Decomo	Level Schort cycle					
Program	Name of the program Infomation Technologies					
COURSE						
Course title				ning I		
Course code	Semester	Course status		ECTS	Contact hours	(L+AE+LE)
IT 110	Ι	Mandatory course		8	2+2+2	
Lecturer						
Course Goals	The course considers the process of computer program development using "high-level" programming language. It is assumed that students have no previous programming experience. Topics to be covered include basic data types and their operators, input-output processing, control structures (decision and repetition structures), functions, arrays/lists, basics of object-oriented programming, as well as basics of data structures. Special focus is placed on improving computer problem-solving skills, program design and testing, and program implementation using the Integrated Development Environment (IDE).					
Learning Outcomes	 Upon completion of this course, students will be able to: 1. design, compile and execute programs that solve basic computer problems; 2. describe the concept of a variable; 3. describe and use control structures; 4. use strings and lists; 5. describe and use functions, parameters and return values; 6. write to a file and read the data from a file; 7. understand and use recursion; 8. understand the basic concepts of object-oriented programming; 9. implement basic data structures. 					
COURSE CONTENT						
 Data type: Control st Arrays/lis Functions Working v Recursion OOP basis 	ts with files	LITE	RATURE			
R Sedgewick K V	Wayne, R. Dondero: "In			An Interdisco	itinam Attrach"	2015
C. Dierbach: "Intro E. Matthes: "Pytho. W. Savitch: "Proble B. Stroustrup: "Pro	oduction to Computer Scient n Crash Course", No Sta em Solving with C++", 9tl ogramming: Principles and I Like a Programmer", No S	te Using Python", 20 rch Press, 2015. In Edition, Pearson Practice Using C++ Starch Press, 2012	12. n, 2014. ", 2nd Edition,	2014		2013.
Lastance						175
Lectures		al 60	Individual wo		Total	175
Criterion	GRADING Maxim points	um Minimum points			REMARKS	
Midterm exams 3			1			
Laboratory assignments			1			
Final exam	40		1			
Total	100	55	1			