

# Newsletter



Vol. 89 March 2019

## THE NORTHCAP UNIVERSITY

(For internal circulation only)

### NCU Activities

#### Inauguration: NCU Bridge Club

Game of Bridge is the king of mind sport, recognized by the Government of India and Association of Indian Universities. The NCU Bridge Club was inaugurated by Shri. Kawaljit Singh, Vice President, Bridge Federation of India on 6 Feb 2019 in the University. He addressed, as the game is meant for all ages it can help in improving skills in maths, logical thinking, inferential and sequential reasoning, problem solving and decision making among the students. Col. Bikram Mohanty, Registrar, NCU shared, how the game has been internationally supported by the philanthropists Bill Gates and Warren Buffet which motivated students to learn and excel in the game. Mr Diptendu Roy coordinated the event.



#### Career Counselling

A career counselling session was conducted at Government Girls College, Jatauli Hailymandi, Gurugram for the final year students of BSc(H) Mathematics on 16 March 2019. Around 60 to 70 students from Mathematics background attended the session which was conducted by Dr Anshu and Dr Seema Thakran, Department of Applied Sciences. (APS2019O008)



#### Annual HUDA Flower Festival

With the continuous support and uncountable dedication of our gardeners in making pots, growing flowers and protecting them every season, the NorthCap University has been awarded with the First Prize for the 18th time in the Annual HUDA Flower Festival under 'Educational Institutional category' which was organized on 3 March 2019.



#### Technovation

Project Day 2019 - 'TECHNOVATION' was celebrated on 15 March 2019 in The NorthCap University, Gurugram to help students showcase their innovative ideas in the form of projects. A total of 19 ideas were converted to projects from all the three schools SOET (EECE, CSE, ME, CIVIL), SOM and SOL involving NEX, Design and Fabrication of Low Cost 3D Printer, Foamed Fly Ash Bricks and Smart-Lab System Based on Alexa etc. Prof. K L Chopra, Prof. Prem Vrat, Prof. H B Raghavendra, Prof. B Chandra, Prof. Swaran Ahuja and Dr





Sharda Vashisth reviewed and appreciated the projects of the students. The event was coordinated by Dr Sharda Vashisth, Head EECE and Ms Amanpreet Kaur, Assistant Professor, Department of EECE & the projects were coordinated by Mr Pankaj Rakheja, Dr Yogita, Dr Satnam Singh, Mr Shuham Bansal, Ms Aditi and Ms Pallavi Bajpai.



## Innovation and Entrepreneurship



An awareness session on 'Innovation and Entrepreneurship' was organized by Master Jagannath Centre of Excellence and Incubation on 28 March 2019 attended by 492 students from SOET, SOM and SOL. The eminent speakers like Mr Praveen Dwivedi, Chief Sales Officer – Novatium Solutions Pvt Ltd, Mr Ankur Mishra, Founder & Director - ForeanTech & Mr Sameer Talwar, Founder & Director – 3 Online Hospitality Educating and Consulting Firms were called with an aim to expose the students for an entrepreneurship development process and give them basic understanding on strength and opportunity identification and framework for starting a new enterprise. The event was coordinated by Dr Esha Jain and Ms Kanika Gupta.

## SPIC MACAY

The Society for the Promotion of Indian Classical Music and Culture Amongst Youth, (SPIC MACAY) is a movement that promotes Indian classical music, Indian classical dance and other aspects of Indian culture.

The SPIC MACAY NCU Chapter organized a programme 'NCU Got Talent' on 18 March 2019 at the NCU, bringing vivid liveliness with the captivating and

soulful rendition through dance, music and poetry by the students. Students who participated were Akshita Jain (Dance), Harshit Chugh (Singing) and the Bhangra Group comprising of Gagandeep, Sheetal and Sahi.



## Women's Day 2019

The NorthCap University celebrated International Women's Day on 8 March 2019 where the faculty, staff and students rejoiced together. To honour the theme #BalanceforBetter, dress code of blue-men and pink-women was followed which lend an aesthetic appeal to the crowd. Laced with performances from enthusiastic students, the event generated a lot of buzz with the dancing and soulful music with the excitement of games and activities. Students addressed the issue of domestic violence through a spirited theme dance and to create an awareness about healthy lifestyle, free consultation was given by Dr Shalini Bliss-Dietician from Columbia Asia.



## Vision Camp

The NorthCap University organized a camp in collaboration with Lenskart on 14 Mar 2019 to promote Healthy Vision. It was undertaken as a campaign with the expert intervention involving an eye clinic for checkup and advice. More than 100 students and 75 faculty members, administrative & technical staff were benefitted. It was coordinated by Dr Shilpy Wadhwa, Medical Consultant, The NorthCap University.





## A Trip to Manali

The Northcap University organized a trip to Manali for all the students of NCU from 8-12 March 2019. A total of 64 students from different schools & staff coordinators were a part of this fun filled adventure. The A/C Coach busses were flagged off on 8 March 2019 by the Vice Chancellor, Prof. H B Raghvendra.

The journey began with the fulfilled activities in the bus with an utmost excitement. The students after reaching, started with the trekking to Hadimba Temple, Mall Road and Buddhist Monastery. The enjoyment continued at Solang and river rafting at Kullu. The tiredness at night was indulged with Dj and bonfire. It was a warm end to an amazing experience and everyone were dropped at their respective places. The trip was coordinated by Mr Sudesh Kumar.



