Academic Lesson Plan of Summer 2025

Department: E&TC	Semester:4th	Name of the Teaching Faculty: JASHASWINI SATAPATHY
Subject: DCCN	No. of days/per week	Semester from:04/02/2025
	class allotted.	No. of weeks:15
	4p/week	Topics to be covered:
WEEK	DAY	TOPIC
1st week	1st	Introduction to data communication, what is data,
	150	network communication channel
	2nd	Networks (LAN,MAN,WAN), concept of all
	3rd	protocol, architecture
	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 6th week	1st	Data encoding
	2nd	Digital data, Digital signals
	3rd	Digital signals
	4th	Digital data, Analog signals
	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 3rd	Flow control
	4th	Error detection methods
	1st	line configuration Error control
8th week	2nd	
	3rd	Multiplexing, Types of multiplexing
	4th	Concept of EDM,TDM,WDM Statistical TDM
9th week	1st	
	2nd	Introduce to switching 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	
	3rd	Congestion in pkt switching network
		Concept of topology
	4th	Types of topology
12th week	1st	Transmission media
	2nd	LAN protocol, architecture
	3rd	Media acess control
	4th	Bridges, HUB, switches
	1st	Ethernet (CSMA/CD,CSMA/CA)
13th week	2nd	CSMA/CD
25th Week	3rd	Fiber
1	4th	WLAN technology
	1st	TCP/IP concepts,TCP/IP suits
14th week	2nd	Basic protocol function
1401 WEEK	3rd	Protocol function
	4th	Principle of inter network
	1st	Internet protocol operations
15th week	2nd	Internet protocol
15til week	3rd	Doubt clearing class
	4th	Question answer discussion of previous year

Jasheswin, Satapathy,
Signature of faculty

HOD,E&TC