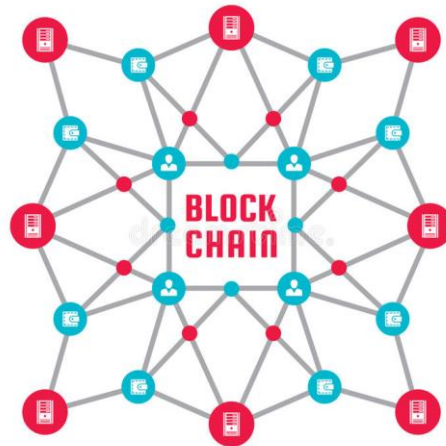




**Eduxlabs in association with Mechanica IIT Madras**

One-week Training on  
**Blockchain Technology & Its Applications**

Empower your faculty & students with Blockchain Revolution





# About Blockchain Training

The objective of the Training is to introduce fundamentals of blockchain technology and implementations of blockchain technology with their real time applications.

This Training will cover complete understanding of blockchain concepts with theory & hands on session. We covers blockchain case studies.

## Blockchain Hands-on Implementation

- Block chain based crypto currency Implementation.
- Block chain based smart contract.. Many more

Overall, this FDP is serving to be a great platform for faculty and researchers to upgrade their knowledge in Blockchain technology

# 5 Days Blockchain Course Content

## Course Description with Lab sessions

### Getting Started with Blockchain Technology

- Applications of Blockchain Technology
- opportunity & challenge in Blockchain Technology
- Market Growth of Blockchain Technology

**Lab:** Blockchain Business Case studies

### About Blockchain fundamental

- Blockchain Features
- Public VS private Blockchain
- Cryptography, Hashing and Transactions
- Blockchain Structure
- Mining and Consensus
- How Blockchain Works
- Centralization and Decentralization
- Smart Contracts
- Wallets, Transactions, Public & Private keys

**Lab:** Blockchain Smart Contracts & Wallet

# 5-Days Blockchain Course Content

Blockchain Technology: Learn to Build blockchain Applications

## Course Description with Lab sessions

### Case Study of Blockchain : Bitcoin

- Bitcoin and Blockchain introduction?
- Getting Bitcoin Wallet
- Getting and Sending Bitcoins
- Working of Mining Blockchain?
- Earning Bitcoin Programmatically
- Acceptance of Bitcoin on Website

**Lab:** Building and Releasing Bitcoin Enabled APIs

### Introduction to Cryptocurrency

- Understanding various Cryptocurrency
- Concept of Opening Cryptocurrency Wallets
- Buying Cryptocurrency Wallets
- Withdrawal Cryptocurrency Wallets
- Bitcoin with Cryptocurrency

**Lab:** Blockchain based crypto currency Implementation

# 5-Days Blockchain Course Content

Blockchain Technology: Learn to Build blockchain Applications

## Course Description with Lab sessions

### Use Ethereum Solidity & Smart Contracts to build blockchain apps

- Ethereum Installation
- Ethereum Virtual Machine
- Deploying Smart Contracts
- Key Properties of smart Contracts
- Language for Smart Contracts
- Bitcoin and Blockchain introduction
- Build compelling blockchain applications using the Ethereum Blockchain

**Lab:** Design, test, and deploy secure Smart Contracts

### Hyperledger: develop Network Applications

- Fundamentals Of Hyperledger
- Ethereum VS Hyperledger
- Genesis Block Configuration
- Creating Network Using Fabric

**Lab:** Learn to develop Network Applications on Hyperledger

# 5-Days Blockchain Course Content

Blockchain Technology: Learn to Build blockchain Applications

## Course Description with Lab sessions

### Solidity Programming

Solidity - Language of Smart Contracts

- Installing Solidity & Ethereum Wallet
- Basics of Solidity by Example: Subcoin Smart Contract
- Layout of a Solidity Source File & Structure of Smart Contracts
- General Value Types (Int, Real, String, Bytes, Arrays, Mapping, Enum, address)
- Ether Units, Time Units

### Contract Deployment for Blockchain Environment

Design, develop and deploy a smart contract for a decentralized FundRaising Platform

## Participants Eligibility

The program is open to the Faculty/ Research Scholars/ Students of science & Engineering institutes and other working professionals are also, eligible.

