

COURSE DESCRIPTION FORM			
<b>Course Code and Name</b>	CENG487 MANAGEMENT INFORMATION SYSTEMS (TECH.ELECT.)		
<b>Course Semester</b>	7		
<b>Catalogue Data of the Course (Course Content)</b>	Information systems, Computer Based Systems, Database Design and Management, Internet and Electronic Commerce, Information Systems Security and Ethics		
<b>Course Textbooks</b>	Management Information System, Pearson, 2018.		
<b>Supplementary Textbooks</b>	Yönetim Bilişim Sistemleri Teorileri, Efe Akademi, 2021		
<b>Credit (ECTS)</b>	6		
<b>Prerequisites for the Course (Attendance Requirements)</b>	There is no prerequisite or co-requisite for this course.		
<b>Course Type</b>	Technical Elective		
<b>Language of Instruction</b>	English		
<b>Course Objectives</b>	<ol style="list-style-type: none"> <li>1. To gain the ability to define, formulate and solve engineering problems using information systems.</li> <li>2. To use informatics techniques and modern tools necessary for engineering applications.</li> <li>3. Defining, formulating and solving engineering problems using information systems.</li> </ol>		
<b>Course Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Recognizing the basic components of information systems and understanding technology and management elements under the title of information systems, analyzing different problems when necessary.</li> <li>2. Understanding the processes of designing, developing and deploying information systems suitable for the purposes of businesses</li> <li>3. Analyzing what kind of information system solution is required for a given problem.</li> </ol>		
<b>Instruction Method (Face-to-face, Distance education etc.)</b>	This course will only face-to-face training.		
<b>Weekly Schedule of the Course</b>	Week 1: Introduction to Information Systems Week 2: Computer Based Systems Week 3: Computer Based Systems Week 4: Computer Based BS Week 5: Tools Used in the Development of Information Systems Week 6: Database Design and Management Week 7: Information Systems Development Approaches Week 8: Communication and Network Systems Week 9: Internet and Electronic Commerce Week 10: Modern Hardware Platform Trends Week 11: Information Systems Security and Ethics Week 12: Information Systems Security and Ethics Week 13: SQL Week 14: Information System Project Discussion		
<b>Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)</b>	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		
<b>Assessment Criteria</b>		<b>Number(s)</b>	<b>Weight (%)</b>
	Midterm exam	1	30
	Assignment	0	0

	Application	0	0				
	Project	1	30				
	Practice	0	0				
	Quiz	0	0				
	Final exam	1	40				
	<b>Total</b>	<b>3</b>	<b>100</b>				
<b>Workload of the Course</b>	<b>Activity</b>	<b>Number of Weeks</b>	<b>Duration (Weekly Hour)</b>	<b>End of Semester Total Workload</b>			
	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			
<b>Contribution Level between Course Outcomes and Program Outcomes</b>	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			
<b>Lecturer(s) and Contact Information</b>	Lecturer Dr. Bilgehan Arslan bilgehanarslan@gazi.edu.tr						