TED UNIVERSITY, COURSE SYLLABUS

Faculty	Engineering	Department	Computer Engineering
Course Code & Number	СМРЕ 113	Course Title	Fundamentals of Programming I
Type of Course	☑Compulsory □Elective	Semester	□Fall ☑Spring □Summer
Level of Course	BSc	Year of Study	Freshman
Course Credit Hours	(2+0+3) 3	Number of ECTS Credits	6
Pre-requisite	N/A	Co-requisite	N/A
Mode of Delivery	✓ Face-to-face□Distance learning	Language of Instruction	☑ English □Turkish
Course Coordinator		Course Lecturers	Emin Kuğu Aslı Gençtav Yücel Çimtay
Required Reading	Walter Savitch, Java: An Introduction to Problem Solving and Programming.	Course Assistant(s)	Deniz Merve Gündüz Merve Işıl Peten Elif Ünal

Course Catalog	Variables. Assignment statements. Built-in data types. Conditions. Loops. Arrays. Input &			
Description	output management.			
Course Objectives	The objective of this course is to provide a fundamental understanding of procedural programming, enabling students to abstract simple problems and encode them in a programming language using simple constructs.			
	Upon successful completion of this course, a student will be able to			
	1. Analyze a given problem and refine it into atomic components			
	2. Write code corresponding to atomic components of a problem			
Course Learning	3. Use built in data types and simple constructs in a programming language			
Outcomes	4. Use conditions in a programming language			
Outcomes	5. Use loops in a programming language			
	6. Use arrays in a programming language			
	7. Manage input & output in a programming language			
	8. Write code corresponding to Java Class	es and Methods		
	☑ Telling/Explaining	□ Simulations & Games		
	☑ Discussions/Debates	□ Video Presentations		
	☑ Questioning	□ Oral presentations/Reports		
	☑ Reading	Concept Mapping		
	□ Peer teaching	□ Brainstorming		
	□ Scaffolding/Coaching	□ Drama/Role Playing		
Teaching Methods &	☑ Demonstrating			
Learning Activities	✓ Problem solving	\Box Field Trips		
		□ Guest Speakers		
	□Collaborating	✓ Hands-on Activities		
	□ Think-Pair-Share	□ Service Learning		
	□ Predict-Observe-Explain	□ Web Searching		
	□ Microteaching	☑ Experiments		
	Case Study/Scenario Analysis	□ Other(s):		
Assessment Methods	☑ Test/Exam	□Observation		
(Formal & Informal)	☑ Quiz/Homework	□ Self-evaluation		

□ Oral Questioning	\Box Peer-evaluation
☑ Laboratory work	□Portfolio
Performance Project	□Presentation (Oral, Poster)
	\Box Other(s):

	 ✓ Lectures	 ☑ Midterm I
Student Workload (Total 161 Hrs)	 □ Work Placementhrs □ Field Trips/Visitshrs □ Observationhrs □ Laboratory Applications	Report on a Topic hrs Case Study Analysis hrs Oral Presentation hrs Poster Presentation hrs Demonstration hrs Web Designs hrs Mock Designs hrs Team Meetings hrs Other hrs

COURSE ASSIGNMENTS

A. Midterm [30%]

One midterm exam that is worth 30% of the overall course grade.

B. Final Exam [35%]

There will be a final examination worth 35% of the overall grade.

C. Quizzes [15%]

There will be 3 quizzes. Each mark is worth 5% of the overall grade.

D. Laboratory Works [20%]

There will be 10 graded Lab works. Each lab is worth 2% of the overall grade.

COURSE POLICIES

I. Attendance

Attendance to the course is mandatory.

1) The student attending less than 70% (8 weeks (16 hours), attendance will start second week) of Lecture Hours will get **FX** grade.

2) The student attending less than 8 Laboratory Works will get **FX** grade.

I. Missed Work

Makeups for midterm exams will be provided if the student can provide a legal document confirming a life threatening health issue at the time of the exam, or with the consensus of the CMPE faculty. *There will be no makeup for labs and quizzes.*

III. Late Assignment Submission Policy

Late submissions will not be graded.

