

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

Academic Lesson Plan for 4th Semester - 2023 (Summer)
Subject: DATA COMMUNICATION & COMPUTER NETWORK (Th.2)
Name of the teaching faculty-Sri Anurag Sethy Lecturer(Electronics())

SEMESTER FROM DATE:13/02/23TO DATE:23/05/2023	No.ofperiodsperweek:4 NO.OF WEEKS:15 Totalperiods:60	ClassTest(I.A.):20Marks EndSemesterExam.:80Marks Total Marks: 100 Marks
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WEEK	CLASSDAY	THEORY/PRACTICALTOPICS
1ST	1ST	1.1Data Communication
	2ND	1.2Networks
	3RD	1.3Protocol&Architecture
	4TH	Standards
2ND	1ST	OSI
	2ND	OSI
	3RD	TCP/IP
	4TH	TCP/IP
3RD	1ST	2.1DatatransmissionConceptsandTerminology
	2ND	2.2AnalogandDigitalDatatransmission
	3RD	2.3Transmissionimpairments,Channelcapacity
	4TH	2.4Transmissionmedia,
4TH	1ST	GuidedTransmission,
	2ND	GuidedTransmission,
	3RD	WirelessTransmission
	4TH	WirelessTransmission
5TH	1ST	3.1Data encoding,
	2ND	3.2Digitaldatadigitalsignals,
	3RD	3.2Digitaldatadigitalsignals,
	4TH	3.3Digitaldataanalogsignals
6TH	1ST	3.3Digitaldataanalogsignals
	2ND	3.4Analogdatadigitalsignals
	3RD	3.5Analogdataanalog signals
	4TH	3.5Analogdataanalog signals
7TH	1ST	4.1AsynchronousandSynchronousTransmission
	2ND	4.1ErrorDetection
	3RD	4.3Line configuration
	4TH	4.4FlowControl,
8TH	1ST	4.5ErrorControl
	2ND	4.6 Multiplexing
	3RD	4.7FDMsynchronousTDM
	4TH	4.8StatisticalTDM
9TH	1ST	5.1CircuitSwitchingnetworks
	2ND	5.2PacketSwitchingprinciples
	3RD	5.3X.25
	4TH	5.4RoutinginPacketswitching

10TH	1ST	5.4RoutinginPacketswitching
	2ND	5.5Congestion
	3RD	5.6Effectsofcongestion,congestioncontrol
	4TH	5.7TrafficManagement
11TH	1ST	5.8CongestionControlinPacketSwitchingNetwork.
	2ND	5.8CongestionControlinPacketSwitchingNetwork.
	3RD	6.1.TopologyandTransmissionMedia
	4TH	6.1.TopologyandTransmissionMedia
12TH	1ST	6.2LANprotocol architecture
	2ND	6.3.MediumAccess control
	3RD	6.4Bridges,Hub, Switch
	4TH	6.4Bridges,Hub, Switch
13TH	1ST	6.5Ethernet(CSMA/CD)
	2ND	Fiber Channel
	3RD	6.6WirelessLANTechnology
	4TH	6.6WirelessLANTechnology
14TH	1ST	7.1TCP/IPProtocolSuite
	2ND	7.2BasicProtocol functions
	3RD	7.3Principlesof Internetworking
	4TH	7.3Principlesof Internetworking
15TH	1ST	7.3InternetProtocoloperations
	2ND	7.3InternetProtocoloperations
	3RD	7.4InternetProtocol
	4TH	7.4InternetProtocol