Newsletter

March 2024

THE NORTHCAP UNIVERSITY

(For Internal Circulation only)

Department of Multidisciplinary Engineering

Workshop on 'Unleashing Innovation: A Journey Through Creativity'

Club Alumnate, Department of Multidisciplinary Engineering (MDE), in collaboration with the Centre for Professional Attachment and Alumni Engagement (CPAA), organised a workshop titled 'Unleashing Innovation: A Journey Through Creativity' on 20th March, 2024. The workshop was conducted by Mr. Naveen Goyal (Senior Social Media Strategist, AIS Infosource, and alumni of B.Tech. at NCU). Mr. Goyal's engaging presentation captivated the audience, offering valuable insights into innovative strategies and approaches. The interactive nature of the workshop encouraged active participation from the students, who eagerly shared their perspectives and ideas. His social media strategy and digital marketing expertise provided attendees with practical knowledge and actionable techniques to foster creativity and drive innovation. The workshop was coordinated by Dr. Anmol Bhatia.

Session on Balancing Quality vs Quantity in Industry Standards

Club Alumnate, Department of MDE, in collaboration with the Centre of Professional Attachment and Alumni Engagement (CPAA), organised an interactive session titled 'Balancing Act: Quality vs Quantity in Industry Standards' on 21st March, 2024. The event aimed to delve into the intricate balance between quality and quantity in industrial practices. Mr. Neel Shankar Dixit (Senior Engineer, Plasser India Private Limited and alumni of B.Tech. at NCU), was the session's speaker. Mr. Dixit illuminated the audience with insights into maintaining equilibrium between quality and quantity within industry standards. The session was coordinated by Dr. Anmol Bhatia.

Student Visit to Yuva Road Safety Summit 2024

Students from the Department of Multidisciplinary Engineering (MDE) had an enriching experience at the Yuva Road Safety Summit 2024 on 21st February at BR Ambedkar International Center, New Delhi. The students engaged in a live session with Chief Guest Shri Nitin Gadkari, Hon'ble Minister, MORTH, gaining insights into road safety policies. They honed road driving skills on a Maruti Suzuki simulator and received first aid training for road accidents. This immersive experience instilled a deeper understanding of road safety, empowering students to become responsible drivers and advocates for safer roads. The visit was coordinated by Mr. Lokesh Choudhary.

School of Law

Visit to the Institute of Company Secretaries of India

On 20th March, 3rd and 4th year BBA LLB students from the School of Law, accompanied by Ms. Deborisha Dutta and Ms. Priyanki Dutta Gupta, embarked on a fruitful visit to the Institute of Company Secretaries of India. This visit was planned to offer students a holistic view of the crucial role of company secretaries and the possibilities of a career in the same field. Students had the opportunity to interact with Company Secretary Mr. Avanish Srivastava, who underscored the importance of integrity, competence, and continuous learning in the pursuit of excellence in corporate governance.

Participants in Moot Court Competitions

A team of BBA LLB students, namely Rupesh (20LLB027), Aditya (20LLB001) and Anuj (20LLB094), participated in the R.C. Lahoti Memorial Moot Court Competition, organised by Manav Rachna University on 1st and 2nd March, 2024. The students successfully qualified up till the semi-final rounds of the competition.

A team of BBA LLB students, namely Chinmay Giri (21LLB048), Yardaan Malhotra (20LLB042) and Dhananjay Mishra (20LLB087), participated in the 20th Edition of K.K. Luthra Memorial Moot Court Competition 2024 organised from 15th-17th March at Campus Law Centre, Faculty of Law, University of Delhi. The theme for the competition was Criminal Law, with qualification for the same being subject to immense scrutiny of the written submissions made by the team earlier.

Department of Computer Science and Engineering

AWS Cloud Practitioner Certification Training

From 12th-27th March, the Department of Computer Science and Engineering (CSE) conducted the AWS Cloud Practitioner Certification Training for its B.Tech. (CSE) students. Mr. Manish Rajpal, an AWS Authorized Instructor Champion with over a decade of experience, led the sessions in collaboration with Unique Training Solutions. Practical training on AWS services aimed to prepare students for the certification exam, fostering their career prospects. The training was coordinated by Ms. Nishu and Dr. Srishti, guided by Prof. Rita Chhikara (Head, CSE).

