Course Description Form						
Course Code and Name	CENG361 OBJECT ORIENTED ANALYSIS AND DESIGN					
Course code and Name	(TECH.ELECT.)					
Course Semester	5					
	Comparative analysis of software development methods, Design					
Catalog Content	criteria for the implementation of Object-Oriented Programming,					
	UML					
Textbook	Object-Oriented Methods: Principles and Practice (3rd Edition), Ian					
Teathook	Graham, Addison-Wesley Professional, 2000					
Supplementary Textbooks	- Information Modeling: An Object-Oriented Approach 1st Edition					
Supplementary Textbooks	by Haim Kilov (Author), James Ross (Author), Prentice Hall; 1994					
	- Object-Oriented Analysis and Design with Applications (3rd					
	Edition), Grady Booch et al., 2004.					
Credit	6					
Prerequisites of the Course (Attendance Requirements)	There is no prerequisite or co-requisite for this course.					
Type of the Course	Elective					
Instruction Language	English					
Course Objectives						
	1. Classical and modern methods					
	2. Comparative analysis of software development methods3. Connection with the object					
Course Learning Outcomes	4. Coad-Yourdon and Rumbaugh object					
Instruction Methods	The mode of delivery of this course is face to face.					
	1.Week: Classical and modern methods					
Weekly Schedule	2. Week: Comparative analysis of software development methods 3. Week: Connection with the object					
Weekly Schedule	4. Week: Connection with the object					
	5.Week: Coad-Yourdon and Rumbaugh object-oriented analysis and					
	design					
	6.Week: Coad-Yourdon and Rumbaugh object-oriented analysis and design					
	7. Week: Design criteria for the implementation of Object-Oriented					
	Programming					
	8.Week: Design criteria for the implementation of Object-Oriented Programming					
	9.Week: Introduction to UML					
	10.Week: Introduction to UML					
	11. Week: Part-based development and design					
	12.Week: Part-based development and design 13.Week: Applications					
	14. Week: Applications					
	14. Week: Applications					

Teaching and Learning Methods (These are examples. Please fill which activities you use in the course)	Weekly theoretical course he Weekly tutorial hours Reading Activities Internet browsing, library we materials Report preparing Preparing a Presentation Presentations Preparation of Midterm and Final Exam and Preparation	ork Designing Midterm Exan	1	ing
		Numbers	Total Weighting (%)	
	Midterm Exams	1	30	
	Assignment	5	30	
	Application			
Assessment Criteria	Projects			
Assessment Criteria	Practice			
	Quiz			
	Percent of In-term		60	
	Studies (%)			
	Percentage of Final		40	
	Exam to Total Score (%)			
	Attendance			

		Activity		Duration (weekly hour)				Per Wo	ork	
		kly Theoretical Course	14	3			4	42		
	Hour	s dy Tutorial Hours					0			
		ing Tasks	12	4			4			
	Studi		10	3			3	30		
		rial Design and					0	0		
	Implementation						0			
Workload	Report Preparing Preparing a Presentation						0			
		Presentations					0			
		erm Exam and	1	15			1	5		
		aration for Midterm								
	Exam Final	Exam and Preparation	1	15			1	5		
	for Fi	inal Exam								
		r (should be assized)					0			
		Workload					1	50		
	Total	Workload / 25					6			
	Cours	se Credit (ECTS)					6			
	No	Program Outcomes			1	2	3	4	5	
	1	Sufficient knowledge on	mathematics,	science				 	X	
		and computer engineering								
		theoretical and practical k	_							
Contribution Level Between Course Learning	areas to model and solve 2 Ability to identify, defir						-	X	-	
Outcomes and Program Outcomes		complex engineering prol	blems; ability	to						
		choose and apply appropr	•	and						
	modelling methods for Ability to design a com			ncess			_	X	-	
		device, software, algorith								
		realistic constraints and circumstances to meet								
		certain requirements; abil design techniques for this		odern						
	4	Ability to choose, develo		lern				+	X	
	techniques and tools ne			neering						
		applications; ability to efficient computing technologies	fectively use							
	5	Ability to design and imp	lement systen	ns or			X	+	-	
		experiments to solve engi	neering probl	ems,						
		collect and interpret data		d						
	6	analyze the results of solu Ability to work effectivel		plinary			X	1	1	
	6	and interdisciplinary tean	-				-			
	7	Ability to efficiently prep	are, evaluate	and				X	1	
		interpret reports						igspace		
	8	Ability to make presentat effective verbal and writt		l l					X	
		Turkish and English	on communic							
	9	Awareness of the necessi					X			
		learning; ability to access								
		scientific and technologic ability to perpetually rene	_	nts;						
	10	Awareness of professiona						X	+	
		responsibility, ability to a		ice with						
		ethical principles					<u> </u>	L		

	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 sustainable systems		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		Computer Engineering Department Chair bmbb@gazi.edu.tr				