

Stacks Clarity Cohort

Batch 3



Course Title : Clarity Development

Credit Hour : 3 hour

Course Instructor : Team Stacks Fast Chap.

Textbook : [Clarity of mind by Marvin Jansen](#)

References : [Stacks Clarity Tools](#)

Week No	Topic
Week 1 (By Ahmad)	Orientation (what we have done and what we aim to achieve further in future) <ul style="list-style-type: none"> ● Intro to all tools and platforms we will interact with ● Why Stacks Blockchain: Clarity vs Solidity
Week 2 (By Abdur Rehman)	<ul style="list-style-type: none"> ● Blockchain basics (public private keypair), Importance of hashes, validating transactions, Data Structure of Blockchain ● Consensus mechanisms (Proof of work, Proof of stake, Proof of Burn) ● Cryptography basics (History --> Present --> Future)
Week 3 (By Abdur Rehman)	<ul style="list-style-type: none"> ● Need of Smart Contracts ● Genesis Block (Block Content) ● Merkel Tree (Working and Implementation) <p>ASSIGNMENT - 1</p>
Week 4 (By Ummar Ikram)	<ul style="list-style-type: none"> ● Clarinet/VS Code Installation + Project Setup & Structure ● Data Types (Primitives, Sequences, Composites) + Keywords
Week 5 (By Ummar Ikram)	<ul style="list-style-type: none"> ● Functions (Public, Private, Read-only) ● Control Flow/Branching + Error Handling <p>ASSIGNMENT - 2</p>
Week 6 (By Ummar Ikram)	<ul style="list-style-type: none"> ● Traits/Interfaces ● NFTS/FTS + SIP Standards <p>ASSIGNMENT - 3</p>
Week 7 (By Ummar Ikram)	<ul style="list-style-type: none"> ● Digital Art Marketplace Project (Next JS + Gaia + Clarity) <ul style="list-style-type: none"> ○ Mint Digital Art as NFTs ○ Transfer/Sell NFTs and Get STX/Money
Week 8 (Team Stacks)	<ul style="list-style-type: none"> ● Final Note by Stacks Pakistan senior exe. ● Smart Contract Competition ● Resume Recommendations ● Most Active Participant Award

Speaker Sessions: Expert Speakers will be invited to share their valuable thoughts about a certain topic.

Important Instructions :

- You should attend the class with the camera on along with a provided picture background from Stacks Pakistan.
- You have to mark your attendance on the attendance form that will be shared with you before starting of every session
- You should be attentive during the sessions.
- You should abide by moral ethics and no vulgar or immoral activities are allowed during the sessions.
- You should be disciplined and punctual.
- Your attendance should be 70%, otherwise, you might be expelled from the program.
- You should study about the given lectures and sessions daily, you might be asked some questions from previous questions.
- Last week you will have to attempt all the projects and use cases in order to get a certificate and some other opportunities i.e recruitment and internships.
- You have to send reflection papers on daily basis to Stacks Pakistan on our email stackspakistan@gmail.com or google classroom.
- On these reflection emails you will write, what you have learned on that day, your feedback about how we can improve ourselves more.