Jointly Organized by
07 Electronics & ICT Academies

IIITDMJ, IITG, IITR, IITK, MNITJ, NITP, NITW & Spoke Academies
http://www.mnit.ac.in/eict

Online Programme
on
BLC-04A Blockchain Security and Performance

Sep 01 - Sep 21, 2026

An Initiative funded by
Ministry of Electronics and Information Technology
Government of India
meity.gov.in/content/schemes-projects

Experts/Speakers-

Prof. Sandeep Shukla	IIT Kanpur
Prof. Shekhar Verma	IIIT Allahabad
Dr. Deepak Kumar	La Trobe University, Australia
Dr. S. Venkatesan	IIIT Allahabad
Prof. Ashok Kumar Das	IIIT Hyderabad
Speakers from IITs/NITs/IIITs and eminent experts from other walks of life	

EICT Academy MNIT Jaipur

Chairman, EICT Academy & Director MNIT Jaipur **Prof. Narayana Prasad Padhy**
Chief Investigator: **Prof. Vineet Sahula**
Coordinator: **Dr. Satyasai Jagannath Nanda**
Co- Chief Investigators: **Prof. Lava Bhargava, Prof. Pilli Emmanuel Shubhakar, Dr. Ravi Kumar Maddila**

Objective (Electronics & ICT Academy-Phase II)
1)To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY in high-priority areas supporting the "Make in India" and the "Digital India" programs.
2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning
3) To support the National Policy on Electronics 2019 (NPE 2019), which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.
4) To promote standardization of FDPs through Joint Faculty Development Programmes.

An intensive 40-Hour Training Programme in online mode is being organized for faculty, doctoral students of engineering and technological institutions. Working professionals from industry/organizations are also invited to attend. The main theme of the training program will be oriented around exploring the state-of-the-art methods for Blockchain Security and Performance.

Programme Modules:

A Broad Overview of Blockchain Technology: Introduction to Blockchain, Decentralization, Trust, Consensus, and Web3 Ecosystem, Bitcoin Blockchain, Proof-of-Work, Mining Security, Forks, Double Spending, and 51% Attacks
Cryptographic Foundations for Blockchain: Hash Functions, Digital Signatures, Merkle Trees, Commitments, and Randomness, Ethereum Architecture: Accounts, Transactions, Gas, EVM, Smart Contracts, and Security Model, Smart Contract Vulnerabilities: Reentrancy, Integer Issues, Front-Running, Oracle Attacks, DoS, and Access Control Flaws
Blockchain Scalability & Privacy: Blockchain Consensus Protocols, Scalability and Performance, Enterprise Blockchain with Hyperledger Fabric as a Case Study, Privacy-Preserving Blockchains: Bitcoin Traceability, Monero, Zcash, Stealth Addresses, Ring Signatures, and Confidential Transactions
Quantum-Secure Blockchain: Quantum Computing Attacks on Blockchain, Post-Quantum Security for Blockchain, Blockchain Security in Fintech, Electric Vehicle ISO15118 Security using blockchain

Principal/Joint-Principal Coordinators		
Dr. Meenakshi Tripathi , Jt-PC MNIT Jaipur	Dr. Nitish Andola-PC, IIITDM Jabalpur	Jt-PC IIITDM Jabalpur
Prof. B V Phani,Jt-PC IIT Kanpur	Prof. Sanjeev Manhas, Jt-PC, IIT Roorkee	Prof. M. P Singh & Dr. Jyoti Prakash Singh,

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate, and graduate students from India and the rest of the world. Participants will be admitted on a first-come, first-served basis.

Registration Fee			
Mode of programme	India/SAARC/Africa (18% GST extra)		Rest of the world
	Academia (faculty/Students)	Others	
Online	Rs. 750/-	Rs. 1500/-	US $ 60/-

- Fee once paid will not be refunded back; however, can be adjusted for a future programme.
- The fee covers online participation in the programme, tutorial, notes and examination, certification charges etc.
- The registration amount may be paid through online mode-NEFT/UPI/Cards/SWIFT, provided at the registration portal.
- Detailed schedule will be shared after receiving registration form

Register online at–http://online.mnit.ac.in/eict/

→ For queries, **contact us at** fdp.academy@mnit.ac.in

EICT Academy MNIT Jaipur

MNIT Jaipur one of the oldest NITs, the institute has a rich heritage of sixty years producing world class engineers, managers, architects and scientists. Ranked 42nd nationally in the NIRF ranking-2025 (Engineering), the institute offers learning opportunities for undergraduate, postgraduate students, and researchers in various domains. Having a lush green campus of over 317 acres within the heart of the pink city, close to Jaipur International Airport, the campus offers a safe and lively environment. A world class teaching infrastructure, state-of-art laboratories welcome you at the campus. The institute has a vision to impart education of international standards and conduct research at the cutting edge of technology.