Add. 3		Course program for the first, second and third level (cycle) of studies										
1.	Course title				Linear Algebra							
2.	Code				183							
3.	Study group(s)					Production Engineering,						
					Engineering Design, Mechanization and Logistics,							
						Motor Vehicles,						
						Internals Welding and Structural Engineering						
4.	The organizer of the study program					Faculty of Mechanical Engineering - Skopje						
5	(unit, institute, department)					First						
6	Academic year / semester				Second / winter 7. ECTS credits 6						_	
8.	Instructor				Aleksa Malcheski, Lazo Dimov, Liubica Stefanova						_	
9.	Prerequisites				completed Mathematics 1						_	
10.	Course objectives (competences):											
	Introduction to the basics of linear algebra, vector calculus, number and function series, differential equation and their application. Competence in solving mathematical problems arising in the engineering practice.											
11.	Course content: Determinants, matrices and their application. Vector calculus. Line and surface integrals. Series expansion of functions. Differential equations with function coefficients that can be transformed into differential equations with constant coefficients. Systems of differential equations. Introduction to partial differential equations.											
12.	2. Study methods: lectures, auditory practice, homework, self-learning											
13.	Total hou	rs			6 ECTS x 30 hours = 180 hours							
14.	Hours all	ocation	per activity:	4 - 4	30+30+0+30+90 = 180 hours						_	
15.	Lectures/	Lab		15.1	1. Lectures				30 nours		-	
16	Project W	/ork/Ass	ianments	15.2	1 Project assignments				0 hours		_	
	10			16.2	2. Individual assignments				30 hours			
		16.			3. Self-learning				90 hours			
17.	Points/Marks:											
	17.1. Tests							90 pc	90 points			
	17.2. Projects							0 00	0 points		_	
	17.3 Attendance							10 pc	10 points		-	
10											_	
18.	Grading scale					51 - 60 points			5 (live) (F)			
					51 - 60 points							
					71 - 80 points				8 (eight) (C)		-	
					71 - 80 points				9 (nine) (B)		-	
						91 - 100 points 10 (ten) (A)					4	
19.	Prerequisites for taking the final exam					activity 17.3						
20.	Language of Instruction					Macedonian						
21.	Course evaluation					Student questionnaire						
22.	Textboo	ks									_	
	Instruction materials											
	22 1 No. Author				Title			Publisher		Year		
		1.	B.Trpenoski,		4	Advanced Calculu	us 1	Pro	svetno delo,		1994	
	N.Celakoski,				Advanced Calculus 2			Sko	Skopje			

			Gj. Chupona Ad		anced Calculus 3						
		2.	L.Dimov	Diff (lec	erential Equations cture notes)	Faculty of Mechanical Engineering – Skopje	2004				
		3.	I.Shapkrev	Ma Ma	thematics 3 thematics 4	Ss. Cyril and Methodius University	1993				
		4.									
		Supplemental Instruction Materials									
	22.2.	No.	Author		Title	Publisher	Year				
		1.	E. Atanasova		Mathematics 2	Ss. Cyril and Methodius University	2002				
		2	N.Celakoski		Differential Equations: exercises and problems	Faculty of Mechanical Engineering – Skopje	1986				