Course name: Protection and restoration of peatlands

ECTS	2,0
Course status	optional
Course final assessment /evaluation of outcomes	graded credit
Prerequisite	Basics of ecology, soil science

Main field of study: Landscape Architecture, Land Management

Educational profile	General academic
Code of studies and education level	bachelor
Semester of studies	4 or 6 (summer semester)
Language of instruction	English

Course offered by:

Name of faculty offering the course	Faculty of Environment Engineering and Land Surveying		
Name of department offering the course	Department of Land Reclamation and Environmental		
•	Development		
Course coordinator	Dr hab. inż. Ewelina Zając, prof. URK		

Learning outcomes:

Symbol of outcome	Description of the learning outcome	Reference to main field of study outcomes	Area symbol*	
	KNOWLEDGE – student knows and understands:			
AK1_W01	Genesis and classification of peatlands and main properties of peat	P6U_W P6S_WG	TS	
AK1_W02	Ecological services of peatlands in the environment and consequences of their degradation	P6U_W P6S_WG P6S_WK	TS	
AK1_W01	Main methods active and passive protection of peatlands and rules of their sustainable use	P6U_W P6S_WG	TS	
	SKILLS – student is able to:			
AK1_U01	Recognise peat type, degree of peat decomposition and state of degradation using field survey methods	P6U_U P6S_UW	TA, TS	
AK1_U01	Recognize basic plant species typical to natural and degraded peatlands	P6U_U P6S_UW	TA, TS	
AK1_U02	Design of a concept of restoration of an area degraded due to peat extraction.	P6U_U P6S_UW	TS	
SOCIAL COMPETENCIES – student is ready to:				
AK1_K01	Identify effects of technical measures for the environment	P6U_K P6S_KK P6S_KO	TS	

Teaching contents

Lectures: 10 hours

1. Peatlands and peat formation and types. Topics

2. Peatlands of the world and Poland and their current status.

3. Ecological services of peatlands in the landscape with special attention to climate change and water resources.

	5.	Main threads for peatland different management type Sustainable use of peatla peatlands protection and a	s. nds for mitig	ation of carbon d		-
Accomplishe				AK1 W01,	AK1 W02	
Accomplished learning outcomes Means of verification, rules and criteria of assessment			Checking test (written); at least 51% of correct answers to pass: < 51% - 2,0, 51-60% - 3,0, 61-70% - 3,5, 71-80% - 4,0, 81-90% - 4,5, 91-100% - 5,0. 50% share in final grade.			
Classes:						10 hours
Topics		f a concept of restoration or	f an area deg			
Accomplishe				AK1_		
			For a passing grade, a concept of peatland restoration has to be developed correctly. 50% share in final grade.			
Field practical	als:			<u> </u>		10 hours
Topics	Visit on methods	near-natural and degraded s of peat surveying: determi . Vegetation of natural and d	nation of pea	t types, degree of p		
Accomplishe	ed learning	outcomes	AK1_U01			
		Participation in field work and discussion.				
References:						
Basic Joosten, H., Clarke, D. 2002. Wise use of mires and peatlands – Backg Principles, International Mire Conservation Group						
Supplementa	ary	Schumann M., Joosten H. 2008. Global Peatland Restoration Manual. Institute of Botany and Landscape Ecology, Greifswald University, Germany.			te of Botany	
Structure of					0.1	E070 **
Area of academic study: TA				0,4	ECTS **	
Area of academic study: TS 1,6 ECTS*					ECIS	
Structure of		ctivity				
Contact hours			35	hrs.	1,4 E	ECTS**
Including: lectures			10	hrs.	_	
classes and seminars			10	hrs.	_	
consultations			2	hrs.	_	
participation in research			0	hrs.	<u> </u>	
obligatory field trips			10	hrs.	<u> </u>	
participation in examination			3	hrs.		-OTO**

^{*}Areas of academic study in the fields of: A – the arts; H – humanities; M – medical, sport and health sciences; N – natural sciences; P – biological sciences; R – agricultural, forestry and veterinary sciences; S – social studies; T

15

hrs.

hrs.

ECTS**

ECTS**

0,6

e-learning

student own work

engineering and technology
 ** stated with an accuracy to 0.1 ECTS, where 1 ECTS = 25–30 hours of classes