute to the academic growth of the University.



### Youth Parliament 'Disha'

The University organized the first edition of NCU Youth Parliament 'Disha' on 19-20 September 2015. Students from different colleges across Delhi NCR participated in the event. On the first day of the event, students presented arguments and counter-arguments on the agenda 'Delhi statehood'. The Executive Board moderated the whole committee and provided essential information regarding the parliamentary democracy of India. On the second day of the event, the participants were given a crisis to resolve. The way the students tackled the crisis was applauded by the Executive Board members.

The event was a huge success with the participants praising the organizing committee for successfully conducting NCU Youth Parliament.



### Satellite Symposium on Modeling Brain Information

The University organized a 'Satellite Symposium on Modeling Brain Information' on 30 August 2015 as a part of 2015 International Conference on Brain Informatics & Health (BIH'15), held at London, UK from 30 Aug – 2 Sep 2015. The Symposium covered the topics on Neurosciences, Cognitive science, Signal processing and Neuroimaging technologies, and witnessed high quality talks from both brain and informatics communities presenting the state-of-the-art research in the field. The Symposium and the Conference helped create great opportunities for researchers to exchange ideas, identify emerging challenges and present novel results from different domains in a focused manner. The Symposium witnessed presentations from Prof Phool Singh, Dept of Applied Sciences, NCU; Prof Prabha Sharma, Ms Jyotsna Singh, Mr Sandeep Singh, Ms Suman Bhatia, all of Dept of CSE and IT, NCU; Prof RK Aggarwal, School of Computer and Systems Sciences, JNU and other dignitaries from different parts of the globe including Ms Karina Jaime, Cinvestav Unidad Guadalajara, Mexico and Mr Taihei Kotake, Maebashi Institute of Technology, Maebashi, Japan, who were connected through Skype.



### Meeting with Governor of Narok County, Kenya

The Pro-Chancellor NCU, Prof. Prem Vrat and the Pro Vice-Chancellor, Brig SK Sharma (Retd) had a fruitful and informative discussion with Governor of Narok County, Republic of Kenya, His Excellency Mr Samuel K Tunai on 10 September 2015. It was a prolific meeting wherein the delegates discussed regarding the education initiatives and collaboration between NCU and Maasai Mara University in the County of Narok. The meeting included discussions on student and faculty exchange programmes after level mapping, summer foundation courses, joint research programmes between NCU and educational institutions in Narok County. They also had conversations on cooperative programmes at postgraduate level.

The meeting was quite productive and the NORTHCAP UNIVERSITY looks forward to having a synergetic international alliance with education institutions in the County of Narok, Kenya.

## Teacher's Day Celebrations



The University celebrated Teacher's Day with great fervor and revelry to pay honour to the teachers for their praiseworthy contribution to the society. On 4 September 2015, the faculty and staff of the University gathered together to celebrate the day. The proceedings started with Ms Deepika Deswal, Dy Manager HR welcoming all teachers and lauding the teaching fraternity for having chosen this noble profession. The Pro-Chancellor, Prof. Prem Vrat and the Pro Vice-Chancellor, Brig SK Sharma (Retd) gave away the awards to the Star Performers of the University (Dr Ambika Sharma, APS; Dr Latika Singh, CSE&IT; Ms Sharda Vashisth, EECE; and Ms Vaishali Sahu, CEE) and praised the involvement of the University faculty towards development of the students.

The faculty members of the University also presented a skit show and a video footage screening the life at the University was also shown on this occasion. The programme concluded with high tea for all.

## ORSI opens Examination Centre in North India

The Operational Research Society of India (ORSI) has designated THE NORTHCAP UNIVERSITY, Gurgaon as the first and only Examination Centre of ORSI in North India. This will facilitate the Operational Research scientists and scholars to promote and propagate knowledge in the field of Operational Research and allied disciplines. Desirous candidates to pursue the course on OR may visit the ORSI website at [www.orsi.in](http://www.orsi.in) for further details.

ORSI provides Operational Research scientists a forum to widen their horizon by exchange of knowledge and application of techniques from within as well as outside the country. The Society is also affiliated to the International Federation of Operational Research Societies (IFORS). One of the objectives of the Society is to promote and propagate the knowledge in Operational Research by conducting courses/examinations on Operational Research.

Prof. Prabha Sharma, Dept of CSE&IT, NCU has been selected as the member of Executive Council, ORSI, during her visit to Kolkata at ORSI Headquarters.

## Best Research Paper Award by PARC

THE NORTHCAP UNIVERSITY encourages and recognizes the research activities of Assistant Professors, Associate Professors and PhD scholars of the University by providing Best Research Paper Award to the deserving candidates for their research publications. The award is recommended by the University's Publication Award Recommendation Committee (PARC) through a meticulous procedure involving external experts of repute. For



the year 2014, the Pro-Chancellor of NCU, Prof. Prem Vrat presented the Best Research Paper Awards to Dr Hukum Singh, Dr Sunanda Vashisth and Dr K Mathiyazhagan on 19 September 2015 for their outstanding research papers. The awarded research papers are:

1. Hukum Singh, A K Yadav, Sunanda Vashisth and Kehar Singh (2014), 'Fully phase image encryption using double random-structured phase masks in gyrator domain', *Applied Optics*, 53 (28), 6472-6481.

URL: <http://www.opticsinfobase.org/ao/abstract.cfm?uri=ao-53-28-6472>

2. Ali Diabat, Devika Kannan and K Mathiyazhagan (2014), 'Analysis of enablers for implementation of sustainable supply chain management-A textile case', *Journal of Cleaner Production*, 83, 391-403.

URL: <http://www.sciencedirect.com/science/article/pii/S0959652614006696>

An amount of Rs 40,000 has been awarded to Dr Hukum Singh and Dr Sunanda Vashisth, to be shared equally, while an amount of Rs 25,000 has been awarded to Dr K Mathiyazhagan.

## Outreach Activities of Distinguished Professor



**Prof. Kehar Singh**  
Honorary Distinguished  
Research Professor

□ Prof. Kehar Singh, Hony. Distinguished Research Professor was a guest of honour at a workshop organized by Al Falah University Dhauz, Haryana on 6 August 2015. He also delivered an invited lecture on 'Laser Speckles: Fundamental Properties and Some Applications'. The workshop was organized to celebrate 2015 as the year of Light and Light Related Technologies.

