

GOVERNMENT GIRLS POLYTECHNIC BILASPUR

DEPARTMENT OF COMPUTER SCIENCE

LESSON PLAN

Session : Jan-June 2025

Session start date as per University Calendar-20/01/2025

Course Name : COMPUTER NETWORK Course Code : 2033472(033)

Name of Subject teacher : ASHA MIRI

Lecture plus Tutorial/Week : 3

LESSON PLAN		
SESSION : Jan-June 2025		
Discipline : CSE		Semester : 4th
Course Outcomes.	Topics/Subtopics to be covered under this unit	No. of periods planned
CO-1 Explain basics of Computer Networking	Definition and history of networks.	1
	Application of computer networks.	1
	Standard Organization and protocols.	1
	Line Configurations Point to Point Connection Multipoint Connection	1
	Network Topology Bus Topology Ring Topology Star Topology Mesh Topology Hybrid Topology	1
	Categories of Networks 1) Based on physical scope a) LAN b) MAN c) WAN	2
	2) Based on connection a) Connection oriented b) Connection less	1
	Assignment Given Date-	
CO-2 Describe Reference models of computer network with its function in each layer.	OSI models and its main function, feature of each layer Physical Layer Data Link Layer Network Layer Transport Layer Session Layer Presentation Layer Application Layer	2
	TCP/IP models and its main function, feature and protocol of each layers Physical Layer Network Layer Transport Layer Application Layer	2
	Compare OSI and TCP/IP models	1

Assignment Given Date-			
CO-3 Prepare different type of Transmission mediator data communication.	Basic Concept- Communication channels characteristics Band Width Attenuation Bit rate and Baud rate	2	
	Types of transmission media 1) Guided media a) Twisted pair b) Coaxial cable c) Optical Fiber	2	
	2) Unguided media a) Electromagnetic spectrum b) Radio Transmission c) Microwave Transmission d) Infrared Transmission e) Setellite Communication	2	
	Mode of Communication 1) Simplex 2) Half Duplex 3) Full Duplex	1	
Assignment Given Date-			
CO-4 install various communication devices of networking for data communication.	Network Communication Devices 1) Repeater 2) Hub 3) Switch	2	
	4) Router 5) Bridge 6) Access Point	2	
	7) Gateway 8) RS 232 9) RJ 45 and RJ 11	2	
	10) NIC 11) Bluetooth Wifi IEEE 802.11	2	
	Assignment Given Date-		
	CO-5 Establish Subnet, IPv4 and Ipv6 in computer networks and different protocols.	IP Protocol- IPv4 and IPv6	1
Addressing Schemes		2	
Subnet and Sub masking			
DNS Email		1	
FTP HTTP			
TCP and UDP NETBIOS Protocol			
ARP and RARP ICMP SMTP			
Assignment Given Date-		33	
Total Class			

Class room Instruction End date:-

Subject Teacher : Asha Miri