



University of Management and Technology

School of Commerce and Accountancy

Quaid e Azam Campus

Course Outline

Course Title: Networking Basics	
(CS-333)	
Program	ADP(CS)
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. Computer Networks 5th Edition
By: A Tanenbaum

Reference Book:

1. Data Communications and Networking By: Behrouz A.Forouzan

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	Networks and Networking Device Introduction	Course Outline Distribution
2	Models and Layers	
3-4	Error Detection /Correction	Quiz 1
5	Multiple Access-Media Access Control	
6	Ethernet-802.3 Frame	Assignment 1
7	Link Layer Switching Forwarding and Filtering	Assignment 2
8	IPv4 Addressing	Quiz 2
8	Routing Protocols Algorithms	
9-10	Router and IP Datagram	Quiz 3
11-12	UDP-TCP Transport Layer	
13	IPv6 ICMP	Quiz 4
14-15	DNS,HTTP	Assignment 4 Presentations (if any)
16	END TERM EXAMINATION	