		Curriculum Timolia	20		
Module No	Total Module Duration	Curriculum Timelir	Hours (unit in	Day	Day-Time (Weekends excluded)
1	4 Hrs	Introduction to Solidity and Blockchain Basics (Week 1-2) - Blockchain Overview and basics			· · · · · · · · · · · · · · · · · · ·
		Basics of Blockchain Technology - Why Decentralization? - Decentralization or Centralization			
1.1		- Benefits of Decentralization - Understanding Merkla Trees and Hash Functions - Consensus Mechanisms and Blockchain Security	1 hrs	Day 1	Monday (4/3/24)11:00 am - 3:00 pm
1.2		-Wallets (seed phrases, public addresses, types(custodial/non custodial))	1 hrs	Day 1	Monday (4/3/24)11:00 am - 3:00 pm
4.0		- DAO (Becentralised Autonomous Org)(1 hr) - Basics of popular DeFi protocols such as Uniswap, Compound, and MakerDAO.			
1.3		<ul> <li>Introduction to DeFi. (1 hr)</li> <li>Understanding DeFi as a significant use case for blockchain technology.</li> </ul>	1 hrs	Day 1	Monday (4/3/24)11:00 am - 3:00 pm
1.4		- Extension on ethereum (Layer 2's)	1 hrs	Day 1	Monday (4/3/24)11:00 am - 3:00 pm
2	26-28 Hrs	Solidity Fundamentals			
		-Introduction to Ethereum and Smart Contracts - Basic Syntax and Structure of a Solidity Contract	2 hrs	Day 2	Tuesday (5/3/24)11:00 am - 3:00 pm
2.1		Unique Data Types in Solidity Understanding Mappings and Structs			
		Variables, Functions, and Control Structures - Enums - Struct Types	2 hrs	Day 2	Tuesday (5/3/24)11:00 am - 3:00 pm
		- Addresses and Types - Address scopes - Transactions and Types	1 hrs	Day 3	Wednesday (6/3/24)11:00 am - 3:00 pm
		- Modifiers -Functions and function modifiers	1 hrs	Day 3	Wednesday (6/3/24)11:00 am - 3:00 pm
2.2		Storage types  Interfaces and Function Scopes in Solidity	2 hrs	Day 3	Wednesday (6/3/24)11:00 am - 3:00 pm
		- Writing and Implementing Interfaces			
		- ABI (Application Binary Interface)	2 hrs 2 hrs	Day 4 Day 4	Thursday (7/3/24)11:00 am - 3:00 pm Thursday (7/3/24)11:00 am - 3:00 pm
		'- EVM - Function Visibility and Access Control	2 hrs 2 hrs	Day 5 Day 5	Friday (8/3/24)11:00 am - 3:00 pm Friday (8/3/24)11:00 am - 3:00 pm
		- Solidity sequential data types(arrays, byteArrays)	2 hrs	Day 6	Monday (11/3/24)11:00 am - 3:00 pm
2.3		- Constructors and Inheritance  Token Standards	2hrs	Day 6	Monday (11/3/24)11:00 am - 3:00 pm
		<ul> <li>Introduction to tokenomics, token distribution, incentive mechanisms, and designing economic models for blockchain projects</li> </ul>	2 hrs	Day 7	Tuesday (12/3/24)11:00 am - 3:00 pm
		Recognizing the critical role of tokenomics in blockchain project success.  - Understanding ERC-20 (Fungible Tokens)	2 hrs 1 hrs	Day 7	Tuesday (12/3/24)11:00 am - 3:00 pm  Wednesday (13/3/24)11:00 am - 3:00 pm
		- Exploring ERC-721 (Non-Fungible Tokens), ERC-1155 (Multi-Token Standard), ERC-4626 (Yield bearing Vaults and ENS)	3 hrs	Day 8	Wednesday (13/3/24)11:00 am - 3:00 pm
		- Basics of Remix - Compilers and versions			
		- Compilers and versions - Remix VMs - Deployment on Remix VM's (	4 hrs	Day 6	Thursday (14/3/24)11:00 am - 3:00 pm
		- Remix's ABI - Traceback and debugging transactions			
		- Testnets deployment using personal wallets (eg: Metamask) - External Plugins and libraries (1 Day )	4 hrs		Friday (15/3/24)11:00 am - 3:00 pm
2.4		OpenZeppelin Contracts	4 hrs	Day 11	Monday (18/3/24)11:00 am - 3:00 pm
		Token Contracts (2hrs) VestingWallets.sol (2hrs)	2 hrs		Tuesday (19/3/24)11:00 am - 3:00 pm
		VestingWaterts.sol (zhrs) ReentrancyGuard.sol (zhrs)	2 hrs 2 hrs		Tuesday (19/3/24)11:00 am - 3:00 pm  Wednesday (20/3/24)11:00 am - 3:00 pm
3	58-60 hrs	Ownable.sol (2hrs)  Advanced Smart Contract Development (Week 3-5)	2 hrs	Day 13	Wednesday (20/3/24)11:00 am - 3:00 pm
		- Introduction to build environments and JS libraries for Smart Contract Interactions.			
