

Add. 3		Course program for the first, second and third level (cycle) of studies				
1.	Course title	Basics of programming				
2.	Code	250				
3.	Study group(s)	all				
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje				
5.	Level (first, second, third)	First				
6.	Academic year / semester	Second / summer	7.	ECTS credits	6	
8.	Instructor	Nikola Tuneski, Roza Aceska				
9.	Prerequisites	None				
10.	Course objectives (competences): Introduction to the structure and some toolboxes of MATLAB (Symbolic Math, Curve Fitting and Optimization).					
11.	Course content: Introduction with MATLAB, with basic algorithm structures and the concept of programming languages. Realization of standard algorithm constructions in MATLAB.					
12.	Study methods: interactive lectures, auditory and laboratory practice, homework, self-learning					
13.	Total hours	6 ECTS x 30 hours = 180 hours				
14.	Hours allocation per activity:	30+30+0+30+90 = 180 hours				
15.	Lectures/Lab	15.1.	Lectures	30 hours		
		15.2.	Lab (student work)	30 hours		
16.	Project Work/Assignments	16.1.	Project assignments	0 hours		
		16.2.	Individual assignments	30 hours		
		16.3.	Self-learning	90 hours		
17.	Points/Marks:					
	17.1.	Tests			90 points	
	17.2.	Projects			0 points	
	17.3.	Attendance			10 points	
18.	Grading scale	Under 50		5 (five) (F)		
		51 - 60 points		6 (six) (E)		
		61 - 70 points		7 (seven) (D)		
		71 - 80 points		8 (eight) (C)		
		81 - 90 points		9 (nine) (B)		
		91 - 100 points		10 (ten) (A)		
19.	Prerequisites for taking the final exam	activity 17.3				
20.	Language of Instruction	Macedonian				
21.	Course evaluation	Student questionnaire				
22.	Textbooks					
	22.1.	Instruction materials				
		No.	Author	Title	Publisher	Year
		1.	N. Tuneski, E. Celakoska	Introduction to MATLAB	Faculty of Mechanical Engineering – Skopje	2010
		2.				
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	D. Cakmakov	Computers, Algorithms, Programming	Ss. Cyril and Methodius University	2006
		2.	A. Gilat	MATLAB: An Introduction with Applications (serb. transl.)	Wiley	2004