

| <b>LESSON PLAN:</b>  |  |  |
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| Discipline:<br><b>IT</b>                                     | Semester:<br><b>4th</b>  | Name of the Teaching Faculty:<br><b>Ms. Supriya Mishra</b>   |
| Subject:<br><b>Data Communication &amp; Computer Network</b> | No. Of Days per week : <b>4 periods per week (Wed, Thurs, Fri &amp; Sat - 1 period each)</b> | Semester:<br><b>From Date:14-02-2023 To 23-05-2023</b>   |
| <b>WEEK</b>  | <b>CLASS DAY</b>   | <b>THEORY /PRACTICAL TOPICS</b>  |
| 1st  | 15-02-2023   | Syllabus Discussion  |
|  | 16-02-2023   | <b>1. Network &amp; Protocol</b><br>1.1 Data Communication<br>1.2 Networks   |
|  | 17-02-2023   | 1.3 Protocol & Architecture, Standards   |
| 2nd  | 22-02-2023   | 1.3 OSI, TCP/IP  |
|  | 23-02-2023   | <b>Recap of Chapter 1</b><br><b>2. Data Transmission &amp; Media</b><br>2.1 Data transmission Concepts and Terminology             |
|  | 24-02-2023   | 2.2 Analog and Digital Data transmission   |
|  | 25-02-2023   | 2.3 Transmission impairments, Channel capacity   |
| 3rd  | 01-03-2023   | 2.4 Transmission media, Guided Transmission, Wireless Transmission   |
|  | 02-03-2023   | <b>Recap of Chapter 2</b><br><b>3. Data Encoding</b><br>3.1 Data encoding,   |
|  | 03-03-2023   | 3.2 Digital data digital signals,  |
|  | 04-03-2023   | 3.3 Digital data analog signals  |
| 4th  | 09-03-2023   | 3.4 Analog data digital signals  |
|  | 10-03-2023   | 3.5 Analog data analog signals   |
|  | 11-03-2023   | <b>Recap of Chapter 3</b><br><b>4. Data Communication &amp; Data link control</b><br>4.1 Asynchronous and Synchronous Transmission |
| 5th  | 15-03-2023   | <b>Class Test -1 (Chapter 1 &amp;2)</b>  |
|  | 16-03-2023   | 4.1 Error Detection  |
|  | 17-03-2023   | 4.3 Line configuration   |
|  | 18-03-2023   | 4.4 Flow Control   |
| 6th  | 22-03-2023   | 4.5 Error Control  |
|  | 23-03-2023   | 4.6 Multiplexing   |
|  | 24-03-2023   | 4.7 FDM  |
|  | 25-03-2023   | 4.7 Synchronous TDM  |
| 7th  | 29-03-2023   | 4.8 Statistical TDM<br><b>Assignment -1 ( Chapters 1-4)</b>  |
|  | 31-03-2023   | <b>Recap of Chapter 4</b><br><b>5. Switching &amp; Routing</b><br>5.1 Circuit Switching networks                                   |
| 8th  | 05-04-2023   | 5.2 Packet Switching principles  |
|  | 06-04-2023   | 5.3 X.25   |

|      |            |   |
|------|------------|---|
|      |            | 5.4 Routing in Packet switching   |
|      | 08-04-2023 | 5.5 Congestion<br>5.6.1 Effects of congestion,  |
| 9th  | 12-04-2023 | 5.6.2 Congestion control<br>5.8 Congestion Control in Packet Switching Network.               |
|      | 13-04-2023 | 5.7 Traffic Management  |
|      | 15-04-2023 | <b>Class Test -2 (Chapter 3 &amp;4)</b>   |
| 10th | 19-04-2023 | <b>Recap of Chapter 5</b><br><b>6. LAN Technology</b><br>6.1. Topology and Transmission Media |
|      | 20-04-2023 | 6.2 LAN protocol architecture   |
|      | 21-04-2023 | 6.3. Medium Access control  |
|      | 22-04-2023 | 6.4 Bridges, Hub, Switch  |
| 11th | 26-04-2023 | 6.5 Ethernet (CSMA/CD), Fiber Channel   |
|      | 27-04-2023 | <b>Internal Assessment (Tentative as per Academic Calender)</b>                               |
|      | 28-04-2023 | 6.6 Wireless LAN Technology   |
|      | 29-04-2023 | <b>Recap of Chapter 6</b><br><b>7. TCP/IP</b><br>7.1 TCP/IP Protocol Suite                    |
| 12th | 03-05-2023 | 7.2 Basic Protocol functions  |
|      | 04-05-2023 | 7.3 Principles of Internetworking   |
|      | 06-05-2023 | 7.3 Internet Protocol operations<br>7.4 Internet Protocol                                     |
| 13th | 10-05-2023 | <b>Class Test -3 (Chapter 5 &amp;6)</b><br><b>Assignment -2 ( Chapters 5-7)</b>               |
|      | 11-05-2023 | <b>Recap of Chapter 1&amp;2</b>   |
|      | 12-05-2023 | <b>Recap of Chapter 3</b>   |
|      | 13-05-2023 | <b>Recap of Chapter 4</b>   |
| 14th | 17-05-2023 | <b>Recap of Chapter 5</b>   |
|      | 18-05-2023 | <b>Recap of Chapter 6 &amp; 7</b>   |
|      | 20-05-2023 | <b>Last Date for submission of Notes by students</b>  |
|      |            |   |