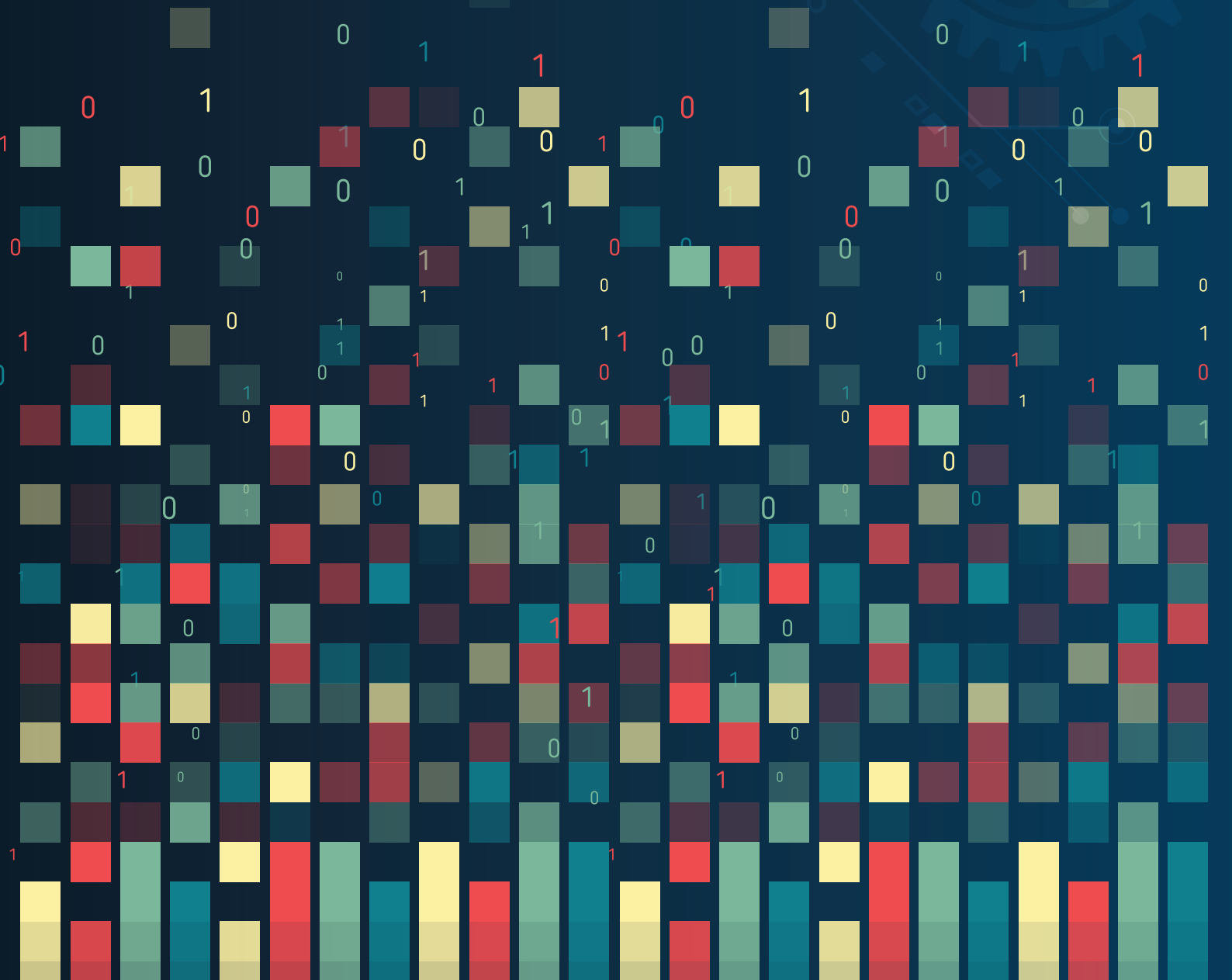


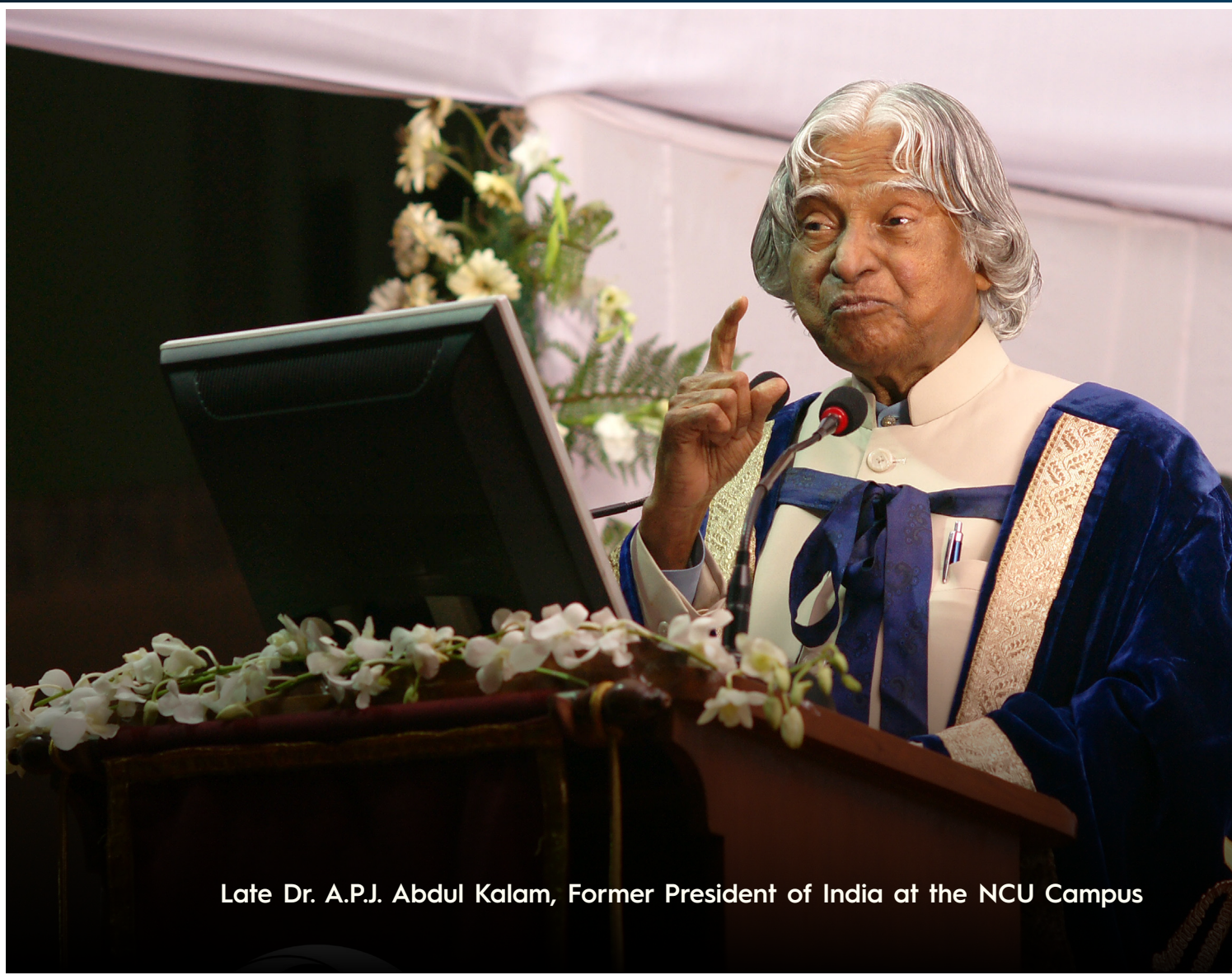


DEPARTMENT OF

COMPUTER SCIENCE and ENGINEERING

BTech | BSc | MTech | MCA | PhD





Late Dr. A.P.J. Abdul Kalam, Former President of India at the NCU Campus

**Discover Future Tech Skills
for a Successful Global Career**

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**Ranked as 1st in the
Engineering category by
GHRDC Survey 2025.**

About The NorthCap University



The NorthCap University (NCU) is a progressive, multidisciplinary university located in the city-centre of Gurugram, Haryana, within India's most prominent corporate and innovation ecosystem. Established in 1996, the university brings with it a rich legacy of nearly 30 years of excellence in higher education, research, and industry engagement. With a strong alumni network of 15,000+ professionals, NCU has consistently contributed to nation-building by nurturing skilled, ethical, and industry-ready graduates.

