

Dicipline:	CSE	Semester: 7th	Name of the Teaching Faculty: Harapriya Raut	
Subject:	DCEN	No of Days/Week Class Allotted: 4	Semester From date: 13.2.23 To date: 28.5.23	No. of Weeks: 13
WEEK	Class Day	Theory Topics		
1	1st	Networking		
	2nd	Internet, intranet, modem, IP address		
	3rd	Architecture of computer network		
	4th	Protocols, OSI model introduction		
	5th			
2	1st	Application and presentation layer of OSI model.		
	2nd	Session and transport layer of OSI model.		
	3rd	Network, Data link and physical layer		
	4th	TCP (Transmission control protocol)		
	5th			
3	1st	IP (Internet protocol)		
	2nd	Data transmission concepts Parallel transmission		
	3rd	Serial Transmission Synchronous transmission		
	4th	Asynchronous transmission		
	5th			

WEEK	Class Day	Theory Topics
4	1st	Digital Data transmission
	2nd	Analog Data transmission
	3rd	Transmission Impairment in data communication.
	4th	Causes of impairment (Attenuation, Distortion, Noise)
	5th	Channel capacity
5	1st	channel capacity
	2nd	Types of transmission media, Guided media
	3rd	Twisted pair cable unshielded Twisted pair
	4th	Shielded Twisted pair, Coaxial cable, optical fibre cable
	5th	
6	1st	Data Encoding, Digital Data to digital signal
	2nd	Digital data to Analog signal
	3rd	Analog data to digital signal
	4th	Analog data to analog signal
	5th	

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WEEK	Class Day	Theory Topics		
7	1st	Synchronous data Asynchronous transmission.		
	2nd	Error Detection, simple parity check, checks sum		
	3rd	Two-dimensional parity check eyeie redudang		
	4th	Line configuration, flow control and error control		
	5th			
8	1st	Multiplexing, frequency division multiplexing		
	2nd	wavelength division multiplexing TDM		
	3rd	Synchronous TDM Asynchronous TDM		
	4th	Circuit switching network		
	5th			
9	1st	Connection-oriented packet switching connectionless packet switching		
	2nd	y.25, Routing ID packet switching		
	3rd	congestion, effects of congestion, congestion control.		
	4th	Traffic management in computer network		
	5th			

WEEK	Class Day	Theory Topics
10	1st	Congestion control in packet switching network
	2nd	Topology, Bus, Star, Ring
	3rd	Mesh, Tree Topology Transmission media.
	4th	LAN Protocol Architecture.
	5th	
11	1st	Medium Access Control (MAC)
	2nd	Bridges, Hub, switches
	3rd	Ethernet (CSMA/CD), fiber channel
	4th	wireless LAN Techno: (CSMA/CD)
	5th	
12	1st	TCP/IP Protocol suite Internet layer explanation.
	2nd	Difference bet ⁿ TCP and UDP.
	3rd	Basic Protocol functions.
	4th	Principles of internet working, moderns
	5th	

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WEEK	Class Day	Theory Topics		
13	1st	Internet Protocol, it's operations.		
	2nd	Internet protocol classifications		
	3rd	MCA - discussion on Tcp/IP		
	4th	Ip Ny and it's classes		
	5th			
	1st			
	2nd			
	3rd			
	4th			
	5th			
	1st			
	2nd			
	3rd			
	4th			
	5th			


