

# Newsletter

December 2025



## THE NORTHCAP UNIVERSITY

(For Internal Circulation only)

### NCU bags 'Gold Award' in NEP2020 Implementation in Haryana State

The Haryana State Higher Education Council (HSHEC) organised the NEP 2020 Implementation Excellence Awards as a flagship initiative to acknowledge and celebrate higher education institutions that have shown exemplary dedication and innovation in implementing the National Education Policy (NEP) 2020 across the state of Haryana. The prestigious award ceremony was graced by the Hon'ble Education Minister of Haryana, Mahipal Dhanda, whose presence added immense significance to the occasion and reaffirmed the state government's strong commitment to transformative reforms in higher education.

A total of 36 colleges and universities from across Haryana actively participated in this rigorous and competitive evaluation process, reflecting the widespread engagement of institutions in aligning themselves with the vision and spirit of NEP 2020. Based on a comprehensive assessment framework, only 10 institutions were conferred the coveted Gold Award, highlighting the high standards and stringent benchmarks set by HSHEC. The participating institutions were meticulously evaluated on 20 well-defined parameters framed by HSHEC, covering critical dimensions such as academic flexibility, multidisciplinary education, skill and competency-based learning, digital and online education initiatives, governance reforms, faculty development, student-centric practices, inclusivity, innovation, research integration, and alignment with national priorities outlined in NEP 2020.



### Department of Computer Science and Engineering

#### Industry-Based Capstone Project Assessment: Bridging Academic Learning with Industry Excellence

The Department of Computer Science and Engineering (CSE), successfully conducted the Industry-Based Capstone Project Assessment for final-year BTech students on 29th November. A total of 436 students presented 145 capstone projects, evaluated by 19 industry experts across multiple campus venues. Guided by Prof. Rita Chhikara, HOD-CSE, and efficiently coordinated by the Major Project Evaluation Team, the initiative ensured smooth execution and strong industry engagement. Experts from leading organisations provided valuable feedback on technical feasibility, innovation, and societal relevance. The assessment enhanced project quality, fostered research-oriented thinking, strengthened industry readiness, and bridged the gap between academic learning and real-world industry expectations.



### Xebia Hackathon at NCU: Igniting Innovation among First-Year Students

Xebia successfully organised an engaging Hackathon at The NorthCap University (NCU) for first-semester students, showcasing remarkable enthusiasm, creativity, and technical skills. The event provided a dynamic platform for students to ideate, collaborate, and develop innovative solutions to real-world problems. Guided by experienced mentors and evaluators, participants demonstrated strong problem-solving abilities, teamwork, and an industry-ready mindset.

The university extends sincere appreciation to Prof. Rita Chikara, Dr. Charu Jain, Dr. Meghna Sharma, and Dr. Nishu for their leadership and support. Special thanks to external evaluators from Xebia for their valuable insights. Such initiatives play a vital role in nurturing innovation and preparing students for future challenges.



### CSE Faculty Participation at ESTIC 2025

Prof. Rita Chhikara (Professor & Head, CSE), Dr. Tamalika Chaira (Associate Professor, CSE), and Dr. Poonam Chaudhary (Postdoctoral Fellow, CSE) represented the Department of Computer Science & Engineering at the Engineering Science and Technology Innovation Conclave (ESTIC) 2025, organised by the Department of Science and Technology (DST), Government of India. Held from 3rd to 5th November at Bharat Mandapam, New Delhi, the conclave was inaugurated by the Hon'ble Prime Minister of India. The event facilitated high-level discussions on emerging technologies, research innovation, and policy frameworks. The faculty also interacted with Shri Anil Sahasrabudhe, Chairman, NETF, gaining valuable insights into national education and technology reforms. The participation highlights CSE's commitment to academic excellence, research-driven innovation, and national and international collaboration.