3.1		JS Based build environments and libraries - Ethers, Js/Web3 Js - Ankrinfura			
		- Hardhat - Ethers,js/Web3.js - Ankrinfura	4 hrs	Day 14	Thursday (21/3/24)11:00 am - 3:00 pm
3.2		- Anximura - Hardhat Setting up and building on Foundry	4 hrs	Day 15	Friday (22/3/24)11:00 am - 3:00 pm
J.Z		Blockchain Runtime Environments (eg:Foundry, Ganache, Hardhat)     Setting up build environment (Foundry)			
		- Foundry di Forge, Anvil, Cast, Chisel  - Deploy on local vm using forge	6 Hrs	Day 16-18	Monday (25/3/24) - Wednesday (27/3/24)11:00 am - 3:00 p
		- Setting up a local chain with multi wallets using anvil Etherscan API	6 Hrs	Day 16-18	Monday (25/3/24) - Wednesday (27/3/24)11:00 am - 3:00 p
		- Smart Contract Scripting and Events - Event Handling and Emission in Solidity	8 hrs		Thursday (28/3/24) - Friday(29/3/24)11:00 am - 3:00 pm
3.3		Oracles - The Role of Oracles in Smart Contracts			
		- Integrating Oracles in Solidity -Using Oracles for External Data	4 hrs	Day 21	Monday (1/4/24)11:00 am - 3:00 pm
		-Case Studies: Utilizing Oracles in Real-World Scenarios	8 hrs	Day 22-23	Tuesday (2/4/24) - Wednesday (3/4/24)11:00 am - 3:00 pm
3.4		Architecture of Smart Contracts - Architectural Patterns and Best Practices	6 hrs	Day 24-26	Thursday (4/4/24) - Monday(8/4/24)11:00 am - 3:00 pm
		- EIPs and usecases	6 hrs	Day 24-26	Thursday (4/4/24) - Monday(8/4/24)11:00 am - 3:00 pm
		- Gas Optimization and Efficient Coding Proxy Contracts and Delegate Calls - Understanding Upgradable Smart Contracts	6 hrs	Day 27-29	Tuesday (9/4/24) - Thursday (11/4/24)11:00 am - 3:00 pm
		- Proxy Contract Design Patterns - Security Considerations in Proxy Contracts - Drawbacks of Proxies	4 hrs	Day 27-29	Tuesday (9/4/24) - Thursday (11/4/24)11:00 am - 3:00 pm
