Academic Lesson Plan of Summer 2023

Department: ETC
Subject: DCCN

WEEK		DAY	TOPIC
	Semester:4th		Name of the Teaching Faculty: Nushrat Bari
	No. of days/per week class allotted. 4p/week		Semester from:14/02/2023
			No. of weeks:15
			Topics to be covered:
1st week		1st	Introduction to data communication, what is data, network communication channel
		2nd	Networks (LAN,MAN,WAN), concept of all protocol, architecture
		3rd	
		4th	Standard concepts, network standards
2nd week		1st	OSI layer
		2nd	Different layers of OSI ,advantages,disadvantages
		3rd	TCP/IP
		4th	Difference between OSI &TCP/IP
3rd week		1st	Concept of data transmission
		2nd	Terminology of data transmission
		3rd	Analog and digital data transmission
		4th	Transmission impairment
4th week		1st	Channel capacity
		2nd	Introduction of transmission media
		3rd	Guided,unguided
		4th	Wireless transmission
5th week		1st	Data encoding
		2nd	Digital data, Digital signals
		3rd	Digital signals
		4th	Digital data,Analog signals
6th week		1st	Analog data ,Digita signals
		2nd	Analog signal,Digital signals
		3rd	Analog data,Analog signals
		4th	Analog signals, Conversion
7th week		1st	Transmission,Syncronus,Asyncronus
		2nd	Flow control
		3rd	Error detection methods
		4th	line configuration
8th week		1st	Error control
		2nd	Multiplexing, Types of multiplexing
		3rd	Concept of EDM,TDM,WDM
		4th	Statistical TDM
9th week		1st	Introduce to switching
		2nd	CKT Switching
		3rd	PKT switching
		4th	X. 25
10th week		1st	Routing in PKT switching
		2nd	Congestion
		3rd	Effect of congestion
		4th	Congestion control
11th week		1st	Traffic management
		2nd	Congestion in pkt switching network
		3rd	Concept of topology
		4th	Types of topology

Week	Lecture	Topic
12th week	1st	Transmission media
	2nd	LAN protocol, architecture
	3rd	Media acess control
	4th	Bridges, HUB, switches
13th week	1st	Ethernet (CSMA/CD,CSMA/CA)
	2nd	CSMA/CD
	3rd	Fiber
	4th	WLAN technology
14th week	1st	TCP/IP concepts,TCP/IP suits
	2nd	Basic protocol function
	3rd	Protocol function
	4th	Principle of inter network
15th week	1st	Internet protocol operations
	2nd	Internet protocol
	3rd	Doubt clearing class
	4th	Question answer discussion of previous year

Signature of
Faculty

14/02/23

HOD
Sr. Lecture, CE

14/02/23