



## THE NORTHCAP UNIVERSITY

The year 2020 shall remain the most unprecedented and challenging year in the living memory of the people of the world. While the coronavirus-led pandemic has ushered the age of physical distancing, powerful tools have helped us stay connected and informed. Consequent to the announcement of the lockdown and closure of campus-based teaching in the third week of March 2020, we, at The NorthCap University, Gurugram, seamlessly introduced online classes through Microsoft Teams' and adopted Mercer Mettl (platform for offering AI proctored invigilation services) for conducting the Major Exams of our students. In the era of social distancing, the majority of our events became 'virtual-celebrations,' recorded and streamed online. However, it did not diminish our dedication towards our overarching goals. At NCU, we figured out ways to keep our stakeholders and thought leaders connected by conducting more than 200 webinars, training sessions, online workshops, conferences and more than 150 Club/Society activities to encourage our students' hidden potential. Further, we signed certain progressive MOUs with renowned organisations and put partnerships across the table. Amid this phase, we adopted maximum flexibility in our operations and put well-being ahead of everything. Over the last few weeks, many students have returned to the campus and have seen and experienced sanitizing stations, temperature recorders, health screenings, limiting standing or seating densities and plastic dividers that have dotted the landscapes at NCU. Furthermore, we have highly expedited our cleanliness and hygiene-related operations and embraced all necessary interventions to gear up to resume all our services back in place. This newsletter will help you to quickly take a glimpse of pro-active actions, measures, and achievements of NCU, its faculty, and students in the year 2020.

### RANKINGS

NCU achieved a new milestone in the innovation and entrepreneurship category by being ranked in Band "A" (Rank 6 to 25) in the Atal Rankings of Institutions on Innovation & Achievements (ARIIA) by Vice-President of India in August 2020. The latest MHRD led NIRF ranking 2020 has placed the University at the 110th position in the Engineering category and in the rank band of 151-200, in the University category. Another matter of pride for us is that three of our Senior Professors, Prof. M S. Sodha, Prof. I.K. Verma, and Prof. P. Swamee, figured amongst the world's top 2% scientists. This nomination is based on data created by experts from Stanford University, USA, based on standardised citation indicators. NCU is now a 'Social Entrepreneurship, Swachhta & Rural Engagement' (SEC REC) Institution, recognised and certified by the Government of India for gearing up the work practices for environment, entrepreneurship, and community engagement.

### MoUs/PARTNERSHIPS

#### MoU between NTRO and NCU

An MOU is signed between National Technical Research Organisations and The NorthCap University Gurugram on 1 December 2020 for a research consultancy project- 'Development of Machine Learning-based approach for efficient Android Malware Detection, and Reverse Engineering' with an amount of Rs. 19,37,2781. The coordinators for the same are Dr Kavita Khanna and Dr Prachi.

## MoU between NHAI and NCU

The NorthCap University associated itself with The National Highway Authority of India (NHAI) through a Memorandum of Understanding to contribute mutually for highway infrastructure betterment on 4 December 2020. Under this, both organisations will share knowledge, skill, and expertise and work together with mutual cooperation in the Civil/Highway Engineering field for future road infrastructure development.

## MoU signed between PAC Security LLP

An MoU was signed between The NorthCap University and PAC Security LLP, a Digital Threat Assessment, Cyber Security Consulting, and Operational Services Company providing services to businesses, governments, and institutions nationwide. It is a trusted standard for businesses to protect brands, businesses, and dignity from weakening cyber-attacks. The team also helps many organisations to secure their IT infrastructure, guiding their students during the internship programs and join hands to bring awareness of Cyber Security's global concern. Mr. Paras Arora, CEO & Founder, PAC Security, and Prof. H. B. Raghavendra Vice-Chancellor, The NorthCap University, signed the MoU. PAC security will now recruit students for internship and provide training and guidance to ensure NCU's website safety. Also, it will help in customising, redesigning and refurbishing the course contents based on practical aspects and in conducting Cyber and Web Security sessions. Further, they will collaborate with the OWASP Chapter of NCU.

