

Newsletter

May 2024



THE NORTHCAP UNIVERSITY

(For Internal Circulation only)

School of Law

Capacity Building Programme titled 'Rise and Lead: Young Women Pioneering Technology, Business, and Public Life'

In a concerted effort to empower young women and foster leadership potential, the National Commission for Women (NCW) collaborated with the School of Law at The NorthCap University, Gurugram, to organise a capacity-building programme titled 'Rise and Lead: Young Women Pioneering Technology, Business, and Public Life' on May 8, 2024.

The event aimed to ignite interest among young women in technology, public life, and corporate decision-making, enhance their awareness of leadership opportunities, and provide valuable leadership insights from experts in these fields. To foster significant interest in gender empowerment and leadership, the event featured various sessions led by Prof. Nupur Prakash (Hon'ble Vice-Chancellor, NCU), Prof. Manjula Batra (Senior Professor at School of Law), Ms. Shalini (Under Secretary, NCW), Ms. Charu Bali (IPS), Dr. Kavita Khanna, and Adv. Shweta Shroff Chopra.



Initiatives of the Pro Bono Club

- On May 5, the Pro Bono Club organised an impactful event on the Right to Education in Sectors 22 and 23, Gurugram. The event saw the participation of over 60 members, highlighting a significant community interest in this crucial issue. The audience's enthusiastic response underscored the importance of such awareness initiatives. High engagement levels and positive feedback from participants reflected a strong commitment to ensuring the Right to Education for all children. Additionally, the suggestions and challenges identified during the session offered valuable insights for future efforts to enhance education access and quality.

- The Pro Bono Club organised a workshop titled 'The Arbitration Landscape in India: A Comprehensive Understanding of the Arbitration and Conciliation Act' on April 26. This workshop aimed to provide participants with an in-depth understanding of the legal framework governing arbitration in India, equipping them with practical insights and essential knowledge for navigating the arbitration process within the Indian legal system. Esteemed speakers at the workshop included Mr. Saurav Agrawal (Senior Advocate, Member of ICC India Task Force, and Member of the Expert Committee of the Government of India on Arbitration Reforms) and Dr. Vandana Singh (Associate Professor, University School of Legal Studies, GGSIPU). The workshop was successfully attended by 80 students of the 4th year of BBA.LL.B (Hons.).



- The School of Law hosted a dynamic seminar for its 4th year students, featuring Dr. Jasvir Singh (IPS Officer and distinguished academician) on May 3. Dr. Singh led two thought-provoking sessions, focusing on money laundering and electoral bonds. His discussions, enriched with anecdotes and landmark case laws, made complex legal concepts accessible and engaging. In his sessions, Dr. Singh unravelled the complexities of money laundering, highlighting the dark side of financial crimes, and also delved into the intricate world of political finance. His clear explanations, supported by real-world examples and statistical data, provided students with a thorough understanding of the subject.



Centre for Language Learning

Workshop on Communication Skills

The Centre for Language Learning organised a series of workshops on communication skills for the university's technical staff, held on 6th April, 20th April and 4th May, 2024. The workshops were conducted to enhance the communication skills of the technical staff and foster a more effective and proficient workplace communication environment. The aim was to improve the attendees' verbal communication, written communication, and interpersonal skills, thus empowering the technical team to communicate more effectively with colleagues and students. The workshops were conducted by Dr. Payal Khurana.



Department of Computer Science & Engineering

TechEmerge Conclave: Illuminating the Path to Tomorrow

On April 16, the Department of CSE organised TechEmerge Conclave: Illuminating the Path to Tomorrow, chaired by Prof. Prem Vrat (Hon'ble Pro-Chancellor, NCU). The objective of the conclave was to assist students in making informed choices regarding their specialisation, understanding prospects, required skill sets, job opportunities, and available industry certifications. Dr. Sameer Saran (Dy. General Manager, Regional Remote Sensing Centre-North, NRSC, ISRO) graced the event as the Chief Guest, along with other scientists from ISRO and industry experts. The event also

featured the launch of the 'Quick Reference Guide for Digital Image Processing', authored by the Regional Remote Sensing Centre-North, NRSC, ISRO, under the supervision of Dr. Saran. Other eminent speakers at the event included Dr. Amit Sangroya, Mr. Himanshu Sharma, Mr. Naveen Sharma, and Mr. Shrey Mishra. The event was coordinated by Ms. Kanika Gupta, Dr. Garima Sharma, Dr. Swati Gupta, and Dr. Snehlata.



Mastering Mental States: A Journey from Stress to Success

On 29th April, the Department of CSE organised 'Mastering Mental States: A Journey from Stress to Success', led by the esteemed Ms. Anita Arora (NLP Practitioner, Life Coach, and Wellness Consultant). Ms. Arora shared practical strategies for conquering stress, including mindfulness, time management, and positive visualisation, providing students with effective methods to manage both academic and personal stress. Participants engaged in hands-on activities demonstrating the power of NLP (Neuro-Linguistic Programming) to reprogramme thoughts and behaviours, helping them understand the practical application of the discussed concepts.