□ Prof. Singh was a member of an expert committee of the Indian National Academy of Engineering, held on 20 August 2015 to select candidates for the prestigious 'INAE Young Engineer' award.

## Old Age Home Visit

Members of Yukti, social service club of THE NORTHCAP UNIVERSITY, Gurgaon visited Tau Devi Lal Old Age Home in Sector-4, Gurgaon on 25 September 2015. The Suvidha Cell of Yukti focuses on providing basic amenities and organized the visit in order to fulfil certain basic needs of the residents of the old age home, which has 25 physically and mentally



challenged women residents. The delegation was led by Mrs Jyotsna Singh, Faculty Coordinator, Yukti, accompanied by other faculty members and students. The Yukti team arranged to provide fruits, vegetables, some grocery items, toothbrushes, medicines etc.

Yukti, the social service organization of the University under which the Suvidha cell operates, has extensive experience in such activities and plans to supply items like medicines and medical kits on their next visit.

## Basic Life Support Training Camp

In line with University's commitment towards 'Golden Hour First-Aid', Basic Life Support Methods, Awareness & Training Camp was conducted on 18 September 2015. The camp was organized in association with Columbia Asia Hospital, bringing specialized training at no cost to participants. More than 250 individuals, which included students, members of faculty, technical & administrative staff, attended the camp led by Dr T Nath from Columbia Asia Hospital.

The Camp that included introduction to CPR education and basic Life support methodologies, was coordinated by Dr Shilpy Wadhwa, Sr Medical Consultant. She was supported by Ms Anubha, a student of 4th year Law who motivated many students to attend the BLS camp.



## Freshers Day Celebrations

On 25 September 2015, the University celebrated Freshers Day to welcome the new batch of students. Colour, laughter, music and celebrations, were all one could spot on the day. It was the most happening and memorable experience for the newly inducted students of the University.

The senior students of the University organized a scintillating show and welcomed their new companions to the University in an environment full of harmony and friendliness. Lively and entertaining cultural extravaganza comprising dance, fashion show, melody, skits and energetic choreography was at display. Rishika Deswal and Mandeep Lakra were awarded with the titles of Miss and Mr Fresher. The fresh batch put up an attractive and a stimulating fashion show by walking the ramp for the



coveted Mr Charismatic and Miss Diva's titles which were won by Shubham and Saina. Dressed to the nines, the girls and boys made a spectacular show. Other awards for the new entrants included Mr and Miss Popular and Mr and Miss Well-dressed.

## News from the School of Engineering and Technology

### Department of EECE

#### Guest Lectures

- The Department organized a guest lecture on 'Thin Film: Its Characterization and Application' by Dr Ashok Kumar, Asst Professor, Materials Science Department, NIT Kurukshetra on 18 September 2015, for BTech and MTech students. Dr Kumar discussed different characterization techniques of thin film and its uses in research and industry. Dr Kumar also explored about the possible collaboration of our faculties with NIT Kurukshetra and explained the Nanotechnology facilities available at NIT Kurukshetra. The visit of Dr Kumar was coordinated by Dr Vinay Budhraj, Associate Professor. [ECE2015G012]
- The Department organized a talk on 'Perovskite Photoanode for Dye Sensitized Solar Cell' by Ms Astrid Placke, HAWK University, Germany on 18 September 2015 for BTech and MTech students. Ms Astrid Placke also guided the final year BTech and MTech students who want to go for higher studies to Germany. Our students interacted with Ms Placke and gave a glimpse of Indian culture. In her talk, she provided information regarding the admission, work culture, academic life in German universities for international students. [ECE2015G013]



Ms Astrid Placke delivering a talk on Perovskite Photoanode

- IEEE NCU Students Chapter organized a guest lecture on 'Role of IEEE in Technical Education' for EECE students on 17 September 2015. The resource person for the lecture was Dr Purna Gaur, Associate Professor, NSIT, Delhi and Chairperson IEEE Women in Engineering. She explained about IEEE and its importance in

technical education. The students found the session highly informative and useful. The event was coordinated by Ms Pooja Sabarwal and Mr Pavan Khetrpal. [ECE2015G011]

### Workshops Organized

- ❑ A workshop on LATEX by Mr Naman Joshi was organized on 31 August 2015 in the Department. The workshop was organized by E-Club and coordinated by Ms Anita Sharma for the students of BTech and MTech. About 30 students along with some faculty members attended the workshop on the latest document tool. The students got a good hands-on experience on the tool. [ECE2015S002]

### Mock Aptitude Tests

- ❑ The EECE Department conducted a mock Aptitude Test for the final year MTech students of Embedded Systems and VLSI and final year BTech students of ECE and EE on 24 September 2015. The mock test was organized to prepare students for the placement drive of TCS and other organizations. Around 120 students appeared for the test which was coordinated by Ms Anita Sharma, Asst Professor.
- ❑ IEEE NCU Students chapter successfully organized a mock Aptitude Test for final year engineering students on 27 August 2015 so as to prepare them for placement drives. Around 73 students from various branches participated in the event and came with a feedback that such activities should be regularly organized.

### Alumni Interactions

- ❑ On 17 September 2015, a webinar on 'Career Guidance' was organized by the Department. The seminar was conducted by one of our alumni, Mr Vishal Gupta, 2005 batch for the final year students. About 34 students attended the webinar. The students asked the questions related to their career and courses which were well answered by the speaker. The webinar was coordinated by Ms Anita Sharma and Ms Nidhi Sharma [ECE2015S003]
- ❑ On 18 September 2015, a webinar on 'MS and GRE Preparation' was delivered by alumni, Mr Aryan Kaushik, in EECE department. The webinar was coordinated by Ms Kusum Grewal Dangi and Ms Nidhi Sharma for 6th sem ECE students. The students interested in higher studies abroad attended the webinar. Five students were allotted to the alumni for further guidance. [ECE2015S004]

