

Lesson Plan

Name of the Faculty : Ravinder Kumar
Discipline : ECE.
Semester : 5th
Subject : Computer Network
Lesson Plan Duration : From 01 Sept. 2023 to 15 Dec. 2023
Work Load (Lecture / Practical) per week (in hours): Lectures-04

Week	Theory	
	Lecture day	Topic (including assignment / test)
1 st	1	Introduction about the subject
	2	Networks Basics
	3	Concept of network- Models of network computing
	4	Networking models- Peer-to –peer Network
2 nd	5	Server Client Network - Network Services
	6	Revision
	7	Types of Computer Networks
	8	Concept of switching - Switching Techniques
3 rd	9	Switching Techniques
	10	Revision
	11	Network standards, OSI Reference Model
	12	OSI Physical layer
4 th	13	Data-link Layers & Network Layer concepts
	14	Revision
	15	Transport Layer concepts & OSI Session Layer
	16	OSI presentation Layer concepts & Application layer concepts
5 th	17	1 st sessional Exam
	18	Introduction to TCP/IP
	19	Concept of addressing- physical addressing
	20	IPV4 address space, Notations

Week	Theory	
	Lecture day	Topic (including assignment / test)
6 th	21	Classful Addressing, Special Addressing
	22	Sub netting and super netting
	23	Loop back concept
7 th	24	Network Address Translation
	25	Revision
	26	IP packet Format- IPV4, IPV 6
	27	Types of Cables
8 th	28	Type of communication Signals
	29	Wired LANs: Ethernet
	30	Ethernet Specification and Standardization:
	31	10 Mbps (Traditional Ethernet), 100 Mbps (Fast Ethernet)
9 th	32	1000 Mbps (Gigabit Ethernet), Leased lines
	33	Uses of RJ45, RJ11, BNC, SCST Connectors
	34	2 nd sessional Exam
	35	Network connectivity Devices
10 th	36	NICs
	37	Hubs
	38	Repeaters, switches
	39	Routers
11 th	40	Configuration of Routers and Switches
	41	Client/server Technology
	42	Server Management
	43	Raid management and mirroring
12 th	44	Cryptography
	45	Ethical Hacking
	46	Wireless LAN, MAN Networking
	47	Wi-Fi
13 th	48	WiMax (Broadband Wireless)
	49	Li-Fi
	50	3 rd sessional Exam