Add.	. 3	Course program	n for th	ne first, second ar	nd thi	rd degre	e of studies	;	
1.	Course title			Analysis by the finite element method					
2.	Code			108					
3.	Study group(s)			IND					
4.	(unit, institute, department)			Faculty of Mechanical Engineering - Skopje,					
				Ss. Cyril and Methodius University in Skopje					
5.		t, second, third)		First					
6.	Academic year / semester			ummer	credits		of ECTS	6	
8.	Instructor			Associated professor PhD Petar Simonovski					
9.	Prerequisites Materials, technologies and tests – signature Technical mechanics 1 - passed								
10.	Course objectives (competences): Ability of the student - future industrial designer to calculate the stresses in the parts of the products with a complex configuration by applying the finite elements method by the introduction of commercial application programs.								
11.		Course content: Modeling and discretisation of industrial products and application of method.							
-									
	Finite Element types: Line, surface and space. Stresses, deformations and displacements, their presentation, animation and interpretation.								
12.	•	thods: interactive lectures,			ahara	tory proc	tion colf run	nina	
12.		am work projects, self learr		ry practice and/or i	abula	iory prac	lice, sell full	illig	
13.	Total hour		iiiig	6 FCTS v 30	classe	s – 180 (rlaceae		
14.		ocation per activity:		6 ECTS x 30 classes = 180 classes 30 + 30 + 15 + 15 + 90 = 180 classes					
15.	Lectures/L		15.1.					classes	
10.	15							classes	
				work			00	olacoco	
16.	Project W	Project Work/Assignments 1		Project assignments			15	classes	
			16.2.	Selfrunning assi	ignme	nts	15	classes	
				Home studying			90	classes	
17. Points/Marks:									
	17.1. Tests					80 points			
	17.2. Projects					15 points			
	17.3. At	tendance		5 poin			5 points		
18.	Grading s	cale	J	l Jr	nder 5	0	5.0	(five) (F)	
	Grading oddio			51 - 60 points			6 (six) (E)		
				61 - 70				ven) (D)	
				71 - 80 points			8 (eight) (C)		
			F	81 - 90 points			9 (nine) (B)		
				91 - 100 points 10 (ten) (A)					
19.	·	ites for taking the final exa		Implemented activities 17.2 and 17.3					
20.		of Instruction		Macedonian language					
21.	Course evaluation Surveys and other forms of continuous activities					es			

22.	Textbooks							
		Instruction materials						
	22.4	No.	Author	Title	Publisher	Year		
	22.1.	1.	Paul Kurowski	Finite elements for design engineers	McGraw-Hill	2010		

	2.	SolidWorks Corp.	Solid Works Simulation and	SolidWorks	2011		
			Motion Guide	Corp.			
	3.						
22.2.	Supplemental Instruction Materials						
	No.	Author	Title	Publisher	Year		
	1.	Budinas - Nisbett	Shigley's Mechanical Engineering Design	Mc Graw Hill	2010		