Cython 2024 – Roadshow

On 19th March, the SOCER Club, in collaboration with the Centre of Excellence – Cyber Security at NCU, organised 'Cython 2024 – Roadshow,' a pre-hackathon workshop, an initiative by NCIIPC (A unit of NTRO) and FITT-IIT Delhi. It aimed to inspire innovation in cybersecurity. Representatives from FITT-IIT Delhi, NCIIPC, and esteemed entrepreneurs interacted with students to foster entrepreneurial spirit and problem-solving skills. The workshop provided participants with resources, mentorship, and networking opportunities preparing them for the Cython 2024 Hackathon. Coordinated by Ms. Kanika Gupta and Dr. Prachi, the event encouraged collaborative brainstorming for innovative solutions.

Big Dream Scholarship by Stockgro for Young Indian Minds

B.Tech. (CSE) student Nabanita Chatterjee (21CSU057) was awarded the prestigious Big Dream Scholarship by Stockgro for young Indian minds. She successfully secured the scholarship, which amounts to ₹50,000 for tuition fees, at this event hosted by Times of India.

Robo Soccer and Robo Race Competition

The Robotics team from the Department of Computer Science and Engineering (CSE) showcased remarkable dedication, skill, and innovation at E-Summit 2024 of IIIT Delhi on 14th March, at Springfest-2024 of Shoolini University from 15th-17th March, and Citronics-2024 of Chameli Devi Group of Institutes from 2nd-3rd March, 2024. They achieved 1st and 3rd positions in both Robo Soccer and Robo Race at E-Summit'24, securing a total prize of ₹14,000. Additionally, at Springfest 2024, they triumphed in Robo War and secured 2nd position, earning ₹15,000 and ₹10,000 respectively. At Citronics 2024, the team dominated with the 1st position in the Robo Race, and 2nd position in Robo Soccer, winning ₹14,000, ₹10,000, and ₹5,000 respectively.

ACIC-SGTU Code Sangam Hackathon

From 27th-29th February, a student team from the Department of Computer Science and Engineering (CSE) participated in ACIC-SGTU's Code Sangam, a 36-hours long hackathon hosted by SGT University, Haryana. The team, composed of Jatin Dahiya (21CSU235), Aryan Dahiya (21CSU017), and Jatin Gandhi (21CSU237), secured the 1st place with remarkable skills. Their achievements earned them a cash prize of ₹15,000, gift hampers, and prestigious internship offers, highlighting the recognition of their innovative project idea. Additionally, they were offered collaboration opportunities with Atal Community Innovation Centre and startup experts, enhancing their entrepreneurial journey. Guided by Dr. Anuradha Dhull and Dr. Shilpa Mahajan, their success was a testament to their exemplary abilities.

Department of Management and Commerce

Industry Visit to Yakult Danone

On March 19th, BBA students from the Department of Management and Commerce, under the diligence of Dr. Chand Prakash and Dr. Kanchan embarked on an enriching industry visit to Yakult Danone, Sonipat. This visit provided invaluable insights into the company's production processes, quality control measures, and marketing strategies. Students had the opportunity to witness firsthand the application of theoretical concepts learned in the classroom in a real-world business setting. It was a rewarding experience that deepened their understanding of the industry and enhanced their practical knowledge, preparing them for future endeavors in the field of management.

Visit to SEBI, Delhi

On 15th March, Dr. Priyanka Banerji and Dr. Parul Khanna coordinated the visit of undergraduate students of the Department of Management and Commerce to Securities and Exchange Board of India (SEBI), New Delhi. It was an enriching experience on operations of India's regulatory body for the securities market. Students gained an understanding on the pivotal role SEBI plays in safeguarding the integrity and transparency of stock markets. Exploring SEBI's initiatives in promoting investor education was particularly enlightening. As aspiring leaders in business and finance, insights gained during visit will undoubtedly shape students' understanding of stock market and its regulatory landscape.

'Go4Youth': The Economic Environmental Quiz

On 29th February, the Economic Collective Club organised a quiz titled 'Go4Youth': The Economic Environmental Quiz, where this event aimed to explore the intersection of economics and environmental sustainability through a quiz competition.

The "Economic Environmental" quiz competition attracted a total of 40 participants, including club members. After a series of closely contested rounds, Parvinder Singh Dhull emerged as the deserving winner of the quiz competition, showcasing exceptional knowledge and analytical skills. Saransh and Vishal Yadav secured the positions of first and second runners-up respectively, demonstrating commendable performance and resilience. The event was coordinated by Dr. Priyanka Banerji and Dr. Shaveta Sachdeva.