'Industry' was organized by the Department of EECE on 27 March 2019. Dean academics, HOD EECE, various faculty members, students of BTech 2nd & 3rd year and PhD scholars ECE attended the lecture. (ECE2019G001)

## Workshop

A hands on session titled "Embedded System Design using MATLAB" was organized by the Department of EECE on 29 March 2019 for the students of BTech, studying Embedded System Design as a part of their curriculum. The session was conducted by Mr PawanKumar Fakatkar, Education Technical Evangelist, MathWorks India. He discussed the capabilities of MATLAB and Simulink for embedded system design by demonstrating different applications. The event was coordinated by Dr Shaveta Arora, Ms Amanpreet Kaur and Mr Pankaj Rakheja.



## News from the School of Engineering and Technology

### Department of EECE

#### Career Counselling Session

Experts from Byjus organized a Career Counselling session for the students of ECE 6th Semester on 4 March 2019. Mr Abhishek Gupta, a career expert at Byjus conducted a one-hour session where he discussed about Indian and International educational opportunities through GRE



CAT/GMAT/UPSC/GATE exams and possibility of getting the seats. He taught the tricks to answer questions by reading just 20% of the comprehension. A team of about 8-10 career experts joined the student's groups to interact on their doubts. The session was coordinated by Dr Vandana Khanna and Dr Sharda Vashisth.

#### Guest Lecture

- ❑ A guest lecture on topic 'Industry 4.0' was organized for students of 6th sem, CSE on 7 March 2019. Mr Abhinov Chakraborty, Regional Manager at Sofcon India Ltd introduced Industry 4.0 (I 4.0) and discussed about all the generations of industrial revolution with the examples of newly launched Orient fan with IoT based features and unified factory line up of PepsiCo for filling Pepsi and Mirinda bottles through RFID readers. The lecture was coordinated by Dr Vandana Khanna.
- ❑ A guest lecture of Mr Vivek Dixit, GM Network solutions, Huawei Telecommunications, Gurugram on 'New Technology Trends in Telecom

### Department of CSE

#### Collaboration with Tunku Abdul Rahman University College

Tunku Abdul Rahman University College (TAR UC), Malaysia invited Dr Kavita Khanna and Ms Prerna Singhal to visit and explore the opportunities for students in their campus on 14 March 2019. Ms Chew Peck Hoon, Director-Department of International Student Office and Ms Lim Mei Shyan, Dean, Faculty of Computing and Information Technology presented various programmes running under the faculty of Computing and Information Technology, TAR UC. Both the parties acknowledged the increasing role of Data Sciences, Augmented Reality, Cyber Security and inter-disciplinary projects in shaping the future of Technology. (CSEO2019014)



### Guest Lecture

- I EI (Institution of Engineers, India) CSE NCU chapter has organized a lecture, delivered by Mr Manuj Chandra on the topic 'Environmental Awareness' on 13 March 2019 which was conducted by Mrs Hitesh Yadav and Mrs Neeti Kashyap. The main objective of the event was to inculcate the responsibilities towards the environment in the students. (CSEO2019012)



### Faculty Activities

- Dr Kavita Khanna and Ms Prerna Singal attended the Bett Asia 2019 held at Kuala Lumpur, Malaysia from 12-13 March 2019. BettAsia 2019 focused on 'Building a change culture to deliver 21st century learning', discussions around the transformation of education and exploring the innovations were done, inspiring change across the APAC region. (CSEO2019009)
- A session on 'Quantitative Aptitude and Ability' by Mr Sumit Mishra was organized for 3rd year students on 5 & 6 March 2019 and a session on 'Technical Profile Building' by Mr Abhishek Gupta, Career Expert, BYJUS, was organized on 5 & 14 March 2019. (CSEO2019010)
- Dr Jagdeep Kaur is selected to serve as a member of Technical Program Committee for the 3rd International Conference on Advanced Informatics for Computing Research (ICAICR-2019) to be held on 15-16 June 2019 in association with Springer CCIS organized by Deventure Shimla Hills, Solan Shimla National Highway, Kandaghat, Shimla. (CSEO2019011)
- Dr Kavita Khanna, Head of Department, CSE was invited to chair a technical Session in the International Conference on 'ICT for Digital, Smart, and Sustainable Development' organized by the Department of Computer Science and Engineering, School of Engineering Sciences & Technologies, Jamia Hamdard, New Delhi on 15 March 2019. (CSEO2019013)

## Department of Civil & Environmental Engineering

### Alumni Interaction

Mr Abhishek Choudhary (Batch 2010-2014) interacted with students of II and III year to enlighten them about the 'Skill Requirement and Development for Civil Engineers'. He is presently working as Quantity Estimator in Virtual Employees and has shared his experience of skill development at sites at various stages. He mentioned importance of learning by self and development of a skill set to increase employability. He suggested students to learn some basic software like Auto-Cad and other advanced software like PRIMAVERA. He discussed the importance of summer internship for Civil Engineering Graduates as it is the best opportunity to learn the practical application of the Civil Engineering concepts discussed in the classrooms. He motivated students to invest in self learning with the practical knowledge. He also

suggested them to read newspaper to keep them updated with the latest techniques and trends. (CEE2018O030)

### Workshop



A one-day workshop titled 'Outcome Based Education in Civil Engineering' was organized on 26 March 2019 by the Department of Civil and Environmental Engineering. Dr Deepak T J, Associate Professor, Linton University College, Malaysia addressed the audience on the Outcome Based Education and its importance in the industrial sector with the Continuous Quality Improvement (CQI) programme for the students.

