

Sipna College of Engineering & Technology, Amravati.
Department Of Computer Science & Engineering

LIST OF PRACTICALS

SESSION 2022-23

Branch :- Computer Sci. & Engg.
Subject :- Blockchain Fundamentals Lab

Class :- IV Year (A/B/C)
Semester :- VIIth

| Practical Number | Aim of Practical |
|-------------------------|---|
| 1. | To Understand basics of Block Chain and learn how to install various software's required to perform various networking concepts used in creation and generation of block to perform Block Chain |
| 2. | To Understand and create a Diffie-Hellman Algorithm |
| 3. | To Understand and implement various SHA algorithms |
| 4. | To Understand and implement RSA Encryption and Decryption |
| 5. | To Create a simple BlockChain |
| 6. | To Create Your Own Cryptocurrency Using Python |
| 7. | To Understand what is Smart Contract and design simple Smart contract |
| 8. | To Understand what is Merkle tree and analyze it with smart contract. |
| 9. | To learn about Blockchain and its three pillars that are decentralization, transparency & immutability by using simulator |
| 10. | To learn about mining in blockchain i.e. how a transaction is validated and added into a blockchain by using simulator |
| 11. | To learn Proof of Work (PoW) & Proof of Stake (PoS) using simulator |

Practical In-charge

Prof. N. D. Shelokar

Prof. R.H.Popli

H.O.D.

Dr. V.K. Shandilya