## Department of CSE and IT

### Departmental Activities

#### Guest Lectures

- ❑ The Department organized a guest lecture on 'Digital and Digital Services- A Case study of Digital Transformation Execution' on 18 September 2015 by Mr Vishal Kapil, Director - Digital (eCommerce, Content & Ops) Accenture Private Ltd, Gurgaon. The lecture focused on the digital services, digital transformation and current opportunities available in IT industry. His knowledge provided guidance to our engineering students, who are seeking a bright career ahead in this particular domain. The guest was invited by Dr Vijendra Singh. [CSE2015G007]
- ❑ The Department organized a talk on 'Privacy and Security in Online Social Media (PSOSM)' by ACM India Eminent Speaker Dr Ponnurangam Kumaraguru, Assistant Professor & Head of Cyber

Security Education and Research Centre (CERC) at IIITD, on 14 September 2015. The talk covered the contemporary topics including the need to investigate, study and characterize privacy and security on online social media & the tools and techniques like Twit-Digest, MultiOSN and OCEAN to extract intelligence, which is useful to security analysts. The students had an interaction with the speaker after the talk to take up the challenging problems of cyber security. They also enquired about projects or summer training they can take up at CERC, IIITD. [CSE2015G008]



*Dr Ponnurangam Kumaraguru, delivering a talk on PSOSM*

- ❑ The Department organized a guest lecture on 'Network Transformation, Software defined Network and Cloud Computing' on 24 September 2015 by Mr Nigam Singh Yadav, Head, OSS IT Sector, Orange Business Services, India. The lecture focused on ultra-broadband network proliferation, advances in information technology and the evolution of endpoint devices which have created the conditions for re-inventing telecommunications networks and services architecture. [CSE2015G010]

### Alumni Interactions

- ❑ The Alumni Cell of CSE & IT organized a mentoring session with one of our alumni, Mr Prateek Gupta who is a Technical Analyst based at United States. The session was held through video conferencing and was a motivator for the students who participated. The students asked questions about the various options of higher education in the USA. The students found the video conferencing useful and requested for more such sessions in the near future. [CSE2015G009]
- ❑ On 17 September 2015, a seminar on the topic 'Alternative Career Options for Engineers' was conducted by Ms Neha Singhal and Mr Saurabh Agarwal as a part of the Alumni Mentorship Programme of the Alumni Cell of Dept of CSE/IT. Ms Neha is currently heading the Delhi franchisees of Profit Shastra, a Pune based financial training firm. Mr Saurabh is the Managing Partner at NWSA, an infrastructure and real estate based consultancy firm. The seminar was attended by over 80 enthusiastic and inquisitive students who were eager to know as to various career options they have. [CSE2015G006]

### Other Activities

- ❑ Three foreign delegates (including Dean and Deputy Dean of MBA Programme) from Anhalt University of Applied Sciences, Germany visited our campus for Foreign Exchange Programme on 8 September 2015. The meeting was attended by Prof. Ravindra Ojha, Director SOET, Dr Latika Singh, HoD CSE&IT, Ms Anuradha and Dr Manasi Khurana.

- ❑ The Department has started a value added (VA) course on Ethical Hacking for BTech (CSE&IT) 5th Semester students. This initiative has been taken by the Department to provide in-depth knowledge and hands-on training to the participants to enhance their skills in the field of cyber security.
- ❑ The Department conducted a felicitation ceremony for CCNA Module 1 in which 17 students were awarded certificates from Dr Latika Singh, HOD CSE&IT for successfully completing the Module 1 of CCNA.

### Society Activities

- ❑ A very energetic ice-breaking and orientation session was conducted by the Google Students' Club (GSC) on 21 September 2015. The Google Students' Ambassador (GSA) Palash Chhabra welcomed the newly appointed extended team members of the club. The newly appointed President (alpha) of the GSC, Rishabh Nainani and Vice-President (beta), Artika Manchanda along with the core team conducted various team building activities to make students comfortable. The faculty champs, Ms Jyotika Pruthi and Ms Mehak Khurana welcomed all the new members and wished good luck to everyone associated with the Google Students' Club.



*Google Students' Club members*

- ❑ The Google Students' Club conducted the interviews for its extended team members on 17 September 2015. The GSA Palash Chhabra gave a brief description on the Google Students' Club activities and events. Ms Jyotika Pruthi, President (alpha) Rishabh Nainani, Vice-President (beta) Artika Manchanda and the core team conducted the interviews.

### Faculty Activities

- ❑ Dr Latika Singh and Mr Anil K Mishra visited ANNIK Technologies Services Pvt Ltd, Gurgaon on 8 September 2015 to have a meeting with Mr Anuj Saini, Head- IT, ANNIK. The meeting was held to discuss about the placements of BTech (CSE/IT) students, providing support to the existing research groups in the Department and to build a long term relationship with the firm. The meeting was successful and a high level team from ANNIK Technologies would visit NCU regarding above mentioned issues shortly.
- ❑ Dr Vijendra Singh visited Accenture Private Ltd, Gurgaon to have a discussion with Mr Vishal Kapil, Director Digital, eCommerce, Content & Ops, Accenture, Gurgaon. The meeting was held to discuss about a guest lecture on 'Digital and Digital Services- A Case study of Digital Transformation Execution' in the University.

Dr Singh was also appointed a member of the reviewer board of International Conference on Soft Computing in Data Science (SCDS) 2015, at Malaysia, held on 2-3 September 2015.

- ❑ Dr Charan Kumari has been invited for a talk on 'Software module clustering using hyper-heuristics' at 43rd CREST Open Workshop, which is going to be held at University College London, UK on 26 and 27 October 2015.

## Department of Civil and Environmental Engineering

### Departmental Activities

#### Guest Lectures

- ❑ The Department organized a guest lecture on the importance of competitive exams for Civil Engineers by Mr Kumar Lal Babu from Central Public Works Department, on 26 August 2015. Mr Babu discussed about the exams like GATE, IES, PSU and focused on the importance of basics learnt in Civil Engineering curriculum. He guided on how to crack such competitive exams. The lecture was attended by third year Civil Engineering students and was coordinated by Ms Prachi Sohoni. [CEE2015G009]



*Mr Kumar Lal Babu delivering a lecture on importance of Competitive exams*

- ❑ Mr Satish Vij was invited on 14 September 2015 to deliver a special lecture on 'Current scenario and future development of railways in India' and 'Role of ASCE in shaping future of Civil Engineering'. Mr Vij has an extensive experience of about 42 years as an Indian Railways Services officer. He has also led the efforts in developing rail networks in Iraq and Italy.

