



GANAPATI INSTITUTE OF ENGINEERING AND TECHNOLOGY
Mathasahi , Jagatpur , Cuttack - 754200, Odisha
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LESSON PLAN

Discipline: Computer Science and Engineering	Semester: 4 th	Name of the faculty: Smruti Ranjan Pattnaik
Subject: Data Communication and Computer Networks Theory-2	No of Days & Weeks: 04	StartDate: 04.02.2025 End Date: 17.05.2025

Week	ClassDay	TheoryTopics
1 st	1 st	1.IntroductiontoNetwork&Protocol
	2 nd	DataCommunication
	3 rd	Networks
	4 th	Protocol & Architecture, Standards
2 nd	1 st	OSI model
	2 nd	TCP/IP
	3 rd	2.IntroductiontoDataTransmission&Media
3 rd	4 th	Data transmission Concepts and Terminology
	1 st	AnalogandDigitalDatatransmission
	2 nd	Transmissionimpairments,Channelcapacity
	3 rd	Transmissionmedia
4 th	4 th	GuidedTransmission
	1 st	WirelessTransmission
	2 nd	Revision
	3 rd	3.IntroductiontoDataEncoding
5 th	4 th	Dataencoding,
	1 st	Digitaldatadigitalsignals,
	2 nd	Digitaldataanalogsignals
	3 rd	Analogdatadigitalsignals
6 th	4 th	Analogdataanalogsignals
	1 st	Quiz-1
	2 nd	4.IntroductiontoDataCommunication&Datalinkcontrol
	3 rd	AsynchronousandSynchronousTransmission
7 th	4 th	ErrorDetection
	1 st	Lineconfiguration
	2 nd	Flow Control
	3 rd	ErrorControl

	2 nd	Continuing Multiplexing
	3 rd	FDM synchronous TDM
	4 th	Continuing FDM synchronous TDM
9 th	1 st	Statistical TDM
	2 nd	Revision
	3 rd	5. Introduction to Switching & Routing
	4 th	Circuit Switching networks
10 th	1 st	Packet Switching principles
	2 nd	X.25
	3 rd	Routing in Packet switching
	4 th	Congestion
11 th	1 st	Effects of congestion
	2 nd	congestion control
	3 rd	Traffic Management
	4 th	Congestion Control in Packet Switching Network.
12 th	1 st	Revision
	2 nd	6. Introduction to LAN Technology
	3 rd	Topology and Transmission Media
	4 th	LAN protocol architecture
13 th	1 st	Medium Access control
	2 nd	Bridges, Hub, Switch
	3 rd	Ethernet (CSMA/CD), Fiber Channel
	4 th	Wireless LAN Technology.
14 th	1 st	Revision
	2 nd	Quiz-2
	3 rd	7. Introduction to TCP/IP
	4 th	TCP/IP Protocol Suite
15 th	1 st	Basic Protocol functions
	2 nd	Principles of Internet networking
	3 rd	Internet Protocol operations
	4 th	Internet Protocol

S.R. Pathman
29.01.25
Sign Of Faculty

S.R. Pathman
29.01.25
Sign Of Sr. Lect.
Department of Computer Science & Engg

Sign Of Principal
29.1.25