Add. 3	**Course program for the second level (second cycle - postgraduate) of studies**						
1.	Course title			Eco engines			
2.	Code			1M6SEE04			
3.	Study group(s)			SEE			
4.	The organizer of the study program (unit, institute, department)			"Ss. Cyril and Methodius" University in Skopje, Faculty of Mechanical Engineering - Skopje			
5.	Level (first, second, third degree)			Second			
6.	Academic year / semester			V / summer	7.	ECTS credits	6
8.	Professor			Prof. d-r Mile Dimitrovski			
9.	Prerequisites for enrolling the course			None			
10.	Course objectives (competences): Analytical approach to combustion in IC engines improving performances of engines, measuring in engines. Understanding hybrid technologies, alternative fuels for IC engines end characteristics.						
11.	Course content: Learning the contemporary models of eco engines, hybrid motor system, engines on gaseous fuels, bio fuels and new fuels. Interaction between engine construction and alternative fuels.						
12.	Study methods: Interactive lectures, auditory and/or laboratory practice, selfrunning and/or team work on project assignments, selfrunning assignments						
13.	Total hours			6 ECTS x 30 = 180 hours			
14.	Hours allocation per activity:			30 + 30 + 30 + 30 + 60 =180 hours			
15.	Lectures/Lab		15.1.	Lectures (15 weeks x 2)			30
			15.2.	Lab (student work)			30
16.	Project Work/Assignments		16.1.	Project assignments			30
			16.2.	Individual assignments			30
			16.3.	Self-study			60
17.	Points/Marks:						
	17.1.	Exams					50
	17.2.	Projects					45
	17.3.	Attendance					5
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			Presented projects			
20.	Language			English			
21.	Course evaluation			Student questionnaire			
22.	Textbooks						
	22.1	Instruction materials					
		No.	Author	Title		Publisher	Year

		1.	Mile Dimitrovski	ECO Engines	Internal issue	2008
		2.	Handbook of Air Pollution from Internal Combustion Engines: Pollutant Formation and Control	Eran Sher	Academic Press	1998
		3.	Transport and the environment	R. E. Hester, R. M. Harrison	RS.C advanced chenical science	2006
	22.2	Supplemental Instruction Materials				
		No.	Author	Title	Publisher	Year
		1.	The biodiesel handbook	Van Gerpen, Knothe and others	AOCS Press, Illinois	2005