

COURSE DESCRIPTION FORM	
Course Code and Name	CENG367 SCRIPTING LANGUAGES (TECH.ELECT.)
Course Semester	5
Catalogue Data of the Course (<i>Course Content</i>)	The course content for this HTML, CSS, JS, web client and server programming course encompasses web development fundamentals, including HTML, CSS, and JavaScript, and delves into server-side programming, database integration, and client-server communication to create dynamic and responsive web applications.
Course Textbooks	Learning Web Design: A Beginner's Guide to HTML, CSS, JavaScript, and Web Graphics 5th Edition by Jennifer Robbins, O'Reilly Media; 5th edition (June 19, 2018)
Supplementary Textbooks	-
Credit (ECTS)	6
Prerequisites for the Course (<i>Attendance Requirements</i>)	There is no prerequisite or co-requisite for this course
Course Type	Elective
Language of Instruction	English
Course Objectives	The objectives of a scripting languages course encompass a range of skills and knowledge that students aim to acquire. Throughout the course, students will work towards developing a deep understanding of scripting languages, mastering programming fundamentals, and gaining proficiency in scripting language syntax. They will explore libraries and modules to enhance their script development capabilities and learn how to leverage scripting languages for automating tasks. The course will also equip students with web development skills, enabling them to work with both client-side and server-side scripting.
Course Learning Outcomes	<ol style="list-style-type: none"> 1. Front-End Proficiency: Students will master HTML, CSS, and JavaScript for creating visually appealing and interactive web pages. 2. Server-Side Development: Students will learn server-side programming languages and database integration for dynamic web applications. 3. Responsive Design: Students will design responsive web layouts that adapt to different screen sizes and devices. 4. Security and Performance: Students will implement security measures and optimize web applications for speed and reliability. 5. Project Completion: Students will complete practical web development projects, demonstrating their ability to build functional and user-friendly websites.
Instruction Method (<i>Face-to-face, Distance education etc.</i>)	<i>Face-to-face</i>
Weekly Schedule of the Course	Week 1: Introduction to Scripting Languages Week 2: Programming Fundamentals Week 3: Scripting Language Syntax Week-4: Working with Libraries and Modules Week-5: Automation and Web Development (Client-side) Week-6: Data Manipulation Week-7: MidTerm Week-8: Script Optimization Week-9: Server-side Web Development Week-10: Server-side Web Development Week-11: Version Control and Collaboration Week-12: Error Handling and Debugging Week-13: Database Handling Week-14: OWASP Week-15: Advanced Topics
Teaching Activities (<i>The time spent for the</i>)	Weekly theoretical course hours Reading activities

<i>activities listed here will determine the amount of credit required)</i>	Internet search and library work Designing and implementing materials Preparing and making presentations Midterm and revision for midterm Final exam and revision for final exam								
Assessment Criteria		Number(s)	Weight (%)						
	Midterm exam	1	30						
	Assignment								
	Application								
	Project	1	30						
	Practice								
	Quiz								
	Final exam	1	40						
Total	3								
Workload of the Course	Activity		Number of Weeks	Duration (Weekly Hour)	End of Semester Total Workload				
	Weekly theoretical course hours		14	3	45				
	Weekly practical course hours								
	Reading activities		14	2	28				
	Internet search and library work		14	3	42				
	Designing and implementing materials		3	8	24				
	Making a report								
	Preparing and making presentations		1	7	7				
	Midterm and revision for midterm		1	2	2				
	Final exam and revision for final exam		1	2	2				
	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.							
	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.							
	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.					
	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 issue, and being inclusive of diversity.			x		
	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.					
	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.					
Lecturer(s) and Contact Information	Lecturer's First/Last Name: Assist. Prof. Dr. Uraz Yavanoğlu E-mail address: uraz@gazi.edu.tr						