PAC Security has already provided an internship to 10 students in July 2020 and conducted a live session on Bug Bounty in October 2020 under the OWASP NCU chapter. Dr Mehak Khurana (Faculty, CSE) initiated the MoU under the guidance of Dr Kavita Khanna (Head, CSE)

## MoU between AECO TechnoStruct (P) Ltd. and NCU

To support our vision to promote Skill Development Initiatives, the Department of Civil & Environmental Engineering, NCU has signed an MoU with AECO TechnoStruct (P) Ltd. on 2 December 2020. The aim is to provide industry exposure and enhance students' skills through training and development programs.

## NOMINATIONS

### Pro-Chancellor was nominated as Chairperson for IIT Dhanbad (Formerly Indian School of Mines), by Hon'ble President of India

The Hon'ble President of India, in his capacity as the Visitor of the Indian Institute of Technology (ISM) Dhanbad (Jharkhand), nominated Prof. Prem Vrat, as the Chairperson of the Board of Governors (BoG) of Indian Institute of Technology (Indian School of Mines), Dhanbad for a period of three years with effect from 25 August 2020.

### Pro-Chancellor Nominated as Mentor for Top Institutions of Eminence in the Country

Pro-Chancellor Prof. Prem Vrat was nominated by the Chairman Empowered Expert Committee, UGC, MHRD, Govt. of India to work as mentor for the top Institutions of Eminence in the Country. He would hand-hold top institutions in their efforts to put up a better performance and achieve better global standards in teaching, learning and research. His vast knowledge and experience in the field of Academics for over 50 years will be a valuable asset to these top institutions of higher learning in the country.

### Pro-Chancellor nominated as Chairman of a committee constituted by the Ministry of Education Govt. of India for development of National Credit Framework

Ministry of Education, Department of Higher Education, Govt. of India, has constituted a committee under the Chairmanship of Prof. Prem Vrat, Pro-Chancellor to lay emphasis on Choice Based Credit System, setting up of Academic Bank of Credits and Credit transfer in Higher Education institutions.

(Auth. FNO. 17-10/2020-TEL Govt. of India, Ministry of Higher Education dated 22-01-2021.)

### Pro-Chancellor nominated as a member of Task Force to impart Technical Education in Regional Language

Pro-Chancellor Prof. Prem Vrat has been nominated as a Member of Task Force constituted by Ministry of Education, Govt. of India, for imparting Technical Education in Regional Language.

## NEWS FROM SCHOOLS AND DEPARTMENTS

### Academic Partnership with EC-Council

The Department of CSE established an Academic Partnership with EC-Council to foster students' skill-set on Cyber Security & Forensics Specialisation. EC-Council is the leading IT and e-business certification awarding body and the creator of the world-famous Certified Ethical Hacker (CEH), Computer Hacking Forensics Investigator (CHFI), EC-Council Certified Security Analyst (ECSA) and License Penetration Tester (LPT) programs. This partnership offers exclusive benefits and resources such as official EC-Council Academia Partner Certificate, use of EC-Council official logos and marks, and event invites and access to robust EC-Council Academia syllabi, faculty discounts and scholarships. The partnership would also provide cyber competition discounts and scholarships, exclusive launch sneak-peaks, beta testing opportunities and EC-Council Testing Center (ETC) resources.

### Webinar on 'Satellite Navigation – An Indian Perspective'

The Researchers' Club organised a webinar on 'Satellite Navigation – An Indian Perspective' on 8 December 2020. Mr T. Subramanya Ganesh, Deputy General Manager of the ISRO Navigation Center, was the distinguished speaker of the webinar. Mr Ganesh has been associated with ISRO for long and is currently serving as Deputy General Manager of the ISRO Navigation Center and Timing Facility. Also, he is pursuing his Doctorate at the Electronics and Communication Department, NCU. Several faculty members and students attended the webinar and got benefitted from it. Participation certificates were issued to all the attendees. Faculty Coordinator Dr. Mona Aggarwal and Student Coordinator Mayank Sharma organised the event.

