

Add. 3		Course program for the first, second and third level (cycle) of studies					
1.	Course title	Non-conventional power plants					
2.	Code	1M6SEE01					
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)	Second					
6.	Academic year / semester	V / Summer	7.	ECTS credits	6		
8.	Professor	Prof. dr. Slave Armenski					
9.	Prerequisites	None					
10.	Course objectives (competences): Profound knowledge about unconventional - modern plants to analyze, design, analysis and selection of advanced equipment, technical control, supervision and inspection during construction, exploitation and maintenance, environmental protection						
11.	Course content: Introducing the unconventional modern plants for electricity (solar, geothermal, biomass, solid municipal waste); gaseous fuel plants: thermal cycling: heat balance and heat processes: efficiency coefficient: Equipment: economic and environmental aspects						
12.	Study methods:						
13.	Total hours	6 ECTS x 30 hours = 180 hours					
14.	Hours allocation per activity:	30+45+40+30+35 = 180 hours					
15.	Lectures/Lab	15.1.	Lectures (15 weeks x 2)	30 hours			
		15.2.	Lab (student work)	45 hours			
16.	Project Work/Assignments	16.1.	Project assignments	40 hours			
		16.2.	Individual assignments	30 hours			
		16.3.	Self study	35 hours			
17.	Points/Marks:						
	17.1.	Tests				50 points	
	17.2.	Projects				50 points	
	17.3.	Attendance					
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		Accomplished 16.1 and 16.2				
20.	Language		English				
21.	Course evaluation		Student questionnaire				
22.	Textbooks						
	22.1.	No.	Author	Title	Publisher	Year	
	1.	B.W.Wilkinson, R.W.Barnes	Cogeneration of Electricity and Useful Heat"	CRC Press, Inc, Boca Raton, Florida			

	22.2.	Supplemental Instruction Materials			
	No.	Author	Title	Publisher	Year
	1.	P.K.Nag	"Power Plant Engineering", Third Edition	Tata McGray-Hill Publishing Company Limited, New Delhi	2008