Operating from a state-of-the-art urban campus, NCU offers programmes across Engineering & Technology, Management, Liberal Arts, Law, and Applied Sciences. Its strong academic and research infrastructure supports outcome-driven collaborations with government, industry, startups, and research organisations, positioning NCU as a research and talent catalyst in the National Capital Region.

NCU is a National Assessment and Accreditation Council (NAAC) Grade 'A' accredited university and is recognised by the University Grants Commission (UGC) and the Bar Council of India (BCI). The university is a member of prestigious national and international bodies, including the Association of Indian Universities (AIU), the Association of Commonwealth Universities (ACU), UK, the American Society for Quality, and is accredited by the Accreditation Services for International Colleges (ASIC), UK—reflecting its adherence to global academic and governance standards.

NCU follows an immersive, experiential, and outcome-based pedagogy across undergraduate, postgraduate, and doctoral programmes, guided by eminent academicians, researchers, and industry leaders. The university holds QS 5-Star ratings in Teaching, Employability, Academic Development, Online Learning, and Inclusiveness, and ranks among the Top 30 Best Performing Universities in India under ARIIA.

Internationalisation is a key pillar of NCU, with over 30 global academic collaborations enabling student and faculty exchange, joint research, and dual-degree and immersion programmes. Partner institutions across North America, Europe, Asia, and Australia enhance global exposure, research synergies, and global competence.

15,000⁺
ALUMNI
NETWORK

3500⁺
STUDENTS

250⁺
PLACEMENT
PARTNERS

Rankings, Ratings and Quality Benchmarks



Established under Haryana Private University Act No. 25 of 2009 (Third amendment)



- **Recognised by the University Grants Commission**
- **Accorded UGC 12(B) Status**



Recognised by the Bar Council of India, Govt. of India



Accredited by the National Assessment and Accreditation Council (NAAC) as **Grade 'A' university**



Member of Association of Indian Universities



Rated as 5-star University by QS Star Rating System 2025



In NIRF, in the Engineering category, NCU is placed in the rank band of 101-150 in 2025



Ranked as 1st in the Engineering category by GHRDC Survey 2025.



School of Management & Liberal Studies was ranked No. 1 in Haryana in GHRDC BBA College Survey, 2024



Ranked as the 2nd Best Law school in Haryana by GHRDC Survey 2025.



Accredited by Accreditation Services for International Schools, Colleges & Universities (ASIC) as a PREMIER INSTITUTION with commendable grades (2nd August 2024 - 1st August 2028)



Member of International Students Exchange Programme



Member of American Society for Quality (India)



Honoured with the prestigious University with Modern Infrastructure (Engineering) by the Services Export Promotion Council (SEPC), a unit of the Ministry of Commerce and Industry, Government of India.



Among Top-30 'Best Performer Universities' in Atal Ranking of Institutions on Innovation & Achievements (ARIIA)



In the Green Institutional Rankings 2025, NCU was placed in the Diamond category under the Sustainable Institution of India (SII) Awards.



NCU received the District Environment Championship Award 2025 for Gurugram, conferred by the National Edu Trust of India.



Message from the Pro-Chancellor

Prof. Prem Vrat

**Pro-Chancellor, Prof. of Eminence & Chief Mentor
The NorthCap University**

The School of Engineering & Technology (SOET) at The NorthCap University is committed to delivering outcome-driven, future-focused education that responds to the evolving demands of global industry and society. With a strong emphasis on academic rigour, innovation, and experiential learning, SOET nurtures engineers who are technically proficient, ethically grounded, and globally competitive.

Our engineering programmes are designed in close alignment with industry expectations and emerging technological trends, integrating cutting-edge curriculum, hands-on laboratory experience, interdisciplinary learning, and applied research. Supported by experienced faculty, modern infrastructure, Centres of Excellence, and strong industry collaborations, SOET provides an ecosystem that encourages creativity, critical thinking, and problem-solving.

In a rapidly transforming global marketplace, we believe engineers must go beyond technical competence to become innovators, leaders, and change-makers. At SOET, students are empowered to adapt, evolve, and contribute meaningfully to technological advancement and sustainable development.

I warmly welcome aspiring engineers to the School of Engineering & Technology at The NorthCap University and invite them to embark on a transformative journey towards professional excellence and global impact.





Message from the Vice Chancellor

Prof. (Dr.) Nupur Prakash

**Vice Chancellor
The NorthCap University**

Welcome to The NorthCap University, a forward-looking multidisciplinary institution committed to academic excellence, innovation, and holistic development. The University provides an enriching learning environment where individuals are not restricted by the boundaries of a single discipline. Our vision is to impart high-quality, value-based education that empowers students with strong academic foundations, ethical values, and competitive skills required in an ever-evolving global landscape. We aim to instill confidence among learners so that they can explore new opportunities and confront future challenges with determination and clarity.

At NCU, education goes beyond classrooms. The University promotes intellectual curiosity, independent thinking, creativity, and leadership skills essential for success in a rapidly changing world. A holistic perspective supported by flexibility forms the foundation of our academic policies. Our curriculum framework encourages interdisciplinary learning and is regularly reviewed and updated to incorporate the latest developments across subject domains, ensuring academic relevance and contemporary knowledge.

The University takes pride in its well-qualified and dedicated faculty members who are deeply committed to teaching, mentoring, and research. Our industry-ready curriculum, technologically advanced teaching methodologies, and innovative learning tools strengthen the connection between theory and real-world application.

The NorthCap University has earned national and international recognition for its academic standards and institutional quality. The University was awarded 'A' grade by the National Assessment and Accreditation Council in 2022 for a period of five years. It has also been reaccredited by the Accreditation Services for International Colleges (ASIC), United Kingdom, under the 'Premier University' category with a commendable grade. NCU is recognised by the University Grants Commission and the Bar Council of India, and has received several prestigious awards and recognitions at national and international level.

The University maintains strong academic collaborations with leading institutions, including associations with IIT Mandi, enabling students to enroll in specialised programme in semiconductor technology and certification opportunities. NCU also fosters global partnerships that support student exchange programmes with reputed international universities, offering valuable global exposure.

NCU provides excellent infrastructure including smart classrooms, well-stocked library, sports facilities, gymnasium, and diverse extracurricular platforms that promote holistic development. Learning at The NorthCap University is designed to be dynamic, engaging, and transformative.

I extend my best wishes to all the students aspiring to take admission at The NorthCap University—a centre of academic excellence, innovation, and global outreach.

Message from the HOD's Desk



Prof. (Dr.) Rita Chhikara

**Head, Department of Computer Science & Engineering
The NorthCap University**

At the Department of Computer Science & Engineering, The NorthCap University, Gurugram, we believe engineering education must go beyond classrooms to create innovators, leaders, and problem-solvers for a technology-driven world. Guided by NEP 2020, our programmes emphasise flexibility, multidisciplinary learning, experiential education, and outcome-based skill development.

Our curriculum provides a strong foundation in core computing concepts while enabling exploration of emerging areas such as Artificial Intelligence, Data Science, Cloud Computing, Cyber Security, and Quantum Computing. Through project-based learning, MOOCs, industry certifications, internships, and research exposure, students graduate with knowledge and practical competence.

Placements remain a key focus, supported by continuous industry engagement, structured training, mentorship, and flagship initiatives. We promote global exposure through international collaborations, expert lectures, certifications, semester exchange, summer immersive, and research publications.

Driven by dedicated faculty and a vibrant research culture, we nurture ethically responsible, innovative, industry-ready professionals and invite aspiring engineers to join us.