### Interactive Session- 'Brainstorming for Social Initiatives'

Club Chetna, the Community Service Club successfully conducted its first interactive session, 'Brainstorming for social initiatives' on 25 December 2020. The event was coordinated by Faculty Coordinator Dr. Vandana Khanna and Student Coordinators of the Club. The mentors of the Club, Mr. Manish Kumar Singh, Dr. K D Joshi, and Dr. (Mrs) Kamlesh Joshi, guided all the students to contribute to the service of humanity wholeheartedly. With their gracious presence, all the students were inspired and motivated to break social shackles and act as a guiding light to help fellow human beings. Their vision was to benefit society and nurture the environment and make sustainable development possible in all dimensions. The mentors highlighted the hardships they faced in these trying times of the pandemic and urged them to contribute proactively in serving humanity.

### First National Criminal Law Quiz

The School of Law, NCU organised the 1st National Criminal Law Quiz virtually on 7 December 2020, on the Platform Google Forms. The event was organised under the guidance of Ms. Mahima Mahajan (SOL). The event attracted 98 participants from all over the Nation to participate in the Quiz Competition. The winners were: 1. Kumar Amrit - Patna University; 2. Shweta Amrawanshi - Government Law College, Seoni; 3. Krishna Mohan Singh - Bihar Institute of Law. The winners were awarded Certificates of Merit. All participants also received Certificate of Participation as a token of encouragement.

### Economic Conclave 2.0

The Economic Collective, NCU Chapter, organised an Economic Conclave 2.0 on 5 December 2020. The theme for the conclave was- Application of Economics from Health to Wealth. The event was sponsored by Laburnum School, Indira Gandhi Sr. Sec. School and Pushpanjali Modern Public School. The Investiture Ceremony took place on YouTube Live, <https://youtu.be/FMkiVucUCIs>, where all the young students were prepared to don the mantle of leadership and discharge the responsibilities entrusted to them. The event witnessed participation from different schools and universities. The event recorded around 100 registrations and around 400 views. The speakers also delivered their views on the application of Economics from health to wealth, UN Goals, the impact of COVID-19, and ways for its recovery.

## **Rotaract Club NCU Co-hosted World Peace Music Festival**

Rotaract Club of The NorthCap University co-hosted an event 'World Peace Music Festival' organised by the Gurugram District on 12-13 December 2020. Participants from 35 countries from across the globe joined the event. The musical performances during the festival were enjoyed by all. The winners were decided through audience voting, and all received cash prizes.

## **SCC Online Training**

An SCC Online training was organised on 14 December 2020 for First Year BBA LL.B students. SCC Online is an online legal research database for lawyers and legal professionals. It provides proprietary database services. Mr. Mohit Singh, the Instructor trained a total of 90 registered students who registered for the training. He provided information about the said database and its importance in the legal discipline during contemporary times. Further, he gave a demo as to how the cases and journals are searched on the database of Westlaw. The training was organised by Deborisha Dutta, the Library Co-ordinator of the School of Law.

## **Quiz Competition on Internet of Things**

Cloudlot Club Under ACM society (CSE), in association with the SAL subcommittee, organised a quiz on 'Internet of Things' on 5 December 2020. Eighty-five students participated in the event. Tanvi Anand Hadgaonkar & Yukta Yadav were the Student Coordinators of the event. Dr. Pankaj Rakheja, Mr. Sumit Kumar Dr. Priyanka Vashisth. and Akanksha Kapoor coordinated the event.

