Add. 3			Course program for	or the) fi	rst, second and t	hird le	vel (cy	cle) of studi	es	
4	Caura	~ +:+I			۸ ۰	anliad Ontimination					
1. 2.	Course title				Applied Optimization						
3.	Code Study group(s)				259						
4.						Mechatronics Institute of Mechatronics;					
4.						Department of Mathematics and Informatics					
5.						First					
6.	Academic year / semester					Third / winter 7. ECTS credits 6					
8.	Instructor				Aleksa Malcheski, Roza Aceska						
9.	Prerequisites				none						
10.	Course objectives (competences): Introduction to the basics of various optimization methods. Competence for their application in modeling and solving engineering problems with the use of computer software.										
11.	Course content: Formulating optimization problems and mathematical modeling. Optimization with and without constraints. Examples from engineering. Use of computer software for optimization.										
12.	Study methods: interactive lectures, auditory practice, homework,self-learning										
13.	Total h					6 ECTS x 30 hours = 180 hours					
14.							80 = 18	80 hour			
15.	Lectur	es/L	.ab	15.1 15.2					30 hours		
40	Desire					Student work	anto		30 hours 40 hours		
16.	Projec	Project Work/Assignments 16 16			Project assignments			40 Hours			
					2.	2. Individual assignments			0 hours		
					3. Self-learning			80 hours			
17.	7. Points/Marks:										
	17.1.	Те	ests		Į.			50 pc	50 points		
	17.2.	Pr	Projects			40 pc			oints		
	17.3. Attendance				10 pc			oints			
18.	Gradir	ng so	cale					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)		
19.	Prerequisites for taking the final exam					91 - 100 points 10 (ten) (A) activity 17.3					
20.	Language of Instruction				Macedonian						
21.	Course evaluation				S	Student questionnaire					
						-					

22.	Textboo	_	tion materials						
		Instruction materials							
		No.	Author	Title	Publisher	Year			
	22.1.	P. Venkataraman		Applied Optimization with Matlab Programming	John Wiley &S Sons, NY	2002			
		2.	B.D. Bandi	Basic Optimization Methods	Edvard Arnold Publ., London	2006			
		3.	R. Fletcher	Practical Methods of	John Wiley & Sons	2000			

				Optimization						
					1					
	22.2.	Supplemental Instruction Materials								
		No.	Author	Title	Publisher	Year				
		1.	J. Petrić, S. Zlobec	Nonlinear Programming	Научна мисла, Београд	1983				
		2								