COURSE DESCRIPTION FORM								
Course Code and Name	CENG363 WEB BASED TECHNOLOGIES (TECH.ELECT.)							
Course Semester	5							
Catalogue Data of the Course (Course Content)	Basic concepts, Internet, client/server technologies, current web technologies, internet protocols							
Course Textbooks	Emerging Internet-Based Technologies, 2019, CRC press. Web-Based Learning and Teaching Technologies: Opportunities and Challenges, Anil Aggarwal, Information Science Reference, 2000.							
Supplementary Textbooks	Web Technology: A Developer's Perspective, PHI Learning, 2014.							
Credit (ECTS)	6							
Prerequisites for the Course (Attendance Requirements)	There is no prerequisite or co-requisite for this course.							
Course Type	Technical Elective							
Language of Instruction	English							
Course Objectives	To introduce the basic concepts and applications of the structure of web-based technologies							
Course Learning Outcomes	 Performs advanced database operations. Implements Internet protocols. Develops web-based applications. 							
Instruction Method	5. Develops neo ousea appreasions.							
(Face-to-face, Distance education etc.)	This course will only face-to-face training.							
Weekly Schedule of the Course	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							
Teaching Activities	Week 14: Wireless and mobile Networks Weekly theoretical course hours: 3							
(The time spent for the	Reading activities							
activities listed here will determine the amount of	Internet search and library work Midterm and revision for midterm							
credit required)	Final exam and revision for							
eream regim ear		Number(s)	Weight (%)					
	Midterm exam Assignment	5	30					
Assessment Criteria	Application	0	0					
	Project	0	0					
	Practice	0	0					
	Quiz	0	0					

	Final exam 1 40											
	Total					100						
	Activity		Number of Weeks	(W	ration eekly lour)	,]]	End of Semester Total Workload					
Workload of the Course	Weekly theoretical course hours		14		3		42					
	Weekly practical course hours		0		0		0					
	Reading activities		14		3		42					
	Internet sear	ch and library wo	ork	14		3		42				
	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 a	nd revision for f	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.									
		Ability to def	ine, formula	ite and analyze								
				blems using basic	:							
	2	science, mathematics and engineering knowledge and considering the UN Sustainable Development Goals relevant to					X					
					,							
		the problems addressed.										
		Ability to des	ign creative									
				blems; ability to								
	3	design complex systems, processes, devices, software, algorithms or products to meet current and future requirements, considering			es,			x				
					าฮ							
		realistic constraints and conditions.			-5							
				develop appropri	ate	ite						
			hniques, resources and modern gineering and informatics tools, including									
	4	estimation and modeling						X				
		solution of complex engineering problems										
		while being aware of their limitations.										
			Ability to use research methods to examine									
		complex engineering problems or research topics in computer engineering, including		l								
	5	reviewing the literature, designing				х						
		experiments, conducting experiments,										
			a, analyzing	and interpreting								
		results.	C.1	· C · · · · · · · · · · · · · · · ·				-				
				of engineering								
		practices and the standards used in these practices on society, health and safety,										
	6	economy, sustainability a		nd environment								
		within the scope of the UN Sustainable Development Goals; awareness of the										
				reness of the ring solutions in t	he							
		fields of infor			110							
				h engineering								
		professional principles and know		d knowledge on								
	7	ethical responsibility; awareness of acting										
		impartially, without discrimination on any issue, and being inclusive of diversity.										
		issue, and bei	ng menusive	or diversity.				1				

	8	Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary teams (face-to-face, remote, or hybrid).		
	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.	х	
Lecturer(s) and Contact Information		Bilgehan Arslan n@gazi.edu.tr		