

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: 2

Communication (Specialization)

Subject Name: **Telecom Switching System, Networks and Network Management.**

Sr.No	Course content
1	Introduction to communication networks and services, Basics of telephony-Store Program control, centralized and distributed control.
2	Space Division switching Basic time division switching, Time multiplexed switches, Combination Switching, Fundamental of traffic engineering,; Lee and Jacobeus blocking analysis.
3	ISO-OSI reference model, TCP-IP protocol suit, ATM networks, LANs and MAC protocols, Packet Switching Networks.
4	Introduction to network management, SNMPv1, SNMPv2, SNMPv3.
5	Network monitoring tools and systems, Network monitoring applications.
6	Remote Monitoring (RMON), ATM network management, web-based management.

Reference Books:

1. T Viswanathan , Telecommunication switching systems and networks. PHI
2. Johan C. Bellamy ,Digital Telephony , 3rd edition, John Wiley and Sons
3. Mani Subramanian, Network Management: Principal and Practice Addison-wesley.
4. Stalling, W. SNMP, SNMPv2, SNMPv3, and RMON 1 and 2 Reading MA: Addison-Wesley.