International Conference on Intelligent Systems for Cybersecurity (ISCS 2024)

On May 3 & 4, the Department of CSE organised the International Conference on Intelligent Systems for Cybersecurity (ISCS 2024) in collaboration with IEEE and sponsored by DST SERB. This international conference aimed to bring together leading academic scientists, researchers, and industry professionals to share their experiences and research findings in the realm of various domains of cybersecurity. ISCS 2024 received over 1000 submissions from countries including the United States, Russia, Australia, China, India, and many others.

The event was honoured by the presence of Chief Guest Dr. (Smt.) Chandrika Kaushik (Scientist 'H' & Outstanding Scientist, Director General of Production Coordination & Services Interaction (PC & SI), DRDO). Prof. Munna Khan (Senior Member of IEEE and Head of the Department of Electrical Engineering at Jamia Millia Islamia) served as the Guest of Honour. The conference featured keynote addresses by Mr. C. Anantram (Independent AI Consultant and Former Principal Scientist at Tata Consultancy Services) and Mr. Sudhanshu Malhotra

(Senior Vice President at Gemini Solutions Pvt Ltd). All accepted papers are to be published in the Scopus Indexed IEEE Digital Xplore.

The conference was effectively led by conveners Dr. Mehak Khurana, Dr. Shilpa Mahajan, and Dr. Yogita Gigras, under the guidance of Prof. Rita Chhikara (Head, CSE).



Java Jamboree: Unveiling Tomorrow's Innovators

On May 7, the Department of CSE organised Java Jamboree, an event aimed at showcasing the exceptional projects and innovative spirit of undergraduate students in Java programming. Students presented their projects through presentations, reports, and code demonstrations. The event was judged by a panel of three members, including industry experts and alumni Mr. Naveen Sharma, Mr. Tushar Sethi, and Ms. Aastha Arora. The top 3 winners were Mayank Narang, Anisha Boken, and Anvi Munjal, who were awarded cash prizes of ₹3,000. Parth Aggarwal secured the 2nd place with a cash prize of ₹2,000, while Tina Dahiya took the 3rd place with a cash prize of ₹1,000. The event was coordinated by Ms. Bhavana Sharma and Ms. Vandana, under the guidance of Prof. Rita Chhikara, (Head, CSE).



Confederation of Indian Industry (CII) Annual Business Summit 2024

The Confederation of Indian Industry (CII) Annual Business Summit 2024, held in New Delhi on May 17 and 18, was a pivotal event focused on shaping India's economic trajectory towards becoming a developed economy by 2047. The theme, 'Co-Creating the Future Responsibly', underscored the collective effort needed from businesses and policymakers to drive sustainable growth. These sessions attracted over 2000 delegates, including global business leaders, economists, diplomats, and academics. Prominent speakers such as Finance Minister Nirmala Sitharaman, External Affairs Minister S. Jaishankar, Tata Sons Chairman N. Chandrasekaran, Infosys Co-founder Nandan Nilekani, Rajkumar Upadhyay, CEO of the Centre for Development of Telematics (C-DoT), and Irina Ghose, COO of Microsoft India, along with government officials and industry experts, shared their expertise on various subjects. Representatives from The NorthCap University, including Prof. Nupur Prakash (Hon'ble Vice Chancellor), Prof. Rita Chhikara CSE (Head, CSE), Dr. Meghna Sharma (Associate Head, CSE), and Mr. Vikas Narula (Director, CPAA), attended the summit as delegates. It provided a platform for NCY to

network with various Business Leaders and explore possibilities for industry collaboration and internships.



Department of Management and Commerce

Guest Session: Preparation of Return of Income & Online Filing of Returns

On May 3, the Department of Management and Commerce organised a guest session titled 'Preparation of Return of Income & Online Filing of Returns' for the students of B.Com (Hons.) & B.Com (Hons.) Financial Markets. The speaker for the session was CS Nitin Grover. Mr. Grover delved into the history of income tax, the concept of tax, TDS, and the importance of filing returns. He then elucidated the process of online filing and creating accounts on the income tax portal. This was followed by a discussion on penalties for non-compliance. The faculty coordinators for the event were Dr. Neha Kumar and Ms. Prerna Sharma.



Department of Multidisciplinary Engineering

Workshop on Advanced Air Conditioning Systems: Technologies, Components, and Eco-Friendly Solutions

From 9th to 10th May, the Department of Multidisciplinary Engineering, in collaboration with Daikin India Pvt. Ltd., organised a two-day workshop on Advanced Air Conditioning Systems. The workshop aimed at providing a comprehensive understanding of modern air conditioning technologies, components, and environmentally friendly solutions. It targeted students with a keen interest in gaining practical knowledge and insights into the field. It is hoped that the knowledge gained from this workshop shall empower the participants to contribute effectively to the advancement of sustainable HVAC practices in their future endeavours. The workshop was coordinated by Dr. Akanksha Mathur under the guidance of Prof. Sharda Vashishth, Head of MDE.