Community Service

- On 8th and 9th February, Club Yukti commemorated World Cancer Day with a heartwarming event named 'Heartfelt Healing' – dedicated to make a positive impact in the realm of healthcare by demonstrating empathy and a commitment to addressing the needs of those facing health challenges. The event witnessed enthusiastic student engagement, where the participants were tasked to donate hospital necessities such as gloves, medicines, and other medical supplies. The coordinators of the same were Saundarya Singh and Mehak Sharma under the guidance of Dr. Vaishali Sahu and Dr. Shrutimita Mehta.

- On 7th March, NSS NCU celebrated International Women's Day by distributing special brooches and cards to faculty and staff. The brooch distribution ceremony symbolises appreciation for women's contributions towards the university and the society as a whole, fostering unity and solidarity among both students and staff members. Participants engaged in discussions on gender-related issues, promoting awareness and inclusivity. The event underscored the university's commitment to supporting and uplifting women. By recognizing women's achievements, the celebration highlighted the importance of gender equality.

Center for Professional Attachment and Alumni Engagement (CPAA)

Placements

S. No.	Name of the Recruiter	Salary Offered	Total No. of Placements
1	SoftAge 2024	4.2	6
2	Care Health Insurance 2024	5.8	2
3	PwC	8	1

Pre-placement Preparation Session for B.Tech. Students

On March 18, NCU's Centre for Professional Attachment and Alumni Engagement organised a pre-placement preparation session, targeted toward empowering 2nd year B.Tech. students at The NorthCap University. Spearheading this session was Mr. Vikas Narula, Director, CPAA, whose opening address served as a beacon of inspiration and enlightenment for the attendees. Following his speech, Ms. Garima Arora, (Placements, NCU), delivered invaluable insights into the plethora of internship and placement opportunities available, while also delineating the skills and qualities sought after by prospective employers. This session not only instilled motivation but also furnished students with essential knowledge and guidance vital for navigating the competitive landscape of internships and placements, thus laying a robust groundwork for their forthcoming professional endeavours.

Faculty Achievements

- Prof. (Dr.) Archana Sarma (Head, School of Law) was invited to participate in a Tech Talk on 'Regional Cyber Security Challenges' organised by Deputy High Commissioner, Australian High Commission in collaboration with TechLegis Advocates & Solicitors on 20th March, 2024.

- Dr. Sujata, Assistant Professor-Sel. Grade, has been honoured with the 'Outstanding Woman Researcher in Machine Learning' award by VIWA2024 (Venus International Foundation) for her significant contributions and achievements in the field of Engineering.

- On March 16th, Ms. Akanksha Kaushik was invited as a guest speaker for the session titled 'Empowering Parents to Navigate AI Technology and Its Future Impact' by the AI Facilitator Community, CBSE, in collaboration with Intel.

- On 15th March, Dr. Shrutimita Mehta was invited to participate in a Focus Group Discussion on the theme 'Enhancing the Employability Skills for Higher Education Students', organised by Cambridge University Press. This intellectually stimulating discussion saw participation from representatives of prominent HEIs of Delhi, NCR.

- On 12th March, Dr. Neha Kumar was invited to conduct an e-workshop on Research Proposal Writing and Formatting, conducted by the Research Cell of Bundelkhand University as a part of Coursework training for the scholars specialising in the fields of Commerce, Management and Economics.

- Dr. Meghna Sharma participated in a one-week e-STC on 'Industry 4.0 Challenges and Interdependencies' from 19th-23rd February, 2024. The event was organised by the Department of Computer Science and Engineering at Dr. B R Ambedkar National Institute of Technology, Jalandhar, and sponsored by Agmatel India Pvt Ltd., Delhi.

- Dr. Tamalika Chaira reviewed several international journal research papers from various publishers, including PLOS ONE, IEEE Transactions, Elsevier, Springer, Taylor and Francis. Throughout her review process, she encountered a diverse array of novel techniques proposed by different authors.

- On 9th March Dr. Neeti Kashyap attained certification as an AWS Certified Cloud Practitioner, marking a notable achievement that reflects her dedication to professional advancement and her expertise within the realm of CSE.