## **Fun Quiz on Python**

PyQuiz, a fun quiz on python was organised by Python Warriors Club, a SIG of IEEE IAS NCU SBC on 5 December 2020. The event was open to all University students. Dikshit (19CSU379) and Udit Kapoor (19CSU327) coordinated the event under the guidance of the faculty members- Ms. Vaishali Kalra, Dr. Pankaj Rakheja and Mr. Sumit Kumar. Around 105 students participated in the event.

## **Final Project Evaluation and Display**

Department of CSE organised the Final Project Evaluation and Display for Second Year CSE students of Full Stack Specialisation on 29 December 2020 virtually through Microsoft Teams. Ms. Shairely Bhardwaj, a Senior Application Developer at Accenture, was invited as the Industry Expert to evaluate and guide students. Ms. Prerna Singal and Mr. Sumit Kumar were the Faculty Coordinators.

## **Quiz Competition: Puzzle Mania**

The Puzzle Club of NCU (APS Department) organised a two-round inter-school and college puzzle competition named PUZZLE MANIA on 10 December 2020 on Microsoft Forms. Around 100 students from different schools and colleges participated in the event. The first round- 'The Logical Reasoning' comprised of 10 questions in which participants had to solve a given series within a time limit of 30 minutes. The second round was on 'Pattern Formation' comprising two questions wherein participants had to join together puzzle pieces to make a pattern. The first round was the qualifying round and the second round was the score deciding round. The winners were Mayank Vats (1st), Saransh Goyal (2nd), and Taranjeet Singh (3rd). The runners up were Dhruv and Tanya Chhabra. The winners and participants were provided e-certificates. The event was coordinated by Shivam (20CSU318) and Khushi (20CSU329) under the supervision of Faculty Coordinator Dr. Aditya Sharma.

## **Speech Competition on Importance of Education**

A 'Speech Competition' was organised on 11 December 2020 by the Department of Applied Sciences and SAL Subcommittee on the Importance of Education. Students delivered an information-loaded speech while maintaining a high energy level during delivery. The judges of the event were Dr. Alka and Dr. Arjun Singh. Winners were chosen on the basis of fluency and smooth delivery, topic selection, and time management. The winners of the event were Shally (19BSM003), Ishita Garg (19CSU139) and Alisha Khatoon (19BSM010); Naman Sharma (19BSM003). E-certificates were issued to all the participants. The event was coordinated by Dr. Rajni Rohila and Lehar Sharma (19BSM012).

## Bollywood Buzzer Quiz

The Exuberance Club of NCU organised a quiz competition-Bollywood Buzzer on 5 December 2020 on Quizizz platform. Participants were asked questions based on Bollywood movies and actors. The event witnessed 106 enthusiastic participants. Winner was chosen on the basis of maximum correct answers within the given time frame. The main focus of the event was to help participants feel happy and refreshed in the present day stressful environment. Winner and participants were awarded e- certificates. The Faculty Coordinator was Ms. Mahima Anand and the Student Coordinators were Ishita Garg and Parul Bansal.

## Online Webinar on AIDS Awareness

Club Success Mantra of The NorthCap University in collaboration with Yukti, Legal Aid Society organised an online webinar on AIDS on 17 December 2020. The objective of the webinar was to create awareness about AIDS. Dr. Sharmila Chhabra Solanki, the Guest Speaker for the session, is a dedicated and reputed Obstetrician & Gynaecologist at Columbia Asia hospital, Palam Vihar. The content of the webinar was based on how the brutal disease spreads, its symptoms and precautions. The presentation was informative. Nearly 65 students attended the webinar, and it was indeed a learning experience for all the participants. The event was coordinated by Dr Shilpy Wadhwa, Dr Shrutimita Mehta, Dr Vaishali Sahu and Dr Pallavi Bajpai. The Student Coordinators for the event were, Bhoomi Jain and Tanishi Mukherjee.