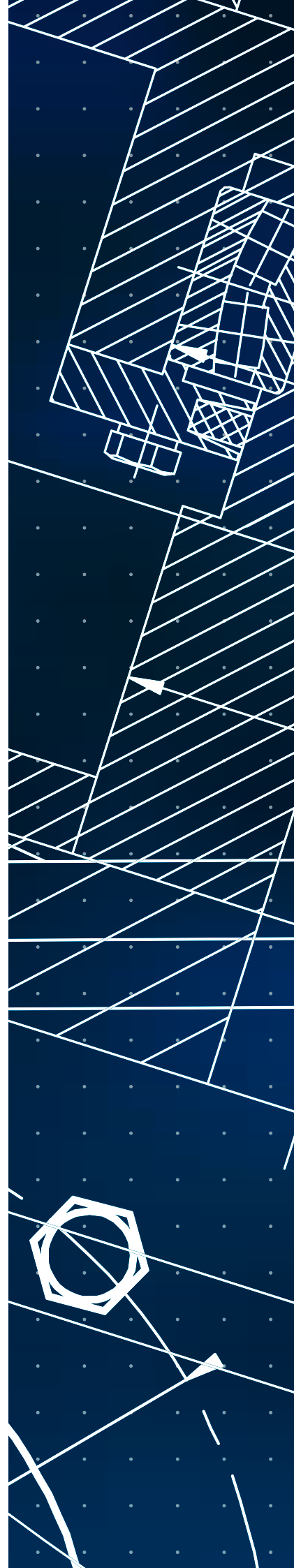
School of Engineering & Technology

A forerunner among engineering schools in the Delhi-NCR, the School of Engineering and Technology (SOET) at The NorthCap University is firmly established as a centre of engineering excellence, research, and innovation, combining a rich legacy of pedagogy with the adoption of best global practices. As the largest and oldest academic unit of the university, SOET comprises two core departments—the Department of Computer Science & Engineering (CSE) and the Department of Multidisciplinary Engineering (MDE)—and offers comprehensive undergraduate, postgraduate, and doctoral programmes designed to equip students with the skills, knowledge, and ethical grounding necessary for the modern engineering landscape. Every programme emphasises critical thinking, innovation, problem-solving, and leadership, while promoting intellectual maturity, professional competence, and ethical responsibility.

SOET's future-ready, choice-based curriculum integrates theoretical foundations with hands-on practical training, leveraging state-of-the-art laboratories, smart classrooms, digital resources, and collaborative learning environments to foster academic flexibility alongside traditional learning methods. The school emphasises experiential education through industry internships, research projects, live case studies, academic collaborations, and co-curricular initiatives, ensuring that students gain real-world exposure and develop skills aligned with emerging global engineering trends.

The school's dedicated and dynamic faculty actively mentor students, creating a robust mentor-mentee culture that provides guidance, counselling, and personalised support for academic and professional growth. SOET maintains strong engagement with industry partners, alumni networks, and international universities, offering student and faculty exchange programmes, research collaboration opportunities, and exposure to cutting-edge global practices.

Focused on holistic development, SOET nurtures communication, teamwork, leadership, and cultural awareness through co-curricular and extra-curricular activities, skill-based courses, and value education. By fostering a culture of innovation, research, and lifelong learning, SOET prepares its graduates to become globally competent, socially responsible, and technologically proficient engineers capable of addressing complex challenges, driving sustainable development, and contributing meaningfully to society.



Department of Computer Science & Engineering

The Department of Computer Science & Engineering at The NorthCap University is a key academic unit under the School of Engineering and Technology (SOET), committed to excellence in computing education, research, and innovation. Since its establishment, the department has focused on developing strong technical foundations, computational thinking, and problem-solving abilities among students to meet the demands of the rapidly evolving technology landscape.

The Department of Computer Science & Engineering offers rigorous academic programmes that equip students with a comprehensive understanding of computer science principles, programming, data-driven technologies, and emerging domains such as Artificial Intelligence, Cyber Security, Data Science, and Cloud Computing. The department strives to foster professional competence, intellectual maturity, innovation mindset, and ethical responsibility among learners while preparing them for global careers and higher studies.

To achieve these goals, the department adopts a blend of modern teaching techniques and experiential pedagogy delivered by qualified faculty and industry experts. Learning extends beyond classrooms through hands-on lab work, coding practices, live industry projects, hackathons, research activities, internships, and technical competitions. The pedagogy integrates simulations, case studies, collaborative projects, seminars, and presentations, ensuring that students develop both technical expertise and essential professional skills required in real-world environments.



**Cutting-Edge Programmes
Designed with Industry Leaders**

Our Vision

To contribute significantly through adoption of contemporary computing tools and technologies in academics, innovations, socially relevant research and problem solving; to be recognised universally as a promoter of emerging technologies for transforming lives of individuals and society.

Our Mission

- To develop competent professionals with analytical skills and independent thinking, through excellent undergraduate and graduate education programmes to meet the needs of academia and industry.
- To enhance theoretical and applied skills of faculty and students through long-term national and international collaboration with industry and research organisations.
- To continuously improve physical, academic, IT and computing infrastructure.
- To contribute towards social upliftment by focusing on entrepreneurship, data driven and research-based socially relevant projects.
- To create a nurturing environment for lifelong learning skills.

Programmes Offered – Department of Computer Science & Engineering (CSE)

Undergraduate Programmes
BTech Computer Science & Engineering (CSE)
with specialisations in <ul style="list-style-type: none">• Artificial Intelligence and Machine Learning• Cyber Security & Forensics• Full Stack Development• Data Science• Gaming, Augmented Reality & Virtual Reality• Quantum Computing

Postgraduate Programmes	
Master of Computer Applications (MCA)	MTech in Computer Science & Engineering
	with specialisations in <ul style="list-style-type: none">• Cyber Security & Forensics• Data Science

Doctoral Programme
PhD in Computer Science & Engineering
Research areas include <ul style="list-style-type: none">• AI & ML• Data Science• Cyber Security• Cloud Computing• Software Engineering• Signal & Image Processing, and related domains

WHY CHOOSE SOET, THE NORTHCAP UNIVERSITY?

School of Engineering & Technology (SOET): A Centre of Engineering Excellence, Research & Innovation

Distinguished Faculty from IITs, NITs & Premier Institutions

Learn from highly qualified faculty members with strong academic credentials, research expertise, and industry collaborations.

Gurugram (NCR) Advantage

SOET's strategic location in Gurugram provides unmatched access to leading tech companies, R&D centres, startups, and Fortune 500 organisations—offering plentiful internship and placement opportunities.

Global Exposure & International Collaboration

MOUs with top international universities enable summer schools, student exchange, joint research, and global certification programmes.

Innovation-Driven Campus Ecosystem

SOET promotes a culture of creativity and entrepreneurship through innovation labs, hackathons, ideation workshops, and industry-backed projects.



Industry-Aligned & Future-Ready Curriculum

Programmes designed in consultation with leading industry partners to ensure students gain cutting-edge technical skills, hands-on exposure, and practical problem-solving abilities.

State-of-the-Art Engineering & Research Laboratories

Advanced labs in AI, Robotics, Cybersecurity, IoT, Cloud Computing, and Data Science support experiential learning, innovation, and multidisciplinary research.

Strong Placement Outcomes

Access to a robust network of 200+ recruiters, including MNCs and high-growth startups, with students consistently securing top packages and diverse engineering roles.

Programmes Offered

BTech in Computer Science & Engineering (CSE)

The BTech in Computer Science & Engineering at The NorthCap University is a comprehensive undergraduate programme designed to build strong foundations in computing, problem-solving, and engineering principles. The curriculum blends theoretical knowledge with practical exposure in areas such as programming, algorithms, software engineering, databases, and computer networks. Students also explore emerging domains like Artificial Intelligence and Machine Learning, Cyber Security & Forensics, Full Stack Development, Data Science and Gaming, Augmented Reality & Virtual Reality. Through hands-on labs, live projects, and industry internships, learners develop technical competence, innovation skills, and professional readiness for dynamic technology careers or higher studies.

Specialisation: Artificial Intelligence and Machine Learning, Cyber Security & Forensics, Full Stack Development, Data Science, Gaming, Augmented Reality & Virtual Reality and Quantum Computing

Duration: 4 Years (8 Semesters)

Eligibility: Candidate must have successfully completed 10+2 or equivalent from a recognised board with relevant subjects. Admission is based on JEE-Main, NCU Entrance Test, or other national-level entrance examinations as applicable.



MCA

(Master of Computer Applications)

The MCA is a postgraduate programme designed to develop advanced capabilities in software development, computing, and application design. The curriculum integrates theory with real-world practice across areas such as software engineering, system and network administration, database systems, web and mobile technologies, and analytics. Students refine their technical and analytical skills through seminars, projects, and a dissertation. The programme prepares graduates to design secure, scalable, and efficient software solutions while opening pathways to diverse careers in the IT sector and academia.

