Course Name : Introduction to Algorithms and Programming								
Course Code	Course Type	Regular Semester	Lecture (hours/week )	Seminar (hours/week )	Lab. (hours/week )	Credits	ECTS	
CMP 111	Α	Fall	3.00	1.00	0.00	3.50	5.00	
Lecturer Edlir Spaho, MSc								
Assistant								
Course language		Albanian						
Course level		Bachelor						
Description								
Objectives								
Co	ore Concepts							
Course Outlin	ne							
Week	Торіс							
1	Introduction to Computers and C++							
2	Introduction to C++ Programming, Flowcharts, Algorithms and Pseudo codes							
3	Variables Declaration, Data Types, Operators and Expressions							
4	Formatting of Data in C++							
5	Conditional Structures							
6	Repetitive Structures (Loops)							
7	Vectors and Matrices							
8	Midterm Exam							
9	Operations with Vectors and Matrices							
10	Functions							
11	Functions and	l Recursion						
12	Functions with	n Vectors and Matr	rices					
13	Enumerations	Enumerations						
14	Files in C++							
15	Review and Projects Presentation							

Final Exam

Prerequisites		The student must attend the course at a minimum rate of 75%.				
	Literature	<ul> <li>Agni Dika - Bazat e programimit ne C++, 2005</li> <li>Deitel H. and Deitel P., "C How to Program", 5th Edition, Prentice Hall, 2007</li> </ul>				
References						
Course Ou	tcome					
1	Students will be	III be able to understand principles of structuring Flowcharts and Algorithms.				
2	Students will be vectors, matric	e able to program in C++ by using conditional structures, loops, functions, es and files.				
3	Students will be with high efficient	able to use different programming techniques to build modular programming ency.				
4		Students will be equipped with necessary terminology and techniques to pursue other subsequent subjects such as Object Oriented Programming as well as other programming languages.				
5	Students will be	Students will be able to understand and use the key elements of C++ Programming Language				
Course Eva	luation					
	In	Quantity	Percentage			
Midterms			1	20		
Quizzes			0	0		
Projects			1	20		
Term Projects				0	0	
Laboratory				2	10	
Class Participation 1			10			
	To	otal in-term evaluation perce	ent		60	
Final exam percent					40	
Total					100	
ECTS Work	load (Based on	Student Workload)				
	Activi	ties	Quantity	Duration (hours)	Total (hours	
Course duration (Including the exam week: 16x Total hours of the course)			16	4	64	
Study hours o	utside the classroor	n (Preparation, Practice, etc.)	14	3	42	

ECTS				
Total Work Load  Total Work Load / 25 (hours)				
Final Exam	1	10	10	
Midterms	1	5	5	
Duties	3	5	15	
Study hours outside the classroom (Preparation, Practice, etc.)	14	3	42	