

## Lesson Plan

**Name of Faculty : Anil Kumar**

**Discipline : I&C**

**Semester : 3rd sem**

**Subject : Open Elective(Digital marketing-Blockchain)**

**Work Load (lecture/practical)per week (in hours) : Lectures- 02**

1st	1st	Introduction: Overview of Block chain
	2nd	History of Blockchain
2nd	3rd	Peer to Peer Network, Smart Contract
	4th	Wallet , Digital Currency
3rd	5th	Ledgers, Types of Blockchain Platfrom
	6th	Unit-2:-Consensus Mechanism
4th	7th	Permissioned Blockchain, Permissionless Blockchain ,
	8th	Different Consensus Mechanism- Proof of Work
5th	9th	Proof of Stake, Proof of ActivityProof of Burn, Proof of Elapsed Time
	10th	Proof of Authority, Proof of Importance
6th	11th	Unit-3:-Crypto currency and Wallet,Types of Wallet
	12th	Desktop Wallet, App based Wallet
7th	13th	Browser based wallet
	14th	Metamask, Creating a account in Metamask
8th	15th	Use of faucet to fund wallet
	16th	transfer of cryptocurrency in metamask.
9th	17th	Unit-4:- Smart contract and Ethereum
	18th	Overview of Ethereum, Writing Smart Contract in Solidity,
	19th	Remix IDE , Different networks of ethereum,
	20th	understanding blocks practically at blockhcaain.com, how to compile

10th		and deploy smart contract in remix.
	21th	Unit-5:-Understanding Hyperledger Fabric
11th	22th	Overview of Open source Hyperledger project
	23th	Hyperledger Fabric- Architecture, Identities and Policies
12th	24th	Membership and Access Control, Channels
	25th	Transaction Validation, Writing smart contract using Hyperledger Fabric.
13th	26th	Unit-6:-Use cases
	27th	Enterprise application of Block chain: Cross border payments,
14th	28th	Know Your Customer (KYC), Food Security, Block chain enabled Trade,
	29th	We Trade – Trade Finance Network, Supply Chain Financing, Identity on Block chain, Blockchain in energy sector, Blockchain in governance
15th	30th	Revision

