SEN-304 Web Engineering	
Program	BS Software Engineering
Course Type	SE Electives
Credit Hours (Theory)	3-0
Pre-requisite	Programming Fundamentals
Instructor Information	**Name: Engr. M. Asif Shaikh** **Email ID: m.asifshaikh80@gmail.com** **Cell No: 03323247812** **Office/Counseling Hours:15min after class**
Course Description	This course will focus on the Introduction to Internet, The World Wide Web, Internet Services & Internet Security, HTML – URI, LIST, Hyperlinks, HTML – Images, Links, Rules, Address Tag and Text, Web Page Authoring using HTML, Cascading Style Sheets (CSS), PHP, JavaScript Programming etc
Course Objectives (COs)	This course will address web application web engineering issues including requirements, architectural design and documentation, server and client-side development technologies, and service-oriented computing technologies. After completion of this course, students will be able to analyze, architect and design comprehensive systems for the creation, dissemination, storage, retrieval, and use of electronic records and to use some of the development languages, frameworks and reusable services in order to manipulate information on the World Wide Web.
Attendance	Students are required to maintain at least 75% attendance to appear in Exam
Text Book(s)	(1) Web Engineering A Practitioner's Approach, Roger S. Pressman, 1st Ed., McGraw-Hill, 2008. ISBN13: 978-0073523293
Reference Book(s)	(1) Web Design: A Beginner's Guide, Dobbs Media, ISBN13:979-8860580640
Web Links & Other Material	Join Google Class Room using **4pg2pb3**
Teaching Methodology	Lectures, Assignment(s), videos

Course Learning Outcomes (CLOs)			
At the end of the course, the students shall be able to:	**Domain**	**BTLevel**	**PLO**
CLO-1: Understand how web standards impact software development.	C	2	2
CLO-2: Analyze and evaluate the constraints that the web puts on developers	C	4, 5	3
CLO-3: Design and Implement a simple web application.	C	3	5, 7
*BT=Bloom'sTaxonomy,C=Cognitivedomain,P=Psychomotordomain,A=Affectivedomain			

Examination Policy:

Name of Examination	Duration	Frequency per Semester	Marks distribution in %	
Theory				
Quizzes	------	05	10%	
Assignment	------	02	10%	
Mid Term Test	1.5 Hr.	01	20%	**60%**
Participation	------	01	05%	
Project	------	01	15%	
Final				
End Term Exam	3 Hrs.	1	40%	**40%**

TotalMarks **60+40=100**

Scholastic Ethics:

Copying of somebody else's work and/or claiming somebody else's work to be your own work and/or any other similar types of activities during quizzes, examinations and while preparing the assignments and/or project reports are considered to be one or the other forms of cheating. These types of activities are strictly against the scholastic ethics, and are strictly prohibited in the university. Any activity which is against the scholastic ethics might disqualify you from the course and sometimes from the whole academic program. Please be very much careful. Honesty and Discipline are required.

COURSE OUTLINE		
S. No	**Topics& Learning Objectives**	**Readings**
1	Introduction to Web Engineering, Web Application Categories & Characteristics	
2	Requirement Engineering for Web Applications, Web Application Architectures, Design Principles of Web-based Applications	
3	Client-side technologies: HTML	Quiz-1 (CLO-1)
4	Client-side technologies: HTML	
5	Client-side technologies: CSS	Quiz-2 (CLO-2)
6	Client-side technologies: CSS	
7	Revision	Assignment-1 (CLO-1, 2)
8	**Mid Term Exam**	CLO-1,2
9	Client-side technologies: Javascript	
10	Client-side technologies: Javascript	Quiz-3 (CLO-2)
11	Client-side technologies: jQuery and JSON	
12	Client-side technologies: AJAX and AngularJS	
13	Server-side technologies: PHP	Quiz-4,5 (CLO-1,2)
14	Server-side technologies: Node JS	
15	Web Application Security	Assignment–2 (CLO-1, 2,3) Project (CLO-1,2,3)
16	**Final Exam**	CLO-1, 2, 3

Engr. M. AsifShaikh