



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Lesson Plan & Work-done Diary for AY:2026-27 (ODD Semester)

Course with Code: Computer Networks and Protocols_BEC702				Faculty:			Semester & Section: 7 th A & B	
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		Bridge Course	PPT					
2		Bridge Course	PPT					
3		Bridge Course	PPT					
Module-1								
4		Introduction: Data communication: Components, Data representation, Data flow, Networks: Network criteria, Physical Structures	PPT					
5		Network types: LAN, WAN, Switching, The Internet	PPT					
6		Logical Connections, TCP/IP Protocol Suite: Layered Architecture,	PPT					
7		Layers in TCP/IP suite Description of layers,	PPT					
8		Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing, The OSI Model: OSI Versus TCP/IP	PPT					
9		Data-Link Layer: Introduction: Nodes and Links, Services	PPT					
10		Two Categories' of link, Sublayers, Link Layer addressing: Types of Addresses, ARP & Quiz	PPT & MS Form					



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



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



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



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MODULE-5								
33		Application Layer: Introduction: providing services, Application- layer paradigms	PPT					
34		Standard Client –Server Protocols: World wide web, Hyper Text Transfer Protocol	PPT					
35		FTP: Two connections, Control Connection, Data Connection	PPT					
36		Electronic Mail: Architecture, Web Based Mail, Telnet	PPT					
37		Domain Name system: Name space, DNS in internet	PPT					
38		Resolution, DNS Messages, Registrars	PPT					
39		DDNS, security of DNS, QoS	PPT					
40		Revision Quiz from 3, 4 & 5	MS Forms					



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	Activity	Planned	Actual	Remarks
1	Theory Classes	41		
2	Assignments/ Quizzes/ Self-study	2/5/1		
3	Tutorials/ Extra classes	-		
4	Internal Assessments	3		
5	ICT based Teaching (% of usage in Curriculum)	100		
Planning			Execution	
Faculty Signature:			Faculty Signature:	
HoD Signature:			HoD Signature:	