	COURSE DESCRIPT	TION FORM								
Course Code and Name	BM314 SOFTWARE ENGINEE	RING								
Course Semester	6									
Catalogue Data of the Course (Course Content)	Software Engineering Method Requirements, Software Modellin User Interface Design, Software Quality Assurance, Software Proc	ng, Prototypin e Testing, So cess Improven	g, Software Design an ftware Project Manag nent	d Representation, gement, Software						
Course Textbooks	Sommerville, I. (2016). Softw Publications.	Sommerville, I. (2016). Software Engineering (10th ed.). Pearson Education Publications. Pressman, R.S. & Maxim, B.R. (2015). Software Engineering: A Practioner's								
Supplementary Textbooks	Pressman, R.S. & Maxim, B.R. (2 Approach (8th ed.). McGraw Hill Mazzara, M., & Meyer, B. (Eds.) Springer International Publishing	. (2017). Prese								
Credit (ECTS)	6									
Prerequisites for the Course (Attendance Requirements)	Prerequisites course: No Co-requisites: Obligatory course	attendance 709	%							
Course Type	Compulsory									
Language of Instruction	Turkish									
Course Objectives	Understanding the process of dev specifications, design, coding, tes Understanding software engineer	ting and main	tenance phases s, methods, and notation							
Course Learning Outcomes	 large-scale software throughout the software development process Defines the basic concepts in software engineering. Applies software development processes and software development models Expresses system requirements and types of system requirements Compares different methods applied in software development. 									
Instruction Method (Face-to-face, Distance education etc.)	The mode of delivery of this cou		-							
Weekly Schedule of the Course	 Week Introduction Week Software Engineering I Week Software Development Week Software Development Week Software Requirements Week Software Modelling Week Prototyping Week Software Design and R Week User Interface Design Week User Interface Design Week Software Testing Week Software Quality Assu Week Software Process Improve 	Processes Processes epresentation agement urance								
Teaching Activities (The time spent for the activities listed here will determine the amount of credit required)	Weekly theoretical course hours: Designing and implementing ma Making a report Preparing and making presentation Midterm and revision for midterm Final exam and revision for final	terials ons n								
Assessment Criteria	Midterm exam Assignment Application	Number(s) 1	Weight (%) 30							

	Proje	ct		1	30							
	Pract			_								
	Quiz	Quiz										
	Final exam			1	40							
	Total			3	100							
			Activity		Number of Weeks	r Duration (Weekly Hour)		End of Semester Total Workload			r	
		Weekly theoretical course hours			14	3		42				
					0	0		0				
		Reading a			0	0			0			
					0	0	0					
		Internet search and library work Designing and implementing materials			-				-			
Workload of the Course					3	15 4			45			
		Making a report			4	5 20			20			
		Preparing and making presentations			1	4	4					
		Midterm and revision for midterm			1	19	19					
			n and revision for		1							
		exam			1	20		20				
		Total workload					150			0		
		Total work	kload/ 25				6					
		Course Credit (ECTS)						6				
Contribution Level		No	, <i>,</i> ,	rogram Çık	tıları		1	2	3	4	5	
between Course Outcomes and Program Outcomes	-	1 Knowledge of mathematic 1 engineering, computing, a engineering; ability to use solving complex engineer 2 Ability to define, formula 2 science, mathematics and knowledge and considerir Sustainable Development the problems addressed. the problems addressed.			nd comput this knowl ing probler	er ledge in ns.				x		
					lems using engineerin g the UN	basic g				x		
	_	3	Ability to desi complex engin design comple software, algor current and fut realistic constr	gn creative eering prob x systems, p ithms or pr ure requirer	lems; abili processes, o oducts to n nents, cons	ty to levices, neet					x	
	-	4	Ability to select appropriate tect modern engine including estim analysis and so engineering pr their limitation	chniques, re- cering and in- nation and r plution of co oblems whi	sources and formatics nodeling, f omplex	tools, or the				x		
	-	5	Ability to use a complex engine topics in complex engine reviewing the experiments, collecting data results.	eering prob uter engine literature, de onducting e , analyzing	lems or res ering, inclu esigning xperiments and interp	search Iding s, reting			x			
		0	practices and t									

	7 8 9 10	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. 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. Ability to work effectively individually and as a team member or leader in intradisciplinary and multidisciplinary teams (face-to-face, remote, or hybrid). 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). Knowledge of business practices such as project, risk and change management and		x	x
	10			x	
	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	Dr. Hacer K can@gazi.eo				