

GOVERNMENT POLYTECHNIC, SAMBALPUR, RENGALI

DEPARTMENT OF E&TC ENGINEERING

LESSON PLAN(W-22)

**SUBJECT- DATA COMMUNICATION & COMPUTER NETWORK (TH-2)
SEMESTER-4th**

NAME OF THE FACULTY- MS. S. SUBHALAXMI

TOTAL NO. OF PERIODS-60(4/W)

UNIT	DATE	PERIOD	TOPICS TO BE COVERED
1	1 st week of AUGUST, 2022		Network & Protocol
		1	Data Communication
		2	Networks
		3	Protocol & Architecture, Standards, OSI, TCP/IP
		4	assignments
2	2 nd week of AUGUST, 2022		Data Transmission & Media
		1	Data transmission Concepts and Terminology
		2	Analog and Digital Data transmission
		3	Transmission impairments, Channel capacity
		4	Transmission media, Guided Transmission, Wireless Transmission
		5	Previous year questions discussion & assignments
3	3 rd week of SEPTEMBER 2022		Data Encoding
		1	Data encoding
		2	Digital data digital signals
		3	Digital data analog signals
		4	Analog data digital signals
		5	Analog data analog signals
		6	Previous year questions discussion & assignments
4	2 nd week of OCTOBER ,2022		Data Communication & Data link control
		1	Asynchronous and Synchronous Transmission
		2	Error Detection
		3	Line configuration
		4	Flow Control
		5	Error Control
		6	Multiplexing
		7	FDM synchronous TDM
		8	Statistical TDM
		9	Previous year questions discussion & assignments
5	4 th week of OCTOBER ,2022		Switching & Routing
		1	Circuit Switching networks
		2	Packet Switching principles
		3	X.25
		4	Routing in Packet switching
		5	Congestion
		6	Effects of congestion ,congestion control
		7	Traffic Management
		8	Congestion Control in Packet Switching Network
		9	Previous year questions discussion & assignments
6	2 nd week of NOVEMBER 2022		LAN Technology
		1	Topology and Transmission Media
		2	LAN protocol architecture
		3	Medium Access control
		4	Bridges, Hub, Switch

		5	Ethernet (CSMA/CD), Fiber Channel
		6	Wireless LAN Technology
		7	Previous year questions discussion & assignments
7	1st week of DECEMBER, 2022		TCP/IP
		1	TCP/IP Protocol Suite
		2	Basic Protocol functions
		3	Principles of Internetworking
		4	Internet Protocol operations
		5	Internet Protocol
		6	Previous year questions discussion & assignments