During the lecture, Mr Vij enthusiastically interacted with the students of the Civil & Environmental Engineering and guided them to achieve excellence in their future endeavours. [CEE2015G010]

- ❑ The Department organized a guest lecture on 'Glimpses of Civil Engineering in the Industry' by Mr Rajeev Sharma and Mr Arnab Bhattacharya on 23 September 2015. Mr Sharma is currently working as Department Manager for Civil & Structural group at Fluor, India Office and has more than 20 years of experience in the engineering, procurement and construction (EPC) industry for Indian as well as international projects. Mr Bhattacharya has more than 10 years of experience of in Oil & Gas, Metals & Minerals industry and is currently a Structural Design Engineer at Fluor India.

The lecture focused on brief of EPC industry and opportunities for fresh graduates in the industry. The speakers emphasized on the importance of basic concepts in the industry that students learn in colleges. The knowledge sharing lecture was attended by the final year students of the Department of Civil & Environmental Engineering. The session was coordinated by Ms Vaishali Sahu. [CEE2015G011]

### Alumni Interaction

Our alumni, Mr Harsh Bansal (2012 batch) and Ms Avni Sabhani (2013 batch) working in Chicago Bridge & Iron Pvt. Ltd. as Civil & Structural Engineers, interacted with Civil Engineering students on 16 September 2015 to guide them about importance of software learning and its perspective in private sector. The guest speakers discussed the criterion for getting into CB&I and guided students about preparation for technical rounds. The students were also informed about the type of projects they might be working on.

### Primavera workshops

The Department organized a series of the Primavera workshops on every Thursday for a duration of 6 weeks. The workshop which commenced from 10 September 2015, aims at providing a certified training to the students of BTech final year and MTech students. It will provide a working knowledge of the Project Management software which is a 'must know' before they step into the industry.

### Faculty Activities

Dr Amit Srivastava, Associate Professor & Head, Department of Civil & Environmental Engineering visited University of Warwick, Coventry, UK to attend an International Symposium on Geohazards and Geomechanics (ISGG – 2015) and to present his paper on 'System reliability analysis of granular filters for protection against piping in dams'.

## Department of Mechanical Engineering

### Departmental Activities

#### Guest Lectures

- The Department organized a guest lecture on the topic 'Stirling Engine –The Forgotten Primemover' by Dr Bhupinder S Gill, Director, Manav Rachna Innovation and Incubation Centre in Manav Rachna Educational Institutions, Faridabad, on 18 September 2015. The event was coordinated by Dr Rohit Singh Lather. [MED2015G001]

### Workshops/ Seminars Organized

- The Department, in collaboration with Mitsubishi Electric India Ltd., organized a one-day workshop on 'Basics of PLC' on 28 August 2015 for BTech students of the University which was attended by faculty and twenty students. The workshop was conducted by Ms Ripanjeet Kaur, Sr Engineer from Mitsubishi and Mr Pradeep Rohilla, Assistant Professor NCU. The event was coordinated by [MED2015WO002]



Ms Ripanjeet Kaur from Mitsubishi with students and staff of NCU

- The Department conducted webinars on 'Lean Manufacturing' and 'Product Design' on 26 and 29 August 2015. The webinars were conducted by Dassault Systemes R&D Centre. [MED2015WO003]
- SAE organized a seminar on 'Portable 3D scanning technology' on 28 August 2015 which was delivered by Mr Surbhit Arora, Regional Manager of North India, Creaform. A presentation was shown to the participants that depicted all the events held under SAE earlier. This was followed by a presentation by the guest speaker on the various aspects of 3D scanning. It was an enriching session for the audience. [MED2015WO004]
- SAE-NCU organized a seminar on 'Using Solidworks flow simulation' on 1 September 2015. The seminar was delivered by Mr Sumit Kapoor from IRIS HITECH, Delhi. [MED2015WO005]



Mr Surbhit Arora delivering a session on Portable 3D scanning technology

### Alumni Interaction

- The Department organized an interactive session on 'Prospects & Career opportunities for Mechanical Engineers in Sales & Marketing' for B Tech 2nd and 3rd year students on 11 September 2015. The session was delivered by our alumnus Mr Ritesh Sethi of 2006-2010 batch who is working as an Assistant Manager-Sales, Misumi India Pvt Ltd, Gurgaon. Mr Sethi discussed the current market scenario and conveyed his ideas about the job opportunities in his field. As an outcome of this session Mr Sethi agreed to be a mentor for the group of students who are making ATV for Baja and Supra event of SAE. The session was coordinated by the Department alumni coordinators, Mr Anmol Bhatia, Mr Gagan Baradia and Ms Renu Sharma. [MED2015G002]

### Other Activities

- A team from M/s Bharat Gears Limited comprising Mr Sandeep Bathla, Operations Head, BGL; Mr Rakesh, Maintenance Manager, BGL; and Mr Ashok, Manager-Engineering, BGL evaluated the BTech projects of three final year students on 19 September 2015 who are doing their BTech projects at BGL, Faridabad. [MED2015O004]

### Faculty Activities

- Professor Ravindra Ojha, Director SOET, NCU attended the 'Research Excellence India Citation Awards 2015' conducted by Thompson Reuters on 18 September 2015. Thompson Reuters is scheduled to open an office in Gurgaon in near future and could facilitate NCU in patent writing and filing. [MED2015O003]
- Mr Lalit Upadhyay attended the 10th National Quality Conclave organized by Quality Council of India, held at Siri Fort Auditorium, New Delhi, on 7 August 2015. The theme of the conclave was 'Creating an Ecosystem for World Class Quality in India'. [MED2015WA001]

## Department of Applied Sciences

### Departmental Activities

#### Industrial Visits

- ❑ SPIE-Student Chapter NCU organized an educational visit to Nehru Planetarium and an exhibition on Laser World of Photonics (India-2015) at Pragati Maidan, New Delhi on 11 September 2015. Around 50 students along with three faculty members, Dr Sunanda Vashisth, Prof. AK Yadav and Mr Naman Joshi. The students learnt about the space search and witnessed a show on the evolution of solar system. The students also visited the Nehru museum and learned about the history of the Indian independence movement.

