

Subject: Fundamentals of Web Design – CS212

Class & Semester: Year 2, 3 rd Semester			
Credits: 3 Credits			
Category: Core			
Lab hours : 4 hour-session in a week 180 minutes			
EVALUATION			
S. No	Quizzes and exams	Mark distribution	
1	Mid-term exam	20	
2	Assignments/ Homework/Class Attendance/Group Project	20	
3	Final exam	60	
Reference Book			
S. No	Book Name	Author(s) Name	Publisher Name & Edition
1	Learning web design: A beginner's guide to HTML, CSS, JavaScript, and web graphics.	Robbins, J. N	O'Reilly Media, Inc.
Recommended Books			
S. No	Book Name	Author(s) Name	Publisher Name & Edition
1	HTML & CSS Design and Build Websites	Jon Duckett	John Wiley & Sons, Inc.

Course Description:

The Web Design course examines the process of creating functional, standards-based content for the Internet. This course will provide a basic and advanced understanding of the Internet, Web Protocols, methods and techniques of developing a simple to moderately complex website. Using the current standard web page language, students will be instructed on creating and maintaining a simple and complex web site for different class of devices.

Course Objectives:

After Completion of this class Students will be able to:

- Make static and responsive web pages.
- Design a professional website.

Homework and class activity details

Throughout the semester, students are expected to attend the lecture hours and further more they are asked to do class activities and assignments. As a preparation towards the lecture, the students are expected to read the reading material ahead of time. Each student is expected to answer selected questions relevant to the topic.

Detailed Course Outline:

Week	Contents
1	Introduction
	Web Fundamentals
	The Internet and Web
2	Principles of Application and Transport Layer Protocols (HTTP, FTP, SMTP, IMAP, POP3, DNS)
	Structure Process to develop a Web Application
3	HTML5
	Lists & Special Characters
4	Tables
	Forms
5	CSS3
	Css selector
6	Web Fonts, Text Formatting
	Background
	Padding, Margin and Borders
7	<i>Building Layouts</i>
	<i>Media Queries</i>
	Review
8	Mid Term Exam
9	JavaScript
	Basic syntax
	HTML DOM
10	Events and Event handlers
	Regular Expressions
11	Functions
	Get and post methods
12	JQuery
13	Basic Syntax
14	Introduction to Frameworks
15	Bootstrap3 ,AngularJS (Optional)
16	Final Term Exam