

ITE6001 Network Management			
			L T P J C 3 0 0 4 4
Pre-req: Nil			
Objectives: <ul style="list-style-type: none">To introduce the principles and practices of network management models and protocols.To study the recent trends in network management technologies.			
Expected Outcome : On completion of this course, student should be able <ul style="list-style-type: none">To understand and apply principles of network management models, protocols and technical aspects of network systems.To manage the networked systems using SNMP protocol.To apply network management tools for various applications.			
Module	Topics	L Hrs	SLO
1	Network management overview: Goals, Organization and functions – Network Management Architecture and Organization - Current Status and Future of Network management.	4	2
2	Basic foundations: standards, models and language: Network management standards - Network management Models - Organization, Information, Communication and Functional Models.	8	2
3	SNMPv1: SNMP Model - Organization Model - System Overview - Information Model - Communication and Functional Models.	8	2,5
4	SNMPv2: Major changes in SNMPv2 - System architecture - Structure of Management Information – MIB – SNMPV2 protocol.	7	2,5
5	SNMPv3: Key features – Architecture – Applications – MIB – Security – User-Based Security Model -Access Control.	7	2,5
6	RMON: What is Remote Monitoring? – RMON SMI and MIB – RMON1 – A Case Study on Internet Traffic.	5	2
7	Network management tools: System utilizes for Management – Basic tools, SNMP tools and Protocol Analyzer.	3	17
8	Recent Advancements in Network Management – Expert Talk.	3	17
# Mode: Flipped Class Room, [Lecture to be videotaped], Use of physical and computer models to lecture, Visit to Industry Min of 2 lectures by industry experts		Total Lecture Hours 45	
Text Book 1. Mani Subramanian, “Network Management – Principles & Practice” – Pearson Education Ltd, 2010.			
Reference Books 1. William Stallings, “SNMP, SNMPv2, SNMPv3, and RMON 1 and 2,” Pearson Education, 2012. 2. Richard Burke J, “Network Management-Concepts and Practice: A Hands-on Approach”, Pearson Education, 2011.			
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