

All India Seminar



Formerly ITM University, Gurugram



The Institution of Engineers (India)
A Century of Service to the Nation



About the Theme:

Sustainable Intelligent Computing: Cloud, Quantum, Nano, Green & Sovereign Computing

Date: 05 May 2026

Organized by

The Institution of Engineers (India)
Faridabad Local Center

Hosted by

Department of Computer Science & Engineering,
The NorthCap University

Under The Aegis of

Computer Engineering Division Board

Venue :The NorthCap University, Gurugram, Haryana (INDIA)

About The Institution of Engineers (India)

The Institution of Engineers (India) is the largest multidisciplinary professional body encompassing fifteen engineering disciplines and providing engineers with a global platform to share professional interests. IEI has a membership strength of over 2.5 Lakh Members. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata, IEI was incorporated by Royal Charter in 1935 and remains the only professional body in India to receive this honor. IEI operates among professional engineers, academicians, and research workers and provides technical, professional, and support services to the government, industries, academia, and the engineering fraternity, operating from 124 centers located across the country. The Institution also grants aid to its members to conduct research and development on engineering subjects.

IEI has been recognized as a Scientific and Industrial Research Organization (SIRO) by the Ministry of Science and Technology, Government of India. It provides Grant-in-Aid to undergraduate, postgraduate, and PhD students of engineering institutes and universities.

IEI maintains the International Professional Engineers (IntPE) Register for India under the global International Professional Engineers Alliance (IntPEA). The Institution also grants the Professional Engineers (PE) Certification.

IEI, in collaboration with Springer, regularly publishes a peer-reviewed international journal in five series: Series A, Series B, Series C, Series D, and Series E, covering fifteen engineering disciplines.

For further details, please visit: www.ieindia.org.

About IEI Faridabad Local Centre

Faridabad Local Centre commenced its operation on 25th Nov. 2009. Operating from 2nd Floor Bank Building, J. C. Bose University of Science & Technology (YMCA) Faridabad, The Centre has more than 2700 corporate members registered with it. In the year 2024, the centre has been recognized as Council Member. With Faridabad and Gurugram major industrial hubs under the geographical jurisdiction of the centre, it is bound to attract more engineers and serve large engineering fraternity.

For further details, please visit: www.ieifbdlc.in



About The Northcap University

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 30 years, 15,000+ alumni and a 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 & entertainment, business and applied science aspirants.

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 (ASQ) and is accredited by Accreditation Services for International Colleges (ASIC), UK, as a 'Premier Institution.' NCU has an overall 5-Star Rating in the prestigious QS Stars Rating System, and ranks among the Top 30 Best Performing Universities as per ARIIA rankings.

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. With an extensive network of international university partners, NCU offers students the chance to engage in global semester exchanges, twin and dual degree programmes and cutting-edge research collaborations for unparalleled academic and cultural enrichment.

About The Department of Computer Science and Engineering

The Department of Computer Science and Engineering offers B.Tech, BCA, M.Tech, MCA, and PhD Programs and is one of the best B. Tech in Computer Science Engineering colleges in Delhi NCR, the Department of Computer Science and Engineering at The North-Cap University is leveraging the invaluable opportunities created by the tech revolution sweeping across the world; the revolution that has brought phenomena such as user experience, Artificial Intelligence, Data Science, Internet of Things and Cyber Security.

Ranked among the top private universities for Engineering in India, The NorthCap University partners with leading organisations to enable joint collaborative work in R&D products, internships, and placements, improvement of research and academic programs, and exchange of experts and researchers. The academic excellence of the department is reflected in the best placement history which corroborates that it is the Top College for B.Tech in India. Consequently, a significant number of students gain admission to higher studies in institutions of national and international repute.

