

CSE	Semester: 4th	Name of the Teaching Faculty Devismita Saha	
DCCN	No of Days/Week Class Allotted: _____	Semester From date: _____ To date _____	No. of Weeks: _____
Class Day	Theory Topics		
1st	Networking, computer Network.		
2nd	Internet and Intranet- Explanation		
3rd	Modem, Ip address		
4th	Architecture of computer Network		
5th	Network protocol. OSI Model Introduction.		
1st	Application layer of OSI Model. User interface.		
2nd	Presentation layer of OSI Model (Encryption)		
3rd	Session layer of OSI Model.		
4th	Transportation layer of OSI Model.		
5th	Network, Datalink and physical layer of OSI Model.		
1st	Transmission control protocol		
2nd	Internet protocol		
3rd	Data transmission concepts		
4th	Parallel transmission.		
5th	• Simplex, duplex & half-duplex		

Week	Class Day	Topic
	1st	Serial Transmission
	2nd	Synchronous data Transmission
	3rd	Asynchronous data Transmission
	4th	Digital Data Transmiss.
	5th	Difference bet ⁿ Synchronous & Asynchronous data transmission
1.	1st	Analog Data transmission
	2nd	Transmission Impairment-
	3rd	Causes of Transmission Impairment.
	4th	Attenuation and its effect.
	5th	Distortion and effect, Noise.
2.	1st	Channel capacity
	2nd	Types of transmission Media.
	3rd	Guided media basics.
	4th	Twisted Pair cable
	5th	Unshielded Twisted Pair cable Shielded Twisted Pair, coaxial, optic fiber

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WEEK	Class Day	Theory Topics		
03.	1st	Data encoding.		
6.	2nd	Digital data to digital signal.		
02	3rd	Digital data to Analogy signal		
	4th	- Analogy data to digital signal		
	5th	Analogy Data to analogy signal.		
	1st	Synchronous and Asynchronous TDM.		
	2nd	Error detection in computer network.		
	3rd	Simple parity check		
	4th	checksum, FCS		
	5th	Error detecting codes, Two-dimensional Line configuration parity check.		
	1st	Flow control and error control.		
	2nd	Multiplexing in computer Network.		
	3rd	Frequency Division Multiplexing		
	4th	Wavelength division multiplexing, TDM.		
	5th	Synchronous and Asynchronous TDM.		

Week	Class Day	
	1st	Circuit switching Networks
	2nd	connection-oriented packet switching,
	3rd	connection-less packet switching
	4th	X.25, Routing in packet switching
	5th	congestion, Effects of congestion, congestion control.
	1st	Topologies in computer network.
	2nd	Bus topology, star topology, Ring topology
	3rd	Mesh topology and Tree topology
	4th	Transmission Media (Simplex, half duplex, full duplex)
	5th	LAN protocol Architecture.
	1st	Medium Access Control (MAC)
	2nd	Bridges
	3rd	Switches in computer network
	4th	Hub.
	5th	Ethernet (CSMA/CD), Fibre channel.

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WEEK	Class Day	Theory Topics
6. 21	1st	wireless LAN Technology
	2nd	Tcp/IP protocol suite .
	3rd	Internet protocol layer explanation
	4th	Difference between Tcp and UDP.
	5th	Basic protocol functions .
9. 21	1st	principles of internetworking.
	2nd	Modems
	3rd	Internet protocol & its operations
	4th	MCQ discussion on TCP/IP
	5th	IPv4 and its classification .
1. 21	1st	
	2nd	
	3rd	
	4th	
	5th	