

1.	Field of study	Environmental Protection
2.	Academic year of entry	2017/2018 (winter term)
3.	Level of qualifications/degree	first-cycle studies
4.	Degree profile	general academic
5.	Mode of study	full-time

Module: Soil science

Module code: 1OS_20

1. Number of the ECTS credits: 4

2. Learning outcomes of the module			
code	description	learning outcomes of the programme	level of competence (scale 1-5)
1OS_20_1	students know of soil processes and explain geological, geomorphological, hydrological and climatic conditions of soil forming	1OS_W04	5
1OS_20_2	students understand connections between the soil and geological base, the relief and the flora	1OS_W03	5
1OS_20_3	students know the basic vocabulary and definitions from the field of pedology	1OS_W29	5
1OS_20_4	students are able to explain geomorphological and soil conditions to the flora in their natural layouts	1OS_W04	4
1OS_20_5	students are able to determine morphological features of the soil and to do laboratory analyses of soil samples	1OS_U08	5
1OS_20_6	students are able to interpret observation and measurements and on their base to draw correct conclusions	1OS_U09	3
1OS_20_7	students are able to prepare the report on conducted observation independently	1OS_K06	3

3. Module description	
Description	Students acquire the knowledge about: soil as the component of the geographical environment, soil factors and processes, composition and basic properties of the soil, morphological features and classification of soils and soil of Poland. Students learn the methodology of laboratory analyses and interpretation of soil maps. In the field classes students acquire the knowledge about forest soils. Students observe associations between soil and flora, will read the soil outcrop practically, interpret thematic maps and to use them in the field.
Prerequisites	

4. Assessment of the learning outcomes of the module			
code	type	description	learning outcomes of the module
1OS_20_w_1	Examination	Lectures and studies of literature	1OS_20_1, 1OS_20_2, 1OS_20_3
1OS_20_w_2	kolokwium pisemne	Weryfikacja wiedzy w oparciu o treści ćwiczeń i samodzielnych studiów wskazanej w sylabusie literatury	1OS_20_3, 1OS_20_5, 1OS_20_6
1OS_20_w_3	sprawozdanie pisemne z zajęć terenowych	Ocena przygotowanego sprawozdania. Uwzględnione zostaną następujące elementy: kompletność danych, całościowe przedstawienie zagadnienia, sposób przygotowania.	1OS_20_2, 1OS_20_4, 1OS_20_7

5. Forms of teaching						
code	form of teaching			required hours of student's own work		assessment of the learning outcomes of the module
	type	description (including teaching methods)	number of hours	description	number of hours	
1OS_20_fs_1	lecture	Wykład wybranych zagadnień głąbownawczych z wykorzystaniem pomocy audiowizualnych	10	Praca ze wskazaną literaturą uzupełniającą, samodzielne przyswojenie wiedzy odnośnie wskazanych zagadnień podstawowych	10	1OS_20_w_1
1OS_20_fs_2	laboratory classes	Information and problematic lecture, multimedia presentation	20	Studies of recommended literature	20	1OS_20_w_2, 1OS_20_w_3