Ph.D.
Programme
for Working Professionals
and Alumni
of NCU

THE NORTHCAP UNIVERSITY

25+ YEARS OF EXCELLENCE

NAAC Accredited

Ph.D. Admission for Working Professionals

Persons employed in industry / Govt. /Autonomous bodies / public sector undertakings are considered as working professionals.

The NorthCap University (NCU) wishes to enroll Industry Professionals to the part-time PhD programme in the following specialisations. The prospective applicants may visit the campus and meet the potential PhD supervisors on any working day or visit www.ncuindia.edu/phd for detailed information.

Name of the School/ Department	Broad Areas of Reseach
Department of Multidisciplinary Engineering (MDE)	**Mechanical Engineering** Thermo-Fluid Engineering, Industrial, Engineering, Production Engineering, Mechanical Engineering Design, Waste Management, Refrigeration and Air Conditioning, Industry 4.0/5.0 and Digital Transformation; Supply Chain Management and Optimization.
	Civil and Environmental Engineering Water Resources and Environmental Engineering, Structural Engineering, Applied Geotechnical and Transportation Engineering, Engineering Materials, smart cities and infrastructure, sustainable and resilient building materials innovative construction techniques, waste management and recycling
	Electrical, Electronics and Communication Engineering Wireless Communication, Signal, Speech and Image Processing, VLSI and Semiconductor devices, Power System, Renewable Energy, Biomedical Electronics, Integrated Circuit Design, wireless sensor networks, IoT systems and applications, energy harvesting for IoT devices, Industrial IoT, navigation systems.
Department of Computer Science and Engineering (CSE)	Artificial Intelligence, Generative AI, Machine Learning, Deep Learning Big Data Analytics & Cloud Computing, Cyber security & Digital Forensics. Computer Vision, Image Processing, Natural Language Processing, Wireless Sensor networks, Bioinformatics Soft computing, Optimisation, Software Engineering Smart Agriculture, IoT, ML applications in Renewable Energy
Department of Applied Sciences (APS)	**Physics** **Chemistry** **Mathematics**
Centre for Languages Learning (CLL)	American Literature, Canadian Literature, British Literature, Indian Writing in English, World Literature, Gender Studies, Medical & Health Humanities, Postcolonial Literature (Memory Studies, Life Narratives and Diasporic Literature), Travel Literature, Film Studies, Cultural Studies
School of Management & Liberal Studies (SOM&LS)	Finance, Economics, Marketing, HRM, Operations, Psychology
School of Law (SOL)	Human Rights Law, International Law, Environmental Law, Constitutional Law, Personal Laws, Criminal Laws, Intellectual Property Rights (IPR) Laws, International Trade Law, Corporate Law, Commercial Dispute Settlement Law, Technology Law

Eligibility Criteria:

[A]   School of Engineering and Technology

a.   Engineering

M Tech/M.E. degree in relevant branch of Engineering with minimum 60 % marks* in aggregate or equivalent CGPA. or

MCA / MSc (Electronics/Computer Science/Information Technology) with minimum 8.5 CGPA or 77.5% in aggregate [only for admission in CSE dept. or ECE discipline]. Or

Four-year undergraduate degree in any domain with minimum 75% marks in aggregate or 8.5 CGPA.

b.   Applied Sciences

M.Sc. in relevant branch (Physics, Chemistry, Mathematics) degree with minimum 60% marks* in aggregate or equivalent CGPA and a valid GATE/NET/JRF/SLET score. or

M.Sc. in relevant branch (Physics, Chemistry, Mathematics) degree with minimum 67.5% marks* in aggregate or equivalent CGPA. Or

Four-year undergraduate degree in any domain with minimum 75% marks in aggregate or 8.5 CGPA.

[B]   School of Management & Liberal Studies

Post-Graduation in any branch of Engineering, Management, Economics, Commerce, Operations Research with min. 60% marks* in aggregate or equivalent CGPA.

Chartered Accountant (CA) / Company Secretary (CS) / Cost and works accountants (ICWA) degree with minimum 55% marks in aggregate or equivalent CGPA. Or

MA (English) or M.Phil. (English) degree with minimum 55% marks in aggregate or equivalent CGPA for admission in Humanities (English). Or

Four-year undergraduate degree in any domain with minimum 75% marks in aggregate or 8.5 CGPA.

[C]   School of Law (SOL)

Master's Degree in Law from a recognised University with not less than 55% marks or its equivalent. Or

Master's Degree in any discipline from a recognised University with not less than 55% marks or its equivalent; provided that candidates with qualifications in social sciences, humanities and sciences may be admitted to the Programme if the research they wish to pursue interfaces with the discipline of law with a special focus on Public Policy or Law. Or

Judge of any State High Court in India with three years' experience or Judge of Supreme Court of India. or
Four-year undergraduate degree in any domain with minimum 75% marks in aggregate or 8.5 CGPA.

Note:* 5% relaxation in minimum eligibility criteria for working professionals (industry / Govt. /Autonomous bodies / public sector undertakings) with more than 10 years of experience.