### Guest Lecture

A guest lecture and research meeting was organized for the students of Civil Engineering from Mr Vidya Sagar, PE, PMP, AECOM, Project Manager, Maryland Aviation Administration, USA on 1 March 2019 by the Department of Civil & Environmental Engineering. The programme was coordinated by Dr Archanaa Dongre (HOD, C&EE) (CEE2018G005)



### Faculty Activity

- Dr Archanaa Dongre was invited to deliver an expert talk titled 'Vision of Sustainable Development in Structural Engineering' in PDP, Ahmedabad for a Symposium on 'Current Challenges for Safe and Sustainable Structural Development' from 27-29 March 2019. (CEE2018O028)



- Dr Vaishali Sahu attended a one day seminar titled 'Industrial Waste and Waste Water Management' on 13 March 2019. The Objective of the seminar was to bring together Government officials and scientists, industry experts, academician, investors & other stakeholders to discuss the key issues and techniques related to industrial solid and liquid waste management. (CEE2018O029)



## Department of Applied Sciences

### Workshop

A one day workshop on the topic 'A statistical approach to research methodology using TIBCO Statistica' was organized by the Department of Applied Sciences on 16 March 2019.

Twenty-Five students of MTech, PhD and MBA participated and Mr Biswajit Nayak, Director- Advanced analytics & Data science, Grid Analytics India Pvt. Ltd (formerly Statsoft India) provided them the concepts and experiences necessary to begin with solving data exploration, data preparation, statistical data analysis, predictive modelling & deployment problems using data science leader software TIBCO Statistica. The workshop was coordinated by Dr Pranati Purohit. (APS2019WO001)

### Mentor-Mentee Meeting



Faculty Mentor, Prof. KL Chopra, Padmashree Awardee, Former Director IIT Kharagpur visited the Department of Applied Sciences to guide PhD research scholars and faculty members on 15 March 2019. They interacted about the current research area and Prof. Chopra judged the projects displayed by the students in The Project Day-Technovation 2019. (APS2019O009)

## Department of Mechanical Engineering

### Expert Lecture

An expert lecture was delivered by Dr Rohit Singh Lather titled 'Combustion Diagnostics: Practical Combustion Measurement and Analysis' in One-Week TEQIP-III sponsored Short Term Course on 'IC Engine Fuels & Combustion Technologies (ICEFCT-19)' from 19-24 March 2019 organized by the Department of Mechanical Engineering, Dr BR Ambedkar National Institute of Technology (NIT), Jalandhar. (MED2019I001)

### Workshop

A one day module of 3-days' workshop was organized for the first and second year students of B Tech Mechanical Engineering on 16 March 2019 at CAD Lab and Mechatronics Lab under a hands-on practical value addition initiative of the University. Topics of the workshops were 'Hands-on Practical Training on 3D Solid Modelling' and 'Hands-on training on Automaton'. It was organized and conducted by Dr Abhishek Pratap Singh, Mr Sumit Bhat, and Mr L N Joshi. (MED2019WO003)



### Guest Lecture

The Department of Mechanical Engineering organized a guest lecture on 29 March 2019 for 3rd year Mechanical Engineering students titled 'Skills required by Mechanical Engineers to get Placed'. Mr Nishant Yadav, Manager,



Shiv Pneumatics and Alumnus of 2014 entry batch and Mr Tushar Talwar, HR Manager, Shiv Pneumatics guided the students about the skills that the companies are looking for to hire a Mechanical Engineer. The session was coordinated by Mr Anmol Bhatia, Assistant Professor. (MED2019O007)

## News from the School of Management

### International Women's Day

With the moto #BettertheBalance#BettertheWorld, Social Club of the School of Management celebrated International Women's Day on 8 March 2019. In a drive of gender equality, the day honoured the achievements of women, representing various aspects of her life from an icon of strength to a selfless spirit over a period of time. The celebration witnessed fun games for the students including alphabetical talk, score your style, purse scavenger hunt and let's draw on balloon with the special highlight on photo booth with the gender sensitizing props. The event was co-ordinated by Dr Jahanvi Bansal, Dr Poonam Arora and Ms Mahima Anand. (SOM2019O001)

### Workshop

School of Management organized a workshop on 18 March 2019 in association with Josh Talks on 'Know Your Rights', a brand philosophy of 'Ab Samjhunga Nah!' campaign by ITC Vivel. Mrs Anigma Rathore, the speaker highlighted women empowerment through legal rights and the discussion continued with reference to the different cases. The workshop was coordinated by Dr Esha Jain. (SOM2019WO005)



### Faculty Activities

Dr Esha Jain was invited by the University of Petroleum and Energy Studies (UPES), Dehradun to take a workshop 'Case Study' as a Resource Person for the Management Department from 7 - 9 March 2019.

She was invited to co-chair a session in the 3rd international conference on 'Rethinking Innovation: Role of Management & Technology in Modern Business Practices' by Amity University, Noida from 14-15 March 2019.

