	CENG363 WEB BASED TE	ECHNOLOGI						
Course Semester 5		CENG363 WEB BASED TECHNOLOGIES (TECH.ELECT.)						
	5							
	Basic concepts, Internet, client/server technologies, current web technologies, internet protocols							
Course Teythooks	Emerging Internet-Based Technologies, 2019, CRC press. Web-Based Learning and Teaching Technologies: Opportunities and Challenges, Anil Aggarwal, Information Science Reference, 2000.							
Supplementary Textbooks V	Web Technology: A Developer's Perspective, PHI Learning, 2014.							
Credit (ECTS) 6	6							
Prerequisites for the								
Requirements)	There is no prerequisite or co-requisite for this course.							
Course Type	Technical Elective							
Language of Instruction E	English							
	To introduce the basic concepts and applications of the structure of web-based technologies							
Course Learning Outcomes	<ol> <li>Performs advanced database operations.</li> <li>Implements Internet protocols.</li> <li>Develops web-based applications.</li> </ol>							
Instruction Method	2. 21.110ps neo cusea approunding.							
(Face-to-face, Distance ducation etc.)	This course will only face-to-face training.							
Weekly Schedule of the Course F	Week 1: Internet and client/server Technologies Week 2: Internet information systems Week 3: Internet information systems Week 4: Web browsers and servers Week 5: Web browsers and servers Week 6: Client and server side languages Week 7: Web databases and XML Week 8: Web databases and XML Week 9: Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc. Week 10: Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc. Week 11: Data Networks Week 12: OSI layers Week 13: Wireless and mobile Networks							
	Week 14: Wireless and mobile Networks Weekly theoretical course hours: 3							
(The time spent for the	Reading activities							
	Internet search and library work							
3	Midterm and revision for midterm Final exam and revision for final exam							
		Number(s)	Weight (%)					
	Midterm exam	1	30					
Assessment Criteria	Assignment	5	30					
	Application Project	0	0					
	Project Practice	3						
	Quiz	0	0					

	Final exam 1 40												
	Total					100							
	Activity		Number of Weeks	(W	ration eekly our)	,   J	End of Semeste Total Workload						
	Weekly theoretical course hours			14		3		42					
	Weekly practical course hours			0		0		0					
	Reading activities			14		3		42					
	Internet search and library work			14		3		42					
Workload of the Course	Designing and implementing materials			0		0		0					
	Making a report		0		0		0						
	Preparing and making presentations		0		0		0						
	Midterm and revision for midterm		1		12		12						
	Final exam and revision for final exam		inal exam	1		12		12					
	Total workload							150					
	Total workload/ 25				6								
	Course Credit (ECTS)								6				
Contribution Level	No		Program Ou			1	2	3	4	5			
between Course Outcomes		_		cs, science, basic									
and Program Outcomes	1	engineering, computing, and computer		in			x						
		engineering; ability to use this knowledge in solving complex engineering problems.			111								
		Ability to def	ine, formula	ite and analyze									
		complex engineering problems using basic science, mathematics and engineering knowledge and considering the UN Sustainable Development Goals relevant to			;								
	2						X						
					,								
		the problems addressed.											
		Ability to des	ign creative										
				blems; ability to									
	3			stems, processes, devices,				x					
			ware, algorithms or products to meet ent and future requirements, considering										
		realistic constraints and conditions.			-8								
				develop appropri	ate								
			techniques, resources and modern engineering and informatics tools, including										
	4	estimation and modeling, for solution of complex engineer						x					
		while being aware of their limitations.											
				ethods to examin									
		complex engineering problems or research topics in computer engineering, including											
	5	reviewing the literature, designing					x						
		experiments, conducting experiments,											
		collecting dat		and interpreting									
		results.	C.1 CC .	· · ·									
				of engineering ls used in these									
	6	practices on society, health and safety, economy, sustainability and environment											
		within the scope of the UN Sustainable											
		Development Goals; awareness of the		ha									
		consequences of engineering solutions in the fields of information security and law.		ne									
				h engineering									
		professional p	orinciples ar	d knowledge on									
	7	ethical responsibility; awareness of acting											
		impartially, without discrimination on any issue, and being inclusive of diversity.											
		issue, and bei	ng inclusive	or arversity.									

Lecturer(s) and Contact Information		Bilgehan Arslan an@gazi.edu.tr			
	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		
	10	Knowledge of business practices such as project, risk and change management and economic feasibility analysis; awareness of entrepreneurship and innovation.			
	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).			
	8	Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary teams (face-to-face, remote, or hybrid).			