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

**Academic Lesson Plan for 4th Semester - 2024 (Summer)**
**Subject: DATA COMMUNICATION & COMPUTER NETWORK (Th.2)**
**Name of the teaching faculty-Sri Anurag Sethy Lecturer(Electronics()**

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| **SEMESTER FROM DATE:16/01/2024 TO DATE:26/04/2024** | **No.ofperiodsperweek:4** **NO.OF WEEKS:15** **Totalperiods:60** | **ClassTest(I.A.):20Marks** EndSemesterExam.:80Marks Total Marks: 100 Marks |

| 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 |
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| 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 |