She was also invited by Jamia Hamdard University in an International Conference as a Panelist for the discussion titled 'ICT for Digital, Smart, and Sustainable Development: Challenges, Opportunities, Indian Perspective' on 16 March 2019. (SOM2019WA001-002-003)

### Industrial Visit

- An industrial visit was organized to the Barclays Bank, Noida by Dr Esha Jain, Faculty, School of Management on 19 March 2019. Barclays Bank is one of the oldest banks in the UK, founded in 1690 that have the largest market share of UK customers. They gave students brief knowledge about python language, tally, SAP etc. and aware students about the trending software which they should learn and practice to excel in future. (SOM2019V002)



- An industrial visit was organized for the students from BCom, BBA and MBA courses to Yakult, Sonapat, Haryana on 29 March 2019. The students were given a brief presentation about the company followed by a corporate movie which shared the idea of 'probiotics' glimpsing the world wide success of Yakult. The visit was accompanied by two faculty members Dr Jahanvi Bansal and Dr Preeti Chawla. (SOM2019V003)



### Guest Lecture

A lecture was organized on 14 March 2019 for the students of BBA Finance on Mergers & Acquisitions. Mr Amit Kumar, Vice President of Fab Hotels, shared the story of Mr Rahul Yadav, founder of Housing.com and how the decisions were implemented after he left. He discussed about the deal process, due diligence process of mergers and acquisitions along with post-merger integrations by giving example of mergers between PropTiger.com & Housing.com, Essar & Vodafone, and WhatsApp & Facebook. He also told students, how a 350 million USD company (Housing.com) was sold to PropTiger.com (a venture of 200 million USD) in only 70 million USD. (SOM2019G003)



### Camp on Entrepreneurship Awareness

School of Management organized an Entrepreneurship Camp Sponsored by EDII Ahmedabad from 6-8 March 2019 in which the students from SOM and SOET participated. The camp created awareness among the faculty and students of Engineering and Science about various facets of entrepreneurship and highlighted the merits as an alternative career option. The session was taken by Ms Yasmin and Mr Nitin Gupta, founder of a startup Humpty Empty. (SOM2019WO004)



### Industrial Visit

Students of BBA and MBA went for an industrial visit to Parle G manufacturing unit in Bahadurgarh on 4 March 2019. The students gathered knowledge regarding the working of the plant and were shown an insightful presentation related to the production of biscuits, described the functions, benefits and its presence worldwide. The visit was coordinated by Dr Saumya Dixit and Dr Deerga Sharma. (SOM2019V001)

## News from the School of Law

### International Women's Week

School of Law in collaboration with the District Legal Service Authority, Gurugram on the occasion of International Women's Week coordinated a two days' workshop with the topic 'Gender Sensitization and Progress towards Gender Equality' on 7 – 8 March 2019. The guests of honour were Shri Narender Singh, Chief Judicial Magistrate and Secretary, DLSA, Gurugram, Ms Shakuntala Dhull, Chairperson, Child Welfare Committee, Ms Gianwati, Member, Juvenile Justice Board and Dr Ranjana Kumari, Chair Person, Child Welfare Committee. There was a discussion on 'Living in the Shadows: For Acid Attack Victims' addressing about the pending cases on Acid Attack in Haryana and the mechanisms or remedies for the victims. The event highlighted the issue of gender equality, debates and poster making competition with a 5km rally, organized by the students and the faculty as a part of gender sensitization drive. (SOL2019WO004)





### Demo Session by SCC Online

SCC Online is one of the India's premier online legal research solution providers, a proven source for quick retrieval of case-law, statute law, notifications and other legal materials.

Mr Kapil Ajmani, Manager-Academic Sales of SCC ONLINE conducted a demo session for the teachers and the students, School of Law on 11 March 2019. He briefed the audience about the importance of database for research, internships, competitions and for solving almost every problem with regard to the subjects that students study in their semester. The session was coordinated by Ms Deborisha Dutta, Assistant professor, School of Law. (SOL2019O015)

### Workshops

- ❑ A one day workshop on Civil Laws titled 'Changing Paradigms of Environmental Law in India' was organized by the Distt. Prosecution Department, Rohtak on 27 Feb 2019. The lecture was delivered by Dr Praveen Kumar, Asst. Professor(Sel. Grade) & Off. Head, SOL. (SOL2019O011)
- ❑ A two day's Advance Regional Workshop on 'Biological Diversity Laws' organized by the School of Law in association with the prestigious National Law School of India University (NLSIU), Bengaluru and United Nations Development Program (UNDP) from 14-15 March 2019. The session was conducted by the experts, Prof. Sairam Bhat from NLSIU, Dr Pushpa Kumar from Delhi University, Dr KC Bansal, Former Director of the National Bureau of Plant Genetic Resources, ICAR, Pusa, New Delhi and with the active participation of institutions like ICAR, ICGEB, DU, Jamia, TERI, Ansal, ILI, VIPS. The programme was coordinated by Dr Subhradipta Sarkar. (SOL2019W005)



### Faculty Activities

- ❑ Ms Garima Lakhmani, Assistant Professor, SOL and Dr Praveen Kumar, Asst. Professor (Sel. Grade) & Off. Head, SOL were invited to judge 4th Amity National Moot Court Competition organized by Amity Law School, Gurugram on 9 March 2019. (SOL2019O013-SOL2019O014)
- ❑ Dr Shabana Shabnam, Asst. Professor(Sel. Grade) attended a workshop on Empirical Legal Research :SPSS Application and Data Analysis which was held on 16 & 17 March 2019 at the Faculty of Law, Jamia Millia Islamia. (SOL2019WA001)



