



SYLLABUS

Basic information of the course	
University:	University “Ukshin Hoti” - Prizren
Academic unit:	Faculty of Computer Science
Study program:	Information and Telecommunication Technologies
Course:	Programming
Study level:	Bachelor
Course status:	Mandatory
Study year:	1
Number of hours per week:	2+2
Credit value - ECTS:	6
Time / location:	It will be published in the university web site!
Lecturers:	Assoc. Prof. Dr. Ercan Canhasi Ass. Arta Misini, Ph. D. c.
Contact details:	ercan.canhasi@uni-prizren.com arta.misini@uni-prizren.com
Course description:	This course includes basic programming concepts such as variables, arithmetic and expressions; conditional statements; iterimin; static functions; strings and matrices.
Course objectives:	This is the first programming subject in computer science. The course focuses on problem analysis and development of algorithms and computer programs in high level language - Java. Students will gain knowledge in the concept of computer programming, utilizing the Java programming language as the main development tool.
Learning outcomes:	At the end of the course, students should learn: <ul style="list-style-type: none"> - How to analyze and solve the problem - How to use the Java programming language to solve the problem - How to read and "debug" the program in Java - The syntax of the Java programming language
Contribution on student load (must correspond with learning outcomes)	

Activity	Hours	Days/week	Total/hours
Lectures	2	15	30
Exercise theoretical/laboratory	2	15	30
Practice work	1	2	2
Contact with lecturer/consultations	1	5	5
Field exercises	1	1	1
Midterms	2	2	4
Laboratory exercises	2	2	4
Individual time spent studying (at the library or home)	3	10	30
Final preparation for the exam	5	6	30
Time spent in evaluation (tests, quiz, final exam)	2	3	6
Projects, presentations, etc.	4	2	8
Total			150
Notice: 1 ECTS credits = 25 hours commitment, e.g. if the course has 6 ECTS credits student must have 150 hours during the semester.			
Teaching methods:	The course is a combination of lectures, discussions, numerical and laboratory exercises, while the assignments are presented by the laboratory course lecturers!		
Assessment methods:	<ul style="list-style-type: none"> - Attendance in lectures and exercises: 5% + 5%. - Exercises: 10%. - Midterm 1: 40%. - Midterm 2: 40%. - Or final exam: 100%. 		
Assessment and grading:	Vlerësimi në %	Nota përfundimtare	
	91% - 100%	10	
	81% - 90%	9	
	71% - 80%	8	
	61% - 70%	7	
	51% - 60%	6	
	0% - 50%	5	
Literature			
Basic literature:	<ol style="list-style-type: none"> 1. P.Deitel and H.Deitel. (2012). Java: How to Program (9th edition). Prentice Hall. 2. Bruce Heckel. Thinking in Java (5th edition). 		
Additional literature:	<ol style="list-style-type: none"> 1. Ivor Horton. Beginning Java 2, JDK (5th edition). 		

Study plan	
Week	Lectures
<i>First week:</i>	<ul style="list-style-type: none"> • Introduction to Java Programming Language
<i>Second week:</i>	<ul style="list-style-type: none"> • How to write, compile and run Java code
<i>Third week:</i>	<ul style="list-style-type: none"> • Structure of the program • Variables and constants • Types of data
<i>Fourth week:</i>	<ul style="list-style-type: none"> • Showing the results (output) in the console • Comments in Java • Expressions
<i>Fifth week:</i>	<ul style="list-style-type: none"> • Operators and Priorities • Assignment expression
<i>Sixth week:</i>	<ul style="list-style-type: none"> • Conversion of data
<i>Seventh week:</i>	<ul style="list-style-type: none"> • Flow Control / conditional statements • Instruction if - else • Bloc instructions
<i>Eighth week:</i>	<ul style="list-style-type: none"> • First midterm
<i>Ninth week:</i>	<ul style="list-style-type: none"> • Nested if Statements • switch statement
<i>Tenth week:</i>	<ul style="list-style-type: none"> • Loop statements • while loops • do / while loops
<i>Eleventh week:</i>	<ul style="list-style-type: none"> • Loop statements • for loops
<i>Twelfth week:</i>	<ul style="list-style-type: none"> • Static functions
<i>Thirteenth week:</i>	<ul style="list-style-type: none"> • Arrays
<i>Fourteenth week:</i>	<ul style="list-style-type: none"> • Matrices
<i>Fifteenth week:</i>	<ul style="list-style-type: none"> • Second midterm

Exercises

Study plan	
Java	Exercises
<i>First week:</i>	<ul style="list-style-type: none"> • Introduction to Java Programming Language
<i>Second week:</i>	<ul style="list-style-type: none"> • How to write, compile and run Java code
<i>Third week:</i>	<ul style="list-style-type: none"> • Structure of the program • Variables and constants • Types of data
<i>Fourth week:</i>	<ul style="list-style-type: none"> • Showing the results (output) in the console • Comments in Java • Expressions
<i>Fifth week:</i>	<ul style="list-style-type: none"> • Operators and Priorities
<i>Sixth week:</i>	<ul style="list-style-type: none"> • Conversion of data

<i>Seventh week:</i>	<ul style="list-style-type: none"> • Conditional Statements • (if - else, ternar operator)
<i>Eighth week:</i>	<ul style="list-style-type: none"> • Exercises - First midterm
<i>Ninth week:</i>	<ul style="list-style-type: none"> • Nested if Statements • switch statement
<i>Tenth week:</i>	<ul style="list-style-type: none"> • Loop statements • (while, do / while)
<i>Eleventh week:</i>	<ul style="list-style-type: none"> • Loop statements • (for)
<i>Twelfth week:</i>	<ul style="list-style-type: none"> • Static functions
<i>Thirteenth week:</i>	<ul style="list-style-type: none"> • Arrays
<i>Fourteenth week:</i>	<ul style="list-style-type: none"> • Matrices
<i>Fifteenth week:</i>	<ul style="list-style-type: none"> • Exercises - Second midterm

Academic policies and rules of conduct	
<ul style="list-style-type: none"> • Generally lecture presentations will be made through MS PowerPoint, tables, material usage, computer programs and numeric exercises. • Additional resources (scientific papers, publications, national bulletins, as well as recent discoveries and research) will be provided by professors. • In the absence of the opportunity for practical work to be organized weekly, in cooperation with the management of the university, this activity will be organized on certain days in: organizations, companies, etc. • During each session will be organized the conversation and co-participation with the students! • Students are required to be regular in lectures and exercises! • It will be evaluated when the students collaborate and participate in the lectures and course exercises! • Timely arrival in lectures and exercises is mandatory! 	