**LESSON PLAN**

**DATA COMMUNICATION & COMPUTER NETWORK**



**BRANCH: 3RD SEM, CSE**

**PREPARED BY**

**DR. ANITARANI BRAHMA**

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

**GOVERNMENT POLYTECHNIC BARGARH**

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| **LECTURE** | **TOPICS TO BE COVERED** | **TEACHING****MEHOD** |
| 1 | Network& Protocol  | PPT |
| 2 | Data Communication  | PPT |
| 3 | Networks  | PPT |
| 4 |  Protocol & Architecture | PPT |
| 5 | Standards, OSI MODEL | PPT |
| 6 | TCP/IP MODEL | PPT |
| 7 | OSI & TCP/IP MODEL | PPT |
| 8 | REVISION | PPT |
| 9 | Data Transmission & Media  | PPT |
| 10 |  Data transmission Concepts and Terminology  | PPT |
| 11 |  Analog and Digital Data transmission  | PPT |
| 12 |  Transmission impairments, Channel capacity  | PPT |
| 13 |  Transmission media | PPT |
| 14 | Guided Transmission,  | PPT |
| 15 | Wireless Transmission | PPT |
| 16 | REVISION | PPT |
| 17 | Data Encoding  | CHALK & BOARD |
| 18 | Data encoding,  | CHALK & BOARD |
| 19 |  Digital data digital signals,  | CHALK & BOARD |
| 20 | Digital data analog signals  | CHALK & BOARD |
| 21 | Analog data digital signals  | CHALK & BOARD |
| 22 |  Analog data analog signals | CHALK & BOARD |
| 23 | REVISION | CHALK & BOARD |
| 24 | Data Communication & Data link control | CHALK & BOARD |
| 25 | Asynchronous and Synchronous Transmission  | CHALK & BOARD |
| 26 | Error Detection  | CHALK & BOARD |
| 27 | Line configuration  | CHALK & BOARD |
| 28 | Flow Control,  | CHALK & BOARD |
| 29 | Error Control  | CHALK & BOARD |
| 30 |  Multiplexing :FDM, synchronous TDM  | CHALK & BOARD |
| 31 |  Statistical TDM | PPT |
| 32 | REVISION | PPT |
| 33 | Switching & Routing: Circuit Switching networks  | PPT |
| 34 | Packet Switching principles  | PPT |
| 35 |  X.25  | PPT |
| 36 | Routing in Packet switching | PPT |
| 37 |  Congestion  | PPT |
| 38 |  Effects of congestion | PPT |
| 39 | congestion control  | PPT |
| 40 |  Traffic Management  | PPT |
| 41 |  Congestion Control in Packet Switching Network | PPT |
| 42 | REVISION | PPT |
| 44 | LAN Technology : Topology | PPT |
| 45 | Transmission Media | PPT |
| 46 | LAN protocol architecture | PPT |
| 47 | Medium Access control  | PPT |
| 48 | Bridges, Hub | PPT |
| 49 | Switch  | PPT |
| 50 |  Ethernet (CSMA/CD)  | PPT |
| 51 | Fiber Channel  | PPT |
| 52 | Wireless LAN Technology | PPT |
| 53 | TCP/IP: TCP/IP Protocol Suite  | PPT |
| 54 |  Basic Protocol functions  | PPT |
| 55 | Principles of Internetworking  | PPT |
| 56 |  Internet Protocol operations  | PPT |
| 57 |  Internet Protocol | PPT |
| 58 | REVISION | PPT |
| 59 | PREVIOUS YEAR QUESTIONS DISCUSSION | PPT |
| 60 | PREVIOUS YEAR QUESTIONS DISCUSSION | PPT |

 LECTURER HOD