

Add. 3		Course program for the first, second and third level (cycle) of studies				
1.	Course title	Fluid Mechanics				
2.	Code	207				
3.	Study group(s)	PE, TML, TE, HEWM, MJSE, IEM, MV, EE, Mech, ACS				
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje				
5.	Level (first, second, third)	First				
6.	Academic year / semester	summer	7.	ECTS credits	6	
8.	Instructor	prof. d-r Valentino Stojkovski assoc. prof. d-r Zoran markov ass. prof. d-r Ana Lazarevska				
9.	Prerequisites	Mathematics 2 – passed				
10.	Course objectives (competences): Study of physical properties of the fluids and theoretical basics of the fluid statics and dynamics. Solving the systems with fluid flow. Settings and solving of the models of one- and multi-dimensional flows. Ability to solve a elementary practical problems in hydraulics.					
11.	Course content: Physical properties of the fluids. Fluid statics. Fluid flow kinematics. Dynamics of the ideal fluid. Elementary flows of the ideal fluid. Viscous fluid flow. Methods of the applied fluid mechanics (hydraulics).					
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.	Hours allocation per activity:	30 + 45 + 30 + 15 + 60 = 180 hours				
15.	Lectures/Lab	15.1.	Lectures	30 hours		
		15.2.	Lab (student work)	45 hours		
16.	Project Work/Assignments	16.1.	Project assignments	30 hours		
		16.2.	Individual assignments	15 hours		
		16.3.	Self-study	60 hours		
17.	Points/Marks:					
	17.1.	Tests			80 points	
	17.2.	Projects			10 points	
	17.3.	Attendance			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)		
		81 - 90 points		9 (nine) (B)		
		91 - 100 points		10 (ten) (A)		
19.	Prerequisites for taking the final exam					
20.	Language of Instruction					
21.	Course evaluation					
21.	Student questionnaire					
22.	Textbooks					
	22.1.	Instruction materials				
		No.	Author	Title	Publisher	Year
		1.	T. Бундалевски	Механика на флуиди	МБ-3, Скопје	1995
2.	М. Мирчевски	Збирка задачи – хидростатика и аеростатика	ПГД Ваша Книга-Скопје	2002		

		3.	M. Мирчевски	Збирка задачи – хидродинамика	ПГД Ваша Книга-Скопје	2004
	22.2.	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	White F.M.	Fluid Mechanics	Mc-Graw Hill	2008
		2.	Cantrak S et al.	Mehanika fluida – Reseni zadaci sa izvodima iz eorije	IRO Gradjevinska knjiga-Beograd	1989