



On Blockchain Technologies and the Future of Decentralized Systems

Mar 17th – Mar 31st 2026



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Objective (Electronics & ICT Academy-Phase II)

1) To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY by promoting emerging areas of technology and other high-priority areas that are pillars of both the "Make in India" and the "Digital India" programs.

2) To promote synergy and collaboration with industry, academia, universities and other institutions of learning, especially in emerging technology areas.

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.

5) To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes per year.

6) To design, develop & deliver specialised FDPs on emerging technologies/ niche areas/ specialised modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of engineering and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive 40 Hours Training Programme in online mode is being organized for faculty and doctoral students of engineering and technological institutions. It is also open to working professionals from industry/organizations. The main theme of training program will be oriented around exploring the state of the art methods for Challenges in Indoor & Outdoor optical wireless communication.

Experts/Speakers-

Experts from IITs, NITs, Industrial and Academia Experts

Programme Modules:

Module 1: Modular Architecture & Layer 2 Scaling, The End of the Monolith: Moving away from "one-chain-does-all" to modular stacks (e.g., Celestia for data, Ethereum for settlement). Rollup Ecosystems: Deep dive into Optimistic and ZK-Rollups; understanding sequencers and proof verification, App-Chains & Subnets: Designing custom, application-specific blockchains using frameworks like Avalanche Subnets or Cosmos SDK.

Module 2: Zero-Knowledge (ZK) & Privacy Engineering, The Privacy Layer: Implementing zk-SNARKs and zk-STARKs for confidential transactions and identity, Programmable Privacy: Building "Private-by-Design" applications where users prove eligibility (e.g., age, solvency) without revealing raw data. ZKEVMs: How Zero-Knowledge proofs are enabling Ethereum to scale while maintaining total compatibility with existing code.

Module 3: 3Tokenomics & Real-World Assets (RWA) Institutional DeFi: Bringing trillions on-chain through the tokenization of Real Estate, Treasury Bills, and Private Equity. Oracle Networks: Integrating real-world data feeds via Chainlink and decentralized sensors (DePIN). Advanced Token Design: Designing sustainable economic models (ve-tokenomics) that align long-term incentives for users and protocols.

Module 4: Interference and Security Issues: Decentralized Governance & Future Systems DAO 2.0: Moving beyond simple "one-token-one-vote" to reputation-based and quadratic voting models. Decentralized Identity (DID): Implementing Soulbound Tokens (SBTs) and W3C-standard Verifiable Credentials for a portable digital life. Interoperability Protocols: Using CCIP and IBC to move assets and data seamlessly across fragmented blockchain network

Programme Coordinator:

Dr. Arks Srinivas, IIT Kanpur
(Principal coordinator)

Dr. Meenakshi Tripathi, MNIT
Jaipur, 954 9654 393 (M),
Joint PC

Registration:

Registration is open to faculty, working professionals, industry persons, doctoral, postgraduate and graduate students from India and rest of the world. Register online at-



(<http://online.mnit.ac.in/eict/>)

Registration Fee:

Mode of programme	Academia (faculty/Students): India/SAARC/Africa	Others: India/SAARC/Africa	Rest of the world
Online	Rs. 500/-	Rs. 1500/-	US \$ 60/-

(A) Fee once paid will not be refunded back.

(B) The fee covers online participation in the programme, tutorial notes and examination, certification charges etc.

(C) The registration amount may be paid through online mode- NEFT/UPI/Cards/SWIFT, provided at the registration portal.

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

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 43rd nationally in the NIRF ranking-2024 (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.

