

COURSE DESCRIPTION FORM			
Course Code and Name	BM359 INTERNET PROGRAMMING (TECH.ELECT.)		
Course Semester	5		
Catalogue Data of the Course (<i>Course Content</i>)	Programming languages used on the Internet, Internet programming, client server architecture, Web server setup, programming language settings, session management and cookies, web forms.		
Course Textbooks	P. J. Deitel, H. M. Deitel , "Internet & World Wide Web How To Program", 5 th edition, 2011.		
Supplementary Textbooks	HTML and CSS: Design and Build Websites 1st Edition by Jon Duckett, 2011. JavaScript and JQuery: Interactive Front-End Web Development 1st Edition by Jon Duckett, 2014.		
Credit (ECTS)	6		
Prerequisites for the Course (<i>Attendance Requirements</i>)	There is no prerequisite or co-requisite for this course.		
Course Type	Technical Elective		
Language of Instruction	English		
Course Objectives	Server and environment variables and usage, cookie concept and usage areas in internet programming, sending HTTP requests and replies over the internet, connecting to the database via the internet and performing transactions, listing, sorting, changing data in the database and developing a dynamic internet application for education.		
Course Learning Outcomes	<ol style="list-style-type: none"> 1. Designing and developing web applications. 2. Designing rich-internet applications. 		
Instruction Method (<i>Face-to-face, Distance education etc.</i>)	The mode of delivery of this course is Face to face		
Weekly Schedule of the Course	<ol style="list-style-type: none"> 1. Introduction to Web programming 2. Server client architecture 3. Web server 4. Web programming environments 5. HTML 6. CSS 7. CSS 8. JavaScript 9. JavaScript 10. Model-View-Controller (MVC) framework 11. ASP.NET 12. ASP.NET 13. PHP 14. PHP 		
Teaching Activities (<i>The time spent for the activities listed here will determine the amount of credit required</i>)	Weekly theoretical course hours: 3 Reading activities Internet search and library work Midterm and revision for midterm Final exam and revision for final exam		
Assessment Criteria		Number(s)	Weight (%)
	Midterm exam	1	40
	Assignment		
	Application		
	Project	1	20
	Practice		
	Quiz		
	Final exam	1	40
Total	3	100	

Workload of the Course	Activity	Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload					
	Weekly theoretical course hours	14	3	42					
	Weekly practical course hours			0					
	Reading activities	10	5	50					
	Internet search and library work	10	3	30					
	Designing and implementing materials			0					
	Making a report			0					
	Preparing and making presentations			0					
	Midterm and revision for midterm	1	12	12					
	Final exam and revision for final exam	1	16	16					
	Total workload			150					
	Total workload/ 25			6					
	Course Credit (ECTS)			6					
Contribution Level between Course Outcomes and Program Outcomes	No	Program Outcomes			1	2	3	4	5
	1	Knowledge of mathematics, science, basic engineering, computing, and computer engineering; ability to use this knowledge in solving complex engineering problems.					X		
	2	Ability to define, formulate and analyze complex engineering problems using basic science, mathematics and engineering knowledge and considering the UN Sustainable Development Goals relevant to the problems addressed.					X		
	3	Ability to design creative solutions to complex engineering problems; ability to design complex systems, processes, devices, software, algorithms or products to meet current and future requirements, considering realistic constraints and conditions.							X
	4	Ability to select, use and develop appropriate techniques, resources and modern engineering and informatics tools, including estimation and modeling, for the analysis and solution of complex engineering problems while being aware of their limitations.							X
	5	Ability to use research methods to examine complex engineering problems or research topics in computer engineering, including reviewing the literature, designing experiments, conducting experiments, collecting data, analyzing and interpreting results.				X			
	6	Knowledge of the effects of engineering practices and the standards used in these practices on society, health and safety, economy, sustainability and environment within the scope of the UN Sustainable Development Goals; awareness of the consequences of engineering solutions in the fields of information security and law.							
	7	Acting in accordance with engineering professional principles and knowledge on ethical responsibility; awareness of acting impartially, without discrimination on any				X			

		issue, and being inclusive of diversity.					
	8	Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary teams (face-to-face, remote, or hybrid).			X		
	9	Ability to conduct effective verbal and written communication on technical issues in Turkish or English, prepare reports, make effective presentations and prepare software documentation, considering the various differences of the target audience (such as education, language, profession).					
	10	Knowledge of business practices such as project, risk and change management and economic feasibility analysis; awareness of entrepreneurship and innovation.		X			
	11	Lifelong learning skill that includes the ability to learn independently and continuously, to adapt to new and developing scientific practices and technologies, and to think inquisitively about technological changes.			X		
Lecturer(s) and Contact Information	Assoc. Prof. Dr. Oktay YILDIZ oyildiz@gazi.edu.tr						