



University of Management and Technology

School of Commerce and Accountancy

Quaid e Azam Campus

Course Outline

Course Title: Network Design and Management (CS362)	
Program	ADP(ITM)
Credits Hours	3
Duration	15 Weeks / 30 Sessions
Prerequisites	
Resource Person	
Contact/Email	

Course Description:

This course is planned to gain basic understanding of computer networks through Layered architecture.

Learning Objectives:

A better understanding of each layer of the network architecture.

Teaching-Learning Methodology:

Note: Select methodologies as per nature of the course.

- Lectures
- Recommended Text/Supplementary Texts
- Handouts
- Case Studies
- Skill Development Exercises
- Project Report/Term Paper
- *Any other Teaching Tool.....*

Recommended Text Book:

1. Top-Down Network Design

3rd Edition

By: Priscilla Oppenheimer

Assessment & Evaluation:

Note: Please Specify the Weightage you want to assign to assignments and Final Project/Project presentation/Presentation.

Quizzes	15%	
Assignments		}
Final Project	20%	
Project Presentation/Presentations		
Mid Term	25%	
<u>End Term Exam</u>	<u>40%</u>	
Total:	100	

SEHEDULE OF ACTIVITIES

Note: Please fill the tasks/activities column according to your course plan

Week	Contents/Topics to be Taught	Tasks/Activities
1	Analyzing Business Goals and Constraints	Course Outline Distribution
2	Analyzing Technical Goals and Tradeoff	
3	Characterizing the Existing Internetwork	Quiz 1
4	Characterizing Network Traffic	
5	Designing a Network Topology	Assignment 1
6	Designing Models for Addressing and Naming	Assignment 2
7	Selecting Switching and Routing Protocols	Quiz 2
8	Developing Network Security Strategies	
9-10	Developing Network Management Strategies	Quiz 3
11-12	Selecting Technologies and Devices for Campus Networks	
12-13	Selecting Technologies and Devices for Enterprise Networks	Quiz 4
14-15	Testing Your Network Design Optimizing Your Network Design Documenting Your Network Design	Assignment 4 Presentations (if any)
16	END TERM EXAMINATION	