

LESSON PLAN

DEPARTMENT OF MECHATRONICS ENGINEERING, ITT, CHOUDWAR

SUBJECT: Data Communication & Computer Network **Periods:** 4 per week **SEMESTER:** 4th

NAME OF FACULTY: SUBASH CHANDRA KARAN

Week	Period	Theory / Practical Topics
1 st	1 st	Data Communication
	2 nd	Types of Networks
	3 rd	Protocol & Architecture
	4 th	Standards, OSI
2 nd	1 st	TCP/IP
	2 nd	Data transmission Concepts
	3 rd	Data transmission Concepts and Terminology
	4 th	Analog and Digital Data transmission, Transmission impairments,
3 rd	1 st	Channel capacity
	2 nd	Transmission media
	3 rd	Guided Transmission
	4 th	Wireless Transmission, Data encoding
4 th	1 st	Digital data digital signals
	2 nd	Digital data analog signals
	3 rd	Analog data digital signals
	4 th	Asynchronous and Synchronous Transmission, Error Detection
5 th	1 st	Line configuration
	2 nd	Flow Control
	3 rd	Error Control
	4 th	Multiplexing
6 th	1 st	Statistical TDM, FDM synchronous TDM
	2 nd	Circuit Switching networks
	3 rd	Packet Switching principles
	4 th	X.25
7 th	1 st	Routing in Packet switching
	2 nd	Effects of congestion, congestion control
	3 rd	Traffic Management
	4 th	Congestion Control in Packet Switching Network, Topology and Transmission Media
8 th	1 st	LAN protocol architecture
	2 nd	Medium Access control
	3 rd	Medium Access control
	4 th	Medium Access control, Bridges, Hub, Switch
9 th	1 st	Bridges, Hub, Switch
	2 nd	Ethernet (CSMA/CD)
	3 rd	Ethernet (CSMA/CD)
	4 th	Fiber Channel
10 th	1 st	Wireless LAN Technology., Fiber Channel
	2 nd	Wireless LAN Technology.
	3 rd	TCP/IP Protocol Suite
	4 th	TCP/IP Protocol Suite
11 th	1 st	Examples TCP/IP Protocol Suite

	2 nd	Basic Protocol functions
	3 rd	Basic Protocol functions
	4 th	Principles of Internetworking, Internet Protocol operations
12 th	1 st	Internet Protocol operations
	2 nd	Internet Protocol operations
	3 rd	Internet Protocol
	4 th	Internet Protocol
13 th	1 st	Revision
	2 nd	Revision
	3 rd	Revision
	4 th	Revision
14 th	1 st	Revision
	2 nd	Revision
	3 rd	Revision
	4 th	Revision
15 th	1 st	Revision
	2 nd	Revision
	3 rd	Revision
	4 th	Revision