

COURSE DESCRIPTION FORM			
Course Code and Name	CENG357 FUNDAMENTALS OF ELECTRONIC COMMERCE (TECH. ELECT.)		
Course Semester	5		
Catalogue Data of the Course (Course Content)	Learning e-commerce models and infrastructure, developing e-commerce applications, understanding the concept, criteria and threats of security in electronic commerce.		
Course Textbooks	The Complete E-Commerce Book Design, 2017, CRC Press. E-commerce 2018 (14th Edition), Pearson, 2018.		
Supplementary Textbooks	Electronic Commerce 11th Edition by Gary Schneider, 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	Introduce the basic concepts and methods of electronic commerce at an introductory level		
Course Learning Outcomes	<ol style="list-style-type: none"> 1. Explains the principles of electronic commerce. 2. Develops e-commerce software and designs e-commerce applications. 		
Instruction Method (Face-to-face, Distance education etc.)	This course will only face-to-face training.		
Weekly Schedule of the Course	Week 1: Electronic trade principles Week 2: Electronic trade Applications Models Week 3: Operational data movement systems Week 4: Security provisioning protocols Week 5: Secure applications Week 6: SIM and magnetic cards Week 7: Distributed control systems documentation Week 8: Inter-institutional transactions Week 9: E-commerce software design, development and management Week 10: E-commerce software design, development and management Week 11: Heterogeneous electronic commerce transactions Week 12: Heterogeneous electronic commerce transactions Week 13: Term Project presentations Week 14: Term Project presentations		
Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)	Weekly theoretical course hours: 3 Reading activities Internet search and library work Making a report Midterm and revision for midterm Final exam and revision for final exam		
Assessment Criteria		Number(s)	Weight (%)
	Midterm exam	1	30
	Assignment	2	10
	Application	0	0
	Project	1	20
	Practice	0	0
	Quiz	0	0
	Final exam	1	40
	Total	5	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	0	0
	Reading activities	14	3	42
	Internet search and library work	14	2	28
	Designing and implementing materials	0	0	0
	Making a report	2	7	14
	Preparing and making presentations	0	0	0
	Midterm and revision for midterm	1	12	12
	Final exam and revision for final exam	1	12	12
	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 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).					
	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.		x			
Lecturer(s) and Contact Information	Lecturer Dr. Bilgehan Arslan bilgehanarslan@gazi.edu.tr						