

Course Name : The Compilers							
Course Code	Course Type	Regular Semester	Lecture (hours/week)	Seminar (hours/week)	Lab. (hours/week)	Credits	ECTS
CMP 116	B	Spring	3.00	1.00	0.00	3.50	5.00
Lecturer		Alma Hyra, Msc					
Assistant							
Course language		Albanian					
Course level		Bachelor					
Description							
Objectives							
Core Concepts							
Course Outline							
Week	Topic						
1	Introduction						
2	A Simple Syntax-Directed Translator I						
3	A Simple Syntax-Directed Translator II						
4	Lexical Analysis						
5	Lexical Analysis(Finite Automata, NFA)						
6	Syntax Analysis (DFA)						
7	Review						
8	Midterm						
9	Syntax Analysis (DFA) ys						
10	Syntax Analysis Top-Down Parsing I						
11	Syntax Analysis Top-Down Parsing II						
12	Syntax Analysis Bottom-Up I						
13	Syntax Analysis Bottom-Up II						
14	Syntax Analysis Bottom-Up III						
15	Review						
16	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	Sudent learns the structure of compilers.		
2	The student learns to build a compiler.		
3	The student learns the stages in which a source program passes to be translated by the compiler into a language understandable and executable by machines.		
Course Evaluation			
In-term Studies		Quantity	Percentage
Midterms		1	30
Quizzes		0	0
Projects		1	30
Term Projects		0	0
Laboratory		0	0
Class Participation		1	10
Total in-term evaluation percent			70
Final exam percent			30
Total			100
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	3	42
Duties	1	5	5
Midterms	1	9	9
Final Exam	1	10	10
Other	0	0	0
Total Work Load			130
Total Work Load / 25 (hours)			5.20
ECTS			5.00