Duration: 2 Years (4 Semesters)

Eligibility: Candidate must have successfully completed a Bachelor's degree in Computer Science, IT, or a related discipline from a recognised university. Admission is based on NCU Entrance Test or other qualifying national-level examinations.

MTech in Computer Science & Engineering

The MTech in Computer Science & Engineering is a postgraduate programme aimed at students seeking deeper technical expertise and research-oriented knowledge. With specialisations in Cyber Security & Forensics and Data Science, the programme focuses on advanced computing concepts, analytical problem-solving, and innovation. Learners engage in core and elective courses, seminars, research methodology, and dissertation work. This rigorous academic training equips graduates for leadership roles in industry, research and development, or academia.

Specialisation: Data Science & Cyber Security & Forensics

Duration: 2 Years (4 Semesters)

Eligibility: Candidate must have successfully completed a BTech or equivalent degree in a relevant discipline. Admission is based on GATE, NCU Entrance Test, or other recognised national-level examinations.

PhD in Computer Science & Engineering

The PhD in Computer Science & Engineering is a research-intensive programme that fosters innovation, critical thinking, and scholarly excellence. Scholars pursue original research in advanced domains such as Artificial Intelligence & Machine Learning, Cyber Security, Big Data Analytics, Cloud Computing, Software Engineering, and Signal & Image Processing. With continuous mentorship and access to modern research facilities, candidates contribute to knowledge creation and technological advancement. The programme prepares scholars for impactful careers in academia, research institutions, and high-end industry roles.

Duration: 3 - 6 Years

Eligibility: Candidate must have successfully completed a Master's degree in Computer Science, IT, or a related field from a recognised university. Admission is based on academic credentials, research proposal evaluation, and the university's selection process.

Student Testimonials

The BTech CSE programme at The NorthCap University transformed me academically, professionally, and personally. Dedicated faculty mentors continuously guided me in research, innovation, and competitive excellence, enabling achievements in journals, patents, hackathons, and national projects. Internships at ISRO and HARSAC, along with industry-driven coursework, strengthened my technical and real-world problem-solving skills. Beyond academics, leadership roles, sports, and community service shaped my discipline, teamwork, and resilience. The university's holistic ecosystem empowered me to pursue excellence with confidence, curiosity, and purpose, preparing me to contribute meaningfully to both industry and society.



Aryan Dahiya
BTech CSE, 2021-2025

Current Organisation: Infogain
Job Title: Data Engineer



Tripti Sharma

BTech CSE, Class of 2025

**Current Organisation: EY Global
Delivery Services**
Job Title: Technology Risk Analyst

My journey at The NorthCap University transformed me from a curious learner into a corporate-ready engineer. Beyond a strong CSE curriculum, NCU's focus on collaborative, innovation-driven projects sharpened my professional edge. This preparation was key to my selection at EY, proving that NCU goes beyond academics to build global-ready professionals. I'm proud to carry the strong foundation and mentorship from NCU into my career at EY

The BTech CSE programme at The NorthCap University fostered innovation and applied learning.

The environment empowered me to lead impactful projects, win multiple national-level hackathons, reach the Grand Finale of ISRO's Bharatiya Antariksh Hackathon at NRSC Hyderabad, and publish four industry-level patents in AI, Virtual Reality, Blockchain, and IoT—shaping my research mindset, technical depth, and industry readiness.



Ananya Sharma
BTech CSE, 2021-2025

Current Organisation: ArmorCode
Job Title: Associate AI Engineer



Duiena Rai

BTech CSE, Class of 2025

**Current Organisation: EY Global
Delivery Services**
Job Title: Technology Consultant

My journey at The NorthCap University was truly transformative, providing a sophisticated ecosystem that balanced rigorous academics with high-impact opportunities. The BTech CSE programme served as a vital catalyst for my growth, enabling me to achieve milestones such as the Young Climate Champion Award. This recognition stands as a testament to the university's commitment to nurturing socially responsible and innovative leaders. I am deeply indebted to Dr. Anuradha Dhull and the distinguished faculty members, whose mentorship was pivotal in bridging the gap between theoretical concepts and industrial application. Their focus on high-level coding standards and emerging technological frameworks empowered me to navigate the complexities of the corporate world with confidence. As I navigate the complexities of the global consulting landscape, I remain profoundly grateful to NCU for instilling in me the technical resilience and visionary mindset that now define my professional identity

Intellectual Capital



Prof. Nupur Prakash
Vice Chancellor
BE (ECE), ME (CST),
PhD



Prof. Rita Chhikara
Professor & Head, CSE
BE, MTech, MBA, PhD



Prof. Prachi
Prof. & Programme
Chair - MTech and
PhD Programmes
BE, MTech, PhD



Dr. Meghna Sharma
Associate Professor
& Programme Chair
(BCA & MCA)
BE, MTech, PhD



Dr. Tamalika Chaira
Associate Professor
BTech, ME (ECE),
PhD



Dr. Shilpa Mahajan
Associate Professor
BTech, ME, PhD



Dr. Shaveta Arora
Associate Professor
BTech, MTech, PhD



Dr. Yogita Gigras
Associate Professor (L2)
BTech, MTech, PhD



Dr. Poonam Chaudhary
Associate Professor (L2)
BTech, MTech, PhD



Dr. Nidhi Malik
Associate Professor (L2)
BE, MTech, PhD



Dr. Anuradha Dhull
Associate Professor (L2)
BTech, MTech, PhD



Dr. Srishti
Associate Professor (L1)
BTech, MTech, PhD



Dr. Shraddha Arora
Associate Professor (L1)
BTech, MTech, PhD



Dr. Perna Singal
Associate Professor (L1)
BE, MTech, PhD

Dept. of Computer Science & Engineering



Dr. Pankaj Rakheja
Associate Professor (LI)
BE, MTech, PhD



Dr. Snehlata
Assistant Professor
(Sel. Grade)
BTech, MTech, PhD



Dr. Nishu
Assistant Professor
(Sel. Grade)
BTech, MTech, PhD



Dr. Manvi Breja
Assistant Professor
(Sel. Grade)
BTech, MTech, PhD



Dr. Garima Sharma
Assistant Professor
(Sel. Grade)
BTech, MTech, PhD



Dr. Asha Sohal
Assistant Professor
(Sel. Grade)
BTech, MTech, PhD



Mr. Sumit Kumar
Assistant Professor
(Sr. Scale)
BTech, MTech



Dr. Swati Gupta
Assistant Professor
(Sr. Scale)
BTech, ME, PhD



Dr. Namita Dahiya
Assistant Professor
(Sr. Scale)
BSc, MSc, MTech, PhD



Dr. Bhavana Sharma
Assistant Professor
(Sr. Scale)
BTech, MTech, PhD



Ms. Sneha Kandacharam
Assistant Professor
BTech, MTech



Ms. Kanika Gupta
Assistant Professor
BTech, MTech



Dr. Parul Hooda
Assistant Professor
BTech, MTech, PhD



Dr. Ankita Bhalla
Assistant Professor
BTech, MTech, PhD

Glimpses of Departmental Events

MoU with CSIR-NPL

On 3rd March 2025, the CSE Department at The NorthCap University, Gurugram signed an MoU with CSIR-National Physical Laboratory to promote joint research, internships, PhD supervision, and collaborative publications across advanced technology domains. This partnership strengthens interdisciplinary innovation in areas such as quantum technologies, healthcare, defence, energy, and materials science.



MoU with HARSAC

The Department of Computer Science and Engineering (CSE) signed a Memorandum of Understanding (MoU) with the Haryana Space Applications Centre (HARSAC) on 21st November 2023 to foster academic and research collaboration. The MoU facilitates joint organisation of seminars, workshops, training programmes, and expert sessions; collaborative submission of research projects to funding agencies; co-guidance of UG, PG, and PhD research; sharing of infrastructure and resources; joint publications; and internship opportunities for students.

IEEE Conference (ISCS 2025)



ISCS 2025 - International Conference on Intelligent Systems for Cybersecurity: Hosted by the CSE Department on 14-15 November 2025 and technically co-sponsored by IEEE Delhi Section, the conference brought together global researchers and industry experts, featuring 140 IEEE Xplore-indexed papers and fostering impactful discussions on AI-driven and next-gen cybersecurity solutions.

