



# Online mode Programme

## on Blockchain Technologies and the Future of Decentralized Systems

Feb 17<sup>th</sup> – Mar 31<sup>st</sup> 2026



[meity.gov.in/content/schemes-projects](http://meity.gov.in/content/schemes-projects)

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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 Blockchain Technologies and the Future of Decentralized Systems.

### 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
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)
Module 3 Tokenomics & 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
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:

### Programme Coordinator:

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### Registration:

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

Participants will be admitted on first-come first-served basis. 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. 1000/-	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.
- (D) Detailed schedule will be shared after receiving registration form.

→ For queries, email us at [fdp.academy@mnit.ac.in](mailto:fdp.academy@mnit.ac.in)