The students later visited Laser World of Photonics at Pragati Maidan. They learnt various aspects and applications of lasers like laser cutting systems, welding systems, marking series, texturing equipment, engraving etc. [APS2015V005]

- ❑ An industrial visit to Andritz Hydro, Palwal was organized by the Department on 23 September, 2015 for Mechanical 2nd year & 3rd year students. Andritz Hydro is a global supplier of electromechanical systems and services for hydropower plants and one of the leaders in the world market for hydraulic power generation.

The students visited the different sections of the company like raw material procurement section, heat treatment section & machining section. The students observed the manufacturing processes of turbines including plasma arc cutting, rolling, welding, grinding, test rig. In addition to these the rehabilitation center was also shown to the students. The students were very enthusiastic and their queries were answered by Mr Himanshu Sharma (Team member-Project Management department).

The visit was very useful for the students as they were able to link the theoretical concepts with the practical techniques that they studied with the production process done in the company. As an outcome of the visit, the company has agreed to provide industrial training as feasible. The visit was coordinated by Mr Anmol Bhatia (ME Dept.) & Dr Sunil Hans (APS Dept.) [APS2015V006]



Students at Andritz Hydro, Palwal

#### Faculty Activities

- ❑ Dr Sanjay Yadav attended the International Congress on Industrial and Applied Mathematics (ICIAM-2015) at Beijing, China from 10 - 14 August 2015. The topics of the Conference were computational fluid dynamics, numerical analysis computational science etc. The Conference provided a good platform for the networking

opportunities and interactions with different eminent participants, researchers and delegates and exposure to recent innovations, ideas and developments to identify future research on Applied Mathematics. [APS2015C009]

- ❑ Dr Sunita Sharma visited the Materials Science Group of Inter-University Accelerator Centre, New Delhi on 21 September 2015 for technical discussion with Dr Fouran Singh (Scientist-F) for her research work on solar cells. She also had hands-on experience on characterization of samples using Scanning Electron Microscope (SEM) in the laboratory of Dr Ambuj Tripathi (Scientist G). [APS2015O001]
- ❑ Dr Sangeet Srivastava delivered an invited talk on 'Climate Change induced Health Risks Assessment: A Modeling Perspective' during a workshop on 'Understanding Climate and Health Associations in India', on 23 September 2015 at Hotel Royal Plaza, New Delhi. The workshop, scheduled from 22-24 September 2015, was sponsored by National Institute of Environmental Health Sciences (NIEHS), US Department of Health and Human Services and was attended by 40 participants from various institutes in India.
- ❑ Ms Pranati Purohit, Assistant Professor has been awarded PhD from Sambalpur University, Odisha on 14 September 2015. [APS2015H004]

## News from the School of Management

### Departmental Activities

- ❑ A 'Career Counseling and Professional Advancement Session-CPA & CMA' was organized for BCom final year students of SOM on 16 September 2015. The session was conducted by Mr Vikas Khosla, Regional Manager, North and Mr Nabeel Ahmed, Manager-Business Development Miles Professional Education-CPA & CMA Review, New Delhi.
- ❑ The Centre of Creativity, Innovation and Entrepreneurship conducted the first 5-day workshop on Creative Leadership and Innovations for Dean's list students. The workshop was conducted by Mr Pravin Rajpal, founder InnovatioNext from 16-22 September 2015. The objective of this workshop was to transform the students into creative leaders with innovative business projects. The workshop was coordinated by Ms Jaya Ahuja and Ms Palak Mehta.



Students participating in Workshop on Leadership and Innovation

- ❑ The Summer Internship presentations of BBA, BCom, BSc Eco (H) and MBA students were successfully conducted on 18 and 19 September 2015. The viva-voce of these students will be held during October 2015.

### Faculty Activities

- ❑ Dr Nirupma Gupta attended a two-day Faculty Development Workshop on 'Research Paper Writing and Publications in Management' organized by MDI Gurgaon on 26-27 August 2015. It was an excellent opportunity to learn current practices being followed in publication, improve the quality of research papers written and to develop a focused approach to research by sharing the experiences with learned panel members. [SOM2015AW009]
- ❑ Dr DR Agarwal was invited by GD Goenka University, Gurgaon to chair one technical session in 2nd International Case Conclave ELIXIR, held on 4 September 2015. His comments on various papers were well received by the participants.  
Dr Agarwal was also invited by the said University to act as external examiner to evaluate the summer internship reports of MBA final year students on 17 September 2015.
- ❑ Ms Tripti Sangwan attended a Seminar on 'Progress of Make in India: The way forward for scripting India's growth story' organized by the PHD Chamber of Commerce and industry at New Delhi, on 23 September 2015. The seminar was organized to throw light on the accomplishments as well as discuss the issues and challenges faced by the businesses that are to be addressed by the 'Make in India' campaign.
- ❑ Ms Karishma visited Attero Recycling Pvt. Ltd., Noida on 1 September 2015. Attero Recycling is pioneer in e-waste recycling in India.
- ❑ Ms Mansi Khurana successfully defended her PhD thesis on 'Bias Reduction in shrinkage estimators using resampling methods in linear regression models'. She completed her PhD (Statistics) from Banasthali University, Rajasthan.
- ❑ A Pre-PhD seminar of Ms Irameet Kaur, Research Scholar, School of Management, was held on 14 September 2015. The topic of seminar was 'A Paradigm Shift in Education Management-Application of Emotional Intelligence and Social Media based Human Resource Practices.' Her SRC members are Dr Nirupma Gupta (Chairperson), Dr Charu Shri (Supervisor) and Dr KM Mital (Subject Expert).



*National Seminar on Real Estate Laws: Issues vs Policy*

The list of eminent speakers at the seminar included Mr Rohit Bajaj, Head & Partner, Real Estate Team, AZB & Partners, Noida; Mr Sacchin Puri, Advocate, New Delhi; Mr Ravi Chawla, Advocate, Delhi High Court, New Delhi; Mr Punit Bhuwania, Sr Associate, Real Estate Team, Khaitan & Co., New Delhi; and Prof. Saligram Bhatt, NCU Law School who shared their views on different aspects related to real estate laws.