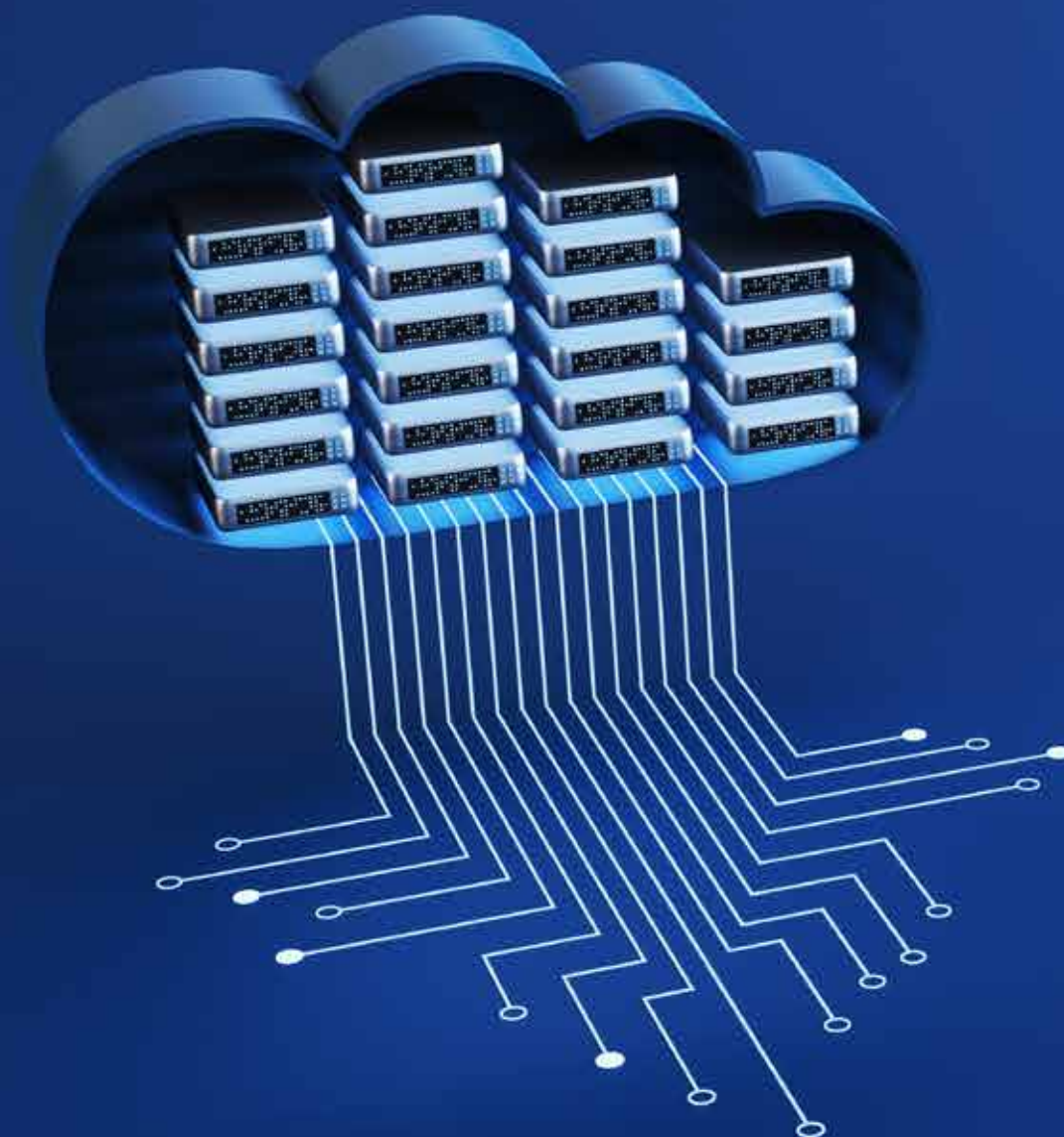


Sustainable Intelligent Computing: Cloud, Quantum, Nano, Green & Sovereign Computing"

This one-day All India Seminar aims to highlight the emerging and rapidly evolving domains of intelligent, secure, and sustainable computing. As digital systems continue to grow in scale and complexity, there is an urgent need for technologies that are not only efficient and environmentally responsible but also ensure digital sovereignty and data autonomy. The proposed theme—Sustainable Intelligent Computing: Cloud, Quantum, Nano, Green & Sovereign Technologies—brings together high-impact computing paradigms that are shaping the future of advanced digital infrastructure.