Webinar on Fundamentals of EV and its Simulation using MATLAB

On 1st May, the Department of MDE, in collaboration with the ISHRAE Gurugram Chapter, hosted a webinar titled 'Fundamentals of EV & Its Simulation in MATLAB.' The session, delivered by Mr. Bhasker Sharma (Associate Professor, LIET, Greater Noida), delved into the history, basic components, and working principles of electric vehicles (EVs). Participants also explored MATLAB, a powerful software tool, and learned how it simulates EV behaviour, enabling engineers to test and optimise designs virtually before building prototypes. The webinar was organised and moderated by Dr. Akanksha Mathur.

Webinar on Advanced HVAC systems

On May 4, the Department of MDE, in collaboration with the ISHRAE Gurugram Chapter, hosted a webinar titled 'Advanced HVAC Design Systems.' Mr. Yogender Kumar (Senior HVAC Designer, AECOM India Global Pvt. Ltd.) served as the keynote speaker for the webinar, which was organised and moderated by Dr. Akanksha Mathur. During the session, Mr. Kumar provided an in-depth overview of the latest advancements in HVAC design, emphasising innovative techniques and technologies that enhance system efficiency and sustainability.

Certificate Distribution Ceremony: ISHRAE NCU Student Chapter

After the successful completion of the society year 2023-2024 of ISHRAE ANCU Student Chapter, a Certificate Distribution Ceremony for the Society Office Bearers and Core Working Committee (CWC) members was organised. Marking the culmination of a year filled with successful and fruitful events, the

ISHRAE NCU Student Chapter proudly welcomed ISHRAE President Mr. Ravi Shankar Kumar as the esteemed guest for the certificate distribution ceremony. The event was a celebration of dedication, leadership, and teamwork, honouring the hard work and commitment of our outstanding members who have contributed immensely to the success of our chapter throughout the year. The dynamic team of President Aayush Kumar, Treasurer Aditya Ranjan, and Secretary Anirudh Naswa – led by Dr. Akanksha Mathur, the ISHRAE NCU Student Chapter achieved remarkable milestones and organised impactful initiatives throughout the year.



Certificate Distribution Ceremony for Six Sigma Yellow Belt Programme and Mitsubishi Value Added Course

The Department of MDE organised the successful completion and certificate distribution ceremony of two prestigious programmes: the Six Sigma Yellow Belt Programme and the Mitsubishi Value Added Course on Basics of iQ-R PLC.

Six Sigma Yellow Belt Programme: A rigorous six-day course comprising 30 hours of intensive training, empowered 39 students to become certified professionals, recognised by the 6Sigma Study Institute in Arizona. These individuals have demonstrated their commitment to quality and process improvement methodologies, poised to make significant contributions in their respective domains.

Mitsubishi Value Added Course on Basics of iQ-R PLC: Over 40 hours of comprehensive training, 27 students achieved the Certificate of Completion for the Mitsubishi Value Added Course on Basics of iQ-R PLC. Equipped with essential skills, these graduates are ready to leverage advanced automation technologies to drive innovation and efficiency.

The ceremony was coordinated by Prof. Anjali Garg and Dr. Anmol Bhatia, in the esteemed presence of Prof. Nupur Prakash (Hon'ble Vice Chancellor, NCU) and Prof. Sharda Vashishth (Head, MDE).



Industry Visit to Honda Motorcycle & Scooter India (HMSI) in Manesar

On May 28, Mechanical Engineering students from the Department of MDE visited Honda Motorcycle & Scooter India (HMSI) in Manesar. The visit provided an insightful experience into the manufacturing processes of bikes. Students observed the sophisticated assembly line where various components were meticulously integrated and were introduced to the intricacies of the manufacturing process, from raw materials to the finished product. Additionally, the students gained knowledge about the stringent quality control measures, including vibration and emission testing, which ensure the bikes meet industry standards. This hands-on experience enhanced their understanding of modern engineering practices and reinforced theoretical concepts learned in class. The visit was coordinated by Dr. Roshan Raman.



Centre for Professional Attachment and Alumni Engagement

- The CPAA team of The NorthCap University attended the launch of 'Pradipti', an internship programme initiative by the Airports Authority of India (AAI). The event, held at the Indian Aviation Academy, introduced an internship programme aimed at facilitating learning the practical aspects of Airport Infrastructure, Operations, and Air Navigation Services. An MoU has been signed between NCU and AAI, facilitating the internship implementation process.
- Mr. Vikas Narula (Director, CPAA) represented NCU at the CII Annual Business Summit in Delhi. The event provided valuable insights from prominent figures in the corporate, economic, and political spheres of the country. Distinguished leaders, business tycoons, leading economists, and young entrepreneurs contributed to engaging discussions and idea exchanges. The knowledge gained and connections made during the event will benefit NCU and its students, keeping them at the forefront of the rapidly evolving business landscape.
- A team from the Accreditation Service for International Colleges (ASIC), UK, visited the NCU campus for the renewal of accreditation. The CPAA team played a pivotal role in organising a meet-and-greet with alumni and industry partners, facilitating meaningful interactions with the ASIC team.

