

COURSE PROFILE

Course Name	Code	Semester	Term	Theory+PS+Lab (hour/week)	Local Credits	ECTS
Internet and Web Programming	IT213	Fall	3	2 + 0 + 2	3	5

Prerequisites	None
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Course Language	English
Course Type	Required
Course Lecturer	Assist. Prof. Dr. Cüneyt Sevgi
Course Assistant	Büşra Özdenizci
Course Objectives	This course aims to give IT people the awareness for client-side applications' needs and corresponding key concepts.
Course Learning Outcomes	After successfully completing the course, the student will: <ul style="list-style-type: none">• learn about and use the recommended versions of HTML and CSS to use for client-side web applications,• practice client-side content adaptation techniques;• learn about and use the new JavaScript based frameworks like JQuery,• gain a comprehensive understanding of the purpose and value of interactivity in a web application.
Course Content	This course will introduce the necessary background and the recent technologies and required concepts for programming web applications executing in the client side. It focuses mainly on design and implementation of interactive web pages using different web technologies like HTML, DHTML, CSS, JavaScript. JavaScript is the key web technology behind user interaction. In IT213, we will also look at a variety of best practices including checking for feature support, clean separation of script and HTML, use of JSON and the best way to manipulate the DOM. And, this course also covers the concepts on new JavaScript based frameworks like JQuery.

COURSE CONTENT

Week	Subjects	Related
1	Description of the course through the syllabus Evolution of the Internet and the Web Ethical use of the Web Purpose of web browsers and web servers	
2	Internet protocols Define URIs and domain names Describe XHTML and HTML Create your first web page	
3	Web Page Structural Basics Hyperlink Basics	
4	Web Design Basics Cascading Style Sheets Basics	
5	Image & Multimedia Basics More CSS Basics CSS Page Layout Basics	
6	CSS Page Layout Basics	
7	Table Basics Form Basics Web Publishing Basics Present Projects	
8	Table Basics Form Basics Web Publishing Basics Present Projects	
9	JavaScript	
10	JavaScript	
11	JavaScript	
12	JavaScript	
13	JQuery	
14	JQuery	

Course Textbook	Internet and World Wide Web How To Program, 5/e Deitel & Associates, Deitel & Deitel
Recommended References	The Basics of Web Design: HTML5 & CSS3" (1st Edition) Dr. Terry Morris

Semester Requirements	Number	Percentage of Grade
Attendance/Participation		
Laboratory		15
Application		
Special Course Internship (Work Placement)		
Quizzes/Studio Critics		
Homework Assignments		
Presentation		
Project		25
Seminar/Workshop		
Midterms/Oral Exams		25
Final/Resit Exam		35
Total		100

PERCENTAGE OF SEMESTER WORK		65
PERCENTAGE OF FINAL WORK		35
Total		100

Course Category	Core Courses	X
	Major Area Courses	
	Supportive Courses	
	Media and Management Skills Courses	
	Transferable Skill Courses	

COURSE'S CONTRIBUTION TO PROGRAM

#	Program Qualifications / Outcomes	* Level of Contribution				
		1	2	3	4	5
1	A foundation in mathematics and basic sciences and ability to apply acquired knowledge as they relate to the study and practice of information technology	X				
2	An ability to analyze a problem, identify and define the computing requirements appropriate to its solution, to understand, select and use appropriate technology, tools, standards, protocols, building blocks, and components to solve the problem		X			
3	An ability to propose, analyze, design, develop, test and maintain an information technology system including software solutions, security model, computer and network infrastructure, information systems etc. to solve information technology problems		X			
4	An ability to analyze local and global impact of computing on individuals, organizations and society; and the ability to apply information technology techniques, skills, and tools for regular computing practices as well as to improve effectiveness of current methodologies		X			
5	An ability to effectively communicate in oral and written media with all kinds of related audiences; and prepare documentation for this purpose as required	X				
6	An understanding of professional, ethical, legal, and social issues and responsibilities of information technology profession			X		
7	A taste and breadth of knowledge across several social topics outside the immediate requirements of the information technology profession, and the ability to work within heterogeneous teams to accomplish a common goal including people from the information technology area as well as other disciplines			X		
8	An ability to engage in life-long learning and professional development for personal improvement to follow contemporary information technology issues			X		

*1 Lowest, 2 Low, 3 Average, 4 High, 5 Highest

ECTS ALLOCATED BASED ON STUDENT WORKLOAD BY THE COURSE DESCRIPTION

Activities	Number	Duration (Hours)	Total Workload
Course Hours (Including Exams)	14	3	42
Tutorials			
Laboratory	14	2	28
Application			
Special Course Internship (Work Placement)			
Field Work			
Study Hours Out of Class	14	1	14
Presentations / Seminar			
Project	5	3	15
Preparatory reading	14	1	14
Homework Assignments	3	2	6
Quizzes			
Midterm Exams	1	3	3
Final / Resit Exam	1	3	3
		Total Workload	125

COURSE CATEGORY

ISCED GENERAL AREA CODES	GENERAL AREAS	ISCED BASIC AREA CODES	BASIC EDUCATIONAL AREAS	
1	Education	14	Teacher Training and Educational Sciences	
2	Humanities and Art	21	Art	
2	Humanities and Art	22	Humanities	
3	Social Sciences, Management and Law	31	Social and Behavioural Sciences	
3	Social Sciences, Management and Law	32	Journalism and Informatics	
3	Social Sciences, Management and Law	38	Law	
4	Science	42	Life Sciences	
4	Science	44	Natural Sciences	
4	Science	46	Mathematics and Statistics	
4	Science	48	Computer	60
5	Engineering, Manufacturing and Civil	52	Engineering	40
5	Engineering, Manufacturing and Civil	54	Manufacturing and Processing	
5	Engineering, Manufacturing and Civil	58	Architecture and Structure	
6	Agriculture	62	Agriculture, Forestry, Livestock, Fishery	
6	Agriculture	64	Veterinary	
7	Medicine and Welfare	72	Medical	
7	Medicine and Welfare	76	Social Services	
8	Service	81	Personal Services	
8	Service	84	Transport Services	
8	Service	85	Environment Protection	
8	Service	86	Security Services	