## Poster- Making Competition on AIDS Awareness and Consequences

Announce of precaution is worth more than a pound of care. Acquired Immunodeficiency Syndrome (AIDS) is a chronic, potentially life-threatening condition that still has no cure. Yet being aware of the cause of the disease, and preventive measures are there to avoid this deadly disease. In this spirit, for World AIDS awareness month, a Poster Making Competition was organised on 27 December 2020 by Club Prayaas NCU, Yukti, and Success Mantra. The topic of the competition was 'Aids Awareness and Consequences'. Entries for posters were submitted by the participants on the online platform Microsoft Teams. All the participants presented creative and innovative posters with meaningful and catchy slogans alongside. The judges for the event were Dr. Vaishali Sahu, Dr Shrutimita Mehta and Dr. Rajni Rohila.

## FACULTY ACHIEVEMENTS

### Publications

- **Neeti Kashyap\***, A. Charan Kumari and **Rita Chhikara**, CSE (2020) 'A hybrid hyper-heuristic flower pollination algorithm for service composition problem in IoT', Recent Advances in Computer Science and Communications Formerly: Recent Patents on Computer Science, Vol. 12, No. 1, **CSE2020J024**
- **Neeta Sharma\*** and **Prem Vrat**, SOM (2020) 'Impact of product-package design on material waste due to stock-induced consumption phenomenon', International Journal of Industrial and Systems Engineering, Vol. 36, No. 2, pp. 197-211, **SOM2020J020**.
- **Shridhar\***, **Sanjay Yadav**, Phool Singh, Jyotsana Singh and A.K Yadav, APS (2020) 'Optimization of discharge patterns in parkinson condition in subthalamic nucleus model of basel ganglia using particle swarm optimization', Advances in Mathematics: Scientific Journal, Vol. 9, No. 5, pp. 3135-3153, **APS2020J021**.
- **Eduardo Hernandez\***, Jianhong Wu and **Alka Chadha**, APS (2020) 'Existence, uniqueness and approximate controllability of abstract differential equations with state-dependent delay', Journal of Differential Equations, Vol. 269, No. 10, pp. 8701-8735, **APS2020J022**.
- **Deepika Gaur**, **Sunita Sharma\*** and **Dhirendra Kumar Sharma**, APS (2020) 'Temperature dependent structural, electrical and optical properties of methyl ammonium lead iodide thin films for photovoltaic applications', Solid State Technology, Vol. 63, No. 2s, pp. 5575-5585, **APS2020J023**.
- **Ayushi Aggarwal**, SOL (2020) 'Policy reforms: Re-visiting the criminal sentencing system in India', Parishodh Journal, Vol. 9, No. 3, pp. 4378-4386, **SOL2020J006**
- **Vaishali Kalra**, **Srishti Sharma\*** and **Poonam Chaudhary**, CSE (2020) 'Depression detection in cancer communities

using affect analysis', Proceedings of MRCN 2020 'Mobile Radio Communications and 5G Networks' Part of the Lecture Notes in Networks and Systems book series, pp. 649-657.

- The Conference Proceeding of ICETMIE 2019 was published by Lecture Notes of Mechanical Engineering. The published proceeding is available on <https://link.springer.com/book/10.1007/978-981-15-8304-9>. The book consists of select proceedings of the International Conference on Emerging Trends in Mechanical and Industrial Engineering (ICETMIE) 2019. The proceeding was edited by Prof. Pramod Bhatia and Dr. Rohit Singh from Mechanical Engineering Department.

