

Course Title	Telecom Switching System and Network Management	
Course Code	ET211	
Course Credit	Lecture	: 4
	Practical	: 1
	Tutorial	: 0
	Total	: 5
Course Objective		
<p>The objective of the course is to:</p> <ul style="list-style-type: none"> Make understand students the exact SWITCHING and NETWORKING protocols. 		
Detailed Syllabus		
Sr. No.	Name of chapter & Details	Hours Allotted
SECTION - I		
1	Introduction Introduction to communication networks and services, Basics of telephony-Store Program control, centralized, and distributed control	08
2	Switching software and architecture Software architecture, Specification and Description Language, CCITT High Level Language, Man Machine Language, Application software	04
3	Private Networks Signaling techniques and protocols, Leased lines, Leased carrier, Leased trunks	04
4	Switching and Analysis Space Division switching Basic time division switching, Time multiplexed switches, Combination Switching, Fundamental of traffic engineering	10
SECTION – II		
4	Network Management Introduction to network management, SNMPv1, SNMPv2, SNMPv3	11
5	Network Monitoring Network monitoring tools and systems, Network monitoring applications.	09
6	Remote Monitoring Remote Monitoring (RMON), ATM network management, web-based management	10

Instructional Method and Pedagogy:

- Lectures will be conducted with the aid of multi-media projector, black board, Transparencies etc.
- Assignments and Exercise will be given to the students for each unit/topic and will be evaluated at regular interval.
- Surprise tests/Quizzes/Seminar/Tutorials will be conducted.

Students Learning Outcomes:

At the end of the course the students will be able to

- Understand physical Telecom networks.
- Virtual protocols.

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 Addisonwesley
4. R. A. Thompson, Telephone switching systems, Artech house
5. Stalling, W. SNMP, SNMPv2, SNMPv3, and RMON 1 and 2 Reading MA , Add-Wesley