Add	. 3	Course program f	or the	first, second and th	nird level (cy	/cle) of studi	ies	
1.	Course	title	E	Engines and fuels				
2.	Code			220				
3.	Study group(s)			PI, TML, HIMV, MSKI, IIM, MV, MHT, AUS				
4.		ganizer of the study program		Faculty of Mechanical Engineering - Skopje,				
		stitute, department)		Ss. Cyril and Methodius University in Skopje				
5.		first, second, third)		First				
6.	Acade	nic year / semester	V	Vinter	7. Numbe	r of ECTS	6	
	•			credits				
8.	Instructor			Ass. Prof. Dame Dimitrovski, D. Sci.				
9.	Prerequisites			Thermodynamic - sig	nature			
10.	Course	objectives (competences):						
	Introduction to theoretical and practical part of engines, analysis of engines, other systems						ns,	
			sic engines parameters. Fuels, liquid fuels, alternative fuels.					
11.		content:			_			
		ction, Historical development						
		analysis. Calculation and de		Otto, Diesel and Sal	bathe. Heat t	transfer, ener	gy. IC	
		s systems. Pollution from eng			0 1 "			
		and lubricants: Definitions, so			s. Crude oil,	derivates,		
40	characteristics of fuels, biofuels, lubricants Study methods: Teaching lectures, auditory/laboratory practice, self/team work, home studding							
12.			auditor				uaaing	
13.	Total h			6 ECTS x 30 ho				
14. 15.		allocation per activity:	I .	J +6U = 18U	1	20 hours		
15.	Lectur	es/Lab 1				30 hours 30 hours		
16.	Drojec	Work/Assignments	15.2. 16.1.			30 hours		
10.	6. Project Work/Assignments		16.2.				30 hours	
			16.3.		Herito			
	.		16.3.	3. Self-study		60 hours		
17.	Points/Marks:							
	17.1. Tests				9	0 points		
	17.2. Projects					8 points		
	17.3. Attendance			2		2 points		
18.	Grading scale			Under 50		5 ((five) (F)	
		_		51 - 60 p	oints	6	(six) (E)	
				61 - 70 p	oints	7 (se	ven) (D)	
				71 - 80 p		8 (e	ight) (C)	
				81 - 90 points		9 (nine) (B)		
				91 - 100 p	oints	10	(ten) (A)	
19.	Prerequisites for taking the final exam			Research and presentation for the Project 17.2 Homework				
20.	Language of Instruction			Macedonian				
21.	Course evaluation (Continuous evaluation and review.				

22.	Textbooks							
	22.1.	Instruction materials						
		No.	Author	Title	Publisher	Year		
		1.	Mile Dimitrovski	Contemporary IC engines and systems	UKIM	2003		

	2.	Gjorge Davidovic	Fuels	UKIM	2041		
	3.						
	Supp	Supplemental Instruction Materials					
22	2. No.	Author	Title	Publisher	Year		
	1.	Mile Dimitrovski	Theory and analysis of IC engines	UKIM	2003		
	2.	Dame Dimitrovski	Selection of resolved tasks	Internal issue MFS	2011		
	3.	Mile Dimitrovski Todor Davcev Elenior Nikolov	Practicum IC engines	UKIM	2003		