## CONFERENCE PRESENTATIONS

- **Chaitali Bhowmik\***, CSE (2020), G S Pradeep Ghantasala and Reddy Anuradha, 'A comparison of various data mining algorithms to distinguish mammogram calcification using computer-aided testing tools', International Conference on Information Management and Machine Intelligence, Poornima Institute of Engineering and Technology, Jaipur.
- **Srishti Sharma\*** CSE (2020) 'Fuzzy lexicon based approach for sentiment analysis of blog and microblog text', The 5th International Conference on Research in Intelligence and Computing in Engineering, Research in Intelligent and Computing in Engineering.
- **Vaishali Kalra\*** CSE (2020) 'Fuzzy lexicon based approach for sentiment analysis of blog and microblog text', The 5th International Conference on Research in Intelligent and Computing in Engineering, Research in Intelligent and Computing in Engineering.
- **Dr. Unanza Gulzar\***, SOL (2020) 'Bio-Piracy of Traditional Knowledge in 21st Century with Reference to Ayurveda: Need for Robust Rulebooks', National Webinar on AATM Nirbhar Bharat- Shresth Bharat, Guru Gobind Singh Indraprastha University.
- **Dr. Neha Kumar\***, SOM (2020) 'A Study of Mental Health of College Students during COVID-19 Using Dass-21' MAIMS International Conference MIC'2020, Maharaja Agrasen Institute of Management Studies, GGSIPU, in association with Lincoln University College, Malaysia. She also contributed as a session chair and got awarded the first prize for presenting her paper.
- **Dr. Akshat Aditya Rao\***, SOM (2020) 'Does smell matters? An exploratory study about impact of olfactory cues in retail', International Management Conference on Advances in Management through Research, Innovation & Technology (AMRIT), Fortune Institute of International Business (FIIB) New Delhi, India.
- **Dr. Jahanvi Bansal\***, SOM (2020) 'Diversity focused HR practices and perceived firm performance: mediating role of procedural justice' has been selected as a highly commended paper in the 2020 EMERALD LITERATI AWARDS.
- **Minakshi Sehrawat\***, SOM (2020) 'Analyzing the expanding role of Techno-driven Human Resource Analytics in Organizations' First Joint International Conference Atmiya-Lincoln 2020, Atmiya University, Rajkot, Gujarat.

Note: \* for Corresponding Author

## INVITED TALKS/GUEST LECTURES

- Dr. Archana Sarma, Head, School of Law, was invited to deliver a special lecture on 'Victimization of Women on Cyberspace: The Indian Legal Scenario' by the Department of Political Science and the Centre for South-East Asian Studies, Gauhati University, Assam on 10 December 2020. The webinar was organised on the occasion of celebration of 72nd Anniversary of Universal Declaration of Human Rights, which has also been designated as International Human Rights Day.
- Dr. Tapobrata Pakrashi, School of Law, was a Guest Speaker at the 4th International Conference on Human Rights and Gender Justice 2020, held on 13 December 2020, organised by KNOWLEDGE STEEZ, in collaboration with South Ural State University, Russia, University of Maribor, Slovenia, the Legal Studies Association, United States, and Youth for Human Rights International — India Chapter. Dr. Pakrashi also Co-chaired a session (Technical Session III) of the Conference in which valued research papers were presented by authors from various backgrounds.

- Dr Kavita Khanna, Head, CSE delivered a guest lecture on 'NumPy and Pandas in Python' in a Faculty Development Program on 'Pragmatic Tools for Quality Research' on 22 December 2020 organised by Maharaja Surajmal Institute, Janak Puri, New Delhi.
- Dr. Rohit Singh Lather, Head, ME was invited to deliver expert lectures in AICTE Sponsored One Week Online Short-Term Training Program (STTP) on 'ADVANCES IN ELECTRIC VEHICLES at Department of Electrical and Electronics Engineering, Rashtriya Vidyalyaya College of Engineering (RVCE) Bangalore. He delivered two expert lectures on 'Electric Vehicle Development' and 'Energy Management Technologies' to over 100 delegates.

