

TH-2 DATA COMMUNICATION & COMPUTER NETWORK (4th Sem)NAME OF THE FACULTY- **SIDHARTH KUMAR SETHI**

MONTH	MODULE/UNIT	COURSE TO BE COVERED	TOTAL NO. OF CLASS	REMARK
January	UNIT-1	Network & Protocol	08	
		1.1 Data Communication	03	
		1.2 Networks	02	
		1.3 Protocol & Architecture, Standards, OSI, TCP/IP	03	
February	UNIT-2	Data Transmission & Media	08	
		2.1 Data transmission Concepts and Terminology	03	
		2.2 Analog and Digital Data transmission	02	
		2.3 Transmission impairments, Channel capacity	03	
February	UNIT-3	Data Encoding	08	
		3.1 Data encoding,	02	
		3.2 Digital data digital signals,	02	
		3.3 Digital data analog signals	02	
		3.4 Analog data digital signals	01	
		3.5 Analog data analog signals	01	
March	UNIT-4	Data Communication & Data link control	08	
		4.1 Asynchronous and Synchronous Transmission	01	
		4.1 Error Detection	01	
		4.3 Line configuration	01	
		4.4 Flow Control,	01	
		4.5 Error Control	01	
		4.6 Multiplexing	01	
		4.7 FDM synchronous TDM	01	
		4.8 Statistical TDM	01	
MARCH	UNIT-5	Switching & Routing	10	

		5.1 Circuit Switching networks	02	
		5.2 Packet Switching principles	01	
		5.3 X.25	01	
		5.4 Routing in Packet switching	01	
		5.5 Congestion	01	
		5.6 Effects of congestion, congestion control	01	
		5.7 Traffic Management	01	
		5.8 Congestion Control in Packet Switching Network.	02	
APRIL	UNIT-6	LAN Technology	10	
		6.1. Topology and Transmission Media	02	
		6.2 LAN protocol architecture	02	
		6.3. Medium Access control	02	
		6.4 Bridges, Hub, Switch	01	
		6.5 Ethernet (CSMA/CD), Fiber Channel	01	
		6.6 Wireless LAN Technology..	02	
APRIL	UNIT-7	TCP/IP	08	
		7.1 TCP/IP Protocol Suite	02	
		7.2 Basic Protocol functions	02	
		7.3 Principles of Internetworking	02	
		7.3 Internet Protocol operations	01	
		7.4 Internet Protocol	01	

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