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

SYLLABUS

REGARDING THE QUALIFICATION CYCLE FROM 2026/2027TO2027/2028
ACADEMIC YEAR 2026/2027

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	**Agronomic Aspects of the Intensification of Production**
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 Crop Production
Field of study	Agriculture
Qualification level	first-cycle studies
Profile	general academic
Study mode	stationary
Year and semester of studies	Year 3, semester 6
Course type	Specialization course / Agronomy with Agribusiness
Language of instruction	English
Coordinator	Renata Tobiasz-Salach (Associate Professor)
Course instructor	Renata Tobiasz-Salach (Associate Professor)

* - 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**
6	15		30					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)
Exam

2. PREREQUISITES

The student is familiar with the subject matter of the following courses: General Crop and Soil Management, Specific Crop Production, Agricultural Plant Breeding and Seed Production,

Plant Protection, Vegetable and Fruit Growing, Animal Production, and Farm Economics and Organization.

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

3.1. Course/Module objectives

O1	*Familiarizing students with the environmental and social consequences of the intensification of agricultural production.*

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	understands the concept of agricultural production intensification and is familiar with its objectives and indicators	K_W01, K_W02, K_W03, K_W07
LO_02	knows and understands the consequences of the excessive use of chemicals and mechanization in agricultural production	K_W01, K_W02, K_W03, K_W07
LO_03	is able to plan agricultural production of varying degrees of intensity and anticipates the scale and scope of its environmental impact	K_U01, K_U02 K_U03
LO_04	is prepared to remain open-minded yet critical regarding technological and environmental arguments when planning agricultural production.	K_K01,

3.3. Course content

A. Lectures

Content outline
The concept and objectives of the intensification of agricultural production.
Factors determining the intensification of agricultural production
Changes in contemporary agricultural ecosystems and the rural landscape.
Indicators of agricultural production intensification.
The role and significance of biological and technical progress in the intensification of agricultural production.
Simplified tillage and crop rotation.

B. Laboratories

Content outline
Assumptions for the project to intensify the production of selected agricultural crop species.
Presentation of the intensification of production of selected crop species.

Preparation of a plan to intensify the production of selected agricultural crop species (determining the choice of varieties, fertilizer rates, cultivation sequence, crop protection program, and harvesting method).

3.4. Methods of Instruction

Lecture: multimedia presentation.
Laboratories: project, group work, presentation, 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 WITH OPEN-ENDED QUESTIONS	LECTURE
LO-02	WRITTEN EXAM WITH OPEN-ENDED QUESTIONS	LECTURE
LO-03	COLLOQUIUM, ORAL RESPONSE DURING PROBLEM-SOLVING	LABORATORIES
LO-04	ORAL STATEMENT DURING PROBLEM-SOLVING	LABORATORIES

4.2 Course assessment criteria

Lecture: written exam with open-ended questions. Laboratories: passing with a grade, determining the passing grade based on the test, project evaluation and presentation. The condition for passing the course is achieving all intended learning outcomes. *A passing grade for the course is determined by the number of points obtained (>50% of the maximum score): satisfactory 51–60%, satisfactory plus 61–70%, good 71–80%, good plus 81–90%, very good 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)	7
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	50
Total number of hours	102
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