Course Description Form	
Course Code and Name	CENG363 WEB BASED TECHNOLOGIES (TECH.ELECT.)
Course Semester	5
Catalog Content	Internet and client/server Technologies, Internet information systems, Web browsers and servers, Client and server side languages, Web databases and XML, Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc., Data Networks, OSI Layers, Wireless and mobile Networks
Textbook	Web-Based Learning and Teaching Technologies: Opportunities and Challenges, Anil Aggarwal, Information Science Reference, 2000.
Supplementary Textbooks	- Internet and World Wide Web: How to Program 5/E, Deitel, P. Deitel, H., & Deitel, A., Pearson Education, 2012. - Web Application Architecture Principles, protocols and practices, Leon Shklar, Richard Rosen, John Wiley & Sons Ltd, 2003. - Web Technologies: A Computer Science Perspective 1st Edition, by Jeffrey C. Jackson, Pearson, 2006
Credit	6
Prerequisites of the Course (*Attendance Requirements*)	-
Type of the Course	Technical Elective
Instruction Language	English
Course Objectives	To provide knowledge about Internet and client/server Technologies, Internet information systems, Web browsers and servers, Client and server side languages, Web databases and XML, Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc., Data Networks, OSI Layers, Wireless and mobile Networks
Course Learning Outcomes	Students who can successfully complete this lesson have a background knowledge on Internet and client/server Technologies, Internet information systems, Web browsers and servers, Client and server side languages, Web databases and XML, Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc., Data Networks, OSI Layers, Wireless and mobile Networks
Instruction Methods	The mode of delivery of this course is face to face
Weekly Schedule	1. Week: Internet and client/server Technologies 2. Week: Internet information systems 3. Week: Internet information systems 4. Week: Web browsers and servers 5. Week: Web browsers and servers 6. Week: Client and server side languages 7. Week: Web databases and XML 8. Week: Web databases and XML 9. Week: Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc. 10. Week: Basic Internet applications and protocols: DNS, HTTP, POP3, SMTP, FTP, P2P, IRC etc. 11. Week: Data Networks 12. Week: OSI layers 13. Week: Wireless and mobile Networks 14. Week: Wireless and mobile Networks
Teaching and Learning Methods (*These are examples. Please fill which activities you use in the course*)	Weekly Theoretical Course Hours: 3 Reading Tasks Studies Midterm Exam and Preparation for Midterm Exam Final Exam and Preparation for Final Exam

		Numbers	Total Weighting (%)
Assessment Criteria	Midterm Exams	1	30
	Assignment	5	50
	Application		
	Projects		
	Practice		
	Quiz		
	Percent of In-term Studies (%)		60
	Percentage of Final Exam to Total Score (%)		40
	Attendance		

	Activity	Total Number of Weeks	Duration (weekly hour)	Total Period Work Load
Workload	Weekly Theoretical Course Hours	14	3	42
	Weekly Tutorial Hours	0	0	0
	Reading Tasks	10	4	40
	Studies	10	4	40
	Material Design and Implementation	0	0	0
	Report Preparing	0	0	0
	Preparing a Presentation	0	0	0
	Presentations	0	0	0
	Midterm Exam and Preparation for Midterm Exam	1	13	13
	Final Exam and Preparation for Final Exam	1	15	15
	Other (should be emphasized)	0	0	0
	Total Workload			150
	Total Workload / 25			6
	Course Credit (ECTS)			6

No	Program Outcomes	1	2	3	4	5
Contribution Level Between Course Learning Outcomes and Program Outcomes						
1	Sufficient knowledge on mathematics, science and computer engineering; ability to apply theoretical and practical knowledge in these areas to model and solve engineering problems					X
2	Ability to identify, define, formulate and solve complex engineering problems; ability to choose and apply appropriate analysis and modelling methods for these purposes				X	
3	Ability to design a complex system, process, device, software, algorithm, or product under realistic constraints and circumstances to meet certain requirements; ability to apply modern design techniques for this purpose					X
4	Ability to choose, develop and use modern techniques and tools necessary for engineering applications; ability to effectively use computing technologies					X

#		1	2	3	4	5
5	Ability to design and implement systems or experiments to solve engineering problems, collect and interpret data to evaluate and analyze the results of solutions					X
6	Ability to work effectively in intradisciplinary and interdisciplinary teams or individually				X	
7	Ability to efficiently prepare, evaluate and interpret reports					X
8	Ability to make presentations and conduct effective verbal and written communication in Turkish and English				X	
9	Awareness of the necessity of lifelong learning; ability to access information, follow scientific and technological developments; ability to perpetually renew oneself				X	
10	Awareness of professional and ethical responsibility, ability to act in accordance with ethical principles				X	
11	Ability to apply knowledge on project management, risk management and change management			X		
12	Awareness of entrepreneurship and innovation, ability to design and build	X				
13	Ability to devise local and global solutions to contemporary issues considering the effects of engineering applications on health, environment and security		X			
14	Awareness of the legal consequences of engineering solutions		X			
15	Ability to apply knowledge on software development process and documentation rules	X				
16	Knowledge on standards used in engineering applications		X			
17	Awareness of occupational health and security, information security and privacy	X				

The Course's Lecturer(s) and Contact Information	Prof. Dr. M. Ali AKCAYOL akcayol@gazi.edu.tr