Appendix No. 1.5 to the Resolution No. 61/2025
of the Rector of the University of Rzeszów

SYLLABUS

REGARDING THE QUALIFICATION CYCLE FROM 2026/2027 TO – 2027/2028
ACADEMIC YEAR 2026/2027

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	**Management of the Environment**
Course/Module code *	
Faculty (name of the unit offering the field of study)	Faculty of Technology and Life Sciences
Name of the unit running the course	Institute of Agricultural Sciences, Environmental Protection and Management, Department of Agroecology and Forest Utilization
Field of study	Agriculture
Qualification level	Second-cycle studies
Profile	General academic
Study mode	Full-time
Year and semester of studies	Year I, Semester 1
Course type	Major
Language of instruction	English
Coordinator	dr inż. Tomasz Olbrycht
Course instructor	dr inż. Tomasz Olbrycht

* - as agreed at the faculty

1.1. Learning format – number of hours and ECTS credits

Semester (no.)	Lectures	Classes	Laboratories	Seminars	Practical classes	Internships	others	**ECTS credits**
1	13	15						3

1.2. Course delivery methods
x- 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)
Exam

2. PREREQUISITES

Soil Science, Agricultural Chemistry, Plant Protection, General Crop and Soil Management, Specific Crop Production, Environmental Protection, Animal Production, Agricultural Engineering

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

3.1. Course/Module objectives

O1	Familiarizing students with the negative impacts of various human activities on the natural environment and the scope of land reclamation for degraded areas.
O2	Expanding knowledge regarding the principles of shaping and protecting the agricultural landscape and managing agricultural land in accordance with the Code of Good Agricultural Practice.
O3	Acquiring the skills to plan and utilize ecological areas to preserve and strengthen the stability of various ecosystems in the environment.

3.2. COURSE/MODULE LEARNING OUTCOMES

Learning Outcome	The description of the learning outcome defined for the course/module	Relation to the degree programme outcomes
LO_01	is familiar with the concepts that enable the shaping of nature's potential to improve human life.	K_W04
LO_02	understands the environmental threats posed by agriculture and industry, defines the principles of shaping agricultural landscape protection, and characterizes eco-friendly agricultural management systems, focusing on issues that enable the shaping of natural potential to improve human life.	K_W06
LO_03	is able to creatively select appropriate methods and techniques for assessing the state of the natural environment and regenerating degraded areas, as well as design ecological sites.	K_U02, K_U03
LO_04	is able to solve problems related to the state of the environment, both independently and as part of a team, and to systematically deepen their knowledge in this area	K_U06, K_U07
LO_05	is prepared to care for the state of the natural environment in order to preserve its qualities for future generations	K_K03

3.3. Course content

A. Lectures

Content outline
Familiarizing students with the lecture syllabus, course requirements, and the method of assessment. Definition of environmental shaping. Human-environment relations from a historical perspective.
Strategy for shaping and protecting the environment.
Landscape, landscape elements, structure, factors influencing landscape stability, threats, protection.
The impact of agricultural activity on shaping the environment.
Characteristics and significance of various forms of nature conservation for the preservation of biodiversity and ecological balance in the agricultural landscape.
Principles of proper land management in agricultural areas. Environmentally friendly production directions.
The impact of land reclamation, urbanization, and transport on the environment.
Degradacja i rekultywacja gleb pochodzenia rolniczego oraz pozarolniczego krajobrazu.

B. Classes

Content outline
Familiarizing students with legal regulations concerning environmental management and protection. Basic characteristics of the environment and assessment of its condition. Spatial distribution of agricultural land in Poland.
Environment, biotope, and ecotone: properties, types, and functions. Practical mapping of these units within a selected administrative area (municipality/county).
Criteria, indicators, and methods for assessing the agricultural environment; sustainable development strategy. Key areas of action for implementing the sustainable development strategy in agriculture.
Causes of environmental degradation. Habitat fragmentation. Ecological islands and corridors.
The routing of ecological corridors within the territory of a province, county, or municipality. Identification of ecological corridors within a selected administrative unit (municipality or county).
Location of "hotspots" – the most threatened (critical) sections of the proposed ecological corridors.
Student presentation of a project titled "Forms of nature conservation in a selected administrative unit (municipality/county), with particular emphasis on ecological sites." Planning ecological sites to maintain ecological balance in the agricultural landscape.

Student presentation of a project titled "Assessment of the environmental status of a selected spatial unit (municipality or county) based on land-use structure and the degree of naturalness (preservation of natural ecosystems), as well as soil types and quality assessment."
Student presentation of a project titled: "Assessment of the environmental status of a selected spatial unit (municipality or county) based on an analysis of water and air quality, as well as aesthetic, cultural, and health-related values."

3.4. Methods of Instruction

Lecture: lecture supported by a multimedia presentation
Classes: text analysis and discussion/project work (research project) group work (problem solving, case study, discussion).

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	written exam	lectures
LO_02	written exam	lectures
LO_03	project, multimedia presentation	classes
LO_04	project, multimedia presentation	classes
LO_05	observation during classes	classes

4.2 Course assessment criteria

classes: graded credit completion of coursework: preparation of presentations and projects; determination of the final grade based on component grades. Lecture: exam written exam: extended written response To pass the course, all intended learning outcomes must be achieved. A passing grade is determined by the number of points obtained (>50% of the maximum possible score): satisfactory (dst) 51%, satisfactory plus (dst plus) 61%, good (db) 71%, good plus (db plus) 81%, very good (bdb) 91%.

5. Total student workload needed to achieve the intended learning outcomes – number of hours and ECTS credits

Activity	Number of hours
Course hours	28
Other contact hours involving the teacher (consultation hours, examinations)	15

Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	32
Total number of hours	75
Total number of ECTS credits	3

* 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

Compulsory literature: materials provided by the teacher and online resources on the topics covered
Complementary literature: online resources on the topics covered

Approved by the Head of the Department or an authorised person