IEEE Conference (ISCS 2024)



The Department of Computer Science and Engineering organising the 'International Conference on Intelligent Systems for Cyber Security (ISCS2024)' on 3rd-4th May 2024, in collaboration with IEEE. ISCS 2024 aims at bringing together scholars, scientists, and industrialists from all over the world on a common platform to present their original, unpublished high-quality research papers and share their valuable research insights in the fields of Cyber Security, AI, Quantum Technologies, Blockchain, IoT, Cloud Computing, and emerging fields. ISCS 2024 is Technically Sponsored by the IEEE Delhi Section.

HackUtsav Version 1.0: NCU's First-Ever 36-Hour Technical Hackathon

The Department of CSE hosted first-ever 36-hour technical hackathon, 'HackUtsav 1.0 2024,' from 15th-16th October 2024. A total of 81 teams, comprising more than 240 students from across India, participated in the hackathon.

HackUtsav 2.0

The Department of announced the return of our signature event – HackUtsav 2.0, in collaboration with our industry partner RiskBerg Consulting. HackUtsav 2.0 held on August 30th 2025 from 10:00 am - 06:00 pm , a prestigious event brought together innovation, talent, and industry collaboration. Participation of 300+ students across India was registered in this event.



ANRF-funded national FDP on 'Quantum-AI Synergy'

The Department of Computer Science and Engineering organised a 5 days Faculty Development Programme (FDP) on 'Quantum-AI Synergy: Foundations, Frameworks, and Practical Insights' from June 2 – June 6, 2025 in Hybrid Mode. Received grant of ₹2 Lakhs from ANRF (DST SERB).



DST SERB Sponsored faculty development programme (FDP) on 'Remote Sensing & GIS'

The Department of Computer Science and Engineering (CSE) hosted a 5 days FDP programme on 'Remote Sensing & GIS', sponsored DST SERB. The FDP took place in a hybrid mode (offline/online) from January 15th to January 19th, 2024. This FDP delved into the vast realm of geospatial technologies and their practical applications. Esteemed speakers from IIT, NRSC (ISRO), HARSAC, IBM, TCS, AWS shared their expertise during the event.



AWS Generative AI Developer Day 2025

Hosted by the CSE Department on 6th August 2025 in Gurugram, the event brought together global AWS experts, industry leaders, and learners. Through hands-on sessions on Agentic AI, Amazon Bedrock, Serverless, and full-stack technologies, it empowered participants with real-world skills and strengthened academia-industry collaboration.



MoU with Hive Pro (Cybersecurity & CTEM)

The CSE Department at The NorthCap University signed an MoU with Hive Pro on 5th September 2025 to strengthen academia-industry collaboration. This partnership enables internships, expert workshops, collaborative research, and faculty development, fostering industry-ready cybersecurity professionals.



Project Fiesta 2025

The CSE Department at The NorthCap University successfully organised Project Fiesta 2025 on 28 May 2025, showcasing student innovation through real-world problem-solving projects. From 120+ entries, 24 finalist teams presented before a distinguished industry jury, reinforcing NCU's strong focus on experiential learning and industry-academia collaboration.



Industrial Visit to HARTRON

The CSE Department organised an industrial visit for 25 students to HARTRON, Gurugram on 2nd May 2025. The visit offered practical exposure to government-led IT infrastructure and real-world cybersecurity applications, inspiring students to explore careers in the public-sector technology domain.

FDP on Gen AI in collaboration with AWS Academy

From 10th - 14th June, the Department of CSE organised a 5-day Faculty Development Programme on Generative AI in collaboration with AWS Academy. The FDP marked a significant journey of exploration and learning, covering theoretical concepts and hands-on training on Generative AI using the AWS Academy Platform. Led by Ms. Akanksha Rai Sharma (Technical Lead, AWS Academy), the programme aimed to equip educators with cutting-edge knowledge and practical skills.

Digital Shield: Empowering Women for a Safer Online Journey

On September 17, 2024, The Cloud IoT, in collaboration with Club Udaan, organised an impactful awareness seminar titled 'Digital Shield: Empowering Women for a Safer Online Journey,' under the coordination of Dr. Bhavana Sharma, at the Seminar Hall, The NorthCap University, Gurugram. The event focused on promoting digital safety awareness and empowering women to navigate the online world with confidence and responsibility.

The keynote address was delivered by Dr. Kavita HPS, Assistant Commissioner of Police (ACP), Crime Against Women, and a distinguished cyber safety expert. Drawing from her extensive experience in handling cybercrime cases, she highlighted the rising concerns of online harassment, cyber fraud, and data privacy breaches affecting women. The session provided practical guidance on secure online practices, privacy protection, and reporting cyber incidents.



FDP on Machine Learning and Deep Learning using Intel Servers & oneAPI Toolkits

The CSE Department established the Intel® Unnati AI Lab to provide hands-on learning and industry-relevant AI training in Machine Learning, Deep Learning, Computer Vision, and NLP. Students and faculty gained access to advanced AI tools and high-performance computing resources. A Faculty Development Programme on 'Machine Learning and Deep Learning using Intel Servers & oneAPI Toolkits' was organised from 12th - 14th January 2026.



MoU with Volkswagen Group Technology Solutions India Pvt. Ltd. (VWITS)

The department of CSE signed a Memorandum of Understanding (MoU) with Volkswagen Group Technology Solutions India Pvt. Ltd. (VWITS) on October 9, 2023, to strengthen industry-academia collaboration through a dedicated Centre of Excellence. The partnership focuses on industry-aligned curriculum inputs, internships, live projects, and hands-on training. It also facilitates industry visits, expert guest lectures, and joint research and development initiatives, providing students with strong industry exposure and practical learning opportunities.



MoU with ICT Academy

The NorthCap University has signed a Memorandum of Understanding (MoU) with the ICT Academy (An Initiative of Government of India, State Governments and Industries) initiated by the Department of Computer Science, NCU on 06th March 2024.



MoU with MongoDB Software India Private Limited ('MongoDB')

The NorthCap University exchanged a Memorandum of Understanding (MoU) with MongoDB Software India Private Limited ('MongoDB'), initiated by Department of CSE, NCU and ICT Academy on 08th April 2024. The MoU was exchanged during MongoDB Academic Leaders Connect organised by ICT Academy in association with MongoDB at their DLF Cyber City Gurugram office.

Career Prospects

Industry	Employers	Roles in Demand
Software Development & IT Services		Software Developer, Full Stack Developer, Backend Engineer, Application Developer
Data Science & Analytics		Data Analyst, Data Scientist, Business Intelligence Analyst
Artificial Intelligence & Machine Learning		AI Engineer, Machine Learning Engineer, Research Associate
Cyber Security		Cyber Security Analyst, SOC Analyst, Security Consultant
Cloud Computing & DevOps		Cloud Engineer, DevOps Engineer, Site Reliability Engineer
Product Development & Start-ups		Product Engineer, Software Development Engineer (SDE), Technical Associate
Internet of Things (IoT)		IoT Developer, Embedded Systems Engineer, Automation Engineer
FinTech & Banking Technology		FinTech Developer, Systems Analyst, Technology Consultant
Research & Higher Studies		Research Assistant, Project Engineer, PhD Scholar
EdTech & Training		Technical Trainer, Content Developer, Learning Technologist

CSE International Alumni Masterclass Series

The Department of Computer Science and Engineering (CSE) launched the International Alumni Masterclass Series – ‘Alma Connect’ to strengthen alumni-student engagement. Following the successful completion of Season 1 and Season 2, Season 3 began in January 2026. Accomplished CSE alumni from reputed organisations deliver monthly expert talks, sharing industry insights and career guidance. The series promotes mentorship, experiential learning, and strong alumni connect.

Mr. Karan Wadhwan (Batch 2011-15), DevOps Manager, PIMCO, Newport Beach, California, United States, conducted an insightful talk on ‘Journey to a Fintech Engineer.’



Mr. Karan Wadhwan

- He shared his journey from NCU to a fintech career in the US, stressing the role of DevOps, automation, and AI.
- He underlined adaptability, problem-solving, and lifelong learning as success drivers.
- Students gained practical insights into finance-tech convergence, careers, and innovation.
- He also spoke about his entrepreneurial work, including a women’s safety app and research contributions.

