

## GAU, Faculty of Engineering

<b>Course Unit Title</b>	Introduction to Web Design	
<b>Course Unit Code</b>	CEN407	
<b>Type of Course Unit</b>	Technical Elective, Computer Engineering Students	
<b>Level of Course Unit</b>	4th Year BSc	
<b>National Credits</b>	3	
<b>Number of ECTS Credits Allocated</b>	6 ECTS	
<b>Theoretical (hour/week)</b>	2	
<b>Practice (hour/week)</b>	-	
<b>Laboratory (hour/week)</b>	1	
<b>Year of Study</b>	4	
<b>Semester when the course unit is delivered</b>	7	
<b>Mode of Delivery</b>	Face to Face, Laboratory Experiments	
<b>Language of Instruction</b>	English	
<b>Prerequisites and co-requisites</b>	-	
<b>Recommended Optional Programme Components</b>	It is an advantage to be familiar with World Wide Web and also with basic web programming skills	
<b>Objectives of the Course:</b>		
<ul style="list-style-type: none"> <li>➤ Learn the fundamental principles, theory and concepts of web site design and creation</li> <li>➤ Gain an experience in developing the basic skills and techniques for using variety of coding, design and multimedia techniques</li> <li>➤ Integrate both general design concepts and interface design unique to web</li> <li>➤ Using various media into simple and functioning website</li> </ul>		
<b>Learning Outcomes</b>		
When this course has been completed the students should be able to		Assesment.
1	Identify the basic principles of message design and relevance to the development of web-based instructional activities.	1
2	Design an interactive web-based lessons and supplementary resources that incorporate digital tools	1,3
3	Design creative webpages	1,3,5
4	Recommend website improvements	5
5	Create or adopt website content	1,5
6	Develop and implement usability testing	3
7	Rearrange web page content, integrate customer feedback	3
Assesment Methods: 1. Written Exam, 2. Assignment 3. Project/Report, 4.Presentation, 5 Lab. Work		
<b>Course's Contribution to Program</b>		
		CL
1	Ability to understand and apply knowledge of mathematics, science, and engineering	4
2	Ability to design and conduct experiments as well as to analyze and interpret data	2
3	Ability to work in multidisciplinary teams while exhibiting professional responsibility and ethical conduct	3
4	Ability to apply systems thinking in problem solving and system design	5
5	Knowledge of contemporary issues while continuing to engage in lifelong learning	2
6	Ability to use the techniques, skills and modern engineering tools necessary for engineering practice	3
7	Ability to express their ideas and findings, in written and oral form	2
8	Ability to design and integrate systems, components or processes to meet desired needs within realistic constraints	4
9	Ability to approach engineering problems and effects of their possible solutions within a well structured, ethically responsible and professional manner	3
10	To apply fundamental concepts of software design, database design, data processing and artificial intelligence in the modeling, designing, implementing, testing and deploying software solutions.	5
11	Ability to analyse and design hardware systems by applying the principles of embedded systems, microprocessors, computer networks, distributed systems and data communication.	2
CL: Contribution Level (1: Very Low, 2: Low, 3: Moderate 4: High, 5:Very High)		

Course Contents			
Week			Exams
1		Introduction to Web, internet and URLs	
2		Understanding basic HTML syntax	
3		Creating bulleted, numbered definition lists	
4		Understanding and building tables and table attributes	
5		Frames and Frame attributes	
6		Finding and Using images	
7		Setting up links to a different page, to a mail address, same page	
8		Review	Midterm
9		Setting up links	
10		Finding and using images in page	Quiz
11		Determining the right format of images, adding them to a page, giving a link to an image	
12		Understanding the basic syntax rules of Java Scripts	
13		Creating functions using Java Scripts	
14		Java Script boxes; alert box, confirm box, prompt box	Quiz
15		JavaScript self-examples	Final

### Recommended Sources

**Textbook:** Learning Web Design: A Beginner's Guide to X(HTML), Style Sheets, and Web Graphics, Jennifer Niederst Robbins, O'Reilly (3rd Edition 2007) (Other editions are also useful)

### Assessment

Attendance	5%	
Project	15%	
Midterm Exam	30%	Written Exam
Quiz	10%	Computer-Based
Final Exam	40%	Written Exam
Total	100%	

### ECTS Allocated Based on the Student Workload

Activities	Number	Duration (hour)	Total Workload(hour)
Course duration in class (including the Exam week)	14	3	42
Labs and Tutorials	7	1	7
Assignments	-	-	
Project/Presentation/Report Writing	10	5	50
E-learning Activities	-	-	
Quizzes	2	4	8
Midterm Examination	1	15	15
Final Examination	1	25	25
Self Study	14	1	14
Total Workload			161
Total Workload/30 (h)			5.36
ECTS Credit of the Course			6