Add. 3		Course program for the second level (second cycle - postgraduate) of studies			
1.	Course title		Selected topics in applied mathematics		
2.	Code		1M4SEE01		
3.	Study group(s)		SEE		
4.	The organizer of the study program (unit, institute, department)		"Ss. Cyril and Methodius" University in Skopje, Faculty of Mechanical Engineering - Skopje		
5.	Level (first, second, third degree)		Second		
6.	Academic year / semester		V / winter	7. ECTS credits	6
8.	Professor(s)		Prof. dr. Aleksa Malcheski Ass. Prof. dr. Bojan Prangoski		
9.	Prerequisites for enrolling the course		None		
10.	Course objectives (competences): Introduction to selected topics in numerical analysis, optimization, linear algebra, differential equations and complex analysis.				
11.	Course content: Solving problems in numerical mathematics, optimization, differential equations and complex analysis. Application of software tools in solving problems in the topics of the course.				
12.	Study methods: lectures, lab, project assignments, individual assignments, self-study.				
13.	Total hours		6 ECTS x 30 = 180 hours		
14.	Hours allocation per activity:		30+15+40+30+65 = 180 hours		
15.	Lectures/Lab	15.1.	Lectures (15 weeks x 2)		30 hours
		15.2.	Lab (student work)		15 hours
16.	Project Work/Assignments	16.1.	Project assignments		40 hours
		16.2.	Individual assignments		30 hours
		16.3.	Self-study		65 hours
17.	Points/Marks:				
	17.1.	Exams			40
	17.2.	Projects			50
	17.3.	Attendance			10
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 16.1		
20.	Language		English		
21.	Course evaluation		Student questionnaire		
22.	Textbooks				
	22.1	Instruction materials			
		No.	Author	Title	Publisher	Year

		1.	R. Fletcher	Practical methods of optimization	John Willey and Sons	2006
		2.	Alhfors L.	Complex analysis	McGraw Hill	2009
		3.	S. Axler	Linear Algebra Done Right	Springer	2004
	22.2	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	A. Ralston, P. Rabinowitz	A First Course in Numerical Analysis	Dover Publications	2001