Blockchain System Training schedule on digitizing academic certificates

1. **Program Outline:**

Date	Topics	Duration
Day 1	1. Introduction to Blockchain Technology 2. Ethereum Blockchain 3. Smart Contract 4. Crypto wallet service and setup 5. Gas Fees	4 hours
Day 2	6. Technical Tools/Services required for DApp 7. Project architecture 8. Project Structure and Code	4 hours
Day 3	9. User Manual on the system 10. Live Demo	2 hours

Content Details:

1. **Introduction to Blockchain Technology**
   - i. What is blockchain?
   - ii. Advantages of using blockchain
   - iii. Key Concepts
   - iv. Blockchain Use cases

2. **Ethereum Blockchain**
   - i. What is Ethereum?
   - ii. Why Ethereum blockchain
   - iii. Decentralized application
   - iv. Dapps over centralized system

3. **Smart contract**

i. What is smart contract
ii. How do smart contract work
iii. ABI in smart contract

4. **Crypto wallet**
   i. Crypto wallet service
   ii. Meta mask

5. **Gas Fee**
   i. Gas fee?
   ii. Gas and why do gas fee exist
   iii. Gas fee calculation

6. **Technical / Tools used for Dapps**
   i. Ethereum
   ii. Ether
   iii. Wallet
   iv. Gas fee
   v. Smart contract
   vi. Solidity Programming language
   vii. Laravel framework
   viii. Truffle Framework
   ix. Text Editor
   x. Laravel 8 and bootstrap
   xi. Web3 Js
   xii. Infura
   xiii. Web server
   xiv. Database server

7. **Project Architecture**
   i. MVC Architecture

8. **Project Code**
   i. Explain and walk-through Project code and flow.

9. **Project user manual**
   i. User manual for blockchain system.

10. **Live Demo**
    i. Live demo on the system.