### Guest Lecture

School of Law organized guest lecture on 'Indian Maritime Boundaries delimitation, management and Security Issues' on 29 March 2019 by Captain (Dr) Gurpreet S Khurana, Indian Navy, Executive Director, National Maritime Foundation (NMF), New Delhi. (SOL2018G009)

### Student Speak



**Yogita Bangar**  
(Batch of 2017)

I have completed BBA-LLB (Hons) from NorthCap University, Gurgaon and now opted for MPhil in Criminological Research at the University of Cambridge. I'm very excited to study the criminal justice system from a sociology perspective at Cambridge and attribute this success to NCU. I think the most significant contribution of NCU in my career trajectory has been the faculty, not only par with premier Law Schools in the country but highly committed to each student's growth. I believe that the rigour of the academic curriculum at NCU is highly commendable. Faculty members have continuously guided me for my further studies. Most importantly it's the values that I have learnt from my professors at NCU and I will treasure them for a lifetime.

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

### Recruitment Details:

DATE	Department	NAME OF THE COMPANY	CORE COMPETENCIES	NO. OF STUDENTS
2 March 2019	BTech all branches	Flexi Ele Consulting	A software company, providing cloud based Global HRMS and Payroll solutions.	1
4 March 2019	BBA & BBA LLB	Magicpin	An O2O platform that drives discovery and commerce for offline businesses.	Result Awaited
6 March 2019	BTech ME branch	Daikin Air-conditioning	A subsidiary of Daikin Industries Ltd., Japan, a global leader in the manufacturing of commercial-use and residential air conditioning systems.	2
7 March 2019	BTech CSE & ECE & MBA	Easy Rewardz	A customer experience management company, providing end-to-end customer engagement solution to 100+ brands across 3500+ retail online stores.	Result Awaited
7 March 2019	BTech CSE & ECE Branches	Protiviti	A global consulting firm, providing consulting solutions in finance, technology, operations, data, analytics, governance, risk and internal audit.	1
7 March 2019	BTech & MTech all Branches	Channelplay	A retail marketing services firm, expanding its international footprints and managing over 4000 employees.	1
9 March 2019	BTech CSE, ECE & ME, MBA and MSc Branches	Chegg	A student hub, transforming the way millions of students learn by connecting them to the people and tools needed to succeed throughout their high school and college career.	Result Awaited
11 March 2019	BTech CSE Branch	Asahi India Glass	India's leading integrated glass solutions company, a dominant player both in the automotive glass and architectural glass segments	Result Awaited
19 March 2019	BTech CSE & ECE Branch	Cadence	The only company that provides the expertise, tools, IP, and hardware required for the electronics design chain.	2



Daikin Campus team being welcomed by SPA

## Student's Placement Experience for Session 2019



**Garima Yadav**  
Placed with: EY  
Analyst - Advisory Services  
Batch 2015-19  
BTech-CSE

Each story matters mine just happens to be filled with immense optimism. I still remember that just one year back I was standing in front of the notice board and was reading my senior's success stories

and was worried and now I am here sharing my own story of getting placed in EY. Yes, it takes hard work but at the same time, we must believe in ourselves because at times we might feel dejected due to the fear of rejection but we must motivate ourselves and the people around us.

The drive started with the online test and after two days the results were announced. I was happy to hear my name and then just a few minutes later a GD was conducted in a group of 11 students. I cleared the GD round and then came the announcement that two interviews will be conducted, but that day I was not scared of anything because I knew that it was my day and I had to give my 100%. And when final results were announced I called my mom she was proud, her voice made me happier.

In my story The NorthCap University has played a major role, I am here today because of my parents and the constant support and guidance by my teachers, SPA and my friends. I am not just taking along a degree or job from this University I am taking along a big happy family instead.

**MIRACLES DO HAPPEN YOU JUST NEED TO BELIEVE IN THEM AND IN YOU!**

## Library

Library of The Northcap University organized a Book Fair-19 in the campus on 13 and 14 March 2019. From the renowned publishing houses like Cambridge University press, SAGE, Pearson, Orient Black Swan, PHI, Oxford University Press, Tata Mc Graw Hill, Wiley, Harper Collins and Jaico etc the books were made available for the students as well as the faculty members in the University involving all the subjects from Engineering, Law and Management courses: technical and non-technical department.

## Research Papers Published

### JOURNALS

#### INTERNATIONAL

- ❑ Priyanka Maan\*, **Hukum Singh** and Charan Kumari (2019) 'Optical Asymmetric Cryptosystem Based on Kronecker Product, Hybrid Phase Mask and Optical Vortex Phase Masks in the Phase Truncated Hybrid Transform Domain', 3D Research, Vol.10, No.8, pp.1-18, **APS2019J001**.

