Course title			Code	semester	T+U	Credit	ECTS			
Algorithm and Programming 2				2	3+2	4	<mark>7</mark>			
Prerequisite	Courses	None		I						
Language of	Turkish									
Course Level Licence		Licence								
Type of Cou	rse	Compulsory								
Course Coor	dinator									
Instructors										
Course assist	tants									
The aim of le	esson	1. To eliminate the basic programming and algorithm deficiencies in the Algorithm and Programming Leourse that the student took in the first competer								
		2 To help students gain the logic of project development by learning the functional								
		aspects of the object-oriented programming language.								
Course Cont	ent	Introduction to Object Oriented Programming and a suitable programming								
		environment. Basic concepts in this language (expressions, data types, variables,								
		control struct	ures, arrays	,). Divide	and Solv	e Method. M	lodular software			
		development (methods and classes). Class Variables and Local Variables. Form								
		Elements. Introduction to Event Driven Programming. Dynamic Arrays. Linked								
		algorithms. Development of effective algorithms.								
Course Learning		Students who can successfully complete this course;								
Outcomes		1. To learn the general concepts of programming,								
		2. To understand the concept of algorithms, how to create algorithms and								
		structured programming issues.								
		language that every programmer should know with its structural features								
		and powerful opportunities, in relation to the concept of algorithm.								
	I									
Weeks		Topics								
one	Introduction to Object Oriented Programming and introduction of a suitable programming									
	environment.									
2	Basic concept	ts in this program	mming langu	age (expressio	ns, data typ	oes, variables,	control			
	structures)									
3	Divide and Solve Method.									
4	Modular software development (methods and classes).									
5	Class Variables and Local Variables.									
6	Form Elements.									
7	Introduction to Event Driven Programming.									
8	Dynamic Arrays.									
9	Linked Lists.									
10	Search and Sorting Algorithms.									
11th	Folders									
12	Selection of a	appropriate struc	tures in algo	orithms.						
13	Development	of effective alg	orithms.							
14	Algorithmic A	Applications-I								
15	Algorithmic Applications-II									
		11	General Co	mpetencies						
Student will be able to develop a software project.										
			reso	urces						

Cay S. Horstmann, "Big Java: Late Objects, Enhanced eText", 2nd Edition, Wiley, October 2016. TH Cormen, CE Leiserson, RL Rivest and C. Stein, "Introduction to Algorithms", MIT Press, 2009.

Evaluation System

The dates, days and hours of the Midterm Exam, Quiz, Final Exam and Evaluations will be announced later, according to the decision of the Faculty Administrative Board.

	WITH PROGRAM LEARNING OUTCOMES											
	COURSE LEARNING OUTCOMES RELATIONSHIP TABLE											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	
LO1	5	5	4	4	5	4	3	3	3	4	3	
LO2	5	5	4	4	5	4	3	3	3	4	4	
LO3	5	5	4	4	5	4	3	3	3	3	3	
LO: Learning Outcomes OP: Program Outcomes												
Contri1 Very LowbutionLevel		2 Low		3 Medium		4 High		5 Ver	5 Very High			

Relation of Program	Outcomes and	Related Course
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	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
Algorithm and Programming 2	5	5	5	4	5	4	3	3	3	4	3