## **TRAININGS/FDPs/CERTIFICATION PROGRAMS ATTENDED**

- Dr. Rita Chhikara, Dr Meghna Sharma and Dr. Priyanka Vashisht have successfully completed a Certification Programme in Data Science specialisation conducted by Electronics and ICT Academy, IIT Roorkee in association with CloudxLab.
- Dr. Shilpa Mahajan, CSE attended a workshop on Block Chain from 7- 11 December 2020 conducted by Amity University and received a certificate.
- Dr Pooja Sabherwal, Asst Prof, EECE Department, attended a 5-day virtual Global Technology Summit CARNEGIE India from 14-18 December 2020. The various tracks of the summit were-Geopolitics of Technology: Technical gets Political, Data: Linking the World, Digital Payments: The Future of Global Financial Highways, Digital Inclusion: Taking the Local to the Global and Transforming Healthcare for a Post-COVID World.
- Dr. Rohit Singh Lather, Head, ME, attended the Online Lecture Series organised by Society of Indian Automotive Manufacturers (SIA) on 'Indian Auto Industry's BS-VI milestone: Experience & Learnings', 'Global Experience on Vehicular Emissions Norms' and 'Ambient Air Quality Improvement in Indian cities.'
- Dr Shrutimita Mehta, CLL, completed a 5-day AICTE Training and Learning (ATAL) Academy Online FDP on 'Capacity Building' organised by National Institute of Technology, Patna from 14-18 December 2020.
- Dr Pooja Sabherwal, EECE Department, completed the training for Innovation Ambassador and was awarded as Innovation Ambassador by Ministry of Education's Innovation Cell. Also, she was asked to join the Innovation Ambassadors (IAs) League of Ministry of Education's Innovation Cell, AICTE, New Delhi. She also attended the online session on 'ARIIA 2021 - Orientation and Demonstration of Data Submission Portal' held on 22 December 2020 which was organised by Ministry of Education's Innovation Cell, AICTE, New Delhi.

## **RECOGNITION/PROJECT SUBMISSION**

- NEEV- National Educational Enrichment in Villages a social, educational initiative of IIT Alumni appointed Dr. Rohit Singh Lather as Coordinator for NEEV, The NorthCap University Chapter, Gurugram, Haryana.
- Dr Pooja Sabherwal, EECE Department submitted three projects along with three teams of EECE students, under 'Welcome to Innovate India', a scheme launched by the Government of India.

## **STUDENTS' ACHIEVEMENTS**

- Aarushi Dua, Mauktik Madan, Chaitanya Malik, and Ashish Kumar, students of CSE Department have been selected for Winter Internship with the organisation vDoIT Technologies. The faculty coordinators for the same were- Dr. Rita Chhikara and Dr. Sujata
- CSE students Ms. Sachi Chandna, Ms. Rushika Shrestha, Mr. Tushar Jindal, Mr. Vaibhav Saini, Mr. Hritik Kapil, Mr. Hitesh Sharma, Mr. Yash Chaturvedi, Mr. Harshit Nagpal, and Mr. Diwakar Sharma with the faculty mentor Ms. Poonam Chaudhary submitted AI-based solution for different real-life problems and received INNOVATION AWARD 2020 in Alibaba Cloud Global AI Innovation Challenge 2020. Alibaba Cloud has launched the Machine Learning Platform for AI (PAI) service to empower AI developers and innovators by lowering technical barriers and development costs. The

Alibaba Cloud Global AI Innovation Challenge was an open competition for global AI developers, researchers, startups, and solution providers to make and/or enhance their products or projects based on machine learning using PAI. Participants from around 30 countries have competed for two rounds of the competition.

