	. 3		Course program fo	or the	first, second and	third level	(cycle) of studies		
1.	Course tit	Course title		F	Programming Languages				
2.	Code				262				
3.	Study group(s)				Production Informatics				
4.	The organizer of the study program (unit, institute, department)				Faculty of Mechanical Engineering - Skopje				
5.	Level (first, second, third)			F	First				
6.	Academic year / semester			F	First / summer 7. ECTS credits 6				
8.	Instructor			E	Emilija Celakoska				
9.	Prerequis	ites		/	1				
10.	Course objectives (competences): Introduction to the basic algorithm structures and the concept of programming language. Implementation of the standard algorithmic constructions in selected programming language.								
11.	Course content:								
	Using the basic algorithmic structures: branches, loops, working with indexed variables, subroutines and their realization in selected programming language. Methods for error estimations in measurements and calculations.								
12.	Study methods: lectures, auditory and laboratory practice, individual assignments, self-learn							ning	
13.	Total hours				6 ECTS x 30	0 hours			
14.		Hours allocation per activity:			30 + 30 + 0 +	30 + 60			
15.	Lectures/	Lab		15.1.	Lectures			30	
	15.2				2. Lab (student work)			30	
16.	Project Work/Assignments 16.1			16.1.	. Project assignments			0	
	16.2				2. Individual assignments			30	
	16.3				B. Self-learning			90	
17.	Points/Marks:								
	17.1. Tests (2 x 40 points)						80 p	oints	
	17.2. Projects							oints	
	17.3. Attendance						10 p	10 points	
18.	Grading scale				Under 50		5 (five		
					50-59 points		6 (six		
					60- 69points			7 (seven) (D)	
					70 -79points		8 (eight		
					80-89points		9 (nine		
					90- 100 points		10 (ten		
19.	Prerequisites for taking the final exam				/				
20.	Language of Instruction				Macedonian				
21.	Course evaluation				Student questionnaire				
22.	Textbool	٢S							
	Instruction materials								
		No.	Author		Title		Publisher	Year	
		1.	Chakmakov D.		Computers, Algor	ithms and	Ss. Cyril and	1999,	
	22.1.				Programming		Methodius 2006 University, Skopje		
		2.							
		<u>2.</u> 3.							
	Supplemental Instruction Materials								
		No.			Title		Publisher Yea		
	22.2.								