**ASIAN SCHOOL OF TECHNOLOGY ,BHUBANESWAR**

**DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING**

**LESSON PLAN**

| Department: CSE | Semester: 4th | No of periods Aviailable:51 | Name of The Teaching Faculty : Ashish kumar panda |
|---|---|---|---|
| Subject: Data Communication & Computer Network (DC&CN) | No. of days/ week Class allotted: 04 periods per week (Mon,Wed,Thurs,Fri) | | Semester From (Start-end) Date: 16.01.2024 To Date:(26.04.2024) |
| **Week** | **Class Day** | | **Theory** |
| 1st | 1st | 1 | **UNIT 1: NETWORK& PROTOCOL** |
| | 2nd | 1 | **1.1** Data Communication |
| | 3rd | 1 | **1.2** Networks |
| | 4th | 1 | **1.3** Protocol & Architecture, Standards, OSI, TCP/IP |
| 2nd | 1st | 1 | **1. Doubt Clearing class** **2. Quiz test** **3. Assignment** |
| | 2nd | 1 | **UNIT 2: Data Transmission & Media** |
| | 3rd | 1 | **2.1** Data transmission Concepts and Terminology |
| | 4th | 1 | **2.2** Analog and Digital Data transmission |
| 3rd | 1st | 1 | **2.3** Transmission impairments, Channel capacity |
| | 2nd | 1 | **2.4** Transmission media |
| | 3rd | 1 | **2.4.1** Guided Transmission |
| | 4th | 1 | **2.4.2** Wireless Transmission |
| 4th | 1st | 1 | **1. Doubt Clearing class** **2. Quiz test** **3. Assignment** |
| | 2nd | 1 | **UNIT 3: DATA ENCODING** |
| | 3rd | 1 | **3.1** Data encoding, |
| | 4th | 1 | **3.2** Digital data digital signals |
| 5th | 1st | 1 | **3.3** Digital data analog signals |
| | 2nd | 1 | **3.4** Analog data digital signals |
| | 3rd | 1 | **3.5** Analog data analog signals |
| | 4th | 1 | **1. Doubt Clearing class** **2. Quiz test** **3. Assignment** |
| 6th | 1st | 1 | **UNIT 4: DATA COMMUNICATION & DATA LINK CONTROL** |
| | 2nd | 1 | **4.1** Asynchronous and Synchronous Transmission |
| | 3rd | 1 | **4.2** Error Detection |
| | 4th | 1 | **4.3** Line configuration |
| 7th | 1st | 1 | **4.4** Flow Control |
| | 2nd | 1 | **4.5** Error Control |
| | 3rd | 1 | **4.6** Multiplexing |
| | 4th | 1 | **4.7** FDM synchronous TDM |
| 8th | 1st | 1 | **4.8** Statistical TDM |
| | 2nd | 1 | **1. Doubt Clearing class** **2. Quiz test** **3. Assignment** |
| | 3rd | 1 | **UNIT 5: SWITCHING & ROUTING** |
| | 4th | 1 | **5.1** Circuit Switching networks |
| 9th | 1st | 1 | **5.2** Packet Switching principles |
| | 2nd | 1 | 5.3 X.25 |
| | 3rd | 1 | **5.4** Routing in Packet switching |
| | 4th | 1 | **5.5** Congestion |
| 10th | 1st | 1 | **5.6** Effects of congestion, congestion control |
| | 2nd | 1 | **5.7** Traffic Management |
| | 3rd | 1 | **5.8** Congestion Control in Packet Switching Network. |

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| | 4th | 1 | **1. Doubt Clearing class**<br>**2. Quiz test**<br>**3. Assignment** |
| **11th** | 1st | 1 | **UNIT 6: LAN TECHNOLOGY** |
| | 2nd | 1 | **6.1** Topology and Transmission Media |
| | 3rd | 1 | **6.2** LAN protocol architecture |
| | 4th | 1 | **6.3** Medium Access control |
| **12th** | 1st | 1 | **6.4** Bridges, Hub, Switch |
| | 2nd | 1 | **6.5** Ethernet (CSMA/CD) |
| | 3rd | 1 | **6.5.1** Fiber Channel |
| | 4th | 1 | **6.6** Wireless LAN Technology |
| **13th** | 1st | 1 | **1. Doubt Clearing class**<br>**2. Quiz test**<br>**3. Assignment** |
| | 2nd | 1 | **UNIT 7: TCP/IP** |
| | 3rd | 1 | **7.1** TCP/IP Protocol Suite |
| | 4th | 1 | **7.2** Basic Protocol functions |
| **14th** | 1st | 1 | **7.3** Principles of Internetworking |
| | 2nd | 1 | **7.4** Internet Protocol operations |
| | 3rd | 1 | **7.5** Internet Protocol |
| | 4th | 1 | **1. Doubt Clearing class**<br>**2. Quiz test**<br>**3. Assignment** |
| **15th** | 1st | 1 | **Revision** |
| | 2nd | 1 | **Revision** |
| | 3rd | 1 | **Previous Year Question Discussions** |
| | 4th | 1 | **Previous Year Question Discussions** |