### Department of Multidisciplinary Engineering

#### VLSI Conclave @ NCU

On 12th November, the Department of Multidisciplinary Engineering at The NorthCap University successfully organised the VLSI Conclave to inspire students toward careers in VLSI Design and Semiconductor Technologies. Distinguished alumni from leading VLSI and EDA organisations shared their career journeys, industry perspectives, and practical guidance for entering the semiconductor domain. Expert talks by Ms. Shivani Garg (Synopsys), Mr. Shankar Arora (Qbit Labs), Mr. Akshat Mathur (Siemens EDA), Dr. Shaifali Ruhil (Qualcomm), and Mr. Shubham Yadav (Synopsys) were followed by an interactive Q&A session. The conclave motivated BTech ECE and CSE students, particularly those pursuing the VLSI Design Minor Certification. The event was organised by Dr. Vandana Khanna under the guidance of Prof. Sharda Vashisth.



## NCU at 40th National Convention of Electronics & Telecommunication Engineers and NCET-2025

Dr. Vandana Khanna and Dr. Yogita Gigras represented The NorthCap University at the 40th National Convention of Electronics & Telecommunication Engineers and NCET-2025, held on 3–4 December 2025 at J.C. Bose University of Science & Technology, YMCA, Faridabad. Dr. Khanna served as Joint Organising Secretary, moderated a technical session, and delivered the Valedictory Vote of Thanks, while Dr. Gigras contributed as a Technical Committee Member. Their active participation strengthened NCU's national outreach and academic visibility. The engagement was further enriched by faculty-mentored student research paper presentations, showcasing NCU's commitment to research, innovation, and academic excellence.



## Faculty Outreach, Achievements, and Activity

- The Certification Committee, Department of Computer Science and Engineering (CSE), proudly announced that 17 faculty members successfully completed globally recognised certifications in December 2025.
- Faculty members Prof. Rita Chhikara, Dr. Srishti, Dr. Nishu, Dr. Bhavana Sharma, Dr. Shraddha Arora, Dr. Anuradha Dhull, Dr. Swati Gupta, and Dr. Nidhi Malik earned the Pearson Generative AI Fundamentals Certification.
- The Microsoft SC-900 Certification was completed by Prof. Prachi, Dr. Shilpa Mahajan, Dr. Garima Sharma, Dr. Namita Dahiya, Dr. Manvi Breja, Ms. Kanika Gupta, Dr. Pankaj Rakheja, and Dr. Yogita Gigras, while Dr.

Asha Sohal completed the Microsoft Azure AI-900 Certification.

- The initiative was facilitated by Dr. Srishti (Chairperson) and Dr. Nishu (Member Secretary). The department congratulates all faculty members on this commendable achievement.
- Dr. Asha Sohal successfully completed the Azure AI Fundamentals certification, validating technical proficiency in core artificial intelligence concepts, including machine learning principles, computer vision, natural language processing, and responsible AI. The certification also covers practical exposure to implementing AI solutions using Microsoft Azure AI services, reinforcing applied knowledge of cloud-based AI architectures and workflows relevant to research, teaching, and real-world deployments.
- Dr. Asha Sohal successfully completed the 12-week NPTEL certification course on Ethical Hacking, gaining in-depth technical exposure to cybersecurity principles, vulnerability assessment, network security, system exploitation, and countermeasure techniques. The course emphasised practical understanding of threat analysis, penetration testing methodologies, and ethical frameworks for securing digital infrastructure, strengthening expertise in secure system design and cyber defense mechanisms.
- Dr. Asha Sohal and Dr. Yogita Gigras successfully completed the One-Week Short-Term Training Programme on 'Development of E-Content & MOOCs,' organised by MMTTC, Shri Mata Vaishno Devi University, Katra (J&K), from 8th to 13th December 2025, enhancing expertise in MOOC design, digital pedagogy, and UGC-compliant e-content development.
- Dr. Manvi Breja successfully completed the Microsoft Security, Compliance, and Identity Fundamentals (SC-900) certification, demonstrating a strong foundational understanding of core security, compliance, and identity concepts. The certification validates proficiency in Microsoft Entra ID (identity and access management), security capabilities across Microsoft solutions, compliance management, and the principles of Zero Trust. It also reflects practical awareness of how Microsoft security and compliance solutions are applied in cloud and hybrid environments, supporting secure digital transformation in academic, research, and real-world organisational settings.
- Mr. Sumit Kumar successfully completed the IBM Full Stack Software Developer Professional Certificate. This achievement reflects a strong commitment to continuous learning and staying current with industry-relevant technologies. The certification encompasses hands-on training in full stack development, cloud computing, DevOps practices, and modern application development tools. This milestone further strengthens our academic expertise and enhances the quality of teaching, research, and practical guidance provided to students.
- Dr. Neha Jain, Head of the Department of Psychology at NCU, was invited as a Resource Person at the International Adolescent Leadership Summit 2025, organised by the Indian Council of Social Science Research (ICSSR), Ministry of Education, in collaboration with Expressions India. In her session titled 'Newer Paradigms of Counselling in Schools and Universities,' she highlighted the importance of contemporary counselling frameworks in addressing the evolving psychological needs of students. The panel discussion further emphasised the need to develop a comprehensive and supportive ecosystem to promote the mental well-being of adolescents and youth.