International Relations Office

ASU Masterclass on Cosmic Solutions for Earth's Problem-Solvers

On May 7, the International Relations Office, in collaboration with our partner Arizona State University, organised the ASU Master Class for the students of The NorthCap University. The session, titled 'Cosmic Solutions for Earth's Problem-Solvers', was delivered by Prof. David Thomas, Executive Director of the MILO Space Science Institute.

Participation at the International Fair, Universidad Privada Norbert Wiener, Peru

The International Relations Office actively participated in a virtual international fair organised by the International Department of Universidad Privada Norbert Wiener, Peru, on May 23. This event served as a significant opportunity for both institutions to enhance their international collaboration and student mobility.

During the fair, students from Universidad Privada Norbert Wiener were cordially invited to participate in a semester exchange programme at NCU. This programme offers students a chance to experience academic life at NCU, engage with diverse cultural perspectives, and benefit from the educational resources available at the university.

Dr. Pooja Sabherwal provided a comprehensive briefing to the participating students, highlighting the robust infrastructure of The NorthCap University. She detailed the wide array of programmes offered, key academic dates, and the costs associated with attending NCU. This briefing was crucial in helping students make informed decisions about their potential exchange or immersion experience.

From the Psychologist's Desk

Mastering the Art of Work-Life Balance

Work-life balance is the state of equilibrium where an individual keeps the demands of one's profession/career and the demands of one's personal life in equal priority and maintains a balance between the two. However, with growing competition and given the fast-paced environment of academia, one often blurs the boundaries between work and personal life, hence maintaining a healthy work-life balance has become increasingly challenging.

It is extremely important to maintain a balanced lifestyle for both mental and physical health. An imbalance between your work and personal life can lead to chronic stress which results in burnout, reduced productivity and a number of mental health issues, including anxiety and depression. On the contrary, a good balance of work and life leads to improved mood, creativity, and enhances your ability to engage more fully both at work and at home.

Let's explore some healthy strategies to help achieve this perfect balance of work and life:

- Prioritise tasks:** Categorise your tasks by matter of urgency and importance and focus on completing high-priority tasks during peak productivity hours at work so that major chunk of your work can be completed and you can delegate other less critical tasks for later.
- Set boundaries:** Make sure you clearly define your work hours and personal time. It is also important that you communicate these boundaries to your supervisors, colleagues and family members.
- Learn to say no:** Understand your limits and learn to not overcommit to something which is beyond your professional or personal capacity. Saying no to additional responsibilities when your plate is full is a crucial skill in maintaining balance.
- Unplug regularly:** It is important to take breaks from time to time to reconnect with yourself and your loved ones. Designate certain times or activities, such as meals or weekends, as tech-free zones.
- Engage in self-care:** Regular physical activity, adequate sleep, and healthy eating are foundational to managing stress. Make time for

hobbies and activities that rejuvenate your spirit, whether it's reading, gardening, or painting.

- **Seek support:** Don't hesitate to reach out for help if you're struggling to maintain balance. Whether it's a mentor, a colleague, or a mental health professional, having a support system can provide perspective and assistance.

Remember, balance is not about perfection but about making intentional choices that enrich your personal and professional life. I encourage all of you to take the time to evaluate your work-life balance and make the necessary changes to foster a healthier and more harmonious life.

Ms. Priyanka Bhalla
Psychologist
The NorthCap University

Student Achievements

- Students of the Pro Bono Club emerged as winners at the Nukkad Natak Competition organised by Maharaja Agrasen Institute of Management, on May 1. The performance, which eloquently portrayed the theme of 'Unity and Diversity of India', earned them the winners' trophy. In recognition of their outstanding effort, the team was also awarded a cash prize of ₹5000.
- On May 4, the students of the Pro Bono Club organised two significant events in Sector 22, Gurugram, focusing on voters' rights. The primary objective was to raise awareness about the right to vote among daily labourers and to encourage their participation in the democratic process. A dedicated team of nine students from the Pro Bono Club spearheaded the initiative, demonstrating their commitment to fostering civic engagement within the community.
- A student team composed of Prashant Choudhary (20CSU184) and Rashi Vats (20CSU186) – under the mentorship of Mr. Sumit Kumar, has been awarded 1st position at the Code for Cause Hackathon, organised by the Quare ETechnologies Pvt Ltd. The students had to present ideas on the theme 'Agritech, AI Innovation, Open Innovation & Industrial IoT' and the students were awarded a cash prize of ₹50,000/- for their achievement.
- 'Unstop Talent Park' was a national level problem-solving competition organised by Unstop. Rashi Vats (20CSU186), from the Department of CSE, was selected for the final round representing The NorthCap University.
- BBA students Fatehvir Singh and Mehul Kumar Sharma, under the guidance of Dr. Chand Prakash and Dr. Kanchan Yadav, presented their proposal titled 'A Comparative Analysis of Credit-Based MOOC Adoption and Completion among Public and Private University Students of Haryana' before the panel for Call for Projects Proposals under VCMSSI: Vice-Chancellor Merit Scholarship Scheme for Innovation (VCMSSI) 2024, and their proposal has been accepted under the scheme.
- The Department of CSE is delighted to announce the outstanding achievement of Alok Patra, who finished as runner-up in a chess tournament held at The NorthCap University.
- The Department of CSE is delighted to announce the outstanding achievement of our student Naman Jain, who won a gold medal in the Javelin Throw Competition held at The NorthCap University.