- ❑ Deepika\*, **Hukum Singh** and Narendra Sahay Saxena (2019) 'Study of optical properties of vacuum evaporated Ge<sub>1-x</sub>Sn<sub>x</sub>Se<sub>2.5</sub> (x=0, 0.3, 0.5) thin films', Journal of Optoelectronics and Advanced Materials, Vol. 21, No. 1-2, pp. 108-113, **APS2019J002**.
- ❑ Poonam Lata Yadav\* and **Hukum Singh\*** (2019) 'An approach to image security enhancement using asymmetric cryptosystem based on combination of Transforms using hybrid structured phase mask deploying single value decomposition', Asian Journal of Physics, Vol. 28, No. 1, pp. 43-61, **APS2019J003**.
- ❑ **Mehak Khurana\*** and **Hukum Singh** (2019) 'A Spiral-Phase Rear Mounted Triple Masking for Secure Optical Image Encryption Based on Gyrator Transform', Recent Patents on Computer Science, Vol.12, No. 2, pp. 80-94, **CSE2019J007**.
- ❑ **Anuradha\***, **Akansha Singh** and Gaurav Gupta (2019) 'ANT\_FDCSM: A novel fuzzy rule miner derived from ant colony meta-heuristic for diagnosis of diabetic patients', Journal of Intelligent and Fuzzy Systems, Vol.36, No. 1, pp. 747-760, **CSE2019J008**.
- ❑ **Anuradha\***, **Kavita Khanna**, **Akansha Singh** and Gaurav Gupta (2018) 'ACO inspired Computer-aided Detection/Diagnosis (CADE/CADx) model for medical data classification', Recent patents on computer science, Vol.12, pp. 1-9, **CSE2019J009**.
- ❑ Rohit Ahalwat and **Jagdeep Kaur\*** (2018) 'Comparative Study of User and Item k-NN for Rating Prediction', International Journal of Data Mining and Emerging Technologies, Vol.8, No.2, pp.123-131, **CSE2019J010**.
- ❑ Divya Jain\* and **Vijendra Singh** (2019) 'A two-phase hybrid approach using feature selection and Adaptive SVM for chronic disease classification', International Journal of Computers and Applications, Vol. to be assigned, No. to be assigned, pp. 01-13, **CSE2019J011**.
- ❑ **Pankaj Rakheja\***, **Rekha Vig** and Phool Singh (2019) 'An asymmetric hybrid cryptosystem using equal modulus and random decomposition in hybrid transform domain', Optical and quantum electronics, Vol. 51, No. 54, pp. 1-26, **ECE2019J014**.
- ❑ **Pankaj Rakheja\***, **Rekha Vig** and Phool Singh (2019) 'Asymmetric hybrid encryption scheme based on modified equal modulus decomposition in hybrid multi-resolution wavelet domain', Journal of Modern Optics, Vol. 66, No. 7, pp. 799-811, **ECE2019J015**.
- ❑ Parul Munjal\*, P. Malarvizhi and **Deergha Sharma** (2019) 'Triple Bottom Line Reporting and its Impact on Financial Performance of Banks in India', International Journal of Management and Development Studies, Vol. 8, No. 1, pp. 1-14, **SOM2019J008**.

### BOOK CHAPTER

#### INTERNATIONAL

- ❑ **Meghna Sharma\*** and **Jagdeep Kaur** (2019) 'Disaster Management Using Internet of Things' in and book of Research on Big Data and the IoT, Chapter 12, pp.211-222, IGI Global, ISBN-9781522574323, **CSE2019BC002**.

### CONFERENCE PRESENTATION

#### INTERNATIONAL

- ❑ Deepika Gaur, **Sunita Sharma**, SKGhoshal and Dinesh Kumar (2019) 'Performance of Perovskite Solar Cells Integrated with TiO<sub>2</sub> and TiO<sub>2</sub>-Graphene as Electron Transport Layers: Role of PEO based Polymer Electrolyte', International conference in basic science, GDC Memorial



College, Bahal, **APS2019C001**.

- ❑ Dinesh Kumar and **Sunita Sharma** (2019) 'A Comparative Study of Despeckle Filters for Ultrasound Images', International conference in basic science, GDC Memorial College, Bahal, **APS2019C002**.
- ❑ **Bharti Arora\*** and **Aditya Sharma Ghrera** (2019) 'Structural Analysis of DNA Sequences associated with Amyotrophic Lateral Sclerosis', 2nd International conference on Innovations in Chemical, Biological and Environmental Sciences, Department of chemistry, Arya P.G College, Panipat, Haryana, **APS2019C004**.
- ❑ **Aditya Sharma Ghrera\*** and **Bharti Arora** (2019) 'Immunosensing of Procalcitonin for the Detection of Urinary Tract Infection', 2nd International conference on Innovations in Chemical, Biological and Environmental Sciences, Department of chemistry, Arya PG College, Panipat, Haryana, **APS2019C005**.
- ❑ **Divyabha** (2019) 'Shakespeare's Representation of Women in his Plays with Special Reference to Cordelia in King Lear', Shakespeare's Women- Glowing or Dwindling: A Gender Perspective, Dept of English, KVADAV College for Women, Karnal, **CLL2019C001**.
- ❑ **Payal Khurana** (2019) 'A Constant Struggle: colonialism Vs Post-Colonialism in Postmodern World', 5th JGU International Literary Conference, English Literary Society of O P Jindal Global University, **CLL2019C002**.
- ❑ **Divyabha** (2019) 'Feminism Vs Patriarchy: Social, Political and Economic Practices', 5th JGU International Literary Conference, English Literary Society of O P Jindal Global University, **CLL2019C003**.
- ❑ **Shrutimita Mehta** (2019) 'Comparing Extremes: Cultural and Modernity in Colonial and Post-Colonial Writing in India', 5th JGU International Literary Conference, English Literary Society of O P Jindal Global University, **CLL2019C004**.

