CSE203 OBJECT ORIENTED PROGRAMMING WITH JAVA COURSE CATALOG FORM



Course Code: CSE203				Course Name: Object Oriented Programming				
Semester	(Lc + T + L)	Credit	ECTS	Language	Prerequisites			
2	2+0+2	3	6	English	Compulsory	Lecture, laboratory, project	CSE101	
Course Content Objects and classes, constructor, static variable, constants, methods, modifiers, passing objects to methods, immutable objects, data field encapsulation, class abstraction, the upper and lower class concepts, inheritance, inheritance, polymorphism,					field			
				ucing object oriented programming paradigm, designing and nenting object oriented programs with Java.				
				-	plain object oriented programming concept evelop mid-scale object oriented programs using Java			
Edition			Edition, I	aniel Liang, Introduction to Java Programming, Pearson, International, Brief 8th /9th Edition ure notes, Laboratory notes, Example problems				
Other References Comput				er and projector				

CONTRIBUTION of the COURSE on ELECTRICAL and ELECTRONICS ENGINEERING PROGRAM OUTCOMES

DERSİN ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ PROGRAM ÇIKTILARINA KATKISI

Contribution degree: 1-low, 2-medium, 3-high Katkı Derecesi: 1 düşük, 2 orta, 3 yüksek

_	Electrical and Electronics Engineering Program Outcomes Elektrik Elektronik Mühendisliği Program Çıktıları	1	2	3	
1	comprehension of mathematics (algebra, differential, integral and probability), science (physics d chemistry) and fundamentals of computer science (programming and simulation)				
	Matematik (cebir, diferansiyel, integral ve olasılık), fen bilimleri (fizik ve kimya) ve bilgisayar bilimlerinin (programlama ve benzetim) temellerini kavrama.		X		
2	Ability to apply knowledge of mathematics, science, and engineering to problems in electrical and electronics engineering				
	Matematik, fen ve temel mühendislik bilgilerini elektronik mühendisliği problemlerine uygulama yeteneği				
3	Ability to recognize the needs and challenges of our age, and to assess the global and social impacts of engineering solutions				
	Çağımızın ihtiyaç ve sorunlarını tanıma, mühendislik çözümlerinin küresel ve toplumsal etkilerini değerlendirebilme				
4	Comprehension of professional and ethical responsibility				
4	Mesleki ve etik sorumluluk gereklerini kavrama				
E	Ability to design and conduct experiments, as well as to analyze and interpret data				
5	Deney tasarlama, gerçekleştirme, verileri analiz etme ve yorumlama yeteneği				

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6	Ability to identify, formulate and solve engineering problems Mühendislik projeleri kapsamında problemleri tanımlama, modelleme ve çözme yeteneği		
7	Ability to design and integrate electronic system components to satisfy given requirements Elektronik uygulamalarına yönelik sistem ve süreçleri analiz etme, değerlendirme, sistem bileşenlerini isterleri karşılayacak şekilde tasarlama ve entegre etme yeteneği		
8	Ability to take individual responsibilities and to work as part of a team Takım içerisinde çalışabilme, bireysel sorumluluk alabilme yeteneği		
9	Ability to effectively communicate knowledge and opinions via written, oral and visual means Bilgi ve görüşlerini, yazılı, sözlü ve görsel araçlarla etkin olarak aktarabilme yeteneği		
10	Ability to recognize the need for, and be motivated to engage in life-long learning Yaşam boyu eğitim ihtiyacını tanıma ve bu eğitime katılma yönelimi		
11	Ability to use the hardware and software based modeling, simulation, design and communication tools necessary for engineering practice Mühendislik uygulamaları için gereken donanım ve yazılım tabanlı modelleme, benzetim, tasarım ve iletişim araçlarını kullanma yeteneği		X

COURSE PLAN

Week	Topics	Lab/Tutorial
1	Java programming language review	Introducing Netbeans
2	Designing and creating objects	Objects
3	Accessing objects using references	Objects
4	Static variables, static methods	Static variables, static methods
5	Accessibility, data encapsulation, passing objects to methods	Accessibility, data encapsulation, passing objects to methods
6	Repeat arrays, array of objects	array of objects
7	String class	String class
8	File I/O	File I/O
9	Object oriented thinking	Object oriented thinking
10	Inheritance	Inheritance
11	Inheritance	Inheritance
12	Inheritance	Inheritance
13	Exception handling	Exception handling
14	Axess/Excel library for Java	Axess/Excel library for Java

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COURSE ASSESMENT AND ECTS WORK LOAD

Type of Work					ECTS WORK LOAD	
			Contributio	n (%)	Time (Hour)	Work
					(Including prep. time)	load
Attendance			0		2	28
Final Exam		1	40		26	26
Quizzes		4	20		2	8
Term project						0
Reports						0
Final Project						0
Seminar						0
Assignments		4		20	12	48
Presentation						0
Midterms		1		20	12	12
Project						0
Laboratory		14		0	2	28
Tutorial						0
Other(Self study)						0
CONTRIBUTION OF SEMESTER LONG STUDIES		60			Total work load	150
CONTRIBUTION OF END OF SE STUDIES	40			Total work load / 25	6	
Total:		100			ECTS Credit	6
Preparation Date /Revision Prepared by Date: Asst.Prof. A		-		Appro	ved by:	