SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS) SREE SAINATH NAGAR, A. RANGAMPET-517102

Department Of Computer Science and Engineering

Lesson Plan cum Diary 2015-'16

Name of the Subject : Network Management

Name of the faculty Member : Mr. D. Ganesh

Class & Semester : I M. Tech I semester

Specialization: CNIS

Engineering College

S. No.	Торіс	No. of periods required	Date(s) covered	No. of periods used	Book(s) followed	Topics for Self Study		
Unit-I: Network Management Overview & Basic Foundations								
1.	Analogy of Telephone Network Management	1			T1	(i) Network		
2.	Communication Protocols and standards,	2			T1	Manage ment in		
3.	case histories of Networking and Management	1			T1	Local Area		
4.	Network and System Mgmt Network Management functions	2			T1	Network s.		
5.	Network Management Standards	2			T1	(ii) Network		
6.	Network Management Models: Information, Communication, Organizational and Functional	2			T1	Node Compon ents		
7.	ASN.1, Encoding Structure	1			T1	Citts		
	Total no of periods required: 11 Total no of periods used:							
	Unit-II: SNMPV1 Network 1	Managemen	t and Comn	nunication	Model			
8.	History of SNMP Management	1			T1	(i) Access		
9.	internet organization and standards	2			T1	Simple Gateway		
10.	SNMP Model: Management Information Base	2			T1	Monitori ng		
11.	SNMP Model: Structure of Management Information	2			T1	Protocol (SGMP)		
12.	Organization and Information models	2			T1	(ii)		
13.	Communication Model	1			T1	ICMP Protocol		
14.	Functional models in SNMPV1	1			T1	1 1010001		
Total no of periods required: 11 Total no of periods used:								

	UNIT III: SNMPV28	&SNMPV3	Network Management	
15.	Major changes in SNMPV2	1	T1	(i)SNMP Proxy
16.	System Architecture and SNMPV2 structure of Management Information	2	T1	Server (ii)View- Based Acess Control Model View Tree
17.	SNMPV2 Management Information Base	1	T1	
18.	SNMPV2 protocol	1	T1	
19.	Key features and SNMPV3 Architecture	1	T1	
20.	Applications of SNMPV3	2	T1	
21.	Management Information Base	1	T1	Family
22.	User based security model	1	T1	
23.	Access control	1	T1	
	Total no of periods required:	11	Total no of periods used:	
		V: RMON a	-	I
24.	What is Remote monitoring?	2	T2	
25.	RMON Structure of Management Information	1	T2	(i)DMON
26.	RMON Management Information Base	1	T2	(i)RMON System Utilities
27.	Key features of RMON1	1	T2	for
28.	Key features of RMON2 and its major changes	1	T2	Managem ent (ii)Enhan
29.	ATM Remote monitoring	1	T2	
30.	Case study of RMON with Traffic Management	1	T2	ced Telecom
31.	Why TMN? Operations Systems	1	T2	Operatio ns(eTom)
32.	TMN conceptual model and its Architecture	1	T2	
33.	TMN integrated view	1	T2	
	Total no of periods required:	11	Total no of periods used:	
	1 1		o-based Management	1
34.	Broad band Network and its Services	2	T1	(i)MPLS OAM
35.	ATM Technology and its Network Management	2	T1	Manage ment
36.	MPLS Network Technology	2	T1	(ii)Applic ations of Web- based
37.	Web Interface to SNMP Management, Embedded Web-based Management	2	T1	

	Desktop Management Interface	1			T1	Enterpris
38.						e
						Manage
						ment
39.	Web-based Enterprise Management,	2			T1	
	Java Management extensions					
40.	JIRO platform	1			T1	
Total no of periods required:		12	Total no of periods used:			
	Grand total of periods required:	56	Grand total of periods used:			

Text Books:

- 1. T1: Mani Subramanian, *Network Management: Principles and practice*, Second Edition, Pearson Education, 2011.
- 2. T2: William Stallings , *SNMP*, *SNMPV2*, *SNMPV3*, *RMON 1 and 2*, Third Edition, Pearson Education, 2009

Reference Books:

- 1. Stephen B Morris, *Network Management, MIB'S and MPL'S: Principles, Design and Implementation*, Pearson Education 2008
- 2. Mark Burges, *Principles of Network and System Administration*, Second edition, Wiley Dreamtech, 2008.
- 3. Louis A Steinberg, *Trouble shooting with SNMP and Analyzing MIB'S*, Tata McGraw Hill, 2006.

Signature of the faculty Member

HOD, CSE