Add. 3 Course program for the second level (second cycle - postgraduate) of studies											
1.	Course title			Energy efficiency							
2.	Code			1M6SEE03							
3.	Study group(s)			SEE							
4.	The organizer of the study program (unit,			"Ss. Cyril and Methodius" University in Skopje,							
	institute, department)			Faculty of Mechanical Engineering - Skopje							
5.	Level (first, second, third)			Second							
6.	Academic year / semester			V / winter 7. ECTS credits 6							
8.	Professor			Prof. dr. Done Tashevski							
9.	Prerequisites			None							
10.	Course objectives (competences):										
	Candidates are competent for analysis, modeling, optimization and implementation of different										
	systems for energy efficiency in different areas such as buildings, industry, agriculture and										
	forestry, and transport with introducing a complete energy management in these areas.										
11.	Course content:										
	Methods for analyzing modern systems for energy efficiency.										
	Introdusing the existing models for the calculation of processes and systems for energy										
	efficiency.										
	Ways for optimization and selection of parameters in which optimizes the system in order to										
		meet the energy efficiency criteria. Implementation of analyzed, modeled and optimized systems to specific examples.									
12.											
12.					6 ECTS x 30 = 180 hours						
13.	Hours allocation per activity:			30 + 15 + 40 + 30 + 65 = 180 hours							
15.	Lectures/Lab 15.7										
15.	5. Lectures/Lab 15.				Lab (student work)		15 hours				
16.							40 hours				
10.			10.11	•			10 110015				
		16.			Individual assignments		30 hours				
			16.3.		Self-study		65 hours				
			10.5	•	Self-study		05 110018				
17.	Points/Marks:										
	17.1. Exams						40				
	17.2. Projects					50					
	17.3.	Attendance					10				
18.	8. Grading scale			Under 50			5 (five) (F)				
	C				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.	19. Prerequisites for taking the final exam				Activity 16.1						
20. Language				English							
21.	21. Course evaluation			Student questionnaire							

22.	Textbooks										
	22.1	Instruction materials									
		No.	Author	Title	Publisher	Year					
		1.	D. Tashevski	Energy efficiency	Selected	2014					
					lectures and						
					handouts						
		2.	D.R. Wulfinghoff	Energy efficiency	Energy	1999					
					institute press						
		3.	P. Bertoldi	Energy efficiency	Springer	2007					
	22.2	Supplemental Instruction Materials									
		No.	Author	Title	Publisher	Year					
		1.	D. R. Wulfinghoff	Energy Efficiency Manual	Energy institute press	2000					