

Course Name : Java Programming

Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
EMS 110	A	Spring	2.00	2.00	0.00	3.00	5.00

Lecturer Klevis Topi, Msc

Assistant

Course language English

Course level Bachelor

Description
 The aim of the course is to acquaint students with the basics of the Java language, to use this knowledge in building programs. The course is oriented towards the development of practical skills including Java programming technologies for graphic applications or applets that can be used on the Internet. It also includes the syntax of the Java language, the features of this language, the compilation and execution, the construction of classes and their testing.

Objectives

Course Outline

Week	Topic
1	Introduction to Java
2	Structure of Java Program
3	Static Methods in Java
4	Primitive Data Types and Loops
5	Constants and Loops in Figures
6	Interactive Programs and Conditional Structures
7	Methods with Parameters
8	Semi Final Exam
9	Return and Math Functions
10	Strings and Characters
11	Arrays in Java
12	Graphics
13	Graphics User Interface (GUI) - I
14	Graphics User Interface (GUI) - II
15	General Review
16	Final Exam

Prerequisites			
Literature	• Building Java Programs, A Back to Basics Approach-Pearson (2016), Stuart Reges & Marty Stepp		
References	• Cikël leksionesh, Reges 2020. https://courses.cs.washington.edu/courses/cse142/20sp/		
Laboratory work			
Use of comp.			
Other			
Course Outcome			
1	Të mësohen bazat dhe sintaksa e gjuhës JAVA.		
2	Duhet të kuptohen strukturat e kontrollit dhe metodat.		
3	Duhet të përvetësohen metodat e programimit në objekte me anë të gjuhës JAVA.		
4	Të mësohet konceptimi i ndërfaqes grafike me JAVA.		
Course Evaluation			
In-term Studies	Quantity	Percentage	
Midterms	1	30	
Quizzes	0	0	
Projects	0	0	
Term Projects	0	0	
Laboratory	0	0	
Class Participation	1	10	
Total in-term evaluation percent		40	
Final exam percent		60	
Total		100	
ECTS Workload (Based on Student Workload)			
Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	4	56
Duties	0	0	0
Midterms	1	0	0
Final Exam	1	1	1
Other	0	0	0
Total Work Load			121
Total Work Load / 25 (hours)			4.84
ECTS			5.00