

Course Description	
Course Code	YZ 108
Course Name	PROGRAMMING II
Prerequisite Courses	
Language of the Course	The English
Course Coordinator	
Instructor(s)	
Course Assistants	
The aim of the course	Advancing in functional programming and an introduction to object-oriented programming.
Course Content	Implementing interfaces and programs using a visual and object-oriented programming language.

Weekly Course Content	
Week 1	Net environment, coding and compiling, windows in .net
Week 2	Console class, declare variables, arrays, loops, conditional statements, an application: getting class notes and calculating the class mean
Week 3	An application: dice game, writing classes, methods, calling class methods, an application: phonebook, an application: Math library
Week 4	Constructor (An application: Time Class), writing Class -2 An application: deck class, shift deck methods
Week 5	Array List, An Application: Student notes, foreach structure, ArrayList.Sort, exception handling (try/catch/finally)
Week 6	Windows Forms Application, property and event usage, An application: an interface design for a booking system
Week 7	Graphic library, An application: drawing with mouse moves
Week 8	Midterm exam.
Week 9	Writing/ Reading stream files, An application: Booking system based on txt file, query in files
Week 10	OpenFileDialog, SaveFileDialog, MessageBox components, An Application: notepad
Week 11	Introduction to Database design and normalization, Query db tables using SQL
Week 12	ADO.Net components for connecting Dbs, and executing queries, components for listing results, An Application: Booking system using DB
Week 13	Web components, A password-protected web application using ASP.NET
Week 14	An Application: online shopping website
Week 15	Final exam.

Course Learning Outcomes	
1	Introduction to computer programming
2	Sql connection
3	Graphics
4	-
5	-
6	-

Contribution of the Course to Program Qualifications			Contribution Level
01	The student will have the ability to apply analytical approach, mathematics and science knowledge in software and engineering issues.		4
02	The student will have the ability to identify, define, formulate and solve a problem in software and computer systems.		4
03	The student will have gains scientific research skills in software and engineering problems, has the ability to design a system, part or process.		5
04	The student will have the ability to use the design capability, techniques and tools required for engineering applications.		5
05	The student will have the ability to design, implement and interpret experimental work and software projects by analyzing the results.		5
06	The student will have the ability to work between disciplines and teamwork.		5
07	The student will have the ability to work in international environments and adapt to different cultures.		5
08	The student will have verbal and written communication skills in Turkish and English.		5
09	The student will have the awareness of the necessity of lifelong learning and the ability to realize it.		5
10	The student will gain knowledge of legal issues with the awareness of professional and ethical responsibility.		5
11	The student will have managerial skills (leadership, organization, time and risk management, quality awareness, efficiency, etc.).		5
12	The student will have the ability to participate in social activities, to acquire regular sports habits and to use time in the best way.		5
13	The student will have the ability to find unusual ways and produce projects.		5
14	The student will have professional self-confidence, being an entrepreneur and taking initiative.		5
15	It is sensitive about the problems of the age and looks after the national interests.		4

ECTS WORKLOAD			
	Number	Duration (hours)	Number*Duration
Face to face education	14	3	42
Out-of-class study time (pre-study, reinforcement)	14	1	14
Homeworks	8	3	24
Presentation / Seminar preparation	1	3	3
Quizzes	0	0	0
Preparation for midterm exams	1	8	8
midterm exams	1	2	2
Project (Semester assignment)	1	10	10
Lab	14	2	28
field work	0	0	0
Preparation for the final exam	1	10	10
Semester final exam	1	2	2
Research	14	1	14
TOTAL WORKLOAD			157
ECTS			5

Evaluation		
SEMESTER EVALUATION	Number	Contribution Percentage
Midterm	1	20
Quiz	0	0
Homework	8	20
SEMESTER TOTAL		40
Contribution rate of mid-term evaluations to success		40
Contribution rate of the final exam to success		60
GRAND TOTAL		100

RESOURCES	
Textbook	Programming C#, Jesse Liberty How to C#, Deitel & Deitel
Helpful Resources	Her yönüyle c#, Sefer Algan