Course Name : The Compilators								
Course Code	Course Type	Regular Semester	Lecture (hours/we ek)	Seminar (hours/we ek)	Lab. (hours/we ek)	Credits	ECTS	
CMP 116	В	Spring	3.00	1.00	0.00	3.50	5.00	
Lecturer		Kleona Elezi, Msc						
Assistant		Ejona Bodo, Msc						
Course language		Albanian						
Course level		Bachelor						
	Description	Compilers is a course that describes the bases of the compilers, functions and processes. the phases of a compiler and its elements. This course has a broader aspect and will introduce the students with the fundaments of the compilers, their important role they play on transforming the code from a higher programming language to the code known by the machine.						
	Objectives							
Core Concepts		Introduction to Compilers Compilers design The stages in which a source program goes through to be translated by the compiler into a language understandable and executable by machines.						
Course Outlin	ne							
Week	Торіс							
1	Introduction							
2	A Simple Syntax-Directed Translator I							
3	A Simple Synt	A Simple Syntax-Directed Translator II						
4	Lexical Analys	Lexical Analysis						
5	Lexical Analysis(Finite Automata, NFA)							
6	Syntax Analysis (DFA)							
7	Review	Review						
8	Midterm							
9	Syntax Analysis (DFA) ys							
10	Syntax Analys	Syntax Analysis Top-Down Parsing I						
11	Syntax Analys	sis Top-Down Parsi	ng II					
12	Syntax Analys	Syntax Analysis Bottom-Up I						
13	Syntax Analysis Bottom-Up II							
14	Syntax Analysis Bottom-Up III							

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Review

Final Exam

Prerequisites		The student must attend the course at a minimum rate of 75%.			
Literature		• Alfred V. Aho, Monica S. Lam, Ravi Sethi, Jeffrey D. Ullman, Compilers - Principles, Techniques, and Tools, Second Edition, 2007, Pearson/Addison Wesley			
References					
Course Outcome					
1	1 Njohuri në strukturën e kompilatorëve.				
2	Ndërtimin e	Ndërtimin e kompilatorëve.			
3	Fazat në të cilat kalon një program burim për tu përkthyer nga kompilatori në një gjuhë të kuptueshme dhe të ekzekutueshme nga makinat.				

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	30
Quizzes	0	0
Projects	1	15
Term Projects	0	0
Laboratory	0	0
Class Participation	1	10
Total in-term evaluation percent		
Final exam percent		
Total		

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	1	2	2	
Midterms	1	2	2	
Final Exam	1	2	2	
Other	0	0	0	
Total Work Load				
Total Work Load / 25 (hours)				
ECTS				