

UNIT 1 : ETHEREUM BLOCKCHAIN

- Introduction
- Ethereum Stack /Ecosystem
- Consensus,Gas,Ether,Fork
- World state,account state
- Ethereum Transactions
- Elements of Ethereum Blockchain
- Ethereum Virtual Machine
- Deploying/Execution Environment
- Accounts and Type of Account
- Blocks and Genesis Block
- Mining
- Ethereum Faucet
- Messages
- Clients and Wallets
- Ethereum Network
- Scalability and Security

UNIT 2: ETHEREUM ENVIRONMENT

- Setting up of Development Environment
- Node.js
- Geth
- Ethereum Browser
- Mist
- MetaMask
- Truffle
- Web3.js
- TestNet(Ropsten)
- Setting up of Private Net
- Running MIST on Private Network
- Deployment

UNIT 3: SMART CONTRACTS USING SOLIDITY

SOLIDITY PROGRAMMING

- Data types
- Functions
- References and Mapping
- Global Variables
- Control Statements
- Usage of Web3.js and Truffle

SMART CONTRACTS

- Introduction
- Definition
- Write a contract and Deploying it in Blockchain.

Tek classes