- The IEEE Student Branch of our University has been felicitated with runners-up in the Student Branch Storyboard Video Presentation Contest at the IEEE All India Students Young Professionals Life Member's Women in Engineering Congress, 2020. This award is given to student branches showing exemplary efforts in creating a yearlong impact. The winning team members are Virendra Pratap-17CSU207 (Presenter), Anshul Yadav- 18CSU027 (Video Editor), Dikshit 19CSU379 (Video Editor), Anveshak Parashar- 18CSU030 (Video Editor), Arnay Kabtiyal - 18CSU033 (Video Editor), who presented and prepared a top-notch video displaying the activities of their student branch in a creative manner. The link to the video can be seen at [https://youtu.be/3nw\\_Q2eJfHc](https://youtu.be/3nw_Q2eJfHc)
- Dr. Pooja Sabherwal, EECE Department, and Ms. Vashali Kalra, CSE Department, guided three teams, each consisting of four students on how to participate in the Microprocessor Challenge organised by the Government of India. All the teams qualified for the quiz conducted under this challenge and submitted the detailed proposals of socially relevant projects. The result of the same is awaited.
- IEEE NCU won the Darrel Chong Student Activity Award 2020- IEEE NCU Student branch, under the guidance and leadership of Ms. Srishti Sharma, Asst. Prof. CSE and 17CSU207 Virendra Pratap Singh have been awarded the Darrel Activity Award in the Silver Category for the year 2020. The award's theme was 'Innovation in the Internet of Things,' for which more than 100 students from different countries participated.
- Two teams of EECE Department have been shortlisted in National Innovation Contest 2020-prototypes under Institution's Innovation Council, MoE's Innovation Cell, AICTE, New Delhi. These teams have now entered into the next level of mentoring by MIC. Details of the teams are as follows:
  1. Vehicle Payload Optimising-Group Leader- Nishant Yadav (ECE Final year student), Mentor-Dr. Anjali Garg. In this project, a vehicle's load is sensed and displayed on the LCD, wherein the strain gauge is used as a sensing element. The weight is displayed on LCD in tonnes based on the conversion process of voltage hence obtained.
  2. Innovative Smart Hosting Assistance-Group Leader- Divyam Sachdeva (ECE Final year student), Mentor- Dr. Anjali Garg. In this project, the Jack is automatically moved towards the flat tyre by sensing the faulty tyre's pressure and automatically lifts the vehicle from that side.
- Three students of B.Tech Civil Engineering 2016-2020 Batch have qualified in GATE 2020. The students who qualified the exam are- Kartik Yadav (16CVU011), AIR 3232; Sagar Sharma (16CVU021), AIR 12560; Ayush Dahiya, (16CVU007), AIR 18449.
- Team Technocrats from Computer Sciences and Engineering Department, comprising of students Nishant Khatri (Team Leader), Prabal Goyal, and Prakhar Bhatnagar (All final year CSE students) have been declared Tech E Theme Champions for the IoT domain at the Deloitte TechnoUtsav 3.0. In addition to earning prize money of ₹ 75,000/- all the three students have received pre-placement offers from Deloitte USA. The team worked in IoT domain for the Life Sciences and Healthcare Industry.
- CSE Team-'Swacchta Prabandh' comprising of six student members Eshita Mann (Team Leader), Dushyant Luthra, Lakshay Baweja, Hritik Kounsai, Devashish Nayak, and Sahil Khurana (students of final year CSE) along with Ms. Poonam Chaudhary & Mr. Sumit Kumar (CSE faculty members as faculty mentors) won the Smart India Hackathon 2020 (SIH2020) and earned a cash prize of Rupees One Lakh. The team developed business models for the collection and utilisation of single-use plastics and various other industrial wastes. More than 10,000 participants competed for this honour, which was held for three days.
- NCU student Pranav Jain, a 2019 Batch student who possesses exceptionally good technical skills, has got admission in Master's Degree in Computer Science at Stanford University, USA. While at the University, he earned a stipend worth US\$96,000 for his project at the International Internship program organised by Google. He was working as a Senior System Software Engineer at NVIDIA since July 2017.



## PLACEMENT ACTIVITIES

The placement for the year 2020 continued despite the unprecedented circumstances. For the period of November 2020 to 31 December 2020, a total of ten students were placed, out of which five were placed with Tata Consultancy Services.

## THOUGHT OF THE MONTH

World health and World economy travel together while technology has the capacity to bind people even in unprecedented times.