An engaging session where alumni wisdom met student curiosity - fueling future-ready careers!

NCU alumnus **Mr. Sanyam Chugh** (Class of 2020), Manager - Digital Strategy at Altudo Consultancy Services, Vancouver, Canada, addressed NCU students in his insightful talk on ‘Changing Digital Behaviour and Trends of the Future.’

From India’s digital rise with UPI, ONDC & India Stack to spotting early tech trends on GitHub & Hacker News, he shared global insights on digital behaviour, future trends, and startup innovation.



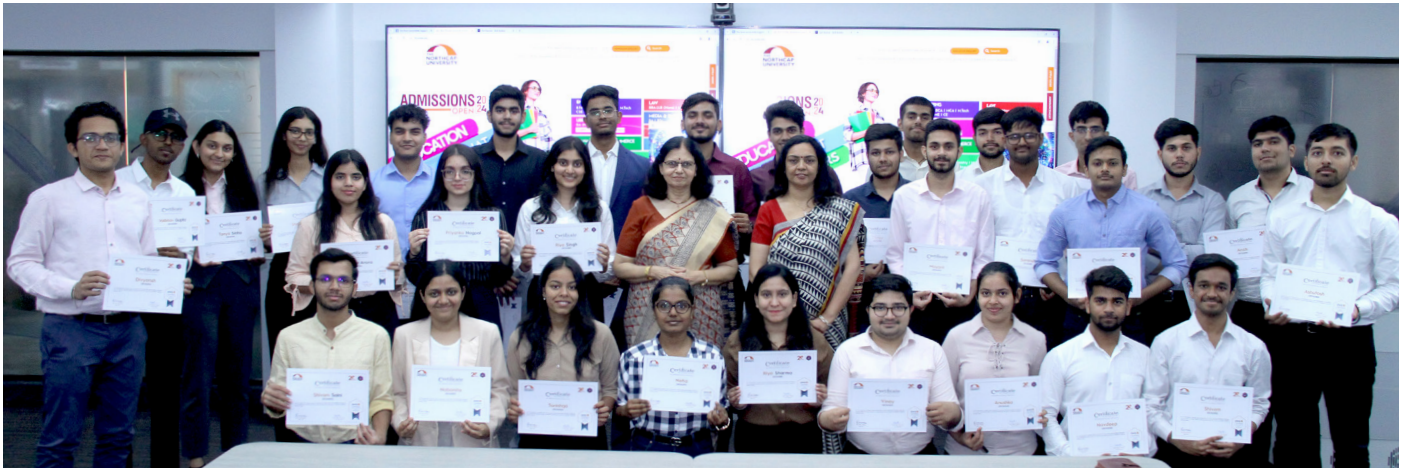
Mr. Sanyam Chugh



Ms. Divya Sharma

Ms. Divya Sharma (CSE Batch 2013-17), Senior PostgreSQL Database Engineer, Amazon Web Services, Dublin, conducted a lecture on the topic, ‘What to Focus on While Interviewing for Jobs.’ The session offered valuable insights into technical interview preparation, problem-solving strategies, resume building, and industry expectations, with enthusiastic participation from BTech CSE students across all years. Led by Prof. (Dr.) Rita Chhikara, HOD CSE, and coordinated by Dr. Anuradha Dhull, Dr. Yogita Gigras, and Dr. Ankita Bhalla, the session strengthened alumni-student engagement and reinforced the academia-industry connect. It was an inspiring interaction that truly bridged classrooms with the corporate world!

Global Certifications done by Students and Faculty



Faculty and students at The NorthCap University actively pursue multiple global certifications including Microsoft Azure AI-900, Microsoft SC-900, Pearson Generative AI, AWS Cloud Practitioner, IBM Machine Learning Operations / DevOps Fundamentals, IBM Full Stack Software Developer, IISc Quantum Computing programmes, and Udegy professional certification courses. 100% of faculty members in CSE department have completed these certifications to upskill in emerging technologies. Students are also provided the opportunity to earn these certifications, with financial support from the university. This initiative ensures a highly skilled, industry-ready academic community.



Centres of Excellence

Intel® Unnati Artificial Intelligence Lab at The NorthCap University (NCU): A Strategic High-End AI Computing Intervention

The Intel® Unnati AI Lab at The NorthCap University is a strategic, future-ready high-performance computing facility to support teaching and research in Artificial Intelligence, Machine Learning, and Generative AI. Built on Intel®'s latest 5th Gen Xeon® Scalable processor architecture, the lab is designed to support compute-intensive AI/ML, Generative AI, and HPC workloads, enabling students and faculty to work on large-scale model training, inference, distributed learning, and applied AI solutions. The proposed multi-node architecture—with dedicated compute nodes and a centralised master server—ensures scalability, reliability, and enterprise-grade performance, closely mirroring industry and research environments.

The integration of the Intel® oneAPI ecosystem, AI Analytics Toolkit, OpenVINO™, and distributed training frameworks positions the lab as a deployment-oriented AI infrastructure, moving beyond experimentation to production-level workflows. This aligns strongly with current industry best practices and evolving AI deployment standards.

As part of the Intel Unnati initiative, the lab also functions as a catalyst for faculty upskilling, student certifications, community outreach, and industry-aligned training programmes, strengthening NCU's role as a regional hub for AI talent development.



Honeywell Centre of Excellence (CoE) for Youth Empowerment

The Honeywell Centre of Excellence for Youth Empowerment at The NorthCap University, established in collaboration with Honeywell and ICT Academy, focuses on enhancing student employability through industry-aligned training and certifications. Since its launch in December 2022, the Centre has delivered high-impact programmes such as the Microsoft Azure AI Engineer Associate training for 375 final-year CSE students, conducted by experts from CloudThat Technologies. It has also organised multiple Microsoft Power BI training programmes for over 230 students across batches, facilitated by ICT Academy. In addition, a Faculty Development Programme trained 29 faculty members in advanced data analytics. Overall, the CoE provides hands-on learning, industry exposure, and globally recognised certifications to prepare students and faculty for the evolving technology landscape.



Xebia Centre of Excellence

Centre of Excellence (CoE) established in collaboration with Xebia Academy at The NorthCap University.

The Centre of Excellence is envisioned as a dedicated hub for coders, innovators, and problem-solvers, enabling students to go beyond conventional classroom learning. Established under the Department of Computer Science & Engineering, the CoE aims to strengthen industry-academia collaboration and enhance students' readiness for internships and placements through industry-aligned training, experiential learning, and expert mentorship.

Key Activity Highlights under the CoE include:

- Structured, semester-wise modules aligned with current industry requirements
- Practical, challenge-based learning using real-world tools and technologies
- Hands-on coding sessions, expert mentorship, and exposure to live industry projects
- Participation in coding challenges and collaborative problem-solving activities
- Development of innovation, teamwork, and leadership competencies valued by employers
- Engagement in a dynamic coding community driven by excellence and innovation



Cyber Security Centre of Excellence with Grant Thortan

The Cyber Security Centre of Excellence (CoECS) at The NorthCap University, established in March 2020, focuses on skill development, research, and awareness in Cyber Security and Digital Forensics. Equipped with 25 high-end HP systems (Intel i7, 16 GB RAM, 1 TB SSD), the Centre supports hands-on training, research, and industry-driven projects. CoECS offers certifications, workshops, FDPs, internships, and Capture the Flag (CTF) competitions to enhance student employability.



CCNA Lab in collaboration with Cisco

The Cisco Networking Academy, established at The NorthCap University in 2014, is a global education programme by Cisco Systems aimed at developing industry-ready networking and IT skills. The academy offers courses in networking fundamentals, routing and switching, cybersecurity, and wireless technologies, aligned with current industry standards. Training is delivered by Cisco-certified instructors, supported by extensive hands-on learning using Cisco routers, switches, Packet Tracer, and virtual labs. Over 500 students have successfully benefited and earned certifications through this academy.



Certiport Authorised Testing Centre (CATC)

The Department of CSE has inaugurated a Certiport Authorised Testing Centre (CATC), enabling students to take globally recognised certification exams from leading organisations such as Microsoft, Adobe, Cisco, Apple, and Meta directly on campus. The centre supports over 60 certification programmes across tech and non-tech domains. It enhances employability through industry-aligned credentials, structured learning resources, official practice tools, and globally verifiable certifications. This empowers students with job-ready skills, stronger academic outcomes, and global career and higher education opportunities.