- From January-March 2024, the CSE Department at NCU, in collaboration with Coding Ninjas, offered a specialised online training course on Introduction to Java and Data Structures in Java for its faculty members, which also assisted them in curriculum enhancement. Additionally, it exposed both faculty and students to platforms commonly used by organisations during campus selection processes, enabling practical coding experiences.

- Dr. Anu Tonk completed the 'Flutter-Beginners Course' from Udemy on 29th February, 2024. The course offers rapid instructions on building applications using Flutter for efficient cross-platform development, covering Dart programming and layout widgets for comprehensive application development.

Publications

- Kapil Shankar Gaur*, **Hukum Singh** and **Seema Thakran** (2023) 'Asymmetric Cryptosystem with Random Decomposition using Fractional Fourier and Fourier Transforms', Optica Applicata, Vol. 53, No. 4, pp. 591-602, **APS2024J0006**.

- Yachana Gupta and **Aditya Sharma Ghrera*** (2023) 'Development of Gold Nanoparticle based Lateral Flow Sandwich Assay for Colorimetric and Electrochemical Detection of Bacterial Infection Biomarker', Asia Pacific Journal of Science and Technology, Vol. 28, No. 4, pp. 1-7, **APS2024J0007**.

- **Mehak Khurana** and **Pankaj Rakheja*** (2024) 'Asymmetric Healthcare Biometric Image Encryption and Watermarking Technique using QZ Synthesis and QRD Algorithm', Multimedia Tools and Applications, Vol. 83, No. 6, pp. 1-23, **CSE2024J0004**.

- Haewon Byeon, V. Puvana Devi, A. Murugan, **Anu Tonk**, K. Haribabu, Harshal Patil and V.G. Anisha Gnana Vincy* (2024) 'Evaluating the

Potential Capability of Selenium Nanoparticles on Degradation of Hazardess Textile Dye using Environmental Friendly Approach', Global NEST Journal, Vol. 26, No. 2, pp. 1-9, **MDE2024J0011**.

- Mohammed Sid Ahmed Houari, Aicha Bessaim, Smain Bezzina, Abdelouahed Tounsi, Ahmed Amine Daikh, **Aman Garg** and Mohamed-Ouejdi Belarbi* (2024) 'Thermoelastic Bending Analysis of Thick Functionally Graded Sandwich Plates with Arbitrary Graded Material Properties using a Novel Quasi-3D HSDT', Archives of Civil and Mechanical Engineering, Vol. 24, No. 80, pp. 1-16, **MDE2024J0012**.

- Anshu Sharma, Li Li, **Aman Garg*** and Bong seop Lee (2024) 'Probe into the Volumetric Properties of Binary Mixtures: Essence of Regression-based Machine Learning Algorithms', Journal of Molecular Liquids, Doi: https://doi.org/10.1016/j.molliq.2024.124498, **MDE2024J0013**.

- **Sona Vikas**, Ashish Mathur*, Sneha Adavi, John Mohmmed Pasha Shaik and A.Seshachalam (2024) 'Recruitment and the Role of HR in Talent Acquisition: Optimal Methods for Hiring Top Talent', Journal of Informatics Education and Research, Vol. 4, No. 1, pp. 202-208, **SOM2024J0008**.

- **Deergha Sharma*** and **Parul Munjal** (2024) 'Determining the Key Drivers of FinTech Adoption in India', International Journal of Process Management and Benchmarking, Vol. 16, No. 4, pp. 533-554, **SOM2024J0010**.

- Pawan Kumar* and **Deergha Sharma** (2024) 'Prioritising the Financial Performance of Indian Private Sector Banks by a Hybrid MCDM Approach', International Journal of Process Management and Benchmarking, Vol. 16, No. 4, pp. 490-511, **SOM2024J0011**.

- Manpreet Kaur* and **Akasha Sandhu** (2022) 'Efficiency of Mutual Fund Schemes During Covid-19: Empirical Analysis in Indian Context Using Dea Approach', Journal of Contemporary Issues in Business and Government, Vol. 28, No. 4, pp. 1864-1875, **SOM2024J0009**.

- **Sona Vikas**, Rajesh E.*, Indira Singh and GP Raja (2023) 'Educational Psychology - Learning and Teaching', pp. 1-213, KAAV Publications, ISBN- 978-93-88996-50-1, **SOM2024B0005**.

