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| **Sl. No** | **Syllabus** | **Curriculum** | **Deployment Strategy and**  **Tool** | **Cross-cutting issues**  **integrated** | **PO, PSO and CO** | **Attainment Verification** |
| 1. | COMPUTER NETWORK II | 1. In the course advanced Internet procedures and technologies are described which support an efficient, effective and secure interconnection of both distributed applications and related structured data  2The objective of this course unit is twofold:  (i) to study the problematic of service integration in TCP/IP networks focusing on protocol design, implementation and performance issues;  (ii) to debate the current trends and leading research in the computer networking area.  Promoting a comprehensive and deep knowledge in multiservice networks, this course provides the students with appropriate theoretical and practical skills in the area. In particular, the Internet Protocol (IP) is studied as an internetworking and convergence solution both in fixed and mobile environments, advanced transport issues are debated under the scope of diverse end-to-end delivery requirements, complemented by case studies of current and emerging multiconstrained applications, and related architectures.  The management of multiservice TCP/IP networks, focusing on management models, measurement, monitoring and security issues is a key component to be covered in the course. Self-organizing networks will also be matter of study. | 1. Chalk and   Talk method   1. PPT | * Business   Ethics   * Human   values | PO1:Engineering Knowledge  PO2:Problem Analysis  PO6: Engineer and Society  PO8:ETHICS |  |
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|  |  | PSO1:Professional Skills |
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|  |  | **CO1**  Acquire knowledge of   Quality of Service   Virtual Private Networks, MPLS and Overlay networks.   Signaling protocols used in the transportation mechanisms.   Compression algorithm   Wireless Adhoc Networks  **CO2**  Analyze packet switching networks and traffic management techniques.  **CO3** Apply various routing and security algorithms for wired and wireless networks.  **CO4** Illustrate the functionalities of TCP/IP stack and its associated protocols.  **CO5** Apply data compression algorithm for the given binary data. |
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