

NEAR EAST UNIVERSITY

Faculty of Engineering
Department of Computer Engineering

Course Unit Title	Web Design and Programming		
Course Unit Code	COM481		
Type of Course	Technical Elective		
Level of Course Unit	Bachelor's Degree (First Cycle)		
University Credits	3		
ECTS Credits	6		
Theory (hours/week)	2		
Practice(hours/week)	2		
Laboratory (hours/week)	-		
Prerequisites and co-requisites			
Recommended Optional Programme Components	-		
Year of Study	4		
Semester	Spring		
Language of Instruction	English		
Mode of Delivery	Face to face		
Teaching Methods	Telling/Explaining, Questioning, Demonstrating, Case Study, Discussion, Brainstorming, Oral Presentation, Web Searching		
Course Coordinator	Assist. Prof. Dr Kaan Uyar		
Lecturer (s)	Assist. Prof. Dr Kaan Uyar Office: 16H-19 e-mail: kaan.uyar@neu.edu.tr web: www.uyar.com		
Assistant (s)	-		
Course Description	History of the internet. Basic Color Theory. Web Graphics. Accessibility. HyperText Markup Language (HTML). Cascading Style Sheets (CSS). Page Layout. Design Issues. Javascript. Responsive Web Design.		
Course Objectives	To teach a variety of strategies and tools to create websites.		
	To provide students with a comprehensive mastery of Hyper Text Markup Language (HTML) coding practices.		
	Understanding and practicing the Cascading Style Sheets (CSS), Javascript, and Responsive Web Design.		
	Design and implement an entire website		
Learning Outcomes	When this course has been completed the student should be able to		Assesment Methods
	1	explore, evaluate, discuss and gain experience on web based technologies.	1, 2, 3, 4
	2	Understanding and applying design principles around typography, color, layout, content, structuring, navigation and accessibility issues.	1, 2, 3
	3	Design and develop a web-based application using HTML, CSS and Javascript	1, 2, 3
	Assesment Methods: 1. Written Exam, 2. Assignment 3. Project/Report, 4.Presentation, 5 Lab Work		
Course's Contribution to Program	#	<i>Program Competencies</i>	<i>LC</i>
	1	Ability to understand and apply knowledge of mathematics, science, and engineering	3
	2	An ability to analyze a problem, identify and define the computing	3

		requirements appropriate to its solution		
	3	An ability to apply mathematical foundations, algorithmic principles, and computer engineering techniques in the modelling and design of computer-based systems	3	
	4	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social aspects	5	
	5	Planning and carrying out experiments, as well as to analyze and interpret data	3	
	6	Ability to use the techniques, skills and modern engineering tools necessary for engineering practice	5	
	7	An understanding of professional, ethical, legal, security and social issues and responsibilities that apply to engineering.	5	
	8	An ability to work productively in a multidisciplinary team, in particular to carry out projects involving computer engineering skills.	5	
	9	An ability to communicate effectively with a range of audiences	5	
	10	A recognition of the need for, and an ability to engage in life-long learning	5	
	LC (Level of Contribution): 1.Very Low, 2.Low, 3.Moderate, 4.High, 5.Very High			
Recommended Sources	<i>Textbooks</i>	1	Jennifer Niederst Robbins, "Learning Web Design, A Beginner's Guide to (X)HTML, StyleSheets, and Web Graphics, 4th Edition", O'Reilly, 2012	
		2	Jon Duckett, "Beginning HTML, XHTML, CSS, and JavaScript", Wrox, 2010	
		3	Ben Frain, Responsive Web Design with HTML5 and CSS3, Packt Publishing, 2012	
	<i>Web</i>	www.uyar.com		
Course Contents	<i>Week</i>	<i>Topic/Exam</i>		
	1	Introduction		
	2	HTML Overview, Marking Up Text		
	3	Adding Links and Images		
	4	Table Markup, Forms, more HTML5		
	5	Cascading Style Sheets (CSS), CSS 2.1		
	6	CSS 2.1		
	7	CSS3, Review		
	8	Midterm Exam		
	9	Page Layout		
	10	Design Issues, JavaScript		
	11	Introduction to Responsive Web Design, Media Queries: Supporting Differing Viewports		
	12	Embracing Fluid Layouts, HTML5 for Responsive Designs, CSS3: Selectors, Typography, and Color Modes		
	13	Stunning Aesthetics with CSS3, CSS3 Transitions, Transformations, and Animations		
	14	Forms with HTML5 and CSS3, Solving Cross-browser Responsive Challenges		
	15	Term Project Presentations, Review of the Semester		
16	Final Exam			
Evaluation System	<i>Requirements</i>	<i>Quantity</i>	<i>Method</i>	<i>Percentage</i>
	Attendance/Participation	-	-	-
	Laboratory Experiments	-	-	-
	Application	-	-	-
	Field Work	-	-	-
	Special Course Internship	-	-	-
	Quizzes/Studio Critics	-	-	-

	Homework Assignments	5		10
	Presentation	1	Oral	5
	Project	1		25
	Seminar	-	-	-
	Midterms Exams/ Jury	1	Written Exam	20
	Final Exam/ Jury	1	Written Exam	40
	Total			100
Assessment Criteria	Final grades are determined according to the Near East University Academic Regulations for Undergraduate Studies			
Course Policies	1	Attendance to the course is necessary but not mandatory.		
	2	Late assignments will not be accepted unless an agreement is reached with the lecturer.		
	3	Cheating and plagiarism will not be tolerated. Cheating will be penalized according to the Near East University General Student Discipline Regulations		
	4	Attacks performed against University/lecturer resources are expressly prohibited.		
	5	Students must upload their homework and project to a Web Server.		
ECTS Allocated Based on the Student Workload	<i>Activities</i>	<i>Number</i>	<i>Duration (Hours)</i>	<i>Total Workload</i>
	Course Hours (Including Exam Weeks)	16	4	64
	Application	-	-	-
	Special Course Internship	-	-	-
	Field Work	-	-	-
	Study Hours Out of Class	14	3	42
	Presentation/Seminar Preparation	1	5	5
	Project	1	30	30
	Homework Assignments	5	3	15
	Quizzes	-	-	-
	Laboratory and Tutorials	-	-	-
	Laboratory Preparation	-	-	-
	Laboratory Exams	-	-	-
	Preparation of Midterm Exams/Jury	1	10	10
	Preparation of Final Exams/Jury	1	14	14
	Total Workload (h)			180
Total Workload/30 (h)			6	
ECTS Credits of the Course			6	
Prepared by	Assist. Prof. Dr Kaan Uyar			
Date	July 10, 2014			

