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 LAB   Course Code : 2033462(033)

Name of Subject teacher : ASHA MIRI

Lecture plus Tutorial/Week : 3

SESSION:Jan-June 2025					
Discipline : CSE	Semester : 4th		Class room Instruction Start Date :- 10/02/2025		
S.No.	Topics/Subtopics to be covered under this unit	No. of periods planned	Actual no. of period taken	Date of class conduction	Remarks if any
1	Demonstrate the topology used with the computer network.	4	04	10/02/25 17/02/25	
2	Prepare and testing a straight UTP cable for data transfer.	2	02	18/02/25	
3	Prepare and testing a cross UTP cable for data transfer.	2	02	24/02/25	
4	Perform different types of mode of communications	2	02	25/02/25	
5	Prepare a layout demonstrating data transfer aspects as per OSI model between computing devices.	2	04	24/03/25 15/04/25	
6	Install, configure and Testing of Repeaters for networking.	2	02	21/04/25	
7	Explain different types of transmission media.	2	02	22/04/25	

8	Install, configure and Testing of Router for networking.	4	04	28/04/25 29/04/25	
9	Install, configure and Testing of Gateway for networking.	4	04	05/05/25 06/05/25	
10	Install and configure a network adapter of a computer system.	4	04	19/05/25 20/05/25	
	Total Period	28	30		

Class room Instruction End date:- 20/05/2025

Subject Teacher : Asha Miri

Amiri

(Name and signature)

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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**		**Class room Instruction Start Date : 03/02/25**		
Course Outcomes.	**Topics/Subtopics to be covered under this unit**	**No. of periods planned**	**Actual no. of period taken**	**Date of class conduction**	**Use of AV resources**
CO-1 **Explain basics of Computer Networking**	Definition and history of networks.	1	01	03/02/25	
	Appliction of computer networks.				
	Standard Organization and protocols.	1	01	04/02/25	
	Line Configurations Point to Point Connection Multipoint Connection	1	01	05/02/25	
	Network Topology Bus Topology Ring Topology Star Topology Mesh Topology Hybrid Topology	1	02	07/02/25 08/02/25	
	Categories of Networks 1) Based on physical scope a)LAN b)MAN c)WAN	2	02	10/02/25 14/02/25	
	2) Based on connection a) Connection oriented b) Connection less	1	01	15/02/25	

Assignment Given Date- 15/02/2025

CO-2 **Describe Refrence models of computer network with its function in each layer.**	OSI modals and its main function, feature of each layer Physical Layer Data Link Layer Network Layer Transport Layer Session Layer Presentation Layer Application Layer	2	03	17/02/25 18/02/25 24/02/25	
	TCP/IP models and its main function, feature and protocol of each layers Physical Layer Network Layer Transport Layer Application Layer	2	02	25/02/25 28/02/25	
	Compare OSI and TCP/IP models	1	01	10/03/25	

<div align="center">Assignment Given Date- 10/03/2025</div>

CO-3 **Prepare different type of Transmission mediator data communication.**	Basic Concept- Communication channels characteristics Band Width Attenuation Bit rate and Baud rate	2	02	22/03/25 24/03/25	
	Types of transmission media 1) Guided media a)Twisted pair b) Coaxial cable c) Optical Fiber	2	02	28/03/25 11/04/25	
	2) Unguided media a) Electromagnetic spectrum b) Radio Transmission c) Microwave Transmission d) Infrared Transmission e) Setellite Communication	2	03	15/04/25 21/04/25 22/04/25	
	Mode of Communication 1) Simplex 2) Half Duplex 3) Full Duplex	1	01	25/04/25	

<div align="center">Assignment Given Date- 25/04/2025</div>

CO-4 **install various communication devices of networking for data communication.**	Network Communication Devices 1) Repeater 2) Hub 3) Switch	2	02	28/04/25 29/04/25	
	4) Router 5) Bridge 6)Access Point	2	02	02/05/25	
	7) Gateway 8) RS 232 9) RJ 45 and RJ 11 10) NIC	2	02	05/05/25 06/05/25	
	11) Bluetooth Wifi IEEE 802.11	2	02	06/05/25 07/05/25	

		Assignment Given Date- 07/05/2025			
CO-5 Establish Subnet,IPv4 and Ipv6 in computer networks and different protocols.	IP Protocol- IPv4 and IPv6	1	01	09 05 25	
	Addressing Schemes	2	02	09 05 25	
	Subnet and Sub masking			10/05/25	
	DNS	1	02	19/05/25	
	Email				
	FTP				
	HTTP				
	TCP and UDP				
	NETBIOS Protocol	2	02	20/05/25	
	ARP and RARP				
	ICMP				
	SMTP				
	Assignment Given Date- 20/05/2025				
Total Class		33	37		

Class room Instruction End date:- 20/05/2025
Subject Teacher : Asha Miri

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