CS322 Web Application Development		II	INFORMATION SYSTEMS ENGINEERING					
G .			Cı	edit Structur	e			
Semester	Lecture	Practio	ce I	aboratory	National Credits	ECTS		
Summer	6	-		-	3	6		
Level of Course	First Cycle	•	Language		English	•		
Type of Course	Compulsory/Elect	ive	Mode of E	elivery	Face to Face			
Prerequisites	ECC006 Webpage	e Design and	Programmi	ng				
Catalog Description	Beginning server programming using PHP, Expressions and Control Flow in PHP, PHP Functions-Objects and Arrays, MySQL, Accessing MySQL Using PHP, Form Handling, Cookies, Sessions and Authentication, JavaScript, JavaScript Functions-Objects and Arrays, AJAX and Web Services.							
Course Objectives	Objective of this course is to provide students with an introduction to server-based Web scripting and dynamic Web application development.							
Course Outcomes	 At the end of the course the student should be able to Plan, develop, debug, and implement interactive server-side web applications. Evaluate and validate web applications for conformance to the latest W3C markup standards. Analyze and evaluate web applications for conformance to section W3C accessibility standards. 							
Course Category by Content	Mathematics and	Basic Scien	ces			10		
(%)	Engineering		30					
	Engineering Desi	gn	50					
	General Education		10					
Textbook and /or	1. Robin Nixon,	Learning PI		& JavaScript:	With jQuery, CSS &	HTML5, 5th		
References	Edition, O'Re	illy Media, 2	2018.		1	ı		
Assessment Criteria					Quantity	Percentage		
	Attendance							
	Quiz							
	Homework		20	50				
	Project		1	50				
	Term Paper							
	Laboratory Work							
	Other							
	Midterm Exams							
	Final Exam							
Student Workload	A	Activities		Quantity	Duration (hour)	Total Workload		
	Course duration in weeks)	n class (inclu	ding Exam	8	6	48		
	Labs and Tutorial	S						
	Homework			20	1.5	30		
	Project/Presentation	on/Report		1	(6w*9h=) 54	54		
	E-learning activities				-			
	Quizzes							
	Midterm Examina	tion Study						
	Final Examination							
	Self-Study	J	6	48				
	Total Workload (hours)	-	180				
	Total Workload /			6				
	ECTS Credit of the Course					6		

Course Plan				
Week	Topics			
1	Introduction to Dynamic Web Content, Setting Up a Development Server, Introduction to PHP			
2	Expressions and Control Flow in PHP, PHP Functions and Objects, PHP Arrays, Practical PHP			
3	Introduction to MySQL, Mastering MySQL, Accessing MySQL Using PHP.			
4	Form Handling; Cookies, Sessions, and Authentication; Exploring JavaScript			
5	Expressions and Control Flow in JavaScript; JavaScript Functions, Objects, and Arrays; JavaScript and PHP Validation and Error Handling			
6	Using Ajax, Accessing CSS from JavaScript, Introduction to jQuery			

7	Introduction to jQuery Mobile, Bringing It All Together
8	Review of the Semester, Presentations

Progr	ram Outcomes	C
i.	Adequate knowledge in mathematics, science and engineering subjects pertaining to the relevant discipline; ability to use theoretical and applied knowledge in these areas in complex engineering problems.	2
ii.	Ability to identify, formulate, and solve complex engineering problems; ability to select and apply proper analysis and modeling methods for this purpose.	3
iii.	Ability to design a complex system, process, device or product under realistic constraints and conditions, in such a way as to meet the desired result; ability to apply modern design methods for this purpose.	5
iv.	Ability to devise, select, and use modern techniques and tools needed for analyzing and solving complex problems encountered in engineering practice; ability to employ information technologies effectively.	5
v.	Ability to design and conduct experiments, gathers data, analyze and interpret results for investigating complex engineering problems or discipline specific research questions.	4
vi.	Ability to work efficiently in intra-disciplinary and multi-disciplinary teams; ability to work individually.	3
vii.	Ability to communicate effectively in Turkish, both orally and in writing; knowledge of a minimum of one foreign language; ability to write effective reports and comprehend written reports, prepare design and production reports, make effective presentations, and give and receive clear and intelligible instructions.	5
viii.	Recognition of the need for lifelong learning; ability to access information, to follow developments in science and technology, and to continue to educate him/herself.	5
ix.	Consciousness to behave according to ethical principles and professional and ethical responsibility; knowledge on standards used in engineering practice.	
х.	Knowledge about business life practices such as project management, risk management, and change management; awareness in entrepreneurship, innovation; knowledge about sustainable development.	3
xi.	Knowledge about the global and social effects of engineering practices on health, environment, and safety, and contemporary issues of the century reflected into the field of engineering; awareness of the legal consequences of engineering solutions.	3

Prepared by: Assist. Prof. Dr. Kaan Uyar

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