Faculty Achievements and Initiatives

- The faculty of NCU School of Law successfully completed the Online National Education Policy 2020 Orientation & Sensitisation Programme from May 20-29 of UGC- Malaviya Mission Teacher Training Centre (Formerly HRDC), University of Allahabad: Dr. Pallavi Bajpai, Dr. Rituparna Bhattacharjee, Ms. Deborisha Dutta, Mr. Himangshu Rathee, and Ms. Arushi Anthwal.
- Dr. Seema Thakran from the Department of Applied Science, in association with the Indian Women and Mathematics (IWM) organised screening of two short films Alicia Boole in the Land of Polytopes and Kovalevskai's Spinning Top on May 8 on the occasion of International Women in Mathematics Day. This day is celebrated in the honour of Maryam Mirzakhani, the first woman to win the Fields Medal.
- Dr. Payal Khurana was a reviewer of papers presented in the 1st National Conference on emerging Trends in Science & Technology (Hybrid) held on 26-27th April 2024 at government Engineering College West Champaran, Bihar, India.
- Dr. Shrutimita Mehta was invited as Session Chair at the 2nd International Student Research Colloquium (virtual) organised by the School of Humanities and Social Sciences, Manipal Academy of Higher Education (MAHE), Dubai campus on 20th May 2024. The colloquium, themed 'Exploring New Horizons in Literary, Behavioural, and Social Sciences', aimed to create a platform for growing researchers to engage with emerging areas of research in the fields of Psychology, Sociology, Literature and Media. Students from universities across India and GCC countries presented their research ideas during the sessions.
- Dr. Chand Prakash successfully completed iMBA with a specialisation in Digital Marketing from the University of Illinois at Urbana-Champaign through Coursera.
- Dr. Shrutimita Mehta participated in a 1-week online National Level Faculty Development Programme on Neuro-Linguistic Programming organised by Gokul Global University, Gujarat in collaboration with Nucleus of Learning and Development from 20 to 26 May.
- Dr. Nishi attended a 2-week DST-sponsored Faculty Development Programme on Entrepreneurship Development 2024 organised by Amity Innovation & Design Centre, Amity University, Uttar Pradesh.
- Dr. Anu Tonk and Dr. Anmol Bhatia completed the NEP 2020 Orientation & Sensitisation Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of the University Grants Commission (UGC), organised by Malaviya Mission Teacher Training Centre, Indian Institute of Science Education and Research Bhopal from April 15-24, 2024.
- Mr. Lokesh Choudhary attended a 1-day Professional Development Workshop on Data Analysis using AI on April 21, organised by Skill Nation, India. The workshop delved into the intricacies of data handling and intricate analysis using artificial intelligence tools, providing insights across various domains.
- Dr. Akanksha Mathur has been elected as the Student Activities Chair for the ISHRAE Gurugram Chapter for the society year 2024-25. Dr. Mathur took her oath and was officially installed as the student activities chair during an installation ceremony of the core working committee of ISHARE Gurugram chapter on April 6, at the Bristol Hotel, Gurugram.
- Ms. Akanksha Kaushik attended a Faculty Development Programme on 'Effect of Generative AI in Modern Research and Industry' from April 29 to

May 3, organised by Sister Nivedita University, West Bengal.

- Ms. Monika Yadav attended a Faculty Development Programme on 'Effect of Generative AI in Modern Research and Industry' from April 29 to May 3, organised by Sister Nivedita University, West Bengal.
- Dr. Nishi attended a 1-week workshop on IoT Enabled Robotics System conducted by the Centre of IoT and ESDM, SR University from 4th to 9th May.
- Dr. Sujata had been invited to review the research article by International Journal of Modern Physics C. (Web of Science) in the month of May.
- Ms. Akanksha Kaushik and Dr. Aarti had been invited as Session Chairs in the 4th International Conference on Machine Learning and Big Data Analytics (ICMLBDA 2024), held at National Institute of Technology from 9th to 11th May.
- Ms. Akanksha Kaushik has been invited to review the research article by the Journal Current Drug Therapy (Web of Science (ESCI)).
- Dr. Srishti, Dr. Poonam, Dr. Shaveta, and Mr. Sumit achieved the AWS Certified Cloud Practitioner certification, marking a significant milestone and proving their dedication to advance her professional skills and expertise in the realm of CSE.

Publication Data

Journal Publications

- Manoj and Aditya Sharma Ghrera* (2024) 'Molecularly Imprinted Orthophenylenediamine with Ti3c2txmxene-Based Biosensor for Sensitive Detection of Bilirubin', *Polymers for Advanced Technologies*, Vol. 35, No. 3, pp. 1-12, APS2024J0012.
- Vijayveer*, Anshu Malhotra, C B Gupta and L M Saha (2024) 'Evolutionary Dynamic of Quarter Car Model: Regular and Chaotic Evolution', *Tuijin Jishu/Journal of Propulsion Technology*, Vol. 45, No. 2, pp. 2474-2481, APS2024J0014.
- Sameer Kumar, Alka Chadha* and Rajni Rohila (2023) 'Existence of the Mild Solution to Impulsive Nonlocal Fractional Integro-Differential Equations', *International Journal of Applied and Computational Mathematics*, Vol. 10, No. 23, pp. 1-18, APS2024J0015.
- Rajni Rohila* (2024) 'A Bernstein Polynomial Differential Quadrature Method for Numerical Solutions of Kawahara Equation', *International Journal of Convergence in Healthcare*, Vol. 4, No. 1, pp. 20-25, APS2024J0016.
- Ayushi Bansal, Pankaj Rakheja* and Hukum Singh (2024) 'Double Iris Image Asymmetric Encryption Mechanism Using Rear Mounted Spiral Phase Mask in Hybrid Transform Domain', *Optical and Quantum Electronics*, Vol. 56, No. 782, pp. 1-28, APS2024J0017.
- Chetna Karnani* (2023) 'Re-envisioning the Spatial Praxis of Bombay: A Critique of Rajinder Singh Bedi's Dastak', *Dialog*, Vol. 42, pp. 165-175, CLL2024J0006.
- Swati Chauhan, Nidhi Malik* and Rekha Vig (2024) 'UNet with ResNextify and IB Modules for Low-Dose CT Image Denoising', *International Journal of Information Technology*, Doi: <https://link.springer.com/article/10.1007/s41870-024-01898-8>, CSE2024J0010.
- Bhawna Sharma*, Idemakanti Chandrakanth Reddy, Faraz Ahmad ,

Sujata and Chandraketu Singh (2024) 'Examining the Role of Gender in the Social Dynamics of Migration', *Educational Administration: Theory and Practice*, Vol. 30, No. 4, pp. 1058-1066, CSE2024J0011.

- Satnam Singh* and Akanksha Mathur (2024) 'Sustainability: The Myths and Realities in Indian Perspective', *Journal of Harbin Engineering University*, Vol. 45, No. 4, pp. 362-367, MDE2024J0021.
- Kumud Ranjan, Sushovan Basak and Manoj Kumar Gopaliya (2024) 'Understanding of Thermal Behaviour in Keyhole Plasma Arc Welding Process Through Numerical Modelling—An Overview', *Welding International*, Vol. 38, No. 6, pp. 395-408, MDE2024J0022.
- Yunis Khan, Roshan Raman*, Mohammad Mehdi Rashidi, Zafar Said, Hakan Caliskan and Anh Tuan Hoang (2024) 'Thermodynamic and Exergoenvironmental Assessments of Solar-Assisted Combined Power Cycle Using Eco-Friendly Fluids', *Journal of Thermal Analysis and Calorimetry*, Vol. 149, pp. 1125–1139, MDE2024J0023.
- Aman Garg and Li Li* (2024) 'Data-Driven Uncertainty Quantification and Sensitivity Studies in Free Vibration Behavior of Bio-Inspired Helicoidal Laminated Composite Cylindrical Shells', *Mechanics of Advanced Materials and Structures*, Doi: <https://doi.org/10.1080/15376494.2024.2355369>, MDE2024J0024.
- Esha Jain*, Priyanka Banerji and Jahanvi Bansal (2024) 'Volatility of FDI in Indian Manufacturing Sector', *International Journal of Business and Globalisation*, Vol. 36, No. 4, pp. 381-398, MOC2024J0002.
- Hukum Singh* and Kehar Singh (2024) 'A Secure Image Encryption Method Using Toroidal Vortex Phase Masks, or Decomposition, and Gyration Transform', *Asian Journal of Physics*, Vol. 33, No. 3 and 4, pp. 269-286, APS2024J0013.

Book Publications

- Jyotika Goyal* (2024) 'Psychosocial Factors in Relation to Perpetrators' Behavior Indulged in Sexual Abuse', pp. 1-173, RFI International Book Publication, ISBN - 978-81-19135-54-7, PSY2024B0001.
- Anju Bala*, Vijay N Patil, Dilip Kumar Jang Bahadur Saini and Vaishali Sahu (2023) 'Wireless Sensor Networks (WSN) in the Urban Landscape: A Smart City Perspective', pp. 1-202, Book Rivers, ISBN - 978-93-5842-653-3, MDE2024B0002.

Book Chapters

- Deepika Bansal* and Rita Chhikara (2023) 'Classification of Dementia Using Statistical First Order and Second Order Features' in *Blockchain and Deep Learning for Smart Healthcare*, Chapter. 10, pp. 235-253, Wiley, ISBN - 978-1-119-79238-3, CSE2024BC0009.
- Bhawna* and Shilpa Mahajan (2024) 'Artificial Intelligence Perspective on Digital Forensics' in *Applying Artificial Intelligence in Cybersecurity Analytics and Cyber Threat Detection*, Chapter. 3, pp. 33-44, John Wiley, ISBN - 9781394196449, CSE2024BC0010.

