

Since 2007, Making IT Experts & Products

Course: Blockchain & Web3 Development

Duration: 1000 Hrs (Changeable) | Fees: Individual / Batch

Since 2007, Nestsoft TechnoMaster has been providing training, internships, and services in IT technologies, both online and offline, with the expertise of **over 250 industry experts**. We have delivered internships, training, and seminars to more than 50,000 students, resulting in numerous success stories. **We offer 100% placement support through JobsNEAR.in**

Our Courses/Internship

- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, Salesforce, Sap
- Microsoft Excel
- Ethical Hacking



Attend a FREE Trial Class
1000+ Success Stories

Syllabus on the Next Page ..



Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

+91 9895490866

+91 8301010866

join@nestsoft.com

www.nestsoft.com

Introduction

Blockchain is a distributed ledger technology that allows for secure, transparent, and tamper-proof transactions. It is a decentralized system where data is stored across multiple nodes, making it resistant to censorship and fraud. Blockchain has various applications, including cryptocurrencies, supply chain management, and digital identity.

Course Syllabus

Month 1: Blockchain Fundamentals & Web3 Introduction

Blockchain Basics

- * Introduction to Blockchain Technology
- * History and Evolution of Blockchain
- * Blockchain Architecture
- * Distributed Ledger Technology (DLT)
- * Centralized vs Decentralized Systems
- * Blockchain Networks and Nodes
- * Blocks, Hashing, and Cryptography
- * Digital Signatures
- * Consensus Mechanisms
- * Proof of Work (PoW)
- * Proof of Stake (PoS)

Web3 Fundamentals

- * Introduction to Web3
- * Web2 vs Web3
- * Decentralized Internet Concepts
- * Blockchain Applications
- * Cryptocurrency Fundamentals
- * Digital Wallets

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

+91 9895490866

+91 8301010866

join@nestsoft.com

www.nestsoft.com

- * Blockchain Transactions

Month 2: Cryptocurrency & Ethereum Development

Cryptocurrency Concepts

- * Introduction to Cryptocurrencies
- * Bitcoin Fundamentals
- * Ethereum Overview
- * Tokens and Digital Assets
- * Wallet Management
- * Gas Fees and Transactions
- * Crypto Security Basics

Ethereum Development

- * Ethereum Architecture
- * Ethereum Virtual Machine (EVM)
- * Ethereum Networks
- * Test Networks
- * MetaMask Integration
- * Ethereum Development Environment Setup

Month 3: Solidity & Smart Contract Development

Solidity Programming

- * Introduction to Solidity
- * Solidity Development Environment
- * Variables and Data Types

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

 +91 9895490866

 +91 8301010866

 join@nestsoft.com

 www.nestsoft.com

- * Functions and Modifiers
- * Control Statements
- * Arrays and Mappings
- * Structs and Enums
- * Events and Error Handling
- * Inheritance in Solidity

Smart Contract Development

- * Smart Contract Architecture
- * Writing Smart Contracts
- * Testing Smart Contracts
- * Deploying Smart Contracts
- * Smart Contract Security Practices
- * Smart Contract Auditing Basics

Blockchain Development Tools

- * Remix IDE
- * Hardhat Framework
- * Ganache
- * Blockchain Testing Tools

Month 4: Web3 Application Development

Frontend Web3 Development

- * Introduction to Web3.js
- * Ethers.js Library

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

☎ +91 9895490866

☎ +91 8301010866

✉ join@nestsoft.com

🌐 www.nestsoft.com

- * Connecting Wallets with Applications
- * Blockchain API Integration
- * React.js for Web3 Applications
- * Decentralized Application (DApp) Development

Decentralized Technologies

- * IPFS Introduction
- * Decentralized Storage
- * NFT Fundamentals
- * NFT Minting
- * NFT Marketplace Development
- * DAO Concepts
- * DeFi Introduction

Month 5: Advanced Web3 & Blockchain Projects

Advanced Blockchain Concepts

- * Layer 1 and Layer 2 Solutions
- * Blockchain Scalability
- * Cross-Chain Technology
- * Enterprise Blockchain
- * Blockchain Security
- * Performance Optimization

Web3 Deployment

- * Deploying Decentralized Applications

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

 +91 9895490866

 +91 8301010866

 join@nestsoft.com

 www.nestsoft.com

- * Cloud Integration with Blockchain
- * Blockchain Testing
- * Application Maintenance

Final Projects

- * NFT Marketplace Application
- * Decentralized Voting System
- * Cryptocurrency Wallet
- * DeFi Application
- * DAO Application
- * Blockchain-Based Supply Chain System

Tools and Technologies

- * Blockchain Technology
- * Ethereum
- * Solidity
- * Web3.js
- * Ethers.js
- * React.js
- * MetaMask
- * Hardhat
- * Remix IDE
- * Ganache
- * IPFS

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

☎ +91 9895490866

☎ +91 8301010866

✉ join@nestsoft.com

🌐 www.nestsoft.com

Since 2007, Making IT Experts & Products

- * Node.js
- * Git & GitHub

(Click on Course for more details)

Course: Blockchain & Web3 Development

Duration: 1000 Hrs (Changeable) | Fees: Individual / Batch

- Thank You -

N.B: This syllabus is not final and can be customized as per requirements / updates.

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

+91 9895490866

+91 8301010866

join@nestsoft.com

www.nestsoft.com