## Students' Achievements

### NCU Students Shine at Smart India Hackathon 2025 Grand Finale

A student team from The NorthCap University proudly represented the institution at the Smart India Hackathon (SIH) 2025 Grand Finale, held at G.H. Raisoni College of Engineering, Nagpur. Shortlisted from over 72,000 teams nationwide, the achievement highlights the team's innovation and technical excellence. The students developed AgroVision, a gamified, AI-enabled platform addressing the Government of Kerala's problem statement on promoting sustainable farming practices. The university congratulates Harshit Kalra, Nitisha Jhingan, Priya Kumari, Tanish Bhandari, and Sanya Singh, and appreciates the guidance of Dr. Anuradha Dhull and Dr. Shilpa Mahajan. Special thanks to Dr. Asha Sohal – College SPOC, and Ms. Sneha Kandacharam for their continued support.



## International Relations Office

### Immersion Programme 2025 at Asia Pacific University (APU), Malaysia

Four Students from The NorthCap University recently took part in the MESIC India Mobility Immersion Programme 2025 at Asia Pacific University (APU), Malaysia. The programme offered a valuable learning experience, both academically and personally. One of the main highlights was a Generative AI workshop, where students learned about new tools and how universities around the world use technology and innovation.

Along with academic sessions, students explored the culture of Kuala Lumpur, which helped them develop adaptability, time management, communication, teamwork, and leadership skills. The experience also helped students build

strong friendships and lasting memories. Participants thanked NCU for this opportunity, APU for their warm welcome, and MESIC for organising a smooth and meaningful international programme. Overall, the immersion reflected NCU's focus on global exposure and all-round student growth.