## Blockchain Training Projects

- Smart Contract: Development of smart block-based contract for project development
- Crowd Funding Smart Contract (ICO)
- Setting up Private Blockchain Network
- Crypto-wallet: Creating Crypto wallet for handling cryptocurrency
- Ethereum Wallet – Testing Platforms / Local Platform
- Cryptocurrency: ERC-20 tokens & creating own crypto currency using solidity for Ethereum.
- ERC20 Token Deploying on Real Ethereum Test Network & Making Transaction all across Globe.
- Blockchain Application: Building a Banking Full Stack Decentralized Application for Current Balance, Making Transactions with Front End UI & Blockchain Application (Decentralized Network)
- Blockchain Application: Full Stack Blockchain App for Voting for Candidate Application with WebAPP (Front End UI) & Blockchain Application (Decentralized Network)

## Benefits for Participants

- Interact with Industry training expert and work on real-life challenges.
- Learn Blockchain related skills & build decentralized applications.
- Hands on implementation of blockchain technology in Banking, healthcare, many others fields
- our program explore the career & research opportunities in blockchain
- Training **certificate with Eduxlabs** in association **with Mechanica IIT Madras**

## Benefits For The Hosting Institutions

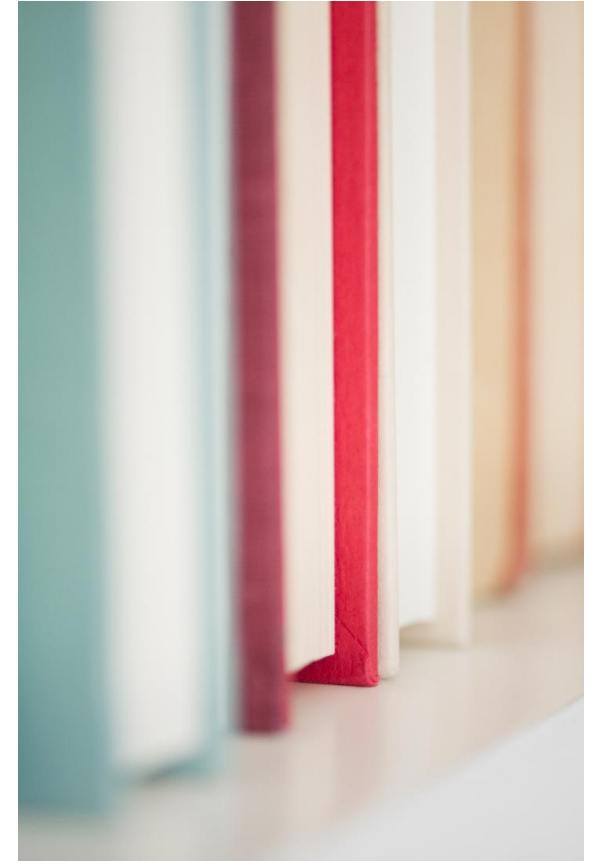
- Name and Logo including website link will be published on our official website mentioning that “You are our FDP Center”.
- Email Promotion will be sent to regional colleges about training program.
- Soft copy of Posters will be sent to you for effective regional publicity.
- We can sign the MOU for long term association with your estimated college as Industry partner for Training & Development.



# Requirements :

## Requirements for Training program from (Hosting Institutions)

- Seminar hall/classroom having the enough capacity to conduct hands-on-session for all participants
- Good Quality public address system ideally two cordless mic will be required.
- Projector/ Screen along with black/white board for teaching and presentation purposes.
- Minimum 60 participants required to organize This Training
- Accommodation for one training expert.



# Training Charges

	Training Fee
Offline - 1-weeks (5-Days) Training	₹ 3000/-per Head
Online - 1-weeks ( 30-Hrs) Training	₹ 2500/per Head

\*All mentioned fees does not include GST

The **fee includes:** Free software tool kit to each members, Hands on training & certification,

# THANK YOU



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