Best Practices at NCU

- High quality research program at par with International Benchmarks.
- Faculty Supervisors at NCU have graduated from reputed National Institutes with and have rich research experience.
- IBM and AWS certified Faculty supervisors in Big Data and cloud computing domain, respectively.
- Centre of Excellence in Data Science and Cybersecurity with industry partnership.
- State-of-art infrastructure with high end research labs such as iMac lab, AR/VR lab, High-performance computing lab, Daikin Centre of Excellence, Mitsubishi Centre of Excellence, NavIC lab (in collaboration with ISRO), etc.
- Multidisciplinary research work in collaboration with other departments and Foreign Universities.
- Support for filing and Publishing Patents for your innovation.
- Flexible Learning: Online coursework options available, ideal for working professionals.
- Financial aid in the form of seed money available to kickstart your research projects

Success Stories

- Sunaina Sangwan [2017 Batch]: Lecturer, South Metropolian TAFE, Perth, Australia,
- Sumanlata Gautam [2018 Batch]: Oracle
- Ajay Bohtan [2019 Batch]: Indian Army Vetaran
- Ruchi Gupta [2019 Batch]: Energy Advisor, German Society for International Cooperation (GIZ) Ltd.
- Ritu Dhingra [2021 Batch]: Regional Vice Chair (East and Southern Asia), International Union for Conservation of Nature
- Indu Bala [2021 Batch]: Post Doctoral Fellow, The University of Adelaide, Australia
- Rajesh Kumar [2021 Batch]: Mining Officer, Mines and Geology Department, Haryana
- Rajat Gupta [2022 Batch]: Care Directror, Nokia India
- Anshul Vats [2022 Batch]: Project engineer, level 2, ERNET India, MEITY, GoI
- Naveen Kumar [2022 Batch]: Stratergy Sourcing Manager, HeroMotoCorp Ltd.
- Dharmendra Kumar Srivastava [2022 Batch]: Associate Vice President, Bloom Companies

Selection Process

1. The candidate is required to appear for the NCU Ph.D. Entrance Test (NPET).
   The test paper will be of objective type (MCQ) to be attempted in 1 hour (max) either in an online or ofline mode.
   There will be no negative marking. The paper consists of questions on logical and analytical reasoning.
2. Candidate will be required to appear for an interaction/discussion in the research area of interest with PhD guide on the same day of the Entrance test.
3. Candidates with valid GATE, NET, SLET score will be exempted from written exam NPET.
4. Programme fee: Rs. 50,000 per semester
5. Coursework: Those having PG degree, they need to earn 12 credits in an online mode or through MOOCS or through working Saturdays on NCU campus.
6. Candidates interested in enrolling for PhD programme should fill the form available at apply.ncuindia.edu/phd

S. No.	Important Dates	Date
1.	Last date for submission of fully filled application forms	17 Dec 2024
2.	Entrance Test (NPET) and Interview (online/offline)	21 Dec 2024
3.	Online display of admission list	24 Dec 2024
4.	Last date for fees deposition and document verification	2 Jan 2024
5.	Commencement of classes (online/weekend/MOOCS) Limited number of scholarships are available in each specialisation	15 Jan 2024

Expected Timelines*

Coursework completion (by 2nd sem) → Research Proposal Approval (by 3rd sem) → Research Publications (by 6th sem) → Thesis Submission (by 7th sem) → Degree Awarded (by 8th sem)

For department specific queries contact the following Department Ph.D. coordinators:

S. No.	Department	Discipline	Name of Ph.D. Coordinator	Email Address	Mobile Number
1.	DEPARTMENT OF MULTIDISCIPLINARY ENGINEERING (MDE)	Mechanical Engineering	Dr. Akanksha Mathur	akankshamathur@ncuindia.edu	9990987173
		Civil and Environmental Engineering	Dr. Vaishali Sahu	Vaishalisahu@ncuindia.edu	9650129730
		Electrical, Electronics and Communication Engineering	Dr. Mona Aggarwal	monaaggarwal@ncuindia.edu	8826933990
2.	COMPUTER SCIENCE AND ENGINEERING (CSE)		Dr. Shraddha Arora	shraddhaarora@ncuindia.edu	9811352222
3.	APPLIED SCIENCES (APS)	Physics, Chemistry, Mathematics	Dr. Chetna Tyagi	chetnatyagi@ncuindia.edu	9911429599
4.	CENTRE FOR LANGUAGES LEARNING (CLL)	English	Dr. Chetna Karnani	chetnakarnani@ncuindia.edu	9811738101
5.	SCHOOL OF MANAGEMENT & LIBERAL STUDIES (SOM&LS)		Dr. Deergha Sharma	deerghasharma@ncuindia.edu	9650416161
6.	SCHOOL OF LAW (SOL)		Dr. Tapobrata Pakrashi	tapobratapakrashi@ncuindia.edu	9953458706

About **NCU**

Established in 1996, formerly known as ITM University, The NorthCap University is a progressive multidisciplinary university located in the city-centre of Gurugram, Haryana. The university's rich heritage of 25+ years, 11,000+ alumni and robust academic infrastructure enables deep linkages with government, industry and research bodies. The university operates multiple schools and departments in its state-of-the-art urban campus and hosts a diverse student body of

engineering, technology, management, liberal arts, law, media and entertainment, online learning, business and applied science aspirants. NCU is a National Assessment and Accreditation Council (NAAC) Grade A accredited university that serves as a research as well as talent catalyst between students and industry. Guided by eminent academicians and industry leaders, it follows an immersive pedagogy to deliver undergraduate, postgraduate as well as doctoral programmes.

The university is a comprehensive partner of Arizona State University (#1 University in the U.S. for innovation, outreach and stewardship) and benefits from a strategic collaboration which focuses on innovation, internationalisation and digitisation. NCU students enjoy accelerated master's programmes in the US given this partnership. NCU is recognised by the University Grants Commission (UGC) and accorded 12 (B) status. It is also recognised by the Bar Council of India (BCI). NCU is a Member of the Association of Indian Universities (AIU), a Member of the American Society for Quality and is accredited by Accreditation Services for International Colleges (ASIC), UK. With a 5-Star QS Ranking for Teaching, Employability & Online Learning, NCU ranks among the Top 30 Best Performing Universities as per ARIIA rankings.

For **Admission**
Queries Contact

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