- Aakanksha Avnish Bhardwajan*, Prem Ranjan Dubey, Rajath Sadasivan, Suresh Dakkumalla, T Subramanya Ganesh, **Sharda Vashisth** and Amitava Sengupta (2024) 'Design, Development and Realisation of a Tri-band (L1, L5 and S) Reference Receiver for NavIC Ground Segment', Institute of Navigation's International Technical Meeting, pp. 1007-1020, **MDE2024P0001**.

- **Vaishali Sahu***, Abhishek, Yash Vats and Niragi Dave (2024) 'Ecobricks - A Sustainable Solution to Plastic Waste', Innovation in Smart and Sustainable Infrastructure, pp. 383-394, **MDE2024P0002**.

Conference Presentations

- Payal Khurana* (2024) 'Cultural Clash and Harmony: Exploring Socio-relevance in Wole Soyinka's "The Lion and the Jewel."', Socio-Economic Relevance in Science, Social Science and Commerce Toward Sustainability, Govt. College for Men, Kadapa, Andhra Pradesh in collaboration with Global Foundation India, CLL2024C0015.

- Ishita Kapoor* and Shaveta Arora (2023) 'Exploring the Evolution, Innovations and Challenges in Robotics', 2nd International Conference on Sustainable Technologies and Advances in Automation, Aerospace and Robotics, VIT Bhopal University, CSE2024C0003.

- Neha Kumar* and Parul Kumar (2023) 'An Assessment of Mental Health of College Students using DASS2, SWEMWBS Satisfaction with Life', STRIDE International Conference 2023, School of Management & Liberal Studies, The NorthCap University, SOM2024C0014.

- Neha Kumar* and Parul Kumar (2024) 'Analyzing the Influence of Digital Financial Literacy using the SOR Model on Fintech Adoption', 16th International Conference on Business and Finance 2024, ICFAI Business School, Hyderabad, SOM2024C0015.

Note: * for Corresponding Author

Outreach Activities of Prof. Nupur Prakash,
Vice Chancellor, The NorthCap University, Gurugram, Haryana

Prof. Nupur Prakash
Vice Chancellor

○ Prof. Nupur Prakash was conferred with the National Academic Achievement Award at Spiritual and Value Education (SAVE) Summit organised by Indian Institute of Ecology and Environment on 13th March, at Indian International Centre.

○ Prof. Nupur Prakash attended the Higher Education Leader Roundtable as a speaker on 'Technology Integration for Enhanced Learning Outcomes: Exploring Innovations in Indian Education.' The event was organised by ObserveNow & D2L on 20th March.

○ Prof. Nupur Prakash was invited as a speaker on 'AR based Learning in Environment Education' organised by CII and IIT Mumbai, on 20th March, 2024.

○ Prof. Nupur Prakash attended a webinar on 'NAAC Reforms – Stakeholder Consultation – Northern Region' organised by NAAC Bangalore, on 18th March 2024.

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

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

❍ Prof. Prem Vrat was invited as Chief Guest at an event organised by the Brahmakumaris on the occasion of Mahashivratri, on 08th March 2024.

❍ Prof. Prem Vrat was invited as the Chief Guest at the inaugural event of the Executive Development Programme (EDP) on the theme 'Current Workflows in the Oil and Gas Industry' organised by IIT (ISM) Dhanbad at their Delhi Centre, on 11th March, 2024.

❍ Prof. Prem Vrat chaired the Finance committee and Board of Governors' meeting of IIT (ISM) Dhanbad at their Delhi Centre, on 12th March, 2024.

❍ On 15th March, Prof. Prem Vrat attended the alumni meet of IIT Delhi's graduating batch of 1974.

❍ Prof. Prem Vrat was invited as the Chief Guest in the inaugural session of the 02nd International Conference on 'Artificial Intelligence and Application (ICAIA 2024)' organised by Maharaja Surajmal Institute of Technology (MSIT), New Delhi, on 19th March, 2024.

❍ On 26th March, Prof. Prem Vrat delivered an expert lecture on 'Academic Leadership' in the Five-Days Workshop organised by IIT Roorkee on the theme "Nurturing Future Leadership Programme" (NFLP), as part of the Malaviya Mission Teachers' Training Program initiated by the Ministry of Education, Government of India.

❍ As its Honorary Professor, Prof. Prem Vrat delivered various lectures on Supply Chain Management at IIT Delhi in the month of March, 2024.

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