Add.	. 3	Course program	for the	first, second and	third	level (cy	cle) of studi	es	
1.	Course	e title	I	IC engines and the environment					
2.	Code			221					
3.	Study	group(s)	Е	EE					
4.		ganizer of the study program) F	aculty of Mechanic	al En	gineering	- Skopje,		
	(unit, ii	nstitute, department)		Ss. Cyril and Methodius University in Skopje					
5.		first, second, third)		First					
6.	Acade	mic year / semester	٧	Vinter	7.	Number credits	of ECTS	6	
8.	Instruc	tor	N	Mile Dimitrovski					
9.	Prerec		1	Thermodynamic					
10.	Course objectives (competences): Introduction to theoretical and practical part of engines, analysis of engines, other systems, calculation of basic engines parameters. Emission from engines. Resolving the emission from engines.								
11.	Course content: Introduction, Historical development, types. Construction and basic parts. Theoretical and real cycles, analysis. Calculation and design of Otto, Diesel and Sabbath. Heat transfer, energy. IC engines systems. Pollution from engines. Pollution, emissions, emission. Solutions for resolving the emission in IC engines.								
12.	Study	methods: Teaching lectures,	auditor	y/laboratory practic	e, se	f/team wo	ork, home stu	udding	
13.	Total h	ours	6 ECTS x 30 hours = 180 hours						
14.	Hours	allocation per activity:		30 + 30 + 30 + 30 + 60 = 180 hours					
15.	Lectur	es/Lab	15.1.			(7)	0 hour		
			15.2.	,			30 hour		
16.	Project Work/Assignments 16					30 hou			
			16.2.	Individual assignments		30 hour			
			16.3.	3. Self-study			6	0 hour	
17.	Points/Marks:								
	17.1.	Tests				9	0 point		
	17.2.	Projects					8 points		
	17.3.	Attendance					2 points		
18.	Grading scale			Ur	der 5	0	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.	Prerec	uisites for taking the final exa	am	Research and presentation for the Project 17.2 Homework					
20.	Language of Instruction			Macedonian					
21.	Course evaluation			Continuous evaluation and review.					
22	Textbo			<u> </u>		· · · · · · · · · · · · · · · · · · ·			

22.	Textbooks							
		Instruction materials						
		No.	Author	Title	Publisher	Year		
	22.1.	1.	Mile Dimitrovski	Theory and analysis of IC engines	UKIM	2003		
		2.	Mile Dimitrovski	Engines and the environment	UKIM	2011		

	3.	Dame Dimitrovski	Selection of resolved tasks	Internal issue MFS	1978			
	Supplemental Instruction Materials							
	No.	Author	Title	Publisher	Year			
22.2.	1.	Nicholas P. Chermisinoff	Handbook of solid waste management and waste minimization technologies	Academic press	2003			
	2.	George Tchobanoglous, Frank Kraith	Handbook of solid waste management	The Royal Society of Chemistry	2002			
	3.							