Add.	. 3	Course program for the first, second and third level (cycle) of studies											
1					Design tools and systems for plastic masses								
1.	Code				129								
3.	Study group(s)					Plnf.							
4.	The organizer 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				winter 7. ECTS credits 6								
8.	Instructor				Prof D-r Jasmina Caloska								
9. 10	Course of	hiective	s (competences):										
11.	Course content: Development and application of plastic division and features plastic processing technologies, tools and their division and characteristics, tools elements, design, construction, selection of the plates, selection of plains of opening and running, disposal systems, input channels, heating and cooling systems, tools for simple castings, tools with more nests, tools with disposal plate, tools for castings in multiple colors, insertion tools with different inserts, twoss of machines for												
12.	plastic processing technologies. Study methods: Interactive lectures, exercises auditory and / or laboratory, individual and / or team working on project assignments, self-study.												
13.	Total hou	rs		6 ECTS x 30 hours =	180 ho	ours							
14.	Hours allo	ocation p	per activity:			30 + 30 + 30 + 30 + 6	60 = 18	0 hours					
15.	Lectures/	Lab		15.1	. L	ectures		30 hours					
16	Droject \A	lork/A oo	ianmonto	15.2		ab (student work)		30 hours					
10.	Project W	Project Work/Assignments		10.1	· P	Project assignments		30 110015					
				16.2	2. Ir	ndividual assignments		30 hours					
				16.3	3. S	elf-study		60 hours					
17.	Points/Ma	arks:					1	70					
	17.1. I	ests						70 points					
	17.2. P	rojects						20 points					
	17.3. A	ttendan	ce					10 points					
18.	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)					
						91 - 100 points 9 (nine) (
19.	Prerequisites for taking the final exam					Realized activity 17.2							
20.	Language of Instruction					Macedonian							
21.	Course evaluation					Student questionnaire							
22.	Textbooks												
		Instruction materials											
	22.1.	No. Author				Title		Publisher Year					

		1.	J. Caloska, A. Kochov	Design tools and systems for plastic masses	Faculty of Mechanical Engineering - Skopje	2011					
		2.									
		3.									
		Supplemental Instruction Materials									
	22.2.	No.	Author	Title	Publisher	Year					
		1.	J. Caloska	Construction of molds for plastic injection	(Internal script) Faculty of Mechanical Engineering - Skopje	2009					
		2.	J. Lazarev	Tools for plastic deformation	Faculty of Mechanical Engineering - Skopje	1998					
		3.	David O. Kazmer	Injection mold design engineering	Hanser Publishers Munich	2007					