



Sub Committee for Curriculum Development

Course Name: Network Planning and Design

(UG/PG): UG

Number of Credits: 2

Level: 2

Learning Objective(s):

This course will provide the insight on network infrastructure planning, designing, and configuration of network devices. On successful completion of this course, student can plan and design network for small business units.

Pedagogy:

- Lectures
- Case Studies
- Hands on practice

Pre-requisites: An understanding of Computer Networking

Course Outline :

Sr. No.	Topics	Hrs
1	Standards and method of network design, Analysis of user requirements	5
2	Network topology design, Infrastructure selection	6
3	IP address planning, subnetting, Naming conventions, IOS service Routing protocol design, Configuring Switch, Router, Gateways	12
4	Network performance Network reliability	3
5	Planning and design of campus network Network Maintenance and Security Troubleshooting Networks	4
	Total	30

Book Recommended

- Duan Shuifu, The Design and planning of Computer Network, ZHEJIANG UNIVERSITY PRESS
- Network Planning and Design Guide (Paperback) by Shaun Hummel

Research Papers/Articles recommended for reading

- NA

Suggested Evaluation Methods:

- Assignments
- ClassTest
- Quiz
- Lab exam

Parallel/Similar courses the existing curriculum:

S.No.	Name of the course	Institute where it was offered

Name of Member	Priti Kulkarni				
Designation	Asst. Professor				
Org. / Inst.	SICSR				
Signature					

Name of the Expert:

Signature:

Date: