

Department of Civil and Environmental Engineering						
Study programme:	Environment Protection		Degree level: full- Master's degree time/part-time programme:			
Specialization	water, soil, air and scape protection systems		Diploma path:			
Module name:	seminary					
Module type:	obligatory/elective	Semester:	VII	ECTS	2	Module ID: 17034
No. of hrs in semester:	L - C - LC- P- SW- S-30					
Prerequisites:	Complete with prerequisites or "-"					
Aims and objectives:	Description of the assumed knowledge, skills and social competence the student should have acquired after the completion of the module:		The purpose of the seminary is offering specialistic help and guidance with planning and finalising study, as well as providing informations about specific requirements and copyright rules. Another important part is to show how to resolve research problems during work along with preparing for compiling analysis and evaluation. Open discussion is included as a part of seminary.			
Forms of teaching activities:	lecture, classes, laboratory classes, project, specialization workshop, seminar		Assessment:		Evaluation must be relevant to the intended learning outcomes	
			Evaluation of final presentation of master thesis. Active participation in discussion will be included as part of final mark.			
Module content:	Complete with the module content: (max. 1000 characters) Methods and technics of creating final work for master thesis. Selected ways of collecting materials, literature and data base to corresponde with the aim of work as well as preffered ways of presenting interpretation. Student research presentations and analysis followed by open					
Teaching methods:	lecture, presentations					
Learning outcome	Specify min. 4, max. 8 learning outcomes in the following order: knowledge – skills – competence. Each learning outcome must be verifiable					Reference to the programme learning outcomes
LO1	Student shows decent knowledge in area of research study					K_W11, K_W12, K_W14,
LO2	Student can complitte and use properly literature sources					K_U01, K_U02, K_U21
LO3	Student knows basic methods of research					K_U08, K_U11, K_U13
LO4	Student can correctly diagnose research problem					K_U15, K_U19, K_U20
LO5	Student can present aims and results of study in form of presentation. Active participate in open discussion preparing itself for compiling final thesis					K_U04
LO6						
LO7						
LO8						
No. of learning outcome	Methods of assessing the learning outcome					Type of teaching activities (if more than one) during which the outcome is assessed
LO1	Evaluation of presentation,					s
LO2	Evaluation of paper					s
LO3	Evaluation of participation					s
LO4	Evaluation of a					s
LO5	presentation by the student					

L06			
L07			
L08			
Student workload (in hours)	Participation in the consultations related to the implementation of work		10
	the selection and analysis of literature related to the subject of		145
	Implementation of scientific research or design related to the topic of work		120
	Writing a thesis		100
		TOTAL:	375
Quantitative indicators	Student workload – activities that require direct teacher participation:	10	ECTS
			1
	Student workload – practical activities:	365	15
Basic references:	<i>Basic and advanced literature, materials chosen to correspond with presented topics (science articles, original researches, textbooks in Polish and English) Weiner, J., The technique of writing and presentation of natural scientific research. PWN Warszawa, 2000; Rawa T., Methods of finalizing engineering and master's theses Wyd. UWM 2008</i>		
Supplementary references:			
Unit:	KSIŚ i KTWIOŚ	prof. dr hab.inż Lech Dzienis dr hab.inż Elżbieta Skorbiłowicz	
Date of issuing the programme:	07.11.2016	Author of the programme:	dr hab.inż Elżbieta Skorbiłowicz

L - lecture C - classes
SW - specialization workshop

LC - laboratory classes P-project
S - seminar