



# University of Management and Technology

School of Commerce and Accountancy

Quaid e Azam Campus

## Course Outline

<b>Course Title: Web Design and Development</b>	
<b>(CS393)</b>	
<b>Program</b>	ADP(CS)
<b>Credits Hours</b>	3
<b>Duration</b>	15 Weeks / 30 Sessions
<b>Prerequisites</b>	Database Systems
<b>Resource Person</b>	
<b>Contact/Email</b>	

### **Course Objectives:**

This course will extend the WWW Technologies and Web Based Applications architecture, development, deployment and management concepts studied in the course of Fundamentals of Information Technology. The instructor is expected to cover an in-depth treatment of the web technology and applications related topics including web standards, protocols, web applications architecture, web services, search engine architectures, content management, web2, and semantic web, to explore some of the technologies used for display, data access and processing, and to give the students practice in integrating these to produce a functional web-based system.

### **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. Web Application Architecture: Principles, protocols and practices 2<sup>nd</sup> Edition  
By: Leon Shklar and Richard Rosen, Wiley

### **Reference Books:**

1. Web Technologies: A Computer Science Perspective 1<sup>st</sup> Edition  
By: Jeffrey C. Jackson, Prentice Hall
2. Web Technologies By: Uttam Kumar Roy

**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>	
<b>Total:</b>	<b>100</b>	

## SEHEDULE OF ACTIVITIES

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

Week	Contents/Topics to be Taught	Tasks/Activities
1	Introduction to Web Applications	Course Outline Distribution
2	Overview of WWW Web Pages Web Sites	
3	Services and Web Servers	Quiz 1
4	Introduction to HTTP HTML and HTML5 Tags	Assignment 1
5	Introduction to Dynamic Web Content	
6	Introduction to CSS and CSS3	Assignment 2
7	Client Side Programming: JavaScript: Basics	Quiz 2
8	<b>MID TERM EXAMINATION</b>	
9	Expressions and Control Flow	
10	Functions, Objects, and Arrays	Quiz 3
11	Accessing CSS from JavaScript and Form Handling	
12	Ajax. Server Side Programing	Quiz 4
13	Programing in PHP. Introduction to MySQL and MySQL Functions.	
14	Cookies, Sessions, and Authentication. Introduction to Ajax	Assignment 4
15	JQuery and Browsers. Designing a website	Presentations (if any)
16	<b>END TERM EXAMINATION</b>	