

SYLLABUS

REGARDING THE QUALIFICATION CYCLE FROM 2021 TO 2025

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	<i>Knowledge about habitat</i>
Course/Module code *	
Faculty (name of the unit offering the field of study)	<i>Institute of Agricultural Sciences, Land Management and Environmental Protection</i>
Name of the unit running the course	<i>Department of Nature Conservation and Landscape Ecology</i>
Field of study	<i>Biology</i>
Qualification level	<i>first level</i>
Profile	<i>academic</i>
Study mode	<i>stationary</i>
Year and semester of studies	<i>1 year 1 semester</i>
Course type	<i>basic</i>
Language of instruction	<i>english</i>
Coordinator	<i>dr inż. Iwona Makuch-Pietraś</i>
Course instructor	<i>dr inż. Iwona Makuch-Pietraś</i>

* - as agreed at the faculty

1.1. Learning format – number of hours and ECTS credits

Semester (no.)	Lectures	Classes	Colloquia	Lab classes	Seminars	Practical classes	Internships	others	ECTS credits
1	1			9					1

1.2. Course delivery methods

- conducted in a traditional way
- involving distance education methods and techniques

1.3. Course/Module assessment (exam, pass with a grade, pass without a grade)
pass with a grade

2. PREREQUISITES

CHEMICAL AND BOTANICAL KNOWLEDGE

3. OBJECTIVES, LEARNING OUTCOMES, COURSE CONTENT, AND INSTRUCTIONAL METHODS

3.1. Course/Module objectives

O1	<i>Learning soil and climate factors and links between them.</i>
O2	<i>Recognize the influence of factors on habitat conditions and functioning of the biocoenosis.</i>
O3	<i>Practice the ability to value worth of the habitat and its resistance to degradation on the base of self determinate soil quality coefficient.</i>

3.2. COURSE/MODULE LEARNING OUTCOMES (TO BE COMPLETED BY THE COORDINATOR)

Learning Outcome	The description of the learning outcome defined for the course/module	Relation to the degree programme outcomes
LO_01	<i>lists and describes the elements of the habitat and their interactions</i>	<i>(K_Wo1, K_Wo7, K_Wo9)</i>
LO_02	<i>indicates the method for evaluation of basic worth parameters of habitat and soil quality</i>	<i>(K_Wo2, K_Wo3, K_Wo7)</i>
LO_03	<i>be able to perform simple laboratory analysis and evaluate environmental soil values on this base</i>	<i>(K_Uo1, K_Uo2, K_Uo4)</i>
LO_04	<i>interpret the state of the habitat and its threats, based on laboratory tests</i>	<i>(K_Uo4, K_Uo6, K_Uo8)</i>
LO_05	<i>complete and present a presentation of optional habitat on the source materials</i>	<i>(K_Uo9, K_U12)</i>
LO_06	<i>the ability of cooperation in group during laboratory analysis and with elaboration the environmental habitat report</i>	<i>(K_U10)</i>
LO_07	<i>demonstrate the responsibility for the equipment, and exhibits and safety in work</i>	<i>(K_Ko1)</i>

3.3. Course content (to be completed by the coordinator)

A. Classes, tutorials/seminars, colloquia, laboratories, practical classes

Content outline
<i>Basic properties and presentation of the most common minerals; systematic and identifying characteristics of rock and geomorphological conditions</i>
<i>Basic physical, chemical and biological properties and their impact on soil fertility</i>
<i>Determination of soil mechanical composition, soil reaction, content of carbonates and the quantity, quality of organic substances, hydrolytic acidity, total exchangeable bases and sorption capacity – laboratory exercises</i>
<i>Presentation of optional habitat</i>

3.4. Methods of Instruction

Lecture: lecture supported by a multimedia presentation

Classes: text analysis, project work (practical project), group work (problem solving, case study, discussion)

Laboratory classes: conducting experiments

4. Assessment techniques and criteria

4.1 Methods of evaluating learning outcomes

Learning outcome	Methods of assessment of learning outcomes (e.g. test, oral exam, written exam, project, report, observation during classes)	Learning format (lectures, classes,...)
LO-01	<i>report, oral presentation</i>	<i>classes</i>
LO-02	<i>report, oral presentation</i>	<i>classes</i>
LO-03	<i>observation during classes, report</i>	<i>laboratory</i>
LO-04	<i>report</i>	<i>classes</i>
LO-05	<i>observation during classes, oral presentation</i>	<i>laboratory, classes</i>
LO-06	<i>observation during classes, report</i>	<i>laboratory</i>
LO-07	<i>observation during classes</i>	<i>laboratory</i>

4.2 Course assessment criteria

FINAL DEGREE IS BASED ON LABORATORY REPORT AND BY A MULTIMEDIA PRESENTATION

5. Total student workload needed to achieve the intended learning outcomes

– number of hours and ECTS credits

Activity	Number of hours
Scheduled course contact hours	10
Other contact hours involving the teacher (consultation hours, examinations)	1
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	15
Total number of hours	26
Total number of ECTS credits	1

* One ECTS point corresponds to 25-30 hours of total student workload

6. Internships related to the course/module

Number of hours	-
Internship regulations and procedures	-

7. Instructional materials

<p>Compulsory literature:</p> <p><i>Keefer, R. F. 2000 Handbook of Soils for Landscape Architects, New York Oxford University Press</i></p> <p><i>Reszel H., Reszel R. (translation by Iwona Makuch-Pietraś) 2010 Method book for laboratory exercise from Knowledge about habitat. Department of Agrobiolgy and Environmental Protection UR, typescript ss. 21</i></p> <p><i>SPOSITO, GARRISON 2008 THE CHEMISTRY OF SOILS EDITION: 2ND ED. OXFORD : OXFORD UNIVERSITY PRESS.</i></p>
<p>Complementary literature:</p> <p><i>Coleman, David C., Crossley, D. A., Hendrix, Paul F. 2004 Fundamentals of soil Ecology Amsterdam : Elsevier Academic Press.</i></p>

Approved by the Head of the Department or an authorised person