Sardar Patel Institute of Technology

Bhavan's Campus, Munshi Nagar, Andheri (West), Mumbai-400058-India
(Autonomous Institute Affiliated to University of Mumbai)

Course Code	Course Name	Teaching Scheme (Hrs/week)			Credits Assigned			
		L	T	P	L	T	P	Total
ETEL 802	Telecom Network Management	--	--	2	--	--	1	1
		Examination Scheme						
		ISE		ESE				Total
				Practical		Oral		
		40		10		10		60

Pre-requisite Course Codes	ETC 603: Computer Communication and Networks ETE802 Telecom Network Management
After successful completion of the course, student will be able to	

Course Outcomes	CO1	Apply basic of telecommunication, networking and information technologies and architect and implement networked informative systems.
	CO2	Use network management tools and maintain the network by performing routine maintenance tasks.
	CO3	Install, configure, diagnose, repair, implement, and evaluate a computer-based system, process, component, or program to meet desired needs and to use current techniques, skills, and tools necessary for network management practice.

Exp. No.	Experiment Details	Ref.	Marks
1	Network Monitoring tools a) Status b)Route c)Traffic Tools		5
2	Network Audit using NMAP GUI.		5
3	Monitoring and management network using SNMP a) Basic SNMP, b) Advanced SNMP v3 Authentication/Encryption and ACL , c) SNMP Trap Daemon Implementation		5
4	Configuration SNMP Protocol on Cisco Router using Packet Tracer		5
5	Install and configure SNMP MIB browser a) qtmib b)snmpB c) OpManager MIB browser		5
6	Configuration manageable Switch: Dlink DES 3026 24 Port L2 Switch.		5
7	Network Statistics and measurement a) LAN Traffic Monitoring b) Protocol statistics		5
8	LAN Troubleshooting using Wireshark		5
9	Monitoring of services and Servers using Icinga		5
10	Monitoring of services and Servers using Cacti		5
11	Install and configure NAGIOS and monitor server		5
12	To study log system using open source tools.		5

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13	Installation and Configuration of OpenNMS as a NMS.		5
14	Implementation of Centralized Log Management System: Syslog-ng		5
15	Study of commercial network management tools: HPOpenView, OpManager, GFILanguard and IBM NMS.		5
16	Class Project		5
*Any 08 Experiment to be performed.		**Total Marks**	**40**

References:
      As per recommended by faculty.