

S.No	Lesson code	Lesson Name	Domain concepts covered	LP updated with domain concepts ?	Slides/video created?	Owner	Additional Resources for teachers
1	JL3800	Intro to BlockChain and representing transaction	What is Blockchain,DLT,mechanism,types, characteristic of blockchain	Yes	Yes	Priyanka + Bindu	https://www.techtarget.com/searchcio/definition/distributed-ledger
2	JL3801	Creating Blocks	Mining, miners, genesis block, creating block in python	Yes	Yes	Priyanka	https://www.codecademy.com/learn/introduction-to-blockchain-and-crypto/modules/dapps/cheatsheet
3	JL3802	Hashing and SHA	Hash functions, SHA 256 and its characteristics	Yes	Yes	Priyanka	https://www.simplilearn.com/bitcoin-mining-explained-article#:~:text=Mining%20transactions%20are%20validated%20digitally,on%20the%20decentralized%20blockchain%20ledger.
4	JL3803	Generating Block Hashes Creating Blockchain Class	What is hash and how does it work,encryption,properties and benefites of hashing. Markle tree	Yes	Yes	Bindu	https://www.geeksforgeeks.org/introduction-to-merkle-tree/
5	JL3804	Adding blocks to the blockchain	Consensus mechanism, Mempool,Confirmed and unconfirmed transaction, genesis block,Creating Blockchain class	Yes	Yes	Bindu	https://www.researchgate.net/file/A-simplified-example-of-how-blocks-are-chained-to-form-a-blockchain-Notice-that-each_fig1_332215097
6	JL3805	Checking for Broken Chain	How blocks are added into the chain, what a blockchain is made of, Blockchain Validators	Yes	Yes	Priyanka	https://www.solulab.com/how-blockchain-verification-work/
7	JL3806	Hacking the Chain	Hashing and It's integrity,check for the broken chain	Yes	Yes	Bindu	https://www.theverge.com/22654785/blockchain-explained-cryptocurrency-what-is-stake-nft
8	JL3807	Nonce And Proof Of Work	Security in Blockchain, POW Vs POS	Yes	Yes	Bindu	https://www.investopedia.com/articles/investing/032615/can-bitcoin-be-hacked.asp
9	JL3808	Implementing Proof of work	Concepts of nonce and proof of work, implement an example that demonstrates the difficulty of the math problem that helps protect the blockchain from potential attackers.	Yes	Yes	Priyanka	https://www.investopedia.com/terms/p/proof-work.asp
10	JL3809	Review the concept of POW and understand the concept of chainwork and its security.	Review the concept of POW and understand the concept of chainwork and its security.	Yes	Yes	Priyanka	https://cointelegraph.com/explained/proof-of-work-explained
11	JL3810	Walkthrough the concepts that has been done through out the whole course, review few keyterms before closing	Walkthrough the concepts that has been done through out the whole course, review few keyterms before closing	Yes	Yes	Priyanka	https://www.lsewayhertz.com/10-use-cases-of-blockchain-in-finance/