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 2027/2028

1. BASIC COURSE/MODULE INFORMATION

Course/Module title	**Innovations in Animal Production**
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	Department of Animal Production and Poultry Product Evaluation
Field of study	Agriculture
Qualification level	2st degree
Profile	general academic
Study mode	stationary
Year and semester of studies	1nd year, semester 2
Course type	Specialization: Agronomy with Agribusiness
Language of instruction	English
Coordinator	Assoc prof. Jadwiga Topczewska
Course instructor	Assoc prof. Jadwiga Topczewska

* - 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**
2	26		28					3

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)
EXAM

2. PREREQUISITES

The scope of knowledge and skills relating to animal husbandry and breeding.

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

3.1. Course/Module objectives

O1	To familiarise students with innovations in animal husbandry and breeding.
O2	To prepare students to apply modern production methods in animal husbandry and breeding.
O3	To highlight the need for continuous professional development in the field of animal production.

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 areas for improvement in livestock breeding	K_W04, K_W07
LO_02	is familiar with innovations in milk, meat and egg production technology	K_W04, K_W05
LO_03	is able to apply modern livestock feeding systems and production technologies	K_U04, K_U07
LO_04	is able to take charge of their own lifelong learning	K_U07
LO_05	is prepared to fulfil professional roles responsibly and to act in accordance with professional ethics	K_K04

3.3. Course content

A. Lectures

Content outline
The latest trends in the genetic improvement of farm animals.
Innovations in livestock reproduction.
Innovations in livestock nutrition.
Feed additives and latest-generation growth promoters authorised for use in animal production.
Innovations in optimising husbandry conditions and improving the welfare of farm animals.
Innovations in the trade and transport of animals.
The economic aspects of introducing innovation.

B. Laboratories

Content outline
Innovations in the fitting out of utility buildings. Tasks, group discussions.
Innovations in the feeding of specific livestock species in production practice. Review of the relevant literature, group discussion.
Modern technologies in animal production – discussion.

Modern preventive healthcare in animal production. Multimedia presentation. Review of the relevant literature, group discussion.
The use of farm animals in the production of functional foods. Multimedia presentation. Review of the relevant literature, group discussion.

3.4. Methods of Instruction

Lecture: a lecture supported by a multimedia presentation
Laboratory classes: designing and conducting experiments group work, 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 – LO_02	exam	lectures
LO-03	completion of tasks, oral presentation, test	lab.
LO_04	completion of tasks, oral presentation	lab.
LO_05	completion of tasks, oral presentation	lab.

4.2 Course assessment criteria

Lecture: First sitting – written exam with open-ended questions; second sitting – oral exam. Laboratory: Pass/fail assessment based on marks from the test, completed assignments, oral presentation and continuous assessment. To pass the course, students must achieve all the specified learning outcomes.

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

Activity	Number of hours
Course hours	54
Other contact hours involving the teacher (consultation hours, examinations)	2
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	19
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	Not applicable