BHARATI VIDYAPEETH COLLEGE OF ENGINEERING
Department of Computer Engineering

Class : B.E   **Blockchain (CSDC7022)**   **Sem : VII**

ACADEMIC YEAR 2021-22
Assignment Plan

Assignment No	Topic Name.	Planned Date	Submission Date	Remark
A1	Cryptocurrency	27/07/2022	1/08/2022	
A2	Programming for Blockchain	23/08/2022	30/8/2022	
A3	Public and Private Blockchain	13/09/2022	21/09/2022	
A4	Tools and Applications of Blockchain	31/09/2022	04/10/2022	

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Class : B.E   **DATA STRUCTURES**   **Sem : VII**

List of
Assignment

Assignment 1: Cryptocurrency:

1. List Components of blockchain.

2. What is Proof-of-Work (PoW), Proof-of-Burn (PoB), Proof-of-Stake (PoS), and Proof-of-Elapsed Time (PoET),?

3. What is Bitcoin, Altcoin, and Tokens based on its Utility and Security?

Assignment 2: Programming for Blockchain

1. Explain Smart Contracts with example.

2. Solidity Programming Write a program in C to create a singly linked list and perform the operations as insert into list, Search for Data, Delete from list and Display data.

Assignment 3: Public and Private Blockchain

1. Explain Hyperledger Fabric Architecture.

2. Explain Hyperledger, Tools and Frameworks

Assignment 4: Tools and Applications of Blockchain

1. What is Corda, Ripple.

2. What is Quorum

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ACADEMIC YEAR 2022-23

Class	Course Code	Course Name	Sem
S.E.	CSL301	Blockchain Lab	VII

List of Experiment

Exp. No	Experiment Name
1	Cryptography in Blockchain, Merkle root tree hash
2	Creating Smart Contract using Solidity and Remix IDE.
3	Creating Transactions using Solidity and Remix IDE
4	Embedding wallet and transaction using Solidity
5	Blockchain platform ethereum using Geth.
6	Blockchain platform Ganache.
7	Case Study on Hyperledger
8	Case Study on Other Blockchain platforms.
Extra	
9	Creating a blockchain Application
10	Mini Project