Students from various Law Schools across the country presented their research papers in three consecutive sessions which were chaired by Prof. Saligram Bhatt, Dr Arvind P Bhanu, Dr Rahul Nikam and Dr Ritu Gupta, all from NCU Law School. Certificates to the participants were also distributed. [SOL2015S009]

### Training Sessions

- ❑ Ms Sonal Singh, Sr Instructor, Global Voice, Chandigarh, conducted a demo session to offer a course on Advocacy Skills on 11 September 2015. The objective of the demo session was primarily to demonstrate the methodology used by Global Voice. Ms Singh covered the topic 'Assertive Behaviour' for the session, an important module for aspiring lawyers. Moreover, it also covers the aspects of communication, group discussion and team work. The proposed course curriculum is designed by the content development team of Global Voice in consultation with the senior industry professionals. [SOL2015S007]



*Ms Sonal Singh conducting training on Assertive Behaviour*

- ❑ Mr Pankaj, Sr Manager-North, Manupatra, accompanied by Mr Dinesh Kumar conducted a training session on accessing Manupatra Online Legal Database for Law students on 14 September 2015. Manupatra is a 15 years old online database, which contains bare acts, e-books, e-journals, international database, e-newsletters, judgements of all High Courts and Supreme Court of India. New added dimensions with user friendly approach in Manupatra were elaborated to the Law students by the team. [SOL2015S008]

## News from the School of Law

### Departmental Activities

#### National Seminar on Real Estate Laws

- ❑ With an aim to invite research papers on Real Estate Laws in India from students across various Law Schools, School of Law organized a National Seminar on 'Real Estate Laws: Issues vs. Policy' on 19 September 2015. Prof. Pushpesh Pant, Dean and Professor, NCU Law School delivered the welcome address and stressed on the need of effective policy to regulate Real Estate issues. While addressing the students and invitees, Prof. Prem Vrat, Pro-Chancellor, NCU stated that it is the high time for the legislature to draft an effective policy especially for low cost housing to provide affordable houses to the general public.



### Legal Awareness Camp on 'Right to Education & Domestic Violence'

The Legal Services Society of NCU Law School, under the guidance of Dr Ritu Gupta organized a one day literacy seminar on 28 August 2015 as a part of its Legal Awareness Drive '15 wherein students of Govt. Law School, Village Carterpuri, Gurgaon were addressed on extremely relevant subjects in today's scenario viz. 'Right to Education' and 'Domestic Violence'. In addition to giving the talks, a team of final & pre-final year students of our Law School presented a role play highlighting the atrocities faced by women today. The play concluded with a message to the young audience, to raise their voices against all evils of the society, to stand tall, to think big and to be the change you wish to see in the world. [SOL2015S006]



Legal Awareness Camp on Right to Education & Domestic Violence

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

- School of Professional Attachment (SPA) conducted a Group Discussion (GD) competition, Soch-Vichar 2 on 28 September 2015, for students from all the three schools of the University. After the success of Soch-Vichar 1, there was great excitement and enthusiasm amongst students which was reflected by the huge participation of 186 students. The event was graced by the presence of Prof. Prem Vrat, Mr Ravinder Ojha, Mr Praveen Lohchab, and Director SPA, Mr BK Gupta. Two senior professionals, Mr Vivek



Narain and Mr Rohit from a consulting firm Inception Group, Gurgaon and two alumni also came to evaluate students and address them for sharpening up their employability skills. Our alumni, Mr Pulkit Garg working with fidelity and Ms Sanjan Wadhwa from Orange also shared their views on their journey from campus to the corporate world.

- As a regular practice, SPA conducted Pre-Placement Interviews for the passing out students of MSc (Mathematics) and MTech (CS) 2016 batch. The objective of this exercise was to give students the simulated effect of real interviews.
- Mr Sthal Samir Khushu, student of Computer Science Engineering has raised banner of NCU high with his selection in Indian Army at Officers Training Academy, Chennai.
- SPA continuously keeps on providing opportunities to students to showcase their skills on different platforms and at highly competitive levels. In one such initiative, SPA rolled out an opportunity of Google coding competition, Hackathon 2015 in which our student Pranav Jain, 3rd Year BTech (CSE), got shortlisted and went for the final round to Tech Mahindra office, Noida. In the final round on 27 September 2015, the participants were invited for 15 hours continuous coding. We take immense pride to share that Pranav Jain and his team were awarded Winners in the Hackathon 2015 competition. The winner teams were felicitated by PM Mr Narendra Modi over a group Video Call from Google Campus US.



### Research Papers Published

#### Call for Research Proposals and Fellowships

- **Call for DST Early Career Research (ECR) Award**  
DST Young Scientist Scheme which has now been revised as Early Career Research (ECR) Award, provides opportunities to young scientists (below 35 years, relaxable by 5 years for women) for pursuing exciting and innovative research in frontier areas. The Early Career Research Award is a one-time award and carries a research grant up to INR 50 Lakhs (excluding overheads) for a period of three years. The applicant should hold PhD degree in Science or Engineering and must apply not later than the first two years of their regular service. The call for applications will be made three times a year (January, May and September) and will be submitted at SERB online portal: <http://serbonline.in/SERB/HomePage.do>.
- **Call for Prime Minister's Fellowship Scheme for Doctoral Research**  
The Prime Minister's Fellowship Scheme for Doctoral Research is a public-private partnership (PPP) between Science & Engineering Research Board (SERB), under the Department of Science and Technology (DST). To apply for the fellowship, the applicant must have registered for full-time PhD within 14 months from the date of submission of applications. The applicants must firm up their alliance with industry before applying. Duration of the Fellowship is four years. Applications can be submitted anytime, but only in online format, at <http://primeministerfellowshipscheme.in/Home.aspx>

## Books National

- ❑ **KM Mital, Prem Vrat** and Sushil (2015) 'Flexible Human Resource Planning: Principles and Applications', New Age International P Ltd, ISBN - 9788122440690, **SOM2015B001**.



