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 2028/2029

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	**Distribution and use of chemical plant protection products**
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	First-cycle studies
Profile	General academic
Study mode	Full-time
Year and semester of studies	Year III, Semester 5
Course type	Specjality subjects – Agronomy with Agribusiness
Language of instruction	English
Coordinator	Dr. Sc. Eng. Zbigniew Czerniakowski, Prof.UR
Course instructor	Dr. Eng. 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	Field classes	**ECTS credits**
5	15		20				10	4

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)

LECTURES – EXAM
LABORATORIES – PASS WITH A GRADE

2. PREREQUISITES

The student should possess basic knowledge of plant protection.

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

3.1. Course/Module objectives

O1	Familiarizing students with current EU regulations regarding the registration, distribution, and use of chemical plant protection products.

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	Correctly interprets legal regulations regarding the registration, distribution, and use of chemical plant protection products.	K_W07, K_W08, K_W09
LO_02	Is able to apply knowledge of legal regulations to solve problems related to the production, distribution, and use of chemical plant protection products.	K_U03, K_U04, K_U10
LO_03	It takes measures to implement new concepts for farm operations.	K_K04

3.3. Course content

A. Lectures

Content outline
Legal framework for plant protection in Poland.
Regulations on the registration and distribution of plant protection products, strategies, direct sales, intermediaries, distribution channels.
Rules for the packaging and storage of plant protection products.
Rules for the use of plant protection products.
Rules for handling plant protection product packaging.
Plant protection products from an environmental protection perspective.

B. Laboratories

Content outline
The role and tasks of state institutions (IOR, PIORiN) in the development of plant protection in Poland.
Registration and distribution of plant protection products, literature review.
Plant protection application techniques.
Health and safety regulations for the sale and handling of plant protection products.

Plant protection products from an environmental protection perspective: a literature-based study.

C. Field classes

Role and tasks of WIORiN regarding plant protection (classes at the WIORiN headquarters in Rzeszów).
Modern solutions in plant protection product manufacturing (classes conducted at the Quemetica Nowa Sarzyna).

3.4. Methods of Instruction

Lecture: a lecture supported by a multimedia presentation
Laboratory: designing and conducting experiments, discussion, group work
Field classes: case analysis, 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	Semester assignment with a presentation, active participation in discussions. Written exam.	lectures, lab.
LO-02	Semester assignment with a presentation, active participation in discussions. Written exam.	lectures, lab.
LO-03	Semester assignment with a presentation, active participation in discussions. Written exam.	lectures, lab.

4.2 Course assessment criteria

Lecture: exam. Laboratory classes: graded credit. The grade is determined based on an assignment involving a presentation, including active participation in the discussion. Field classes: Preparation of a report in the form of a multimedia presentation, active participation in the classes. To pass the course, students must achieve all the intended learning outcomes. A passing grade is determined by the number of points obtained (more than 50% of the maximum possible score). Passing the course depends on the score achieved on the written exam. Grading scale: Satisfactory (dst.) = 50–60%; Satisfactory Plus (dst. plus) = 61–70%; Good (db.) = 71–80%; Good Plus (db. plus) = 81–90%; Very Good (bdb.) = 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	45
Other contact hours involving the teacher (consultation hours, examinations)	5
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	50
Total number of hours	100
Total number of ECTS credits	4

* 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