

# LESSON PLAN

Contact Hour (Cumulative)	Unit No.	Topic	Teaching(*) Methodology	Remark
		Unit - I		
24/7/24 3(1)	✓	Introduction: Network	Chalk & Talk	
4(2)		Hardware, Network	Chalk & Talk	
4(3)		Software,	chalk & Talk	
5(4)		Reference Model:	PPT	
1(5)		OSI Reference Model,	chalk & Talk	
3(6)		TCP/IP Reference Model	G.D Chalk	
4(7)		Comparison between	Chalk & Talk	
4(8)		OSI and TCP/IP Models	Chalk & Talk	
5(9)		Example Networks: The	Chalk & Talk	
3(10)		The ARPANET, Internet	Chalk & Talk	
4(11)		Addressing: Physical	Chalk & Talk	
4(12)		Address, logical Address,	Chalk & Talk	
5(13)		Port Address, specific	Chalk & Talk	
1(14)		Address.	Chalk & Talk	
3(15)		Unit - II		
4(16)	✓	Data link layer: Data	Chalk & Talk	
4(17)		link layer, Design Issues	Chalk & Talk	
5(18)		Services Provided to	PPT	
1(19)		Network layer, Framing	PPT	



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3 (20)		Error control and flow control	Chalk & Talk	
4 (21)		Error detection and correction: Error	Chalk & Talk	
4 (22)		Correcting Codes, Error Detecting Codes,	PPT	
5 (23)		Elementary Data Link protocols	PPT	
1 (24)		Sliding window protocols one bit Sliding window	Chalk & Talk	
3 (25)		Protocol, Protocol using Go Back N and	Chalk & Talk	
4 (26)		Selective Repeat. The Medium Access Control	Chalk & Talk	
4 (27)		Sub layer channel Allocation Problem	Chalk & Talk	
5 (28)		Static Channel Allocation Dynamic channel	PPT	
1 (29)		Allocation, Multiple Access Protocol. ALOHA,	PPT	
3 (30)		Carrier sense Multiple Access Protocol, collision	Chalk & Talk	
4 (31)		free protocols, Limited Contention Protocol.	Chalk & Talk	
4 (32)	9/11	Unit - II	8/31	
5 (33)		The network layer: Network layer Design	Chalk & Talk	
1 (34)		Issues, implementation of connection less service	Chalk & Talk	
3 (35)		Implementation of Connection oriented services	Chalk & Talk	
4 (36)		Routing Algorithms: Shortest Path Routing,	Chalk & Talk	
4 (37)		Flooding, Distance vector Routing, Link State routing	Chalk & Talk	
5 (38)		Hierarchical Routing, Broadcast Routing,	Chalk & Talk	
1 (39)		Multicast Routing, Congestion Control Algorithms.	Chalk & Talk	



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3 (40)		General Principles of Congestion Control	Chalk & Talk	
4 (41)		Congestion Prevention Policies, Protocols - The	Chalk & Talk	
4 (42)		IP Protocol, IP Address	Chalk & Talk	
5 (43)		IPv4, IPv6, Utilization of Cisco Packet Tracer (CPT) Tool	PPT	
1 (44)	<u>IV</u>	<u>Unit - IV</u>		
3 (45)		The Transport Layer	Chalk & Talk	
4 (46)		Functions and characteristics of Transport Protocols	Chalk & Talk	
4 (47)		Services provided to Upper Layer, Elements of Transport protocols	Chalk & Talk	
5 (48)		Addressing, Connection Establishment, Connection Release, The Internet Transport protocols, UDP	PPT	
1 (49)		and UDP Segment, TCP Protocol, TCP Segment Header	Chalk & Talk	
3 (50)		TCP connection establishment, TCP connection Release, Protocols: PTP-	Chalk & Talk	
4 (51)			Chalk & Talk	
4 (52)			Chalk & Talk	
5 (53)			Chalk & Talk	
1 (54)	<u>V</u>	<u>Unit - V</u>		
3 (55)		The Application Layer	Chalk & Talk	
4 (56)		Services of Application layer, Architecture, DNS - Domain Name System, Electronic Mail	Chalk & Talk	
4 (57)		Architecture and Services The user agent	Chalk & Talk	
5 (58)		Message Format, Message Transfer,	Chalk & Talk	
1 (59)		The World Wide Web	Chalk & Talk	



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