12. Mohit Ahlawat and **Naresh Kumari** (2015) 'Wind Energy Scenario: A Survey', Journal of Alternate Energy Sources and Technologies, Vol. 6, No. 2, pp. 12-18, **ECE2015J053**.
13. Parul Puri, Parul Garg and **Mona Aggarwal** (2015) 'Partial Dual-Relay Selection Protocols in Two-Way Relayed FSO Networks', IEEE Journal of Lightwave Technology, pp. 1-7, **ECE2015J054**.
14. **Jagdeep Kaur** and Pradeep Tomar (2015) 'Multi Objective Optimization Model using Preemptive Goal Programming for Software Component Selection', International Journal of Information Technology & Computer Science (MECS Publisher), Vol. 7, No. 9, pp. 31-37, **CSE2015J041**.
15. Sonakshi Dahiya and **Yogita Gigras** (2015) 'A Survey on Knowledge Acquisition Model and Approaches', International Journal of Artificial Intelligence and Knowledge Discovery, Vol. 5, No. 3, pp. 18-21, **CSE2015J042**.
16. **Anuradha, Yogita Gigras**, Kavita Choudhary and Pratibha (2015) 'Performance Analysis of Dimensionality Reduction Techniques: Linear Vs. Non Linear', International Journal of Artificial Intelligence and Knowledge Discovery, Vol. 5, No. 3, pp. 37-41, **CSE2015J043**.
17. **Anuradha** and Kshitiz Adlakha (2015) 'Recapitulation of Ant Colony and Firefly Optimization Techniques', International Journal of Bioinformatics and Biomedical Engineering, Vol. 1, No. 2, pp. 175-180, **CSE2015J044**.

## Conference Proceedings

### International

1. Monika Singh and **Amanpreet Kaur** (2015) 'An Efficient Hybrid Scheme for Key Frame Extraction and Text Localization in Video', ICACCI-2015, pp. 1250-1254, **ECE2015P011**.
2. **Shaveta Arora**, M Hanmandlu, **Gaurav Gupta** and **Latika Singh** (2015) 'Enhancement of Overexposed Color Images', 3rd International Conference on Information and Communication Technology (27-29 May 2015), pp. 207-211, **ECE2015P012**.
3. Neetu Chahal and **Anuradha Dhull** (2015) 'A Study on Agricultural Image Processing along with Classification Model', International Advance Computing Conference (IACC 12-13 June 2015), pp. 942-947, **CSE2015P027**.

## Conference Presentations

### National

1. **Srishty Banerjee** (2015) 'Significance of Human Rights Approach to Fight Against Corruption: An Analytical Study of National and International Perspectives', National Seminar on Corruption and Black Money, Rajiv Gandhi National University of Law, Patiala, **SOL2015C011**.
2. **Subhradipta Sarkar** (2015) 'Ensuring Accountability in Disaster Response: A Critical Issue of Responsible Governance', National Seminar on Corruption and Black Money, Rajiv Gandhi National University of Law, Patiala, **SOL2015C012**.
3. **Sharda Vashisth**, Munna Khan, Ritu Vijay and Ashok K Salhan (2015) 'Carotid artery blood flow response to G- stress: computer simulation', 55th Annual Conference of Indian Society of Aerospace Medicine, National/Indian Society of Aerospace Medicine, IAF, Bangalore, **ECE2015C003**.

## Journals

### International

1. **Ashutosh Pandey**, Himanshu Pandey and Dileep Kumar (2015) 'A study of EOQ Model with Ramp Type of Demand', International Journal of Scientific and Innovative Mathematical Research (IJSIMR), Vol. 3, No. 7, pp. 36-42, **APS2015J017**.
2. **Megha Kalra, Garima Srivastav** and Atul Thakur (2015) 'The study on use of rice husk ash', International Journal of Science and Engineering, Vol. 3, No. 1, pp. 85-88, **CEE2015J012**.
3. **Purnima Bajpai** (2015) 'Subcontractor and vendor selection model using data development analysis', International Journal of Science Technology and Management, Vol.4, No.1, pp.105-111, **CEE2015J013**.
4. **Ankit Pachouri** and **Prachi Sohoni** (2015) 'Analysis and design of pre-engineered building and conventional building: A comparative study', Journal of Structural Engineering and Management, Vol. 2, No. 3, pp. 22-26, **CEE2015J014**.
5. **Anil Kumar Misra, Ankit Pachouri** and Amandeep Kaur (2015) 'Watershed Management Structures and Decision Making Frameworks', Water Resources Management (Springer), Vol. 29, No. 13, pp. 4849-4861, **CEE2015J015**.
6. **Jiveta Chaudhary** and **Shilpa Sindhu** (2015) 'Modelling the Enablers of Innovative Leadership: An ISM Approach', International Journal of Innovations in Engineering and Management, Vol. 4, No. 1, pp. 65-74, **SOM2015J009**.
7. Rubi Khan and **Shilpa Sindhu** (2015) 'An Investigation of Advertising Appeal on Consumer Response in Service Advertising', Management Studies and Economic Systems (MSSES), Vol. 2, No. 1, pp. 39 -50, **SOM2015J010**.
8. **Ritwik Basu**, MA Mohtadi-Bonab, Xu Wang and Mostafa Eskandari (2015) 'Role of microstructure on phase transformation behavior in Ni-Ti-Fe shape memory alloys during thermal cycling', Journal of alloys and compounds, Vol. 652, No. 1, pp. 459 -469, **MED2015J016**.
9. Aakansha Barala, **Pooja Sabherwal** and **Nandlal Yadav** (2015) 'Analysis of Operational Transconductance Amplifier using 180 nm Technology CMOS Process', Journal of Microelectronics and Solid State Devices, Vol. 2, No. 2, pp. 10-13, **ECE2015J050**.
10. Rishika Kaloniya and **Pooja Sabherwal** (2015) 'ECG signal recordings analysis for detection of sleep apnea', International Journal of Enhanced Research in Science Technology & Engineering, Vol. 4, No. 6, pp. 228-235, **ECE2015J051**.
11. Pankti Brar and **Sharda Vashisth** (2015) 'Piezoelectric sensor to non-invasively detect age associated changes in human carotid pulse', Int. J. Biomedical Engineering and Technology, Vol. 19, No. 1, pp. 40-52, **ECE2015J052**.

## Sports

### Sports Tournament at NCU

The University's Inter-Department Sports Tournaments for the session 2015-16 continued with another set of games. The tournaments included Basketball, Badminton and Lawn Tennis competitions that were held from 14-25 September 2015. Teams from all the three Schools of the University participated with full zeal and showcased their sports skills. The tournament was graced by the presence of Registrar, Col Bikram Mohanty (Retd).



The results were as follows:

Event	Boys		Girls	
	Winners	Runners up	Winners	Runners up
Basketball	ME	SOM	EE/ECE	SOL
Badminton	SOM	MTech	SOL	ME
Lawn Tennis	ME	SOM	CSE	SOL

## Student Activities

- A team of 25 Mechanical Engineering students has been formed to participate in the SUPRA SAEINDIA National competition - an event that challenges young minds to compete as teams in designing a Formula category vehicle. The competition is to develop a vehicle consisting of various sub systems, meeting engineering specifications, timelines and above all meeting safety standards. Team building activities for SUPRA team has been undertaken by SAE council on 17 August 2015 to understand the importance of team work, right strategy, presence of mind, enthusiasm etc. [MED2015O005]



- Society of Automotive Engineers of NCU has formed the SAE council. SAEINDIA is a professional engineering society whose membership represents practically every engineering and scientific discipline. Its members combine their specialized abilities to further advance the research, development, design, manufacture and utilization of vehicles which operate on land, water, air and space.
- Mohit Yadav, President SPIE student chapter, NCU and Shubham Sehgal, Student Member attended 19th International Symposium on VLSI Design and Test - VDAT 2015 at Nirma University, Ahmedabad from 26-29 June 2015. They attended the tutorial on Cadence VLSI Design tools. Both the students received a grant for their participation in the symposium by the SPIE Student Chapter at NCU. The vision of the symposium was to provide an active platform to present the research outcomes, share new research ideas and to cultivate new thoughts for research scientists, academicians, practitioners and young students throughout the world.
- The E-Cell student membership was reconstituted with the new members Akshay Gera (ME), Abhishek Kumar (CSE/IT) and Priyanka (ECE) being taken in. Akshay Gera was nominated to represent the E-Cell of NCU on an invitation from IIT-Delhi's E-Cell members for a meeting, which was attended by participants from various colleges of Delhi University and GGSIP University. Mr Ankur Bhamra, President of IIT-D E-Cell offered all E-Cells to synergize in order to form a better network, more capable and resourceful system of interlinked E-Cells.
- A team of three students from School of Law participated in ALSA International Moot Court Competition, 2015 held from 19-23 August 2015 at Jakarta, Indonesia. The NCU team comprising Suyash Srivastava, Sai Phanindra Kumar and Sobir Garg (all of 4th year BBA-LLB) stood at 8th position with total Memory Score of 75 of which the highest was 80.5 and Oral Score of 73.5 of which the highest was 81.5. A total of 16 teams from six different countries participated in the competition. This is the first Law students event we have participated in a foreign country.
- Vishnu Tandri, student of 4th year BBA LLB received the Best Campus Ambassador award from India National Bar Association for excellent work in legal industry.
- A team of 10 students from NCU volunteered to help organize the T10 Sports Corpo Jumble 2015 – an inter-corporate running challenge. The event was organized to promote running and spreading awareness about staying fit, thereby helping the underprivileged children to showcase their talent in running.
- NCU's Theatre Society, Abhimanch participated in NIT Kurukshetra's Annual Fest which took place from 12-13 September



2015. Abhimanch's Street and Stage Play teams represented the University in the fest and were appreciated by the audience and judges. The Street Play team emerged victorious under the leadership of Shashi Suman, whereas the Stage Play team secured the 3rd place under the able guidance of Ankita Meher.

- ❑ Abhishek Shanker (BTech-IT Final Year) has been awarded a Grand Prize of a US\$ 5000 for a trip to Japan at the Canon Photo

Marathon, India, 2015 for attending the Photo Clinic in Japan. Abhishek has a keen photographer's eye which helps him express about his surroundings in a much more creative and a meticulous way.



## Outreach Activities of Prof. Prem Vrat

### Pro-Chancellor and Professor of Eminence

- ❑ Prof. Prem Vrat attended the Teachers Day celebrations at UPTU, Lucknow as the Chief Guest, on 5 September 2015. The event was presided by the Minister of Technical Education UP. Prof. Vrat was honoured by the Hon'ble Minister and the Vice-Chancellor with a Plaque; shawl and citation for his outstanding contributions to the cause of Technical education.



- ❑ Prof. Prem Vrat delivered lectures on Decision Theory at IIT Delhi on 12 and 19 September 2015 as an Honorary Professor of IIT Delhi. He also delivered a lecture on Multi-criteria Decision Making on 26 September 2015 as an Honorary Professor of IIT Delhi.

- ❑ Prof. Prem Vrat attended the Academic Committee Meeting of Maharaja Surajmal Memorial Educational Society at Maharaja Surajmal Institute of Technology (MSIT), New Delhi on 12 September 2015.
- ❑ Prof. Prem Vrat participated in the 7th Annual G20 Conference on 'Indian Council for Research on International Economic Relations' at India Habitat Centre (IHC), New Delhi on 14 September 2015.
- ❑ Prof. Prem Vrat attended the meeting of the Advisory Group of Experts on Dedicated Freight Control' in the Railways at Niti Aayog, New Delhi on 15 September 2015.
- ❑ Prof. Prem Vrat attended the meeting of Uttar Pradesh Technical University (UPTU) at Galgotia Hotel and Resort, Gurgaon on 21 September 2015 as a committee member for preparing the Detailed Project Report (DPR) for setting up advanced institute of technology under UPTU.
- ❑ Prof. Prem Vrat attended the 68th Air India Board meeting as an Independent Director of Air India at Air India Headquarter, New Delhi on 28 September 2015.

## Outreach Activities of Pro Vice-Chancellor



**Brig. SK Sharma**  
Pro Vice-Chancellor and  
Sr Professor

- ❑ An article by Brig SK Sharma (Retd) on 'Guiding students on the Path to Excellence' was published in Higher Education Review September 2015 issue. The text of the article can be accessed at <http://www.theher.in/magazines/HER-Sep-2015/index.html>
- ❑ Brig SK Sharma (Retd) attended a two day round table conference of vice-chancellors of private universities, organized by Association of Indian Universities (AIU) at GLA University, Mathura on 15-16 September 2015. He also chaired a session on 'Financial Visibility and Accreditation Issues' during the Conference.



**Published by :** Editorial Cell, THE NORTHCAP UNIVERSITY, Gurgaon  
Tel.: +91-124-2365811 to 13 Email : [newsletter@ncuindia.edu](mailto:newsletter@ncuindia.edu)  
Graphic Designer : Mr Lalit Narayan Lal