## Research at NCU

### Journal Publications

- Raman Yadav, Sachin\* and Phool Singh (2025) 'Security Enhancement of Three POMs Based Interference Algorithm Using Elliptic Curve Cryptography, Journal of Optics, Doi: <https://link.springer.com/article/10.1007/s12596-025-02962-7>, APS2025J0032.
- Vipin Kumar, Seema Thakran and Hukum Singh\* (2025) 'Secure Cryptographic Scheme Based on Generalized Reed–Muller (GRM) Codes and Laguerre–Gaussian Vortex Beams (LGVB) for Optical Image Encryption in Fourier Transform, Optica Applicata, Vol. 55, No. 3, pp. 473-492, APS2025J0033.
- Saranyaraja Muthumaniraja\*, Divyabha Vashisht and Payal Khurana (2025) 'Perfectionism and Anxiety in Japanese EFL Classrooms: A Conceptual Exploration, TPM (Testing, Psychometrics, Methodology in Applied Psychology), Vol. 32, No. s8(2025), pp. 2318-2327, CLL2025J0013.
- Preeti Kapoor\* and Shaveta Arora (2025) 'NetraNet: A Similarity Learning Method for Diabetic Retinopathy Classification and Clinical Diagnosis, International Journal of Diabetes in Developing Countries, Doi: <https://doi.org/10.1007/s13410-025-01577-9>, CSE2025J0047.
- Mohamed-Ouejdi Belarbi, Abdelhak Khechai, Abdelfodhil Bouhdjar, Pham Van Vinh, Aman Garg\*, Li Li and Akhil Garg\* (2025) 'Assessment of Free Vibration Frequencies of Nano-Scale Functionally Graded Materials Using Hybrid Machine Learning Approaches, Neurocomputing, Vol. 665, pp. 1-22, MDE2025J0054.
- Mehak Sharma, Vandana Khanna\*, Anu Tonk and Shaifali Ruhil (2025) 'Implementation and Comparative Analysis of Various Low Power FSM Synthesis Techniques, Journal of Electronics and Power Engineering, Vol. 2, No. 1, pp. 54-66, MDE2025J0055.
- Girish Chandra Bhatt\* and Manoj Kumar Gopaliya (2025) 'Integrating Sustainability and Bias-Resilient AI for Digital Business Ecosystems, Journal of Cyber Security, Vol. 7, No. 11, pp. 1-24, MDE2025J0056.
- Sachin S. Harak, K. Krishnaveni, K. Karthick, K. Chinnarasu, P. Venkata Hari Prasad, Anu Tonk and S. Mayakannan\* (2024) 'Experimental Study on the Mechanical Properties of Hybrid Areca and Abaca Fiber Reinforced

Polymer Composites, Journal of Environmental Nanotechnology, Vol. 13, No. 4, pp. 92-101, MDE2025J0057.

### Book Chapters

- Niragi Dave\*, Manasvi Banerjee, Vaishali Sahu and Jenil Thakkar (2025) 'Investigating Mechanical and Durability Properties of High-Strength Concrete Composites by Nano-Sewage Sludge (NSS)', in Recent Advances in Structural Engineering-Vol. 1, Part of the book series: Lecture Notes in Civil Engineering, Chapter. 11, pp. 103-115, Springer, ISBN - 978-981-96-8825-8, MDE2025BC0027.
- Sumanth Ratna Kandavalli, Mukesh Madanan, Anu Tonk, P.M. Sithar Selvam, M. Sathish and S. Mayakannan\* (2025) 'Cybersecurity in Smart Healthcare Systems', in Smart Technologies for Sustainable Development Goals: Good Health and Well-Being, Chapter. 13, pp. 245-260, CRC Press, ISBN - 978-1-003-63068-5, MDE2025BC0028.
- Girish Chandra Bhatt\* and Manoj Kumar Gopaliya (2025) 'The Preventive Power of Predictive AI: A Revolution For Remote Healthcare', in AI For All Bridging the Power of Artificial Intelligence with Society, Innovation, and Sustainable Development, Chapter. 12, pp. 135-144, Chyren Publication, ISBN - 978-93-7143-123-1, MDE2025BC0026.

### Conference Proceedings

- Girish Chandra Bhatt\* and Manoj Kumar Gopaliya (2025) 'Ensuring Fairness in AI-Powered Credit Decisions: Tackling Bias in Modern Banking', International Conference on Metaverse Banking and Financial Transformation, pp. 892-910, MDE2025P0009.

