Add	. 3		Course program fo	or the	fi	rst, second and third l	evel (cy	cle) of studies					
1.	Course title				Mathematics 1								
2.	Code				185								
3.	Study group(s)				All groups								
4.	The organizer of the study program					Faculty of Mechanical Engineering - Skopje							
	(unit, institute, department)												
5.					First								
6.	Academic year / semester				First / winter 7. ECTS credits 6								
8.	Instructor				Aleksa Malcheski, Lazo Dimov, Ljubica Stefanova								
9.	Prerequisites					ne							
10.	Course objectives (competences): Introduction to the basic concepts of vector algebra, analytic geometry in three dimensional Euclidean space and differential calculus. Competence in using vector algebra and differential calculus for modeling and solving engineering problems.												
11. 12.	Course content: Introduction to the basics of vector algebra and analytic geometry in three dimensional Euclidean space. Review and characteristics of the elementary functions. Introduction to the concepts of limit, continuity and differentiability of a function in one real variable. Deeper understanding of the basic techniques. Study methods: lectures, auditory practice, homework, self-learning												
13.	Total hours					6 ECTS x 30 hours :							
14.		Hours allocation per activity:			45+30+0+20+85 = 180 hour								
15.	Lectures/Lab 15								_				
10	Desired	A/		15.2	_	Lab (student work)		30 hours					
16.	Project Work/Assignments 16			16.1	Project assignments 0 hours		0 hours						
	1				•	Individual assignments		20 hours					
				16.3		Self-learning		85 hours					
17.	Points/N						00.0	- 1- 4-					
		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	<u> </u>				
						71 - 80 points		8 (eight) (C					
						81 - 90 points		9 (nine) (B					
	L					91 - 100 points		10 (ten) (A	.)				
19.	Prerequisites for taking the final exam					activity 17.3							
20.	Language of Instruction					Macedonian							
21.	Course	evaluatio	n		S	tudent questionnaire							
22.	Textbooks												
	Instruction materials												
		No.	Author			Title		Publisher	Ye				
	22.1.	1.	L. Dimov		ſ	Mathematics 1	Me	Cyril and thodius University Skopje	200				
		2.	N. Tuneski, B. Jolevska – Tunes	ka	Γ	Differential Calculus	Ss	Cyril and thodius University	201				

					in Skopje					
		3.	I. James, Glyn	Modern Engineering Mathematics	Pearson, Prentice Hall	2008				
		4.								
	22.2.	Supplemental Instruction Materials								
		No.	Author	Title	Publisher	Year				
		1.	A.Malceski	Mathematics 1 (lecture notes)	Faculty of Mechanical Engineering – Skopje	1994				
		2	Lj. Stefanova	Mathematics 1 (lecture notes)	Faculty of Mechanical Engineering – Skopje					