Department of Electronics & Communication Engineering

Lesson Plan & Work-done Diary for AY:2025-26 (ODD Semester)

Course with Code: Computer Networks and Protocols_BEC702				**Faculty:**			**Semester & Section:** 7th	
Class No.	**Date planned (DD/MM)**	**Topics Covered**	**TLP Planned**	**Class No.**	**Date of Conduction (DD/MM)**	**Topics Covered**	**TLP Executed**	**Remarks if any deviation**
MODULE-0								
1	4/8	Bridge Course	Chalk and Talk			Bridge Course		
2	5/8	Bridge Course	PPT			Bridge Course		
3	7/8	Bridge Course	PPT			Bridge Course		
Module-1								
4		Introduction: Data communication: Components, Data representation, Data flow, Networks: Network criteria, Physical Structures	PPT			Introduction: Data communication: Components, Data representation, Data flow, Networks: Network criteria, Physical Structures		
5		Network types: LAN, WAN, Switching, The Internet	PPT			Network types: LAN, WAN, Switching, The Internet		
6		Logical Connections, TCP/IP Protocol Suite: Layered Architecture,	PPT			Logical Connections, TCP/IP Protocol Suite: Layered Architecture,		
7		Layers in TCP/IP suite Description of layers,	PPT			Layers in TCP/IP suite Description of layers,		
8		Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing, The OSI Model: OSI Versus TCP/IP	PPT			Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing, The OSI Model: OSI Versus TCP/IP		
9		Data-Link Layer: Introduction: Nodes and Links, Services	PPT			Data-Link Layer: Introduction: Nodes and Links, Services		
10		Two Categories' of link, Sublayers, Link Layer addressing: Types of Addresses, ARP	PPT			Two Categories' of link, Sublayers, Link Layer addressing: Types of Addresses, ARP		

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MODULE-2								
11		Data Link Control (DLC) services: Framing, Flow and Error Control	PPT			Data Link Control (DLC) services: Framing, Flow and Error Control		
12		Data Link Layer Protocols: Simple Protocol, Stop and Wait protocol, Piggybacking	PPT			Data Link Layer Protocols: Simple Protocol, Stop and Wait protocol, Piggybacking		
13		Media Access Control: Random Access: ALOHA, CSMA	PPT			Media Access Control: Random Access: ALOHA, CSMA		
14		CSMA/CD, CSMA/CA	PPT			CSMA/CD, CSMA/CA		
15		Wired and Wireless LANs: Ethernet Protocol, Standard Ethernet	PPT			Wired and Wireless LANs: Ethernet Protocol, Standard Ethernet		
16		Introduction to wireless LAN: Architectural Comparison, Characteristics, Access Control	PPT			Introduction to wireless LAN: Architectural Comparison, Characteristics, Access Control		

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MODULE-3								
19		Network Layer: Introduction, Network Layer services: Packetizing, Routing and Forwarding	PPT			Network Layer: Introduction, Network Layer services: Packetizing, Routing and Forwarding		
20		Other services, Packet Switching: Datagram Approach, Virtual Circuit Approach	PPT			Other services, Packet Switching: Datagram Approach, Virtual Circuit Approach		
21		IPV4 Addresses: Address Space, Classful Addressing, Classless Addressing	PPT			IPV4 Addresses: Address Space, Classful Addressing, Classless Addressing		
22		DHCP, Network Address Resolution, Forwarding of IP Packets: Based on destination Address and Label	PPT			DHCP, Network Address Resolution, Forwarding of IP Packets: Based on destination Address and Label		
23		Network Layer Protocols: Internet Protocol (IP): Datagram Format, Fragmentation	PPT			Network Layer Protocols: Internet Protocol (IP): Datagram Format, Fragmentation		
24		Options, Security of IPv4 Datagrams	PPT			Options, Security of IPv4 Datagrams		
25		Unicast Routing: Introduction, Routing Algorithms: Distance Vector Routing	PPT			Unicast Routing: Introduction, Routing Algorithms: Distance Vector Routing		
26		Link State Routing, Path vector routing	PPT			Link State Routing, Path vector routing		

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MODULE-4								
27		Transport Layer: Introduction: Transport Layer Services, Connectionless and Connection oriented Protocols	PPT			Transport Layer: Introduction: Transport Layer Services, Connectionless and Connection oriented Protocols		
28		Transport Layer Protocols: Simple protocol, Stop and wait protocol	PPT			Transport Layer Protocols: Simple protocol, Stop and wait protocol		
29		Go-Back-N Protocol, Selective repeat protocol	PPT			Go-Back-N Protocol, Selective repeat protocol		
30		Windows in TCP, Flow control, Error control, TCP congestion control	PPT			Windows in TCP, Flow control, Error control, TCP congestion control		
31		UDP Services, UDP Applications	PPT			UDP Services, UDP Applications		
32		Transmission Control Protocol: TCP Services, TCP Features	PPT			Transmission Control Protocol: TCP Services, TCP Features		
33		Segment, Connection, State Transition diagram	PPT			Segment, Connection, State Transition diagram		
34		Windows in TCP, Flow control, Error control, TCP congestion control	PPT			Windows in TCP, Flow control, Error control, TCP congestion control		

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MODULE-5								
35		Application Layer: Introduction: providing services, Application- layer paradigms	PPT			Application Layer: Introduction: providing services, Application- layer paradigms		
36		Standard Client –Server Protocols: World wide web, Hyper Text Transfer Protocol	PPT			Standard Client –Server Protocols: World wide web, Hyper Text Transfer Protocol		
37		FTP: Two connections, Control Connection, Data Connection	PPT			FTP: Two connections, Control Connection, Data Connection		
38		Electronic Mail: Architecture, Wed Based Mail	PPT			Electronic Mail: Architecture, Wed Based Mail		
39		Telnet: Local versus remote logging	PPT			Telnet: Local versus remote logging		
40		Domain Name system: Name space, DNS in internet	PPT			Domain Name system: Name space, DNS in internet		
41		Resolution, DNS Messages, Registrars	PPT			Resolution, DNS Messages, Registrars		
42		DDNS, security of DNS, QoS	PPT			DDNS, security of DNS, QoS		

	Activity	Planned	Actual	Remarks
1	Theory Classes	50		NIL
2	Assignments/ Quizzes/ Self-study			NIL
3	Tutorials/ Extra classes			NIL
4	Internal Assessments			NIL
5	ICT based Teaching (% of usage in Curriculum)			NIL
Planning			**Execution**	
Faculty Signature:			**Faculty Signature:**	
HoD Signature:			**HoD Signature:**	