Add	. 3	Course program for	or the	first, second and third lev	vel (cycle) of studies			
1.	Course	title		Rapid prototyping technology, models and tools				
2.	Code			315	, p			
3.	Study group(s)			P.Inf, PE, TML, TI, HIMV, MSKI, IIM, MV, EE, MHT, AUS, IND, DK				
4.	The org	anizer of the study program		Faculty of Mechanical Engineering - Skopje,				
	(unit, institute, department)			Ss. Cyril and Methodius University in Skopje				
5.	Level (first, second, third)			First				
6.	Academic year / semester			summer 7. ECTS credits 6				
8.	Instruct			Prof D-r Atanas Kochov				
9. 10.	Prerequ		l l	N/A				
	Course objectives (competences): Introduction to the methodology of modern and fast product development through technologies of rapid prototyping and rapid tool, competitive engineering, models and tools for rapid prototyping, economic and environmental aspects, the application of rapid prototyping technologies in mechanical engineering and other technological areas.							
11.	Course content: Basics, Definitions and Application levels, Overview of new trends in product development reverse engineering, rapid prototyping technologies, rapid manufacturing, rapid tooling, stereo lithography, laser sintering, 3D printing, 3D scanning, making tools for rapid prototyping, software technologies for rapid prototyping.							
12.	Study methods: Interactive lectures, exercises auditory and / or laboratory, individual and / or team working on project assignments, self-study.							
13.	Total ho			6 ECTS x 30 hours = 180 hours				
14.		allocation per activity:	15.1	30 + 30 + 30 + 30 + 6				
15.	Lecture				30 hours			
16.	Droinet	Project Work/Assignments		. Lab (student work)	30 hours 30 hours			
10.	Project	Work/Assignments	16.1	. Project assignments	30 flours			
			16.2	. Individual assignments	30 hours			
			16.3	. Self-study	60 hours			
17.	Points/N							
	17.1.	Tests			70 points			
	17.2. Projects 17.3. Attendance				20 points			
					10 points			
18.	Grading scale			Under 50	5 (five) (F)			
			Ī	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.	Prerequ	uisites for taking the final exa	ım	Realized activity 17.2				
20.	Language of Instruction			Macedonian				
21.	Course	Course evaluation Student questionnaire						
22	Toytho							

22.	Textbooks						
	22.1	Instruction materials					
	22.1.	No.	Author	Title	Publisher	Year	

	1.	A. Kochov	Rapid prototyping technology, models and tools	Intern Script Faculty of Mechanical Engineering - Skopje	2009			
	2.	M. Planchak	Rapid prototyping technology, models and tools	University of Novi Sad, Faculty of Technical Science	2009			
	3.							
	Suppl	Supplemental Instruction Materials						
	No.	Author	Title	Publisher	Year			
22.2	1.	Andreas Gebhard	Rapid prototyping: principles and applications	Hanser Publisher, Munich	2003			
	2.	Frank W. Liou	Rapid prototyping and engineering applications: a toolbox for prototype development		2007			