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 2029/2030
ACADEMIC YEAR : 2027/2028

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	**Methodology of Agricultural Researches**
Course/Module code *	
Faculty (name of the unit offering the field of study)	Faculty of Technology and Natural Sciences
Name of the unit running the course	Institute of Agricultural Sciences, Environmental Protection, and Management; Department of Crop Production
Field of study	Agriculture
Qualification level	First-cycle studies
Profile	General academic
Study mode	Full-time
Year and semester of studies	Year 2 Semester 4
Course type	Major subject
Language of instruction	English
Coordinator	prof. dr hab. inż. Ewa Szpunar-Krok
Course instructor	prof. dr hab. inż. Ewa Szpunar-Krok

* - as agreed at the faculty

1.1. Learning format – number of hours and ECTS credits

Semester (no.)	Lectures	Classes	Laboratories	Seminars	Practical classes	Internships	Field classes	**ECTS credits**
4	10		15				5	2

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)
pass with a grade

2. PREREQUISITES

Mathematics – high school knowledge.

3. Objectives, Learning Outcomes, Course Content, and Instructional Methods

3.1. Course/Module objectives

O1	To familiarise students with research methods in agricultural sciences and the stages of research involved in each method.
O2	To provide basic knowledge of conducting agricultural experiments.

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	Knows and understands basic research methods in agricultural sciences.	K_W01
LO_02	Knows and understands the importance of soil variability in field experiments.	K_W01
LO_03	Knows and understands the types and designs of experiments.	K_W04
LO_04	Can select an appropriate method for addressing a research problem.	K_U01
LO_05	Is committed to continuous learning and seeking expert advice when difficulties arise in solving a problem independently.	K_K02

3.3. Course content

A. Lectures

Content outline
Basic concepts in agricultural experimentation.
Soil variability and its types.
Classification of agricultural experiments according to various criteria.
Principles underlying selected agricultural experimental designs.

B. Laboratories, field classes

Content outline
Principles of planning agricultural experiments.
Principles of conducting field and laboratory experiments.
Specific characteristics of selected types of experiments (crop cultivation, breeding, plant protection, fruit growing, etc.) – examples.
Descriptive statistics and graphical presentation of statistical data.
Field classes involving the practical application of knowledge acquired during the course.

3.4. Methods of Instruction

Lecture: a lecture supported by a multimedia presentation
Laboratory classes: group work, discussion
Field classes: observation and 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	test	lectures, classes
LO-02	test, field class report	lectures, field classes
LO-03	test, field class report	lectures, classes, field classes
LO-04	test	lectures
LO-05	observation during classes	classes

4.2 Course assessment criteria

Lectures: test.
Laboratory classes: the final grade is based on the grades obtained in individual tests.
Field classes: a report on the completed field classes.
A condition for passing the course is the achievement of all intended learning outcomes.

A passing grade for the examination and tests is determined by the number of points obtained, with more than 50% of the maximum number of points required: satisfactory (3.0): 51–60%, satisfactory plus (3.5): 61–70%, good (4.0): 71–80%, good plus (4.5): 81–90%, very good (5.0): 91–100%.

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

Activity	Number of hours
Course hours	**30**
Other contact hours involving the teacher (consultation hours, examinations)	**2**
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	**18**
Total number of hours	**50**
Total number of ECTS credits	**2**

* 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