Conference Proceedings

- Anisha* and Rajni Rohila (2024) 'A Numerical Algorithm Based on the Modified Quintic B-Splines for the Fisher's Equation', *Frontiers in Industrial and Applied Mathematics*, 2022, pp. 1-10, APS2024P0001.
- Srishti Vashishtha*, Rachna Narula and Poonam Chaudhary (2024) 'Classification of Musical Instruments' Sound using KNN and CNN', 11th International Conference on Computing for Sustainable Global Development, pp. 1196-1200, CSE2024P0003.
- Bhavana Sharma*, Mehak Khurana and Hukum Singh (2024) 'Optimised Hybrid Image Encryption Scheme Using Arnold Transform, Chaotic Map and Genetic Algorithm for Improved Security and Robustness', 5th International Conference on Frontiers in Industrial and Applied Mathematics, pp. 060002(1)-060002(12), CSE2024P0004.
- Soumya Sharma*, Srishti Sharma and Deepak Gupta (2024) 'Unveiling Emotions in the Digital Arena: Sentiment Analysis of YouTube Comments on FIFA World Cup 2022', 3rd International Conference on Technological Advancements in Computational Sciences, pp. 994-997, CSE2024P0005.
- Sumit Pandey* and Srishti Sharma (2023) 'Meta-Learned Word Embeddings for Few-Shot Sentiment Classification', International Conference on Smart Trends in Computing and Communications, pp. 577-589, CSE2024P0006.
- Sujata (2024) 'Mild Cognitive Impairment Conversion Prediction', 5th Doctoral Symposium of Computational Intelligence, Institute of Engineering and Technology, Dr APJ Abdul Kalam Technical University, Lucknow, India, CSE2024C0005.

Note: * for Corresponding Author

Conference Presentations

- Tanvi Yadav and Aditya Sharma (2024) 'Chitosan Based Magnetic Nanocomposites for Removal of Metals and Dyes from Wastewater', International Conference on Current Trends in Chemical Sciences for Sustainable Living, Shyam Lal College (University of Delhi), APS2024C0004.
- Piyushi Kumari and Aditya Sharma Ghrera (2024) 'Electrochemical Deposition of Platinum Nanoparticles', International Conference on Current Trends in Chemical Sciences for Sustainable Living, Shyam Lal College (University of Delhi), APS2024C0005.
- Sanjay Kumar Mishra (2023) 'Analytical Study of Open Source Koha - Integrated Library Management Software with Special Reference to OPAC', International Conference on Library Technology Relationship, Association of Senior Library and Information Professionals and J.L.N Medical College, Ajmer, Rajasthan, APS2024C0006.
- Gouri Kapoor (2024) 'The Poetics of Failure in Ila Arab Mehta', Embracing the Forte of SDGs in English Language and Literature: A Cognitive Perspective, SRM Institute of Science and Technology, Chennai, CLL2024C0017.
- Priyanka Saini, Shrutimita Mehta and Payal Khurana (2024) 'Exploring Ecofeminism in Margaret Atwood's Oryx and Crake', International Conference on Nature, Culture, Literature: Contemporary Perspectives, Mannar Thirumalai Naicker College, Madurai, CLL2024C0018.
- Priyanka Saini, Payal Khurana and Shrutimita Mehta (2024) 'Gender Performance and Identity in Bliss by Katherine Mansfield and Girl by Jamaica Kincaid', New trends in Education, Teaching, Learning and Technology, Vidyasagar Teacher Training college, West Bengal, CLL2024C0019.

Outreach Activities of Prof. Prem Vrat, Pro-Chancellor, Professor of Eminence and Chief Mentor, The NorthCap University, Gurugram, Haryana



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

- Prof. Prem Vrat delivered a lecture to Project Management Batch 08 under the CEP Programme at IIT Delhi in online mode on 4th May.

- Prof. Prem Vrat was invited as the External Expert in the faculty selection committee meeting of BIMTECH, Greater Noida at their campus on 8th May.
- On 16th and 17th May, Prof. Prem Vrat delivered distinguished online lecture sessions on Quality Management in Projects and Value Engineering in Projects, to senior engineers and managers of M/s Asthra Microwave Products Pvt. Ltd., Bengaluru in a CEP programme organised by IIT Delhi.
- As Chairman of AICTE's MOU Committee, Prof. Prem Vrat reviewed five proposed MoUs between AICTE and other institutes to give the committee's recommendations to AICTE on 28th May.

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



Prof. Nupur Prakash
Vice Chancellor

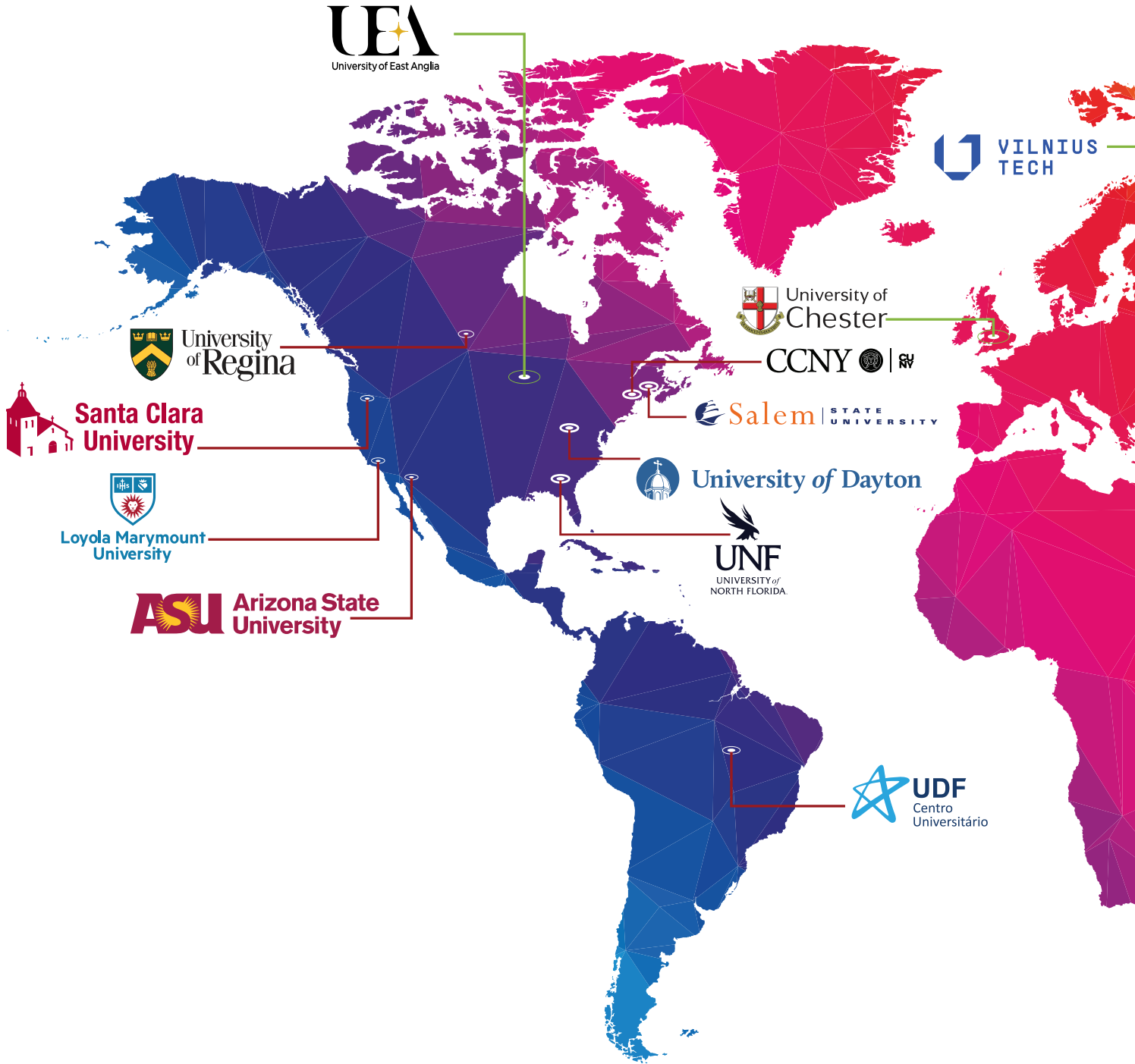
- Prof. Nupur Prakash delivered the inaugural address for the 'IEEE International Conference on Intelligent Systems for Cybersecurity (ISCS)' held at The NorthCap University on 3rd and 4th May.
- Prof. Nupur Prakash attended the Master Class organised by Arizona State University based on the theme 'Cosmic Solutions for Earth's Problem Solvers' on 7th May.

- Prof. Nupur Prakash addressed the 'Capacity Development Programme on Rise and Lead: Young Women Pioneering Technology, Business and Public Life' held at The NorthCap University on 8th May, in collaboration with NCW and School of Law.
- Prof. Nupur Prakash attended a webinar titled 'Latest Trends in AI from Enterprise Building Training Solutions' on 11th May.
- Prof. Nupur Prakash attended a webinar titled 'Work Transformation Summit APAC' on 16th May.
- Prof. Nupur Prakash attended the Annual Business Summit 2024, organised by Confederation of Indian Industry (CII) and based on the theme 'Journey Towards Viksit Bharat: Progressing Through Reforms,' on 17th May.
- Prof. Nupur Prakash attended the National launch of Spiritual Empowerment for a Clean and Healthy Society at Bharat Mandapam, presided by the President of India Draupadi Murmu on 27th May.



Highlights from the International Relations Office

Our International Partners

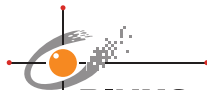




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