Add. 3 Course program	Course program for the first, second and third level (cycle) of studies								
Course title		Computer Aided Engineering							
2. Code	17	71							
5. Study group(s)	P	Pl							
The organizer of the study progra	am Fa	Faculty of Mechanical Engineering - Skopje,							
(unit, institute, department)	S	s. Cyril and Methodius Ur	niversity in Skopje						
5. Level (first, second, third)	Fi	First							
Academic year / semester	emic year / semester winter 7. ECTS credits								
Instructor	Pi Pi	Prof D-r Ljuben Dudeski Prof D-r Atanas Kochov							
Prerequisites	N	/A							
0. Course objectives (competences Introducing the concept of compu- modeling and analysis of their sta	Course objectives (competences): Introducing the concept of computer-aided engineering analysis of mechanical structures, modeling and analysis of their static and dynamic behavior analysis of stress-strain.								
the final element method. Comm static and dynamic analysis and element method, modern applica	ercial pack other phen itions to so	ages with FEM analysis a omenona. Fundamentals lve problems in solid, stru	and their application for and principles of the final actural and fluid mechanics.						
Interactive lectures, exercises au project assignments, self-study.	Interactive lectures, exercises auditory and / or laboratory, individual and / or team working on project assignments, self-study.								
3. Total hours		6 ECTS x 30 hours =	= 180 hours						
4. Hours allocation per activity:		30 + 30 + 30 + 30 +	60 = 180 hours						
5. Lectures/Lab	15.1.	Lectures	30 hours						
	15.2.	Lab (student work)	30 hours						
6. Project Work/Assignments	16.1.	Project assignments	30 hours						
	16.2.	Individual assignments	30 hours						
	16.3.	Self-study	60 hours						
7. Points/Marks:									
17.1. Tests			70 points						
17.2. Projects	17.2. Projects								
17.3. Attendance	17.3. Attendance								
8. 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)						
9. Prerequisites for taking the final e	exam	Realized activity 17.2							
		Macedonian							
20. Language of Instruction	ļſ	Macedonian							
20. Language of Instruction 21. Course evaluation		Student questionnaire							
20. Language of Instruction 21. Course evaluation 22. Textbooks		Student questionnaire							

	Instruction materials						
22.1.	No.	Author	Title	Publisher	Year		
	1.	Daryl Logan	A First Course in the	Oxford	2005		
			i Finite Element Method				

		2.	Lj. Dudeski, A. Kochov	CAE	Intern Script Faculty of Mechanical Engineering - Skopje	2009
		3.				
		Supple	mental Instruction Materials			
	00.0	No.	Author	Title	Publisher	Year
	22.2.	1.				
		2.				