

Joint Online Faculty Development Programme

BLOCKCHAIN

E & ICT Academy MNIT Jaipur http://www.mnit.ac.in/eict

TECHNOLOGIES AND APPLICATIONS

Dates
January 3 – 8, 2022
(Monday to Saturday)

Timings 10:00 AM - 1:00 PM 2:00 PM - 5:30 PM

(6.5 hours a day)

Chairman, Advisory Board, EICT Academy & Director MNIT Jaipur Prof. Ajay Pal Singh Rathore

Honorary Academic Chair, EICT Academy Prof. Vishwanath Sinha

Chief Investigator, EICT Academy Prof. Vineet Sahula, ECE

Co- Chief Investigators, EICT Academy Prof. Lava Bhargava, ECE Dr. Pilli Emmanuel Shubhakar Dr. C. Periasamy, ECE Dr. S. J. Nanda, ECE Head, ECE (Prof. Vijay Janyani) Head, CSE (Dr. Dinesh Gopalani)

Preamble (Electronics & ICT Academy)

Government of India had announced a National Policy on Skill Development, which has set a target of skilling 500 million people by 2022 in the domain of Electronics & IT. Under the plan scheme of "Digital India Manpower Development". MeitY has set up seven (07) Electronics and ICT Academies as a unit in 03 IITs, 03 NITs and 01 IIIT with an gradation in the areas related to Electronics & ICT leading ultimately objective of faculty/mentor development/up leading ultimately employability of graduates/diploma holders. MNIT Jaipur has set up such an academy for providing specialized training to faculty and industry persons in the states/UTs of Rajasthan, Gujarat, Daman & Diu, Dadra Nagar Haveli.

(A) Issues-

- IT Hardware and Electronics Manufacturing industry- availability of properly trained, skilled and qualified manpower
- 2. Number of quality PhDs generated in IT / Computer Science is very low
- In E & ICT domain- there is a very high degree of obsolescence of existing technologies and faster emergence of newer technologies

(B) Approach-

- A focused faculty training/updation programme for IT, Electronics and related sectors
- 2. Spreading up and continuous updation regarding Emerging Technology
- 3. Training and consultancy services for Industry
- 4. Design, Develop and Deliver specialized modules for specific research areas and Industry
- 5. Providing advice and support for technical incubation and entrepreneurial activities

An intensive one-week online certification programme on **Blockchain Technology and Applications** is being organized jointly by **PDPM IIITDM Jabalpur, MNIT Jaipur, IIT Kanpur, IIT Roorkee, and NIT Patna** for the **Faculty Members** of **Engineering** and **Technological Institutions**. It is also open to **Industry Personnel** and **Doctoral Students** of Indian organizations.

The course will be **Instructor led Online sessions** combined with rigorous hands-on sessions. Great opportunity to connect with experts from academia, industry and government. A **Certificate of Completion** on successful completion of the course **with full access to the course material**.

Experts / Speakers

Prof. Sandeep Shukla, IIT Kanpur Dr Amey Karkare, IIT Kanpur, Dr Emmanuel Pilli, MNIT Jaipur Dr Mani Madhukar, IBM, India

Prof. Aparajita Ojha, IIITDMJ Shri Santosh Mishra, IAS Dr Sushma Ruj, ISI Kolkata Shri Ras Dwivedi, IIT Kanpur

Shri Samir Jain, IIITDM Jabalpur

Course Content:

Introduction to Blockchain, Blockchain Evolution, Bitcoin Blockchain, Consensus Mechanisms, Proof of Work, Ethereum, Forks in Blockchain, Smart Contracts, Solidity language, Remix Environment, Decentralized Applications and Decentralized Autonomous Organizations Truffle, Ganache and Metamask for Network based Dapp Development Permissionless & Permissioned/ Private & Enterprise level Blockchains Hyperledger Fabric & Chaincode, Storage in Blockchain, Data Encryption, Cryptographic Protocols – SHA, RSA and ECC Algorithms Security and Privacy issues in Blockchain, Government Services, Use cases, Challenges and Solutions, Research trends in Blockchain

Registration:

Registration is open to faculty, industry persons, doctoral, postgraduate and graduate students. Participants will be admitted on first-come first-served basis. Register online at - http://online.mnit.ac.in/eict/

Course and Certification Fee:

Indian Participants -

Academic (Student / Faculty): ₹ 500/-, Industry / Others: ₹ 1,000/-

Foreign Participants – SAARC/African countries

Academic (Student / Faculty): ₹ 500/-, Industry / Others: ₹ 1,000/-

Rest of the countries

Fee - US\$ 60 or British £ 50



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