Course Code	Course Type	Regular	Lecture	Seminar (hours/we ek)	Lab. (hours/we ek)	Credits	ECTS
		Semester	(hours/we ek)				
CMP 114	А	Spring	3.00	0.00	1.00	3.50	5.00
	Lecturer	Edlir Spaho, MSc					
	Assistant						
Cou	rse language	Albanian					
	Course level	Bachelor					
	Description						
	Objectives						
Co	ore Concepts						
ourse Outlir	ne						
Week	Торіс						
1	General knowledge about Object Oriented Programming. Review and completion of knowledge about functions.						
2	Different types of functions used in C++ programming language. Inline and macro functions.						
3	Overloaded functions. Function models. Different algorithms for ordering and finding data declared as Models.						
4	Different ways of evaluating algorithms. Enumerations. Practical examples of the use of enumerations.						
5	Structures. Definition of structures and declaration of the respective objects. Initialization directl with the values of the variables included in the components of structures during the declaration of the respective objects. Access to components of objects.						
6	Definition and use of functions involved in the components of structures. Definition of functions outside the structures.						
7	Simultaneous use of different structures. Nested structures.						
8	Semi Final Exam						
9	Objects as parameters of functions. Use of arrays within structures. Declaring and Utilizing Fields of Objects.						
10	Classes. Difference between structures and classes. Definition of classes and declaration of respective objects.						
11	Declaring the private and public components within classes and the possibilities of their use. Initialize values of variables in private components and get the values set in these components.						
12	Constructors. Class inheritance.						
13	References and their use for taking values from the functions.						
14	Pointers and v	ways of using then	n. Receiving a	nd forwarding	data to functi	ons using the	pointer.
15	Testing and Documentation of Object Oriented Programs						
16	Final Exam						

	Prerequisites	The student must attend the cours				
	Literature	 Programimi i Orientuar në Objekte, me programe në C++, Agni Dika How to Program C++, H.M. Deitel, P. J. Deitel 				
	References	 Agni Dika Programimi i Orientuar në Objekte, me programe në C++, UEJL, Fakultet i Shkencave Bashkëkohore, Tetovë, ISBN 9989-866-25-2 http://www.agnidika.net/programimiobjekte.pdf H.M. Deitel, P. J. Deitel How to Program C++ Prentice Hall, Upper Saddle River, New Jersey, ISBN 0-13-111881-1 				
Course Out	tcome					
1	Students ge	Students get knowledge and abilities Classes and Objects, Pointers, Attributes and Methods.				
2	Get knowle	Get knowledge and abilities how classes are inherited.				
3	Get knowle	knowledge and abilities generic methods and polymorphism				
4	Get knowle	owledge and abilities about testing and documentation of Object Oriented Programs				
Course Eva	luation					
In-term Studies			Quantity	Percentage		
Midterms			1	30		
Quizzes			0	0		
Projects			1	30		
Term Projects			0	0		
Laboratory			0	0		
Class Participation			0	0		
Total in-term evaluation percent					60	
Final exam percent					40	
	Total					
		Total			100	
ECTS Work	load (Based	on Student Workload)			100	

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	3	42	
Duties	1	10	10	
Midterms	1	2	2	
Final Exam	1	2	2	
Other	1	5	5	
Total Work Load				
Total Work Load / 25 (hours)				
ECTS				