### Conference Presentations

- Neeru Goyal (2024) 'Thermodynamic properties of observed Universe for various dark energy conditions with decaying cosmological term', 3rd International Conference on "Recent Advances in Mathematical Sciences and Interdisciplinary Areas", Department of Mathematics, GLA University, Mathura, UP, India, APS2025C0006.
- Anushri Rawat, Shiva Nadavulakere and Neha Jain (2025) 'Having a Calling as an Antidote to Counterproductive Work Behaviors: Do Cultural Values Matter?', Academy of International Business Southeast Chapter Conference-2025, Southeast US (cruise across Miami, Florida and cruising to Puerto Plata, Dominican Republic ), PSY2025C0012.
- Ashwini Garg and Pallavi Bajpai (2023) 'Group of Companies Doctrine: Joinder or Misjoinder Under the Arbitration and Conciliation Act, 1996', International Conference on Law and Emerging Issues, School of Law, Auro University, Surat, SOL2025C0008.
- Madhuri D. Kharat (2025) 'The Bhagavad Gita as a Source of Mediation Philosophy : Understanding the Spiritual Dimensions of Conflict Resolution', The Relevance of the Bhagavad Gita in the Indian Legal System, Faculty of Law, University of Delhi, SOL2025C0009.
- Ashwini Garg and Pallavi Bajpai (2024) 'Challenges to Third-party funding of Arbitral disputes in India, under Arbitration and Conciliation Act 1996', Future of ADR (Trends & Predictions), School of Law, Narsee Monjee Institute of Management Studies, Hyderabad, SOL2025C0010.

Note: \* for Corresponding Author

## Outreach Activities of Prof. Nupur Prakash, Hon'ble Vice Chancellor



**Prof. Nupur Prakash**  
Vice Chancellor

- Prof. (Dr.) Nupur Prakash, Hon'ble Vice Chancellor, The NorthCap University, participated in the CII Big Data & Analytics Conclave held on 17th December, at Hotel ITC Maurya, New Delhi. The conclave was organised by the Confederation of Indian Industry (CII), Northern Region and witnessed the participation of industry leaders, academicians, and professionals from across sectors.
- The event was followed by focused deliberations on emerging trends, applications, and challenges in Big Data and Analytics. The conclave facilitated meaningful exchanges on data-driven decision-making, analytics-led innovation, and the growing role of data technologies in industry and governance.
- The well-structured sessions and interactions offered valuable insights into the evolving analytics ecosystem and highlighted the importance of collaboration between academia and industry.
- Prof. Nupur Prakash's participation reflected The NorthCap University's sustained engagement with industry forums and its commitment to keeping pace with advancements in data analytics and digital transformation.



## 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 Eminent Speaker at the 10th National Conclave on 'Philosophy of Education in Ancient India and Its Relevance from Gurukul to Global Wisdom' organised by Teerthanker Mahaveer University, Moradabad, Uttar Pradesh on 4th December through virtual mode.
- Prof. Prem Vrat, Chairperson of the Board of Governors, IIT (ISM), Dhanbad, visited the Institute from 7th to 11th December as part of the Centenary Foundation Week celebrations—an institutional milestone commemorating 100 Years of IIT (ISM). His key engagements during the visits are as under:
  - On 8th December 2025, he inaugurated the National Symposium on "Fueling the Future: Navigating the Global Energy Transition" at Penman Auditorium, and chaired both the Finance Committee Meeting and the Board of Governors Meeting. He also attended the Pre-Foundation Day Dinner at Scolomin House with the esteemed Guests, Institute Leadership and prominent personalities from the District Administration, Industry, Academia, and Corporate Sectors.
  - On 9th December 2025, Prof. Prem Vrat presided over the Foundation Day Proceedings, which included the Foundation Day Address by Chief Guest Shri Gautam Adani, the Award Ceremony, and Centenary Announcements. He further participated in the Round Table of Former Chairpersons & Directors.

- His leadership in governance steered crucial deliberations, aligning institutional decisions with long-term excellence. His academic stewardship broadened research horizons, positioning IIT (ISM) at the forefront of global energy transition challenges. His engagement with former Chairpersons and Directors reinforced continuity and institutional legacy.
- Prof. Prem Vrat's visit underscored IIT (ISM)'s unwavering commitment to governance, research, and service to the nation. With his vision and guidance, the Institute enters its second century with renewed momentum and resolve, ready to scale greater heights in national service and global impact.
- Prof. Prem Vrat chaired the Executive Committee meeting of Surajmal Memorial Education Society (SMES) at Maharaja Surajmal Institute of Technology (MSIT), New Delhi on 13th December 2025.





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