**BHADRAK ENGINEERING SCHOOL & TECHNOLOGY (BEST), ASURALI, BHADRAK**

**DATA COMMUNICATION AND COMPUTER NETWORK (Th- 02)**

**CHAPTER-WISE DISTRIBUTION OF PERIODS**

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| --- | --- | --- | --- | --- |
| **Sl. No.** | **Name of the Chapter** | **Periods as per Syllabus** | **Required period** | **Expected****Marks** |
| 01 | Network& Protocol  | 08 | 08 | 15 |
| 02 | Data Transmission & Media | 08 | 08 | 15 |
| 03 | Data Encoding  | 08 | 10 | 15 |
| 04 | Data Communication & Data link control  | 08 | 10 | 20 |
| 05 | Switching & Routing | 10 | 09 | 15 |
| 06 | LAN Technology | 10 | 09 | 15 |
| 07 | TCP/IP  | 08 | 06 | 15 |
| **TOTAL** | **60** | **60** | **110** |

**Sign of Lect. Sign of HOD. Sign of AIC Sign of Vice Principal**

**LESSON PLAN**

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| --- | --- | --- |
| **Discipline:**Computer Sc. & Engg. | **Semester:**Fourth (4th ) | **Name Of The Faculty:** Er Biswajit Moharana |
| **Subject:**Data Communication and Computer Network | **No of days/ week class allotted:**Six(6) | **Semester from date:**  **to Date:** **No of weeks: 15** |
| **WEEK** | **CLASS DAY** | **THEORY TOPICS** |
| 1st | 1st | **Chapter No.- 01 (Network& Protocol)**Data Communication |
| 2nd | continue. |
| 3rd | Networks |
| 4th | Protocol & Architecture. |
| 5th | Standards, |
| 6th | OSI, TCP/IP |
| 2nd | 1st | Cont... |
| 2nd | Cont... |
| 3rd | ***Review Class***  |
| 4th | **Chapter No.- 02 (Data Transmission & Media)**Data transmission Concepts and Terminology |
| 5th | Analog and Digital Data transmission |
| 6th | Cont… |
| 3rd | 1st | Transmission impairments, Channel capacity |
| 2nd | Continue. |
| 3rd | Transmission media, Guided Transmission, Wireless Transmission |
| 4th | Continue. |
| 5th | Continue. |
| 6th | ***Review Class*** |
| 4th | 1st | **Chapter No.- 03 (Data Encoding )**Data encoding. |
| 2nd | ***Monthly Test- 1*** |
| 3rd | Digital data digital signals,  |
| 4th | Continue. |
| 5th | Digital data analog signals |
| 6th | Continue. |
| 5th | 1st | Analog data digital signals |
| 2nd | Continue. |
| 3rd | Analog data analog signals |
| 4th | Continue |
| 5th | ***Review Class*** |
| 6th | **Chapter No.- 04 (Data Communication & Data link control)**Asynchronous and Synchronous Transmission |
| 6th | 1st | Cont. |
| 2nd | Error Detection |
| 3rd | Line configuration. |
| 4th | Flow Control, |
| 5th | Error Control |
| 6th | Multiplexing |
| 7th | 1st | Cont. |
| 2nd | FDM synchronous TDM |
| 3rd | Statistical TDM |
| 4th | ***Review Class*** |
| 5th | ***Monthly Test- 2*** |
| 6th | **Chapter No.- 05 (Switching and Routing)**Circuit Switching networks |
| 8th | 1st | Packet Switching principles |
| 2nd | X.25 |
| 3rd | Routing in Packet switching |
| 4th | Congestion |
| 5th | Effects of congestion, congestion control |
| 6th | Effects of congestion, congestion control continue. |
| 9th | 1st | Traffic Management |
| 2nd | Congestion Control in Packet Switching Network. |
| 3rd | ***Review Class*** |
| 4th | ***Monthly Test- 3*** |
| 5th | **Chapter No.- 06 (LAN Technology)**Topology and Transmission Media |
| 6th | Topology and Transmission Media  |
| 10th | 1st | Continue. |
| 2nd |  LAN protocol architecture |
| 3rd | Medium Access control |
| 4th | Continue. |
| 5th | Bridges, Hub, Switch |
| 6th | Ethernet (CSMA/CD), Fiber Channel |
| 11th | 1st | Wireless LAN Technology. |
| 2nd | ***Review Class*** |
| 3rd | **Chapter No.- 07 (TCP/IP)** |
| 4th | TCP/IP Protocol Suite |
| 5th | Basic Protocol functions |
| 6th | ***Monthly Test- 4*** |
| 12th | 1st | Principles of Internetworking |
| 2nd | Internet Protocol operations |
| 3rd | Internet Protocol |
| 4th | Continue |
| 5th | ***Review Class*** |
| 6th | Review Class for Chapter No.- 01 |
| 13th | 1st | Review Class for Chapter No.- 01 |
| 2nd | Review Class for Chapter No.- 02 |
| 3rd | Review Class for Chapter No.- 02 |
| 4th | Review Class for Chapter No.- 03 |
| 5th | Review Class for Chapter No.- 03 |
| 6th | Review Class for Chapter No.- 04 |
| 14th | 1st | Review Class for Chapter No.- 04 |
| 2nd | Review Class for Chapter No.- 05 |
| 3rd | Review Class for Chapter No.- 05 |
| 4th | Review Class for Chapter No.- 06 |
| 5th | Review Class for Chapter No.- 06 |
| 6th | Review Class for Chapter No.- 06 |
| 15th | 1st | Review Class for Chapter No.- 07 |
| 2nd | Review Class for Chapter No.- 07 |
| 3rd | Previous Year (S- 22) Question Answer Discussion |
| 4th | Previous Year Question Answer Discussion |
| 5th | Previous Year Question Answer Discussion |
| 6th | Previous Year Question Answer Discussion |
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*Chapters covered up to IA****: 1, 2 & 3.***