MODULE-1
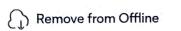
1. What are the cryptographic primitives that are used in Blockchains?
2. Explain Hash functions.
3. How does SHA Function Work?
4. What is ECC used for?
5. Define Digital signatures. Explain how Digital signatures work?
6. Explain Fundamental concepts of Distributed systems.
7. Explain Byzantine Generals Problem.
8. Explain Block Header.
9. What is The Genesis Block of BlockChain?
10. Define Markle Tree.

MODULE-2

1. What is Bitcoin and the history of Bitcoin?
2. What is UTXO in the block chain?
3. How to validate Bitcoin transactions?
4. What is Pay-to-Script in blockchain and Multisig Addresses.
5. What are Vanity Addresses?
6. Explain Concept of Wallet.
7. Explain Structure of Blocks and Blockheader and Genesis Block.

8. What are theBitcoin Mining and Difficulty levels?
9. Explain Bitcoin Core node and API
10. What is Peer-to-Peer Network Architecture?
11. What is Incentive Blockchain

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12. DefineThe Extended Bitcoin Network.

13. What is Bitcoin Relay?

14. Explain Exchanging "Inventory", Simplified Payment.

15. Explain Verification (SPV) Nodes.

16. Explain Blockchain Forks Bitcoin Testnet.

17. Define Basics of Bitcoin Forensics.

18. Explain Analysis of Address and Wallet.

19. What are Clusters in Blockchain?

MODULE-3

1. What is Ethereum in blockchain? Define Ethereum 2.0.

2. What is Turing completeness?

3. Define Ethereum Wallets Working with Metamask.

4. What is EOA and Contracts Transaction?

5. Explain the EStructure of Transaction.

6. What is meant by Transaction Nonce?

7. What are Smart Contracts? Explain its Uses.

8. Define Metamask.

9. Define Truffle.

10. What is the Solidity of smart life cycle of smart contract?

MODULE-4

1. Explain the Framework of Hyperledger Fabric,

2. Explain Interoperability and Scalability of

5. Explain the Structure of Transaction.
6. What is meant by Transaction Nonce?
7. What are Smart Contracts? Explain its Uses.
8. Define Metamask.

9. Define Truffle.
10. What is the Solidity of smart life cycle of smart contract?

MODULE-4

1. Explain the Framework of Hyperledger Fabric,
2. Explain Interoperability and Scalability of blockchain.
3. What are the Fundamentals of Hyperledger Composer?

MODULE-5

1. Explain ERC20 and ERC721 Tokens .
2. Differentiate between ERC20 & ERC721.
3. Explain NFT.
4. Compare ICO and STO.
5. What are the Different Crypto currencies?
6. Define Metaverse.

MODULE-6

1. Define Blockchain in IoT.
2. What is AI? Explain their applications.
3. What is the role of Cyber Security?
4. Explain the Applications of Blockchain in various domains.