Course Description Form							
Course Code and Name	CENG213 OBJECT ORIENTED PROGRAMMING						
Course Semester	3						
Catalog Content	Introduction to OOP, Java Fundamentals, classes and objects, constructors, methods, inheritance, abstract classes, interfaces, polymorphism, static fields and methods, GUI design and implementation						
Textbook	Java: How to Program, 9th Edition, by Paul Deitel, Harvey Deitel, 2011.						
Supplementary Textbooks	An Introduction to Object-Oriented Programming (3rd Edition), Timothy Budd, 2001. Object-Oriented Programming in C++ (4th Edition), Robert Lafore, 2001.						
C 14	6						
Prerequisites of the Course (Attendance Requirements)	There is no prerequisite or co-requisite for this course.						
Type of the Course	Compulsory						
Instruction Language	English						
Course Objectives	Introducing OOP concepts and thought process. Applying OOP concepts and design principles using Java.						
Course Learning Outcomes	Ability to solve engineering problems using object oriented programs. Ability to develop extensible and maintainable applications						
Instruction Methods	The mode of delivery of this course is face to face.						
Weekly Schedule	1. Hafta Introduction to OOP 2. Hafta Introduction to OOP 3. Hafta Java fundamentals 4. Hafta Java fundamentals 5. Hafta Classes and objects 6. Hafta Classes and objects 7. Hafta Constructors 8. Hafta Methods 9. Hafta Inheritance 10. Hafta Abstract classes and interfaces 11. Hafta Polymorphism 12. Hafta GUI design 14. Hafta GUI design Weekly theoretical course hours: 3						
Teaching and Learning Methods (These are examples. Please fill which activities you use in the course)	Weekly theoretical course hours: 3 Weekly practical course hours: 2 Reading Activities Internet browsing, library work Designing and implementing materials Preparation for Midterm and Midterm Exam Final Exam and Preparation for Final Exam						

			Numbers	Weig	otal ghtir %)			
		erm Exams	1	20	/0)			
Assessment Criteria	Assig	gnment	4	20				
	Appl	ication	14	20				
		Projects		0				
	Pract		0	0				
	Quiz		0	0				
		ent of In-term les (%)		60				
	Perce	entage of Final n to Total Score (%)		40				
		ndance						
		Activity		Duration (weekly hour)			Total Period Work Load	
	Weekl Hours	y Theoretical Course	14	3			42	
	Weekl	y Tutorial Hours	14	2			28	
	Readii	ng Tasks	10	2			20	
	Studie	S	10	1			10	
		ial Design and mentation	4	6			24	
	Repor	t Preparing					0	
Workload	Prepar	ring a Presentation					0	
	Preser	ntations					0	
		rm Exam and	1	10			10	
	Exam	ration for Midterm						
		Exam and Preparation nal Exam	1	16			16	
	Other (should be						0	
		emphasized) Total Workload					150	
	Total Workload / 25						6	
	Course Credit (ECTS)						6	
	No	Program Outcomes			1 2	2 3	3 4	5
Contribution Level Between Course Learning Outcomes and Program Outcomes	1	Sufficient knowledge on and computer engineerin theoretical and practical	g; ability to ap	ply		X		
		areas to model and solve engineering p					\perp	
	2	Ability to identify, define complex engineering pro- choose and apply approp	blems; ability	to			X	
		modelling methods for the						
	3	Ability to design a comp	lex system, pro				X	ζ .
		device, software, algorith						
		realistic constraints and c certain requirements; abi						
		design techniques for thi		OGCIII				
	4	Ability to choose, develo	p and use mod			1	X	(
		techniques and tools nec		neering				
		applications; ability to ef computing technologies	tectively use					
	5	Ability to design and imp	olement system	ns or	+	+	+	
		experiments to solve eng						
		collect and interpret data	to evaluate an					
		analyze the results of sol					\perp	
	6	Ability to work effective	-				X	
		and interdisciplinary tear	ns or individua	uly				

	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		
	9	Awareness of the necessity of lifelong learning; ability to access information, follow scientific and technological developments; ability to perpetually renew oneself		
	10	Awareness of professional and ethical responsibility, ability to act in accordance with ethical principles		
	11	Ability to apply knowledge on project management, risk management and change management		
	12	Awareness of entrepreneurship and innovation, ability to design and build sustainable systems		
	13	Ability to devise local and global solutions to contemporary issues considering the effects of engineering applications on health, environment and security		
	14	Awareness of the legal consequences of engineering solutions		
	15	Ability to apply knowledge on software development process and documentation rules		
	16	Knowledge on standards used in engineering applications		
	17	Awareness of occupational health and security, information security and privacy		
The Course's Lecturer(s) and Contact Information		Asst. Prof. Dr. Mehmet Demirci mdemirci@gazi.edu.tr		