Add.	. 3		Course program fo	or the	first, second and third le	vel (cy	cle) of studi	es				
1.	Course	title		1 -	dydraulic volume machines							
2.	Course title Code				Hydraulic volume machines 323							
3.	Study group(s)				HEWM, ACS							
4.			the study program		Faculty of Mechanical Engineering - Skopje,							
			partment)		Ss. Cyril and Methodius University in Skopje							
5.		rst, secor			First							
6.	Academic year / semester				Winter/summer 7. ECTS credits 6							
8.	Instructor				Prof. d-r Zvonimir Kostik							
9.	Prerequ				Fluid mechanics - passed							
10.	Course objectives (competences): Recognition, use and exploitation of hydraulic volume machines and power transfer. Design and realization of certain HVM constructions and hydrostatic transfers.											
11.	Course content: Getting familiar with the basic terms and definitions. Pumps with simple designs. Working parameters and characteristics of HVM. Working principles, designs, kinematic, hydraulic and dynamic parameters of certain types of pumps and hydromotors. HVM regulation. Hydrostatic transmissions - principle schemes, designs and regulation.											
12.		Study methods: Interactive lectures, practice, individual assignments, self learning.										
13.		fotal hours 6 ECTS x 30 classes = 180 classes										
14.	Hours a	s allocation per activity: $30 + 30 + 0 + 20 + 100 = 180 \text{ classes}$										
15.	Lectures	s/Lab	-	15.1.	Lectures		30	classes				
				15.2.			30	classes				
16.	Project Work/Assignments			16.1.	, 3			classes				
			16.2.	J J		20 classes						
4=				16.3.	. Self-study		100 classes					
17.	Points/N					1		O nainta				
	17.1.	Tests			80 poin			o points				
	17.2.	Projects					0 points					
	17.3.	Attendan	ce		10 + 10 poi			0 points				
18.	Grading	scale					five) (F)					
	_				51 - 60 points		6 (six) (E)					
					61 - 70 points	,		seven) (D)				
	Decrees in the first table of the first table							ight) (C)				
					81 - 90 points		9 (nine) (B)					
10					91 - 100 points	10 (ten) (A		ten) (A)				
19. 20.	Prerequisites for taking the final exam Language of Instruction				None Macedonian							
21.	Course evaluation				Student questionnaire							
22.	Textboo	oks										
Instruction materials												
		No.	o. Author		Title P		ublisher	Year				
	22.1.	1.	А. Ношпал		Хидраулични МФС волуменски машини		;	2011				
		2.			,							
		3.										
	00.0	Supplemental Instruction Mate			als	•		•				
	22.2.	No.	Author		Title P		Publisher Year					

	1.	3. Костиќ	Хидраулични машини	Скрипта, МФС	1992
			и уреди		
	2.	Т. М. Башта	Обемние насоси и	Машиностроен	1974
			гидравлические	ие, Москва	
			двигатели гидросистем		