Add. 3			Course program for the first, second and third level (cycle) of studies										
1.	Course title					Energy Production Fundamentals							
2.	Code					244							
3.	Study group(s)					PE, TML, TE, HEWM, MJSE, IEM, MV, EE, MecH, ACS, DC							
4.	The org (unit, ir	ganizer of Istitute, de	the study program partment)		Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje								
5.	Level (first, secor	nd, third)		First								
6.	Acade	nic year /	semester		Summer 7. ECTS credits 6								
8.	Instruc	tor			Assoc. prof. Zoran Markov								
9.	Prerequisites Fluid Mechanics – passed												
10.	Course objectives (competences): Learning about all kinds of energy and its production, technical procedures and its wider social-economic importance. Learning methodologies for energy investigations, principles of its usage, planning of energy sources and their influence on the environment.												
11.	Course content: General definition of energy. Basic properties of the heat and electric energy. Basic energy sources. Fuels and their enrichment. Systems and devices for conversion and transformation of the energy. Terminology and turbine types. Hydrology analysis. Energy production and balance. Reproduction cycle in the material production system. Energy and economy growth. Rational energy production.												
	and/or	team work	c projects, self lear	ning	, , , , , , , , , , , , , , , , , , ,								
13.	Total h	ours			6 ECTS x 30 hours = 180 hours								
14.	Hours	allocation	per activity:		30 + 30 + 30 + 0 + 90 = 180			180 hours	hours				
15.	Lectures/Lab 15.					. Lectures		3	30 hours				
	15.2					Lab (student work)		30 h					
16.	Project	Work/Ass	signments	16.1	. Project assignments		3	30 hours					
				16.2	2.	Individual assignme	ents		0 hours				
17	16.					Sell-Sludy		90 hours					
17.	17 1	Toete						8	0 nointe				
								80 points					
	17.2.	Projects			10 pc			0 points					
- 10	17.3.	Attendan	се		10 po			0 points					
18.	Gradin	g scale				Under	Under 50 5 (five) (F)						
					51 - 60 points			6 (SIX) (E)					
						71 - 70 poi	nts	/ (Se	/en) (D)				
						7 1 - 60 poi	inte	0 (e	$\frac{\text{gn}}{\text{ino}}$ (C)				
						01 - 90 poi	inte	10 (ten) (A)					
19.	Prerequisites for taking the final exam					Fulfilled activity 17.2							
20.	Language of Instruction					Macedonian							
21.	Course	evaluatio	n		Student questionnaire								
22.	. Textbooks												
		Instruc	tion materials										
		No.	Author			Title		Publisher	Year				
	22.1.	1.	Ристиќ М.		О (г	пшта енергетика ревод на македонс	ки)	МФ-Београд					
		2.	Pozar H.		0	snove energetike 2		Skolska knjiga –Zagreb	1987				

		3.							
		Supplemental Instruction Materials							
	22.2.	No.	Author	Title	Publisher	Year			
		1.	Beggs C.	Energy: Management, Supply and Conservation	Elsevier	2009			
		2.	Cleveland C.J.	Encyclopedia of Energy	Elsevier Academic Press	2005			
		3.	Enerpedia	wikiOsnoveEnergetike	web				