3.5		IPFS (InterPlanetary File System) - Integration of IPFS for decentralized file storage.			
		- Using IPFS in combination with smart contracts Interactive NFTs using IPFS (4hrs)	8 hrs	Day 20 21	Friday (12/4/24)-Monday(15/4/24)11:00 am - 3:00 pm
4	36-40 hrs	Security and Build Environments (Week 6-7)	0 1115	Day 30-31	Filoay (1214/24) Mibiliay (1314/24) F1.00 all F3.00 pili
4.1		- Detailed Study of security vulnerabilities in smart contracts, secure development practices  Researching Smart contract hacks			
		Types of Security Attacks - Common Vulnerabilities: Reentrancy, Frontrunning, sandwich etc Case Studies of Major Smart Contract Hacks	2 hrs 2 hrs	-	Tuesday (16/4/24)11:00 am - 3:00 pm Tuesday (16/4/24)11:00 am - 3:00 pm
4.2		Building resistance against MEV in smart contracts  Miner Extractable Value (MEV)	2 1115	Day 32	Tuesday (1014)24/11.00 alli - 3.00 pili
		willer L'Austaise Value (Mic V) - Understanding MEV and its Implications - Commit Reveal Designs	4 hrs 4 hrs		Wednesday (17/4/24)11:00 am - 3:00 pm Thursday (18/4/24)11:00 am - 3:00 pm
		- Architecure with MEV Resistance - Exploring MEV Flashbots	4 hrs	Day 35	Friday (19/4/24)11:00 am - 3:00 pm Monday(22/4/24)11:00 am - 3:00 pm
4.3		Security Patterns and common development practices, EIP's Security Best Practices	* ill'S	Day 36	pm
		County John National Anti-Patterns - Development Practices with Audits in mind	8 hrs 8 hrs		Tuesday (23/4/24) - Wednesday (24/4/24)11:00 am - 3:00 p Thursday (25/4/24) - Friday(26/4/24)11:00 am - 3:00 pm
5	38-40 hrs	Testing (Foundry) (Week 8-9)  - Deep dive into Testing with Foundry	_		<u> </u>
		- Deep dive into Testing with Foundry  Setting up Forge test and building test contracts			
5.1					Monday(29/4/24)11:00 am - 3:00 pm Monday(29/4/24)11:00 am - 3:00 pm
5.1		Introduction to Forge Test - Setting Up Forge - Basic Testing with Foundry	2 hrs 2 hrs		,
		Introduction to Forge Test - Settling Up Forge			
		Introduction to Forge Test Sesting Up Forge Basic Testing with Foundry Test types and test coverage Types of Test - Unit Testing in Solidity - Manual testing in VMs	2 hrs	Day 41	Tuesday (30/4/24111-100 om - 3-00 om
5.2		Introduction to Forge Test - Setting Up Forge - Basic Testing with Foundry  Test types and test coverage  Types of Tests - Unit Testing in Solidity - Manual testing in VMa - Fuzzing and Invarient tests - End-to-End Testing and code coverage(8hrs)		Day 41	Tuesday (30/4/24)11:00 am - 3:00 pm Wednesday (1/5/24) - Thursday (2/5/24)11:00 am - 3:00 pr
5.2		Introduction to Forge Test - Seating Up Forge - Basic Testing with Foundry  Test types and test coverage Types of Tests - Unit Testing in Solidy - Music Lessing in VMA - Fluzzing and Investment tests	2 hrs	Day 41  Day 42  Day 43-44	
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5.2 5.3 5.4 <b>6</b>	20 hrs	Introduction to Forge Test Setting Up Forge Basic Testing with Foundry  Test types and test coverage Types of Tests - Unit Testing in Solidity - Manual testing in YMs - Fuzzing and Invariant tests - End-ta-End Testing and code coverage@his)  Advanced Testing methods  Writing Effective Tests - Advanced Testing Techniques - Analyzing and Improving Test Coverage Practicing Advanced Testing Concepts - Fuzz Testing and Invariant Testing - Scenario-Based Testing  Development with annil (Ganache alternative) and deploying on testnets Test Nets and Deployment - Local chan using annil (Annil Testing (Week 10)  Testing on live Testnets (eg: goeff, sepola) (Zhrs) - Testing on live Testnets (eg: goeff, sepola) (Zhrs) - Testing on live Testnets (eg: goeff, sepola) (Zhrs) - Testing practs and Transactions  Debugging Tests and Transactions  Debugging Tests and Transaction backtracking - Tools and Techniques for Debugging/Drs) - Analyzing Transaction Failures (Zhrs) - Caustom Logging and Debugging Practices  Al based test analysis and audit preparations  Al-Assidad Contract Development - Leveraging Al 16 Smart Contract Development(Zhrs) - Automated Test Genemion(Zhrs)	2 hrs 4 hrs 8 hrs 2 hrs 2 hrs 4 hrs 4 hrs 4 hrs 4 hrs 4 hrs 5 hrs 2 hrs	Day 41  Day 42  Day 43-44  Day 45  Day 46  Day 47-48  Day 50  Day 51  Day 52  Day 54	Wednesday (1/5/24) 1-100 am - 3:00 pm Friday (3/5/24)11:00 am - 3:00 pm Friday (3/5/24)11:00 am - 3:00 pm Monday(6/5/24)11:00 am - 3:00 pm Tuesday (7/5/24) - Wednesday (8/5/24)11:00 am - 3:00 pm Thursday (6/5/24)11:00 am - 3:00 pm Friday (1/5/24)11:00 am - 3:00 pm Monday (1/5/24)11:00 am - 3:00 pm Tuesday (1/5/24)11:00 am - 3:00 pm Wednesday (1/5/5/24)11:00 am - 3:00 pm