Cloud and edge computing continue to drive large-scale digital transformation, supporting scalable and AI-driven applications. Quantum computing is opening new horizons in computation, optimization, and cryptography. Nano-computing and nanoelectronics enable ultra-low-power, compact, and high-performance architectures. Green computing emphasizes energy efficiency, carbon reduction, and sustainable design principles critical for long-term environmental stewardship. Sovereign computing, an emerging global priority, ensures data privacy, national autonomy, and secure computing environments through sovereign cloud frameworks, localized data governance, and controlled digital infrastructure.

The seminar will feature expert lectures and technical paper presentations to promote innovation, research, and academic engagement. In addition, selected projects from BTech final year students will be showcased. The event aims to foster meaningful collaboration between academia, researchers, and industry professionals while exploring the future of intelligent, sovereign, and sustainable computing.



Objectives of the Seminar:

- To explore sustainable and intelligent computing technologies across cloud, quantum, nano, and green domains.
- To promote energy-efficient, secure, and environmentally responsible digital infrastructure.
- To highlight innovations in AI-driven optimization, edge intelligence, and low-power computing systems.
- To emphasize sovereign computing, data privacy, and digital autonomy.
- To foster collaboration between academia, industry, and researchers for future-ready computing solutions.

SUB THEMES:

- Cloud and Edge Intelligence
- Quantum Computing and Post-Quantum Security
- Nanoelectronics and Nano-Scale Architectures
- Green Computing and Sustainable System Design
- Sovereign Computing, Digital Autonomy & Sovereign Cloud
- AI-Driven Optimization for Energy and Resource Management
- Embedded Systems for Sustainable Applications
- Digital Infrastructure for Net-Zero Initiatives

Technical Sessions

- Expert Lecture(s) related to theme/Sub-theme of seminar
- Paper presentations by students on theme/sub-themes of seminar

Important Dates

Last date for submission of abstract: **24-04-2026 (Friday)**

Acceptance of abstract: **27-04-2026 (Monday)**

Registration Deadline: **28-04-2026 (Tuesday)**

Date of The Event (One Day Seminar): **05-05-2026 (Tuesday)**

CALL FOR PAPERS

All interested participants are requested to contribute research papers and case studies detailing concept, innovative, ideas or practical experiences for oral or a poster presentation. Each paper should begin with an abstract of about 200 words and should be limited to 6 typed pages in A-4 size papers including text, figures and tables etc. A brief bio-data (not more than half a page, affixing a photo) of the author(s) should accompany the paper.

Papers to be sent to yogitagigras@ncuindia.edu and also registration is available at the link given below.

REGISTRATION FEE (INCLUDING GST)

The participants may register by filling the registration form and by paying the registration fees as indicated below in the enclosed registration form.

Registration form Link: <https://forms.gle/BhWRoKhLNW5P8DBW9>

Research Scholar / Students (IEI students' chapter member):- Rs. 826/-

Students (Non Member) :- Rs. 944/-

Faculty/Industry Experts/Others: Rs 1180/-

(Amount includes 18% GST)



Scan to Register

PAYMENTS

NEFT DETAILS:-

Account Name : The Institution of Engineers (India) Faridabad Local Centre

Account No. : 146601000016741

IFSC Code : IOBA0001466

Bank Name : Indian Overseas Bank

Bank's Address : YMCA Branch, Sector 6, Faridabad

PAN No. : AAATT3439Q

GST No. : 06AAATT3439Q2ZX

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