

Add. 3		Course program for the first, second and third level (cycle) of studies			
1.	Course title	Power systems and environment			
2.	Code	149			
3.	Study group(s)	EE			
4.	The organizer of the study program (unit, institute, department)	Faculty of Mechanical Engineering - Skopje, Ss. Cyril and Methodius University in Skopje			
5.	Level (first, second, third)	First			
6.	Academic year / semester	summer	7.	ECTS credits	6
8.	Instructor	Ana Lazarevska, Asst. Prof. D.Sc.			
9.	Prerequisites	no			
10.	Course objectives (competences): Theoretical basics of the energy systems impacts on the environment. Providing advanced, fundamentals and practical knowledge of the theory and practice of environmental influence assessment from energy systems and the areas directly related to it, ie 1 (first) training students for the major steps / stages of the environmental influence assessment, 2. practical work on the specific case studies.				
11.	Course content: Power systems, process of creating the polluting components in the energy systems, environmental impacts in the strategic placement of systems, impacts on pollution from mobile sources of air pollution environmental impact assessment from existing buildings. Opportunities to reduce the impact environmental from systems, plants and mobile sources of pollution. Systems for the environmental protection. Theoretical basics of environmental impact assessment (EIA): Definition, objectives and purpose of the EIA, administration and practice of the EIA, EIA concept and associated processes, EIA study, key elements / stages, EIA role participation the public and stakeholders, phases that follow after EIA, Costs and benefits of the EIA, and an understanding of its strengths and limitations.				
12.	Study methods: Interactive lectures with presentations, laboratory exercises, exercises, tutorials (seminar work), team work, preparation and presentation of project work				
13.	Total hours	6ECTSx30 classes = 180 hours			
14.	Hours allocation per activity:	30 + 30 + 60 + 20 + 40 = 180 hours			
15.	Lectures/Lab	15.1.	Lectures	30 hours	
		15.2.	Lab (student work)	30 hours	
16.	Project Work/Assignments	16.1.	Project assignments	60 hours	
		16.2.	Individual assignments	20 hours	
		16.3.	Self-study	40 hours	
17.	Points/Marks:				
	17.1.	Tests			40 points
	17.2.	Projects			40 points
	17.3.	Attendance			20 points
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 17.1, 17.2, 17.3,			
20.	Language of Instruction	Macedonian			
21.	Course evaluation	Student questionnaire			
22.	Textbooks				
	22.1.	Instruction materials			

No.	Author	Title	Publisher	Year
1.	The Royal Town Planning Institute	Environmental Impact Assessment ' Planning Practice Guide.	The Royal Town Planning Institute	2001
2.	Обединети нации (ОН)	UN online EIA course (http://eia.unu.edu./index.html)	ОН	
3.	Хрвоје Пожар	Основи енергетике, Глава 11, Утјецај на средину	Школска књига Згреб	1978
Supplemental Instruction Materials				
No.	Author	Title	Publisher	Year
22.2. 1.	Glasson J., Thereviel R., Chadwick A.	Introduction to EIA,	The Natural and Build Environment Series,	2005
2.	Morris P., Therivel R.,	Methods of Environmental Impact Assessment,	The Natural and Build Environment Series.	2001
3.	R. Mwalyosi, R. Hughes, D. Howlett	Introduction Course on Environmental Impact Assessment in Tanzania, Resource Handbook.		1999