Add.	. 3		Course program fo	or the	fir	st, second and t	hird	level (cy	cle) of stud	dies			
1.	Course	title		F	Fluid Dynamics and CFD								
2.	Code				141								
3.	Study group(s)					HEWM							
4.			the study program		Faculty of Mechanical Engineering - Skopje,								
			partment)	Ss. Cyril and Methodius University in Skopje									
5.	Level (first, second, third)					First							
6.			semester		Winter 7. ECTS credits 6								
8.	Instructo				prof. d-r Valentino Stojkovski								
9.	Prerequ	isites			Fluid Mechanics – signature Mathematics 1 - passed								
10.	Course objectives (competences): Profound knowledge of the fluid dynamics, the basics of CFD (Computational Fluid Dynamics), presentation, tutorial introduction to the popular numerical solving techniques and introduction with known CFD software's.												
11.	Course content: Uncompressible fluid dynamics (simple and complex pipeline system). Unsteady flows. Fluid flow around solid body. Fundamentals of compressible fluid dynamics. Basics of the CFD technology, application and reasons for using. One-dimensional numerical models. 2D and 3D fluid flow space defining and discretization. Initial and boundary conditions. Post-processing calculations.												
12.	Study methods: interactive lectures, auditory practice and/or laboratory practice, self running and/or team work projects, self learning												
13.	Total hours 6 ECTS x 30 hours = 180 hours												
14.			per activity:			30 + 30 + 60 +	20 -	+ 40 = 18	0 hours				
15.	Lectures/Lab 15								30 hours				
					Lab (student work)				30 hours				
16.	Project Work/Assignments				. Project assignments. Individual assignments			60 hours					
									20 hours 40 hours				
										40 Hours			
17.	Points/N							-		40 : 1			
	17.1.	Tests			40			40 points					
	17.2. Projects								50 points				
	17.3. Attendance					10			10 points				
18.	Grading	scale		Under 50			5	(five) (F)					
10.	Grading	Juaic		-	51 - 60 points		6 (six) (E)						
						61 - 70 points			7 (seven) (D)				
				-		71 - 80				eight) (C)			
							90 points		9 (nine) (B)				
						91 - 100			10 (ten)				
19.	Prerequisites for taking the final exam									\ <i>'</i>			
20.	Language of Instruction					Macedonian							
21.	Course evaluation					Student questionnaire							
22.	Textbooks												
		Instruc	tion materials										
	20.4	No.	Author		Title		Р	ublisher	Year				
	22.1.	1.	Anderson D., Tannehill I., Pletcher R.			omputational fluid echanics and hea ansfer							

	2.	Blazek J.	Computational fluid dinamics- principles and aplications						
	3.	Farrashkhalvat K, Miles J.P.	Basic structured grid generation						
	Supplemental Instruction Materials								
22.2.	No.	Author	Title	Publisher	Year				
	1.	М. Мирчевски	Механика на флуиди						
	2.	Т. Бундалевски	Механика на флуиди						