Lesson Plan

Name of Faculty	:	**Sonam Bajaj, Assistant Professor of CSE**
Discipline	:	**Computer Science and Engineering**
Semester	:	**4th (EVEN)**
Subject	:	**Computer Network (CSE-206-T)**
Lesson Plan Duration	:	**15 weeks (from March to June2023)**

Work Load (Lecture/Practical) per week (in hours): Lectures-03hours.

Week	Theory		Topic Covered Date and Remarks		
	Lecture Day	Topic (Including Assignment/Test)	Date	HOD	Director-Principal
1st	1	Data Transmission Component, Data Representation & Data Flow			
	2	Network Topologies, Network Services, Network Categories: LAN,WAN,MAN			
	3	OSI, TCP/IP Reference model			
2nd	4	Switching Techniques: Packet, Message, Circuit.			
	5	Networking Devices: HUB, Repeater, Bridge			
	6	Modem, Switch, Router & Gateway.			
3rd	7	Data link Layer design issue.			
	8	Framing & error handling, Flow control protocol: stop & wait			
	9	Framing protocol, error detection & correction protocol.			
4th	10	**Assignment 1st**			
	11	Sliding window protocol			
	12	Go back N, Selective repeat.			
5th	13	Random access Aloha, MAC Sublayer, channel allocation method.			
	14	Slotted Aloha			
	15	CSMA, CSMA-CD			
6th	16	LAN Standards: Ethernet Fast Ethernet explanation.			
	17	Layered protocol architecture of Fast Ethernet			
	18	Gigabit Ethernet, Layered Protocol Architecture of Gigabit Ethernet			
7th		**1st Minor Test**			
8th	19	Store & Packet Forwarding Switching.			
	20	Connection less, Connection oriented services.			
	21	Routing Algorithms like- shortest path, flooding.			
9th	22	Distance Vector routing, count to infinity problem.			
	23	Hierarchical & congestion control protocol.			
	24	Overview of IPV4, Frame Format of IPV4.			
10th	25	**Assignment 2nd**			
	26	Layered Protocol Architecture of IPV4.IP Addressing of IPV4.			
	27	IP Classes. Overview of IPV6			
11th	28	Frame Format of IPV6.			
	29	Layered Protocol Architecture of IPV6.			
	30	IP Addressing of IPV6 & CIDR. Introduction of ARP,RARP			
12th	31	Explanation of ICMP, IRP Protocols.			
	32	UDP Protocols Overview, UDP Protocol Architecture.			
	33	Flow Control & Error Control of Transport Layer.			
13th	34	Addressing & Multiplexing in Transport Layer.			
	35	TCP Protocol Overview, TCP Protocol Architecture TCP Connection Management.			
	36	Overview of Domain Name System.			
14th		**2nd Minor Test**			
15th	37	Overview of Electronics Mail.			
	38	Application of E-Mail.			
	39	FTP, TELNET, HTTP, SMTP.			