Introduction to Bitcoin

Course Schedule

March 18, 2018

Venue: Jalvihar Guest House Seminar Hall, IIT Bombay

Time	Topic
0900 - 0930	Registration
0930 - 1000 1000 - 1125	Tea and Networking
1000 - 1125	Challenges in decentralized digital currencies
	The double spending problem
	Bitcoin's blockchain
	SHA-256 hash function
	Bitcoin mining
1125 - 1140	Tea break
1140 - 1300	Mining difficulty adjustment
	Bitcoin supply regulation
	Tamper resistance of the blockchain
	Bitcoin transaction formats
	Bitcoin's scripting language
	Pay to Public Key Transaction
1300 - 1400	Lunch break
1400 - 1530	Elliptic curves over real numbers
	Prime fields
	Elliptic curves over prime fields
	Bitcoin's elliptic curve
	 Private and public keys in Bitcoin
	Key creation demo
	Bitcoin addresses
	Base58 encoding
1530 - 1535	Break
1535 - 1630	Pay to Public Key Hash (P2PKH) Address
	P2PKH script execution
	Multisig script
	Pay to Script Hash (P2SH) Address
	P2SH Multisig script execution
	Smart contracts
	Escrow contract
	Micropayments contract
1630 - 1700	Tea/Snacks and Networking