#### NATIONAL

- ❑ Khushbu Gupta and **Tejpal Singh Chundawat** (2019) 'Green Synthesis of Platinum Nanoparticles Using Fungus *Fusarium oxysporum* and its Antimicrobial Activity', National Conference on Global Climate change: concerns and solutions, Environmental Sustainability Management Cell, MDU, Rohtak, **APS2019C003**.

Note: \* for Corresponding Author

#### CALL FOR PROPOSALS (Feb-2019)

S.No	Call for Proposal	Last Date
1.	Department of Science & Technology - Sustainable & Innovative Technologies in Agriculture (AGRO-TECH) Under the Scheme Technology Development Programme	15.03.2019
2.	Department of Science & Technology (DST) and Russian Foundation for Basic Research - Indo-Russian Joint Call for Proposals (DST-RFBR)	15.03.2019
3.	IIT Delhi - Summer Faculty Research Fellow Programme - 2019	During May July 2019
4.	Department of Science & Technology - Women Scientists Scheme - A	Till further notice

## Student Activity

### National Social Summit

- ❑ CSE department is pleased to announce that 33 students have successfully completed CCNA module 2 and students were given certificates in March 2019. This module was coordinated by Ms Neeti Kashyap and Ms Hitesh Yadav. (CSEO2019008)



### TCS Extended Reality

A national level competition 'TCS Extended Reality 2019' organized in Chennai by TCS for Augmented and Virtual Reality based projects in different applications with an objective to inspire students for a career in an area of Augmented and Virtual Reality (AR/VR Technology).

The competition started with the participation of 250 teams from across the nation in which top 5 teams were shortlisted for the final round. Our students designed an AR Core multiplayer game on Vuforia and bagged Second Prize along with a PlayStation and a certificate of appreciation. They were already a part of TCS, completed their final year project under VC innovation fund. (CSEO2019015)

- ❑ HAREDA (Department of Renewable Energy Haryana) NIT Kurukshetra organized a debate competition titled "Should India completely shift to renewable energy" on 23 Feb 2019.

Final year students, Rijul Aery and Shivam Sharma from the Mechanical Engineering Department were selected as the best orators in the Gurugram zone and won the 1st prize. The event mentor and coordinator was Dr Rohit Lather. (MED2019O005)

- ❑ Students from School of Law participated in M.K.E.S 4th National Moot Court Competition, Nagpur which was held from 1-2 March 2019. Team comprising of Tanish Manuja, Taniya Mahajan and Aasma Sachdeva were adjudged as participants. (SOL2019O012)



### Aptathon

Aptathon (Series of Aptitude Test) was organized by the Institution of Engineers India- IEI Student's Chapter, Department of EECE from 14-20 Feb 2019 in



which 44 students participated. The aptitude tests consisted of quantitative, logical reasoning, verbal reasoning, GK and coding questions. The top 3 participants were awarded with the certificates. The event was coordinated by IEI student's chapter convener, student coordinators and faculty adviser Dr Vandana Khanna.

### Hybrid Vehicle Challenge (HVC)

Team Alacrity, Students of the Department of Mechanical Engineering recently participated in HVC (Hybrid Vehicle Championship) under the organization ISIE (Imperial Society for Innovative Engineers) which was held from 5-10 Feb 2019. The event included a brief introduction to design, manufacture and submission of the hybrid vehicle. Clearing the Technical Inspection at the event, the team attained 4th rank at the All India Level. The event brought out the true potential in the students. The faculty advisor for the team was Mr Praveen Singh. (MED2019O006)



### IEEE

- ❑ The Department of EECE and IEEE NCU organized an interactive session in collaboration with Intel Software titled 'Innovations in Internet of Things' on 18 March 2019 for the students of BTech. Dr Shriram K Vasudevan- Intel IoT innovator and Dr Bhaskar Arumugam-Professor, Amrita University, Coimbatore were the chief guests and speakers. The event was coordinated by students Ritika Sharma and Virenda Pratap Singh under the guidance of Ms Naresh Kumari, Assistant Professor, EECE. (ECE2019WO002)
- ❑ An Arduino workshop was conducted by the Department of EECE & IEEE-NCU Student Branch on 8 March 2019 in the Department of EECE for the students of all branches with an aim for a hands-on practical experience with Arduino Uno Board. The event was coordinated by IEEE student members Mr Divyam Sachdeva, Mr Shubam Lamba, Mr Arjun Sehrawat and Ms Ananya Sharma along with the faculty of EECE, Dr Sharda Vashisht, Ms Naresh Kumari and Mr Pankaj Rakheja. (ECE2019WO001)



### Sports

#### Inter-Departmental Football tournament

The Inter-Departmental Football Tournament 2018-19 was held from 06-08 Feb 2019. The runner's-up were from the LLB team and the winners were the students from CSE team namely, Aryan Malhotra, Harmeet Thukran, Harsh Khandelwal, Surya Pratap Singh, Hemanshu Chatterjee, Ashant Yadav, Tanish Uppal, Heemal Yadav, Yash Vardhan Parashar, Tushar Thanur, Udbhav Sharma, Souye Kumar.