Ⅳ. Extra Credit

Extra credits will not be offered.

V. Assignment Rules

All assignment works must be done individually. A student can submit only one work. In case of multiple submissions, only the latest submission will be considered. Students cannot submit work on other students' behalf.

VI. Plagiarism

All of the following are considered plagiarism:

- turning in someone else's work as your own
- copying words or ideas from someone else without giving credit
- failing to put a quotation in quotation marks
- giving incorrect information about the source of a quotation
- changing words but copying the sentence structure of a source without giving credit
- copying so many words or ideas from a source that it makes up the majority of your work, whether you give credit or not" (www.plagiarism.org)

Plagiarism is a very serious offense and will be penalized accordingly by the university disciplinary committee. The best way to avoid accidentally plagiarizing is to work on your own before you ask for the help of other resources.

VI. Cheating

Cheating has a very broad description which can be summarized as "acting dishonestly". Some of the things that can be considered as cheating are the following:

- Copying answers on examinations, homework and laboratory works,
- Using prohibited material on examinations,
- Lying to gain any type of advantage in class
- Providing false, modified or forged data in a report
- Plagiarizing.
- Modifying graded material to be regraded.
- Causing harm to colleagues by distributing false information about an examination, homework or laboratory

Cheating is a very serious offense and will be penalized accordingly by the university disciplinary committee.

VII. Class Participation

Participation in class is necessary but not mandatory. However, if you do not attend the laboratory and complete the requested tasks, you cannot /will not get the assigned points from the laboratory. By actively participating in class, you can improve your learning process and immediately confirm what you have earned and what you have not internalized. Do not forget that you are not expected to know all of the material being discussed in class. Actually, you are expected not to know it. Therefore, there is no point in being hesitant to join a conversation or ask a question.

IX. Class Readings

Class readings are necessary but not mandatory. The material covered in class by your instructor will only provide a fundamental understanding of the general context. If you are willing to effectively learn something, you must actively work on it yourself. Reading is one of the most successful ways of learning about a topic.

TENTATIVE COURSE OUTLINE

	Dates	Topics	Readings	Assignments
W1	14 - 18 Feb	Introduction to Computers and Java	Chapter I	
W2	21 - 25 Feb	Variables and Expressions	Chapter 2, Section 2.1	Lab 00 Eclipse – Variables
W3	28 Feb - 04 Mar	Variables and Expressions	Chapter 2, Section 2.1	Lab 01 Variables, Expressions
W4	07 - 11 Mar	Variables and Expressions, I/O	Chapter 2, Section 2.2, 2.3	Lab 02 Variables, casting
W5	14 - 18 Mar	Flow of Control: Branching, if-else	Chapter 3, Section 3.1	Lab 03 Variables, IO <i>Quiz 01</i>
W6	21 - 25 Mar	Flow of Control: if-else Branching, switch	Chapter 3, Section 3.2, 3.3	Lab 04 Branching If Else
W7	28 Mar - 1 Apr	Flow of Control: Loops – While/Do-while	Chapter 4, Section 4.1	Lab 05 Branching Switch
W8	04 - 08 Apr	Flow of Control: Loops - For	Chapter 4, Section 4.2	Lab 06 Loops: While
W9	11 - 15 Apr	Recitation		Lab 07 Loops: For <i>Quiz 02</i> <i>MIDTERM (Apr. 17 10:00)</i>
W10	18 - 22 Apr	Array Basics	Chapter 7, Section 7.1	
W11	25 - 29 Apr	Intro. To Classes and Methods	Chapter 5, Section 5.1, 5.3	Lab 08 Arrays and Loops-1
W12	02 - 06 May	No Lecture		
W13	09 - 13 May	Objects and Methods	Chapter 6, Section 6.1, 6.2	Lab 09 Arrays and Loops-2
W14	16 – 20 May	Objects and Methods	Chapter 6, Section 6.1, 6.2	Lab 10 Methods and Classes <i>Quiz 03</i>
W15	23 - 27 May	Arrays in Classes and Methods	Chapter 7, Section 7.2	