

UTKAL GOURAV MADHUSUDAN INSTITUTE OF TECHNOLOGY, RAYAGADA
Department of Electronics & Telecommunication Engineering

Academic Lesson Plan for 4th Semester - 2022 (Summer)
Subject: DATA COMMUNICATION & COMPUTER NETWORK (Th. 2)
Name of the teaching faculty- Sri Sisira Kumar Kapat, Lecturer(Comp. Appl.),

SEMESTER FROM DATE:10/03/22 TO DATE:30/06/2022	No. of periods per week: 4 NO.OF WEEKS:15 Total periods: 60	Class Test (I.A.) : 20 Marks End Semester Exam.: 80 Marks Total Marks: 100 Marks
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WEEK	CLASS DAY	THEORY/PRACTICAL TOPICS
1ST	1ST	1.1 Data Communication
	2ND	1.2 Networks
	3RD	1.3 Protocol & Architecture
	4TH	Standards
2ND	1ST	OSI
	2ND	OSI
	3RD	TCP/IP
	4TH	TCP/IP
3RD	1ST	2.1 Data transmission Concepts and Terminology
	2ND	2.2 Analog and Digital Data transmission
	3RD	2.3 Transmission impairments, Channel capacity
	4TH	2.4 Transmission media,
4TH	1ST	Guided Transmission,
	2ND	Guided Transmission,
	3RD	Wireless Transmission
	4TH	Wireless Transmission
5TH	1ST	3.1 Data encoding,
	2ND	3.2 Digital data digital signals,
	3RD	3.2 Digital data digital signals,
	4TH	3.3 Digital data analog signals
6TH	1ST	3.3 Digital data analog signals
	2ND	3.4 Analog data digital signals
	3RD	3.5 Analog data analog signals
	4TH	3.5 Analog data analog signals
7TH	1ST	4.1 Asynchronous and Synchronous Transmission
	2ND	4.1 Error Detection
	3RD	4.3 Line configuration
	4TH	4.4 Flow Control,
8TH	1ST	4.5 Error Control
	2ND	4.6 Multiplexing
	3RD	4.7 FDM synchronous TDM
	4TH	4.8 Statistical TDM
9TH	1ST	5.1 Circuit Switching networks
	2ND	5.2 Packet Switching principles
	3RD	5.3 X.25
	4TH	5.4 Routing in Packet switching

10TH	1ST	5.4 Routing in Packet switching
	2ND	5.5 Congestion
	3RD	5.6 Effects of congestion, congestion control
	4TH	5.7 Traffic Management
11TH	1ST	5.8 Congestion Control in Packet Switching Network.
	2ND	5.8 Congestion Control in Packet Switching Network.
	3RD	6.1. Topology and Transmission Media
	4TH	6.1. Topology and Transmission Media
12TH	1ST	6.2 LAN protocol architecture
	2ND	6.3. Medium Access control
	3RD	6.4 Bridges, Hub, Switch
	4TH	6.4 Bridges, Hub, Switch
13TH	1ST	6.5 Ethernet (CSMA/CD)
	2ND	Fiber Channel
	3RD	6.6 Wireless LAN Technology
	4TH	6.6 Wireless LAN Technology
14TH	1ST	7.1 TCP/IP Protocol Suite
	2ND	7.2 Basic Protocol functions
	3RD	7.3 Principles of Internetworking
	4TH	7.3 Principles of Internetworking
15TH	1ST	7.3 Internet Protocol operations
	2ND	7.3 Internet Protocol operations
	3RD	7.4 Internet Protocol
	4TH	7.4 Internet Protocol