## Professional Societies

### The Minerva Quizzing Society



The Minerva Quizzing Society organized the 'Ent Quiz 2019' competition on 28 Feb 2019 for the students from Btech, SOL & BSc department and General/Science, OSA Quiz 2019' on 5 March 2019 in collaboration with the Optical Society of America (OSA) Student Chapter at NCU for the students from BTech and BSc department. These quizzes enabled the participants with an exposure to the trivia, developing their skills in this aspect. After the preliminary written round, students were eliminated and stepped up for the next rounds. The event was coordinated by Dr Anshu Malhotra, Dr Kalika Srivastava and Dr Hukum Singh.

The winning teams are as follows:

(ENT)

1st: Rajan Sharma, Rishabh

2nd: Akash Shukla, Aryan Sharma

3rd: Shaurya Dahiya, Sahil Khurana

(OSA)

1st: Tarun Kumar, Shreyansh Mangain

2nd: Arpit Sharma, Akshay Makkar

3rd: Aayush Agarwal, Abhinav Mangla

(APS2019O006 - APS2019O007)

### Quizzing Society

The OSA Chapter and the Quizzing Society conducted a quiz titled 'Science and General Awareness' on 5 March 2019. A count of 250 students participated in pairs in which six teams cleared the second round. The winner of the quiz was the team of Tarun Kumar and Shreyansh. The 1st runner up were, Akshay Makkar & Arpit Sharma and the 2nd runner up were Aayush Aggarwal and Abhinav Mangla.



## Outreach Activities of Prof H B Raghavendra, Vice Chancellor



**Prof. H B Raghavendra**  
Vice-Chancellor  
PhD, Indian Institute of  
Science, Bangalore  
MS (Research), IIT Madras  
BE, University of Mysore

- Vice Chancellor, Prof. H B Raghavendra attended Vice Chancellors' Meet organized by Fidelity International, Gurugram on 14 March 2019. Prof. Raghavendra apprised the delegates about the Centre of Excellences & new initiatives taken by the University w.r.t. the Emerging Technologies Viz Internet of Things, Data science, Cyber security, Artificial Intelligence, Virtual Reality etc. He also reiterated the commitment of the University to support students for holistic learning and requested Fidelity International to collaborate in this endeavour of the University. It is resolved in the meeting to have one on one discussion between the University and Fidelity to understand the curricular aspects and modules for industry participation imparting experiential learning.

## Outreach Activities of Prof. Prem Vrat Pro-Chancellor, Professor of Eminence & Chief Mentor



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

- Prof. Prem Vrat was invited by the 1969 graduating batch of IIT Delhi alumni in their Golden Jubilee Reunion which also honoured him along with other teachers of those times. Director IIT Delhi hosted a lunch on the occasion.
- Prof. Prem Vrat was Special Guest at the International conference of Brahma Kumaris at Indira Gandhi Indoor stadium in New Delhi on 10 March 2019 in which delegates from more than 130 countries attended. The theme was "Spiritual Response to Critical Times".
- Prof. Prem Vrat attended the 30th meeting of the Governing Body of Maharaja Surajmal Institute of Technology (MSIT), New Delhi as a member on 11 March 2019.
- Prof. Prem Vrat was the Guest of Honour in Ch. Charan Singh (former Prime Minister) Memorial Lecture organized by Supreme Court Lawyers Forum at Indian Society for International Laws, V K Krishanan Menon Bhawan, New Delhi on 14 March 2019 and Shri Birender Singh, Union Minister of Steel was the Chief Guest.
- Prof. Prem Vrat delivered lectures on "Aggregate Production Planning" at IIT Delhi on 15 March 2019 as Honorary Professor.
- Prof. Prem Vrat was the Chief Guest at the Inaugural Session of 1st National Conference on Advances in Mechanical Engineering-19 at the National Institute of Technology (NIT), New Delhi. He also delivered a keynote address on "Reimagining Mechanical Engineering in Industry 4.0 environment".
- Prof. Prem Vrat delivered a keynote address on "Quality Issues in Higher Education" at the Central University of Haryana (CUH) Mahendragarh, Haryana on 17 March 2019 under the 7-days Faculty

Development Programme for central and Haryana State Government University teachers jointly with Haryana Higher Education council, sponsored by Ministry of Human Resource Development (MHRD); Government of India. The Vice-Chancellor CUH Presided over his keynote address. He also gave away the Mementos to the faculty who participated in the programme. His keynote address was highly appreciated by all.

- Prof. Prem Vrat attended the 2nd meeting of search cum-selection committee for appointment of Director, NITIE, Mumbai on 20 March 2019 at Ministry of Human Resource Development (MHRD), Shastri Bhawan, New Delhi under the chairmanship of Secretary (Higher Education).
- Prof. Prem Vrat attended Convocation-2019 at Management Development Institute (MDI), Gurugram on 26 March 2019 as an invitee.
- Prof. Prem Vrat participated in the Panel discussion on "Integrating Education, Skills and Entrepreneurship for Quality Development" in a Live telecast on Doordarshan in a National Programme titled "Good Evening India" on 27 March 2019.



- Prof. Prem Vrat chaired the meeting of Standing Appellate Committee of AICTE on 28 March 2019 at AICTE, Headquarter, New Delhi.
- Prof. Prem Vrat delivered a lecture at IIT Delhi on "Capacity Planning" on 29 March 2019 as Honorary Professor.
- Prof. Prem Vrat chaired the 3rd meeting of Board of Governors of WIT, Dehradun on 30 March 2019 at IRTC, Dehradun.



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