



LESSON PLAN

Department: CSE		Semester: 4 th , Name of Faculty: MISS KHIPTITA MUKHI
Subject: Computer Networks (CN) (TH:3)	No. of days/ week Class allotted: 3	Effective From Date: 22.12.2025 to 18.04.2026
		No. Of Week-15
		Topic to be Covered:
Week	Class Day	Theory
1 st	1st	UNIT 1: Introduction 1.1 Introduction to computer networks
	2nd	1.2 Network Models
	3rd	1.2 Network Models
2 nd	1st	1.3 OSI Reference Model
	2nd	1.3.1 The OSI layer architecture
	3rd	1.4 4Layer of TCP/IP suite
3 rd	1st	1.4 4Layer of TCP/IP suite
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	UNIT 2: Physical Layer 2.1 Transmission Media–Principles and issues
4 th	1st	2.2 Wired Media–Coaxial, UTP, STP, Fiber Optic
	2nd	2.3 Cables -Single Mode & Multimode
	3rd	2.4 Wireless Media–HF, VHF, UHF, Microwave, Ku Band, WIFI 802.11 a/b/g/n/ac
5 th	1st	2.5 CellularData–2G,3G,4G,&5G
	2nd	2.6 Network topologies
	3rd	2.6 Network topologies
6 th	1st	1. Doubt Clearing class 2. Quiz test 3. Assignment
	2nd	UNIT 3: Data Link Layer 3.1 Design issues
	3rd	3.2 DLL protocols (Ethernet, WLAN, Bluetooth)
7 th	1st	3.2 DLL protocols (Ethernet, WLAN, Bluetooth)
	2nd	3.3 Switching Techniques, VLAN
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
8 th	1st	UNIT 4: Network Layer 4.1 Design issues

	2nd	4.2 Internet Protocols (IPv4& IPv6)
	3rd	4.2 Internet Protocols (IPv4& IPv6)
9th	1st	4.3 Routing–principles and issues
	2nd	4.4 Routing Algorithms: Distance-vector, Link-state
	3rd	4.4 Routing Algorithms: Distance-vector, Link-state
10th	1st	4.5 Routing Protocols: RIP, OSPF
	2nd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	3rd	UNIT 5: Transport Layer 5.1 Design issues
	1st	5.2 UDP&TCP
11th	2nd	5.2 UDP&TCP
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment
	1st	UNIT 6: Application Layer 6.1 Design Issues
12th	2nd	6.2 DNS, DHCP, SNMP
	3rd	6.2 DNS, DHCP, SNMP
	1st	6.3 FTP & TFTP
13th	2nd	6.4 SMTP, WWW
	3rd	6.5 Telnet & SSH
	1st	1. Doubt Clearing class 2. Quiz test 3. Assignment
14th	2nd	UNIT 7: Network Devices 7.1 NIC, Hub, Router
	3rd	7.2 Switch-Core, Distribution & Access Switches
	1st	7.3.1 WiFi Access-Point
15th	2nd	7.3.2 Wireless LAN Controller
	3rd	1. Doubt Clearing class 2. Quiz test 3. Assignment

Kshitita Mukhi

Signature of Faculty

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22/12/25
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