PhD

Visvesvaraya Scheme

The NorthCap University (NCU) is one of the select institutions approved under the prestigious Visvesvaraya PhD Scheme of the Ministry of Electronics and Information Technology (MeitY), Government of India, for Electronics Engineering and Computer Science Engineering. This flagship scheme supports outstanding PhD scholars to build high-quality research manpower in cutting-edge areas of Electronics and IT.

The programme offers research opportunities in a wide range of cutting-edge areas including Artificial Intelligence, Machine Learning, Data Sciences, Internet of Things, Cyber Security and Forensics, Deep Learning, Big Data, Blockchain Technology, Cloud Computing, Software Engineering, Signal, Speech and Image Processing, and Quantum Computing, enabling scholars to work on frontier technologies with real-world applications.

A grant of ₹2 crore has been sanctioned for CSE scholars

Salient Features of the Scheme

Key Features of the Scheme (Full-Time PhD Fellows)

- Fellowship: ₹38,750/month (first 2 years) and ₹43,750/month (next 3 years)
- PhD Duration: 3 years (maximum support up to 5 years as per scheme guidelines)
- Research Contingency Grant: ₹1,20,000/year
- Support for International Conferences
- Annual Rent Reimbursement: ₹74,400/year (first 2 years), ₹84,000/year (next 3 years)

Key Features of the Scheme (Part-Time PhD Fellows)

- Eligible for a one-time financial incentive of 3 Lakhs upon successful completion of PhD

Key Features of the Scheme (Part-Time PhD Fellows)

- Fellowship: ₹1,08,393/month

Research Contingency Grant: ₹1,00,000/year

Scholars under Visvesvaraya Scheme at NCU

Full-time PhD Scholars

- Bharat Yadav
- Manisha Rana
- Jyoti Yadav
- Ruchika Saini
- Ankita Daghottra
- Devender

Part-time PhD Scholar

- Mohit Kathuria

Post-Doctoral Fellow

- Dr. Poonam Chaudhary

Key Benefits for Scholars and Fellows

- Attractive financial support for full-time PhD scholars, including a high monthly fellowship for five years, rent reimbursement as per GoI norms and a substantial annual research contingency grant that enables focused, full-time research.
- Access to advanced laboratories, high-end computing infrastructure and licensed software in emerging domains such as AI, ML, Data Science, IoT and Cyber Security.
- Global exposure and networking opportunities through funded participation in high-quality international conferences and possible research visits to reputed foreign laboratories.
- For the Post-Doctoral Fellow, the scheme enables a structured platform to lead specialised research, mentor PhD scholars, and build a strong publication and collaboration profile in frontier areas.
- For the part-time PhD scholars, it provides a unique opportunity to leverage Visvesvaraya support to work on industry-relevant research problems while continuing professional responsibilities.
- Transparent and efficient release of fellowship, rent reimbursement and research grants, with regular performance monitoring for academic excellence and timely progress.



SCAN

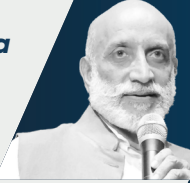
For more details about
the national scheme

Leaders on Campus



Amit Sinha Roy

VP - Global Head,
Strategic Alliances,
Tata Communications



Aman Nath

Co-Founder
& Chairman,
Neemrana Hotels



Rocky Mohan

Brand Custodian,
Old Monk
Founder, Chef Pin



Mussarat Hussain

Head - HR, Suzuki
R&D Center India



Rashmi Mohanty

CFO,
SBI Cards



Dr. Kiranpreett Kaur

CHRO,
CPM India



Alok Lall

Senior Leader,
Microsoft India
& South Asia



Mahesh Kanchan

Marketing Director,
India & Neighbouring
Countries, Bacardi



Durr-e-Afshan

Dy. VP HR,
HDFC Ergo
General Insurance



Shalvi Chitkara

Senior VP - COO,
Data & AI, Genpact



Deepak Dobriyal

Senior VP,
Global Talent
Management,
Birlasoft



Pavan Desiraju

Director - People
Partner, Sandisk



Monisha James

VP HR,
PNB MetLife



Himanshu Joshi

Head, Direct & EDM,
HDFC Life



Anupam Shrivastava

Former Chairman
& Managing
Director, BSNL



Neetu Sidana Thapliyal

Director & Head, HR
Forvis Mazars Group



Kaushik Chakraborty

Chief People Officer,
Savills India



Biswajit Bhattacharya

Partner & Automotive
Industry Leader, IBM
India & South Asia



Kiran Yadav

Chief People Officer,
Canara HSBC
Life Insurance

Eminent Visitors at NCU



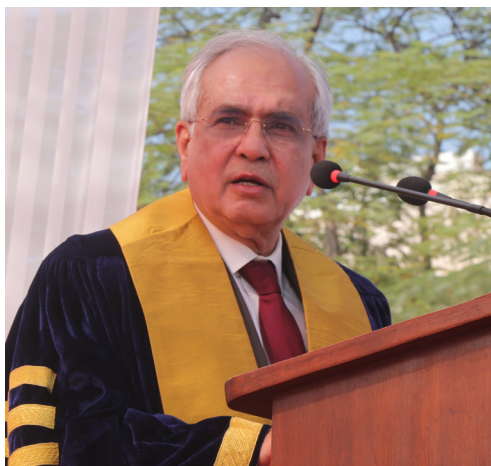
**Shri. Bandaru Dattatraya,
Former Governor of Haryana**



**Justice Dipak Misra
Former Chief Justice of India**



**Prof. Kaptan Singh Solanki,
Former Governor of Haryana**



**Dr. Rajiv Kumar
Former Vice-Chairman, NITI Aayog**

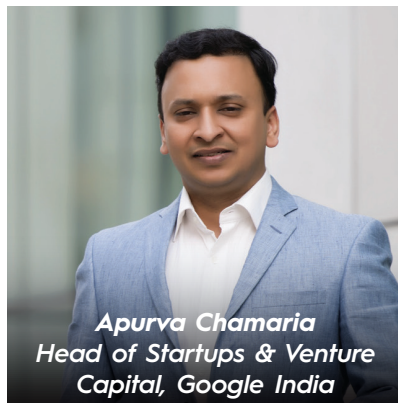


**Late Shri. Jagannath Pahadia,
Former Governor of Haryana**



**Dr. Praveer Sinha
CEO & Managing Director,
The TATA Power Company Ltd.**

Masterclasses at NCU



Apurva Chamaria
Head of Startups & Venture
Capital, Google India



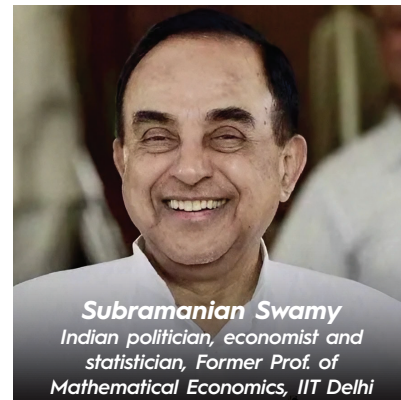
Adil Nargolwala
Corporate SVP-HR, Head Talent
Acquisition, WNS



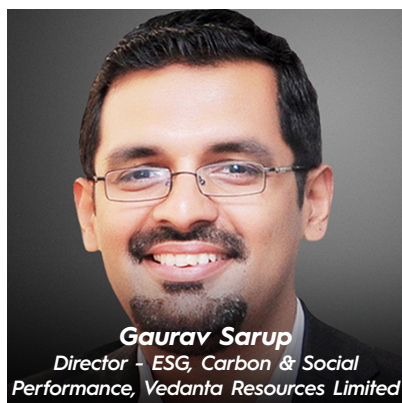
Shoma Chaudhury
Indian journalist, Editor, and
Political Commentator



Rashmi Narang
Founder & Creative Director
Heads Up For Tails



Subramanian Swamy
Indian politician, economist and
statistician, Former Prof. of
Mathematical Economics, IIT Delhi



Gaurav Sarup
Director - ESG, Carbon & Social
Performance, Vedanta Resources Limited



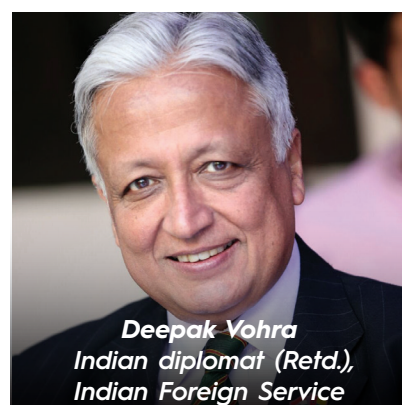
Dr Ranjana Kumari
Indian Social Activist, Writer, and
Academic, Centre for Social Research



Nitin Pai
Co-founder and director
Takshashila Institution



Priti Chopra
Asst. Vice President, Banking &
Capital Markets, Genpact



Deepak Vohra
Indian diplomat (Retd.),
Indian Foreign Service



Justice Gita Mittal
Former Chief Justice,
Jammu & Kashmir High Court



Sanjeev Bikhchandani
Founder and Executive Vice
Chairman, Info Edge



Ambi M G Parameswaran
Brand Strategist and Founde,
Brand-Building.com



Dr. Rakesh Godhwani
Founder, School of
Meaningful Experiences

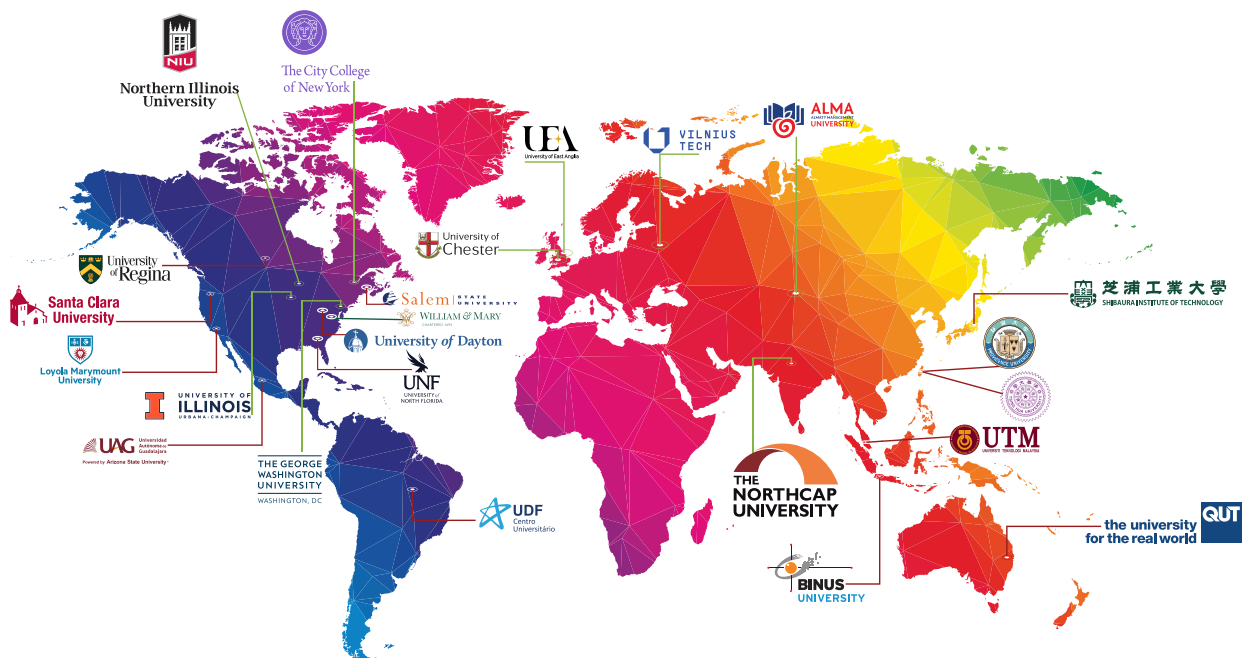
NCU's International Relations Office (IRO)

Co-teaching, Immersion, Student & Faculty Mobility and Research

NCU is proud to have partnered with 25+ reputed institutions from across the world based on four pillars embracing India's New Education Policy (NEP) 2020: Digital-First, Innovation, Internationalisation and Organisational Readiness. The university has signed a number of MoUs and has entered into many collaborative partnerships with international universities to promote:

- Exchange of information, experience & culture
- Student exchange programmes
- Short and long-term exchange of faculty members
- Collaborative research
- Summer internship & immersion programmes for students
- Dual degrees

NCU's Global Education Partners





Global Immersion at NCU

At The NorthCap University (NCU), global learning is central to the academic experience, with international immersion programmes designed to blend academics, research exposure, and cultural exploration. These initiatives offer students and partner universities a deeper understanding of India's evolving knowledge ecosystem while fostering meaningful global collaborations.

A key initiative is India Odyssey, organised by NCU's International Relations Office. This flagship programme brings international students to India for a curated journey that combines classroom learning with real-world exposure and cultural engagement.

India Odyssey (2025) welcomed students from the University of North Florida (UNF), USA. Participants attended expert-led sessions, engaged with researchers, and visited key institutions and industry partners, gaining insights into India's technological, business, and policy landscape. Their experience was enriched by cultural exploration, including historic sites, local markets, cuisine, and traditional art forms.



India Odyssey 2.0 (2026) hosted students from Queensland University of Technology (QUT), Australia for a five-day immersive programme. It featured masterclasses on AI and entrepreneurship, AR/VR experiences, and industrial visits to organisations like Hero MotoCorp and FANUC India. Cultural highlights included visits to Delhi landmarks and the Taj Mahal, along with interactive sessions and a cultural evening.



Programmes like India Odyssey exemplify NCU's commitment to building globally competent learners. By bringing together academic exchange, cultural immersion, and collaborative learning, these initiatives strengthen international partnerships and nurture a deeper appreciation of India's academic, industrial, and cultural landscape.



A Safe, Inclusive Campus for Everyone

At NCU, we prioritise nurturing female talent and strongly support advancing education opportunities for women.

Zero Tolerance for Ragging

At NCU, we take immense pride in maintaining a campus that is both safe and inclusive for all students. With a strict zero-tolerance policy towards ragging, we ensure a supportive and respectful environment where every individual is valued. Our commitment to fostering a culture of respect, safety, and camaraderie allows students to thrive academically, socially, and personally, making NCU a place where every voice is heard and every student feels welcome.



Scholarships and Fee Concessions

The department actively promotes gender inclusivity through:

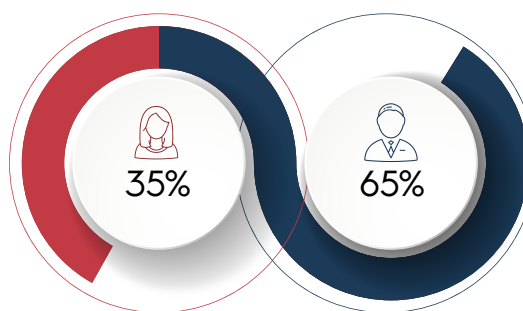
- Scholarships and fee concessions
- Mentoring initiatives
- Equal access to laboratories, projects, internships, and research opportunities
- A safe, inclusive, and zero-tolerance campus environment

This aligns with NCU's broader commitment to advancing women in STEM education.



**The Only University in Gurugram's City-centre
Offering a Holistic Educational Experience**

Male-female student ratio
for Department of Computer
Science & Engineering



Fee Structure for School of Engineering & Technology

Programme	Specialisation	Annual Fee for Indian Students (INR)			Annual Fee for Child/ Ward of NRI/International Students (INR)
		Tuition Fee	Development Fee	Total Annual Fee	Annual Fee
BTech CSE	<ul style="list-style-type: none"> Artificial Intelligence and Machine Learning Cyber Security & Forensics Full Stack Development Data Science Gaming, Augmented Reality & Virtual Reality Quantum Computing 	2,62,000	65,500	3,27,500	4,68,000
MTech CSE	<ul style="list-style-type: none"> Data Science Cyber Security & Forensics 	1,52,400	38,100	1,90,500	2,92,500
MCA		1,52,400	38,100	1,90,500	2,92,500
PhD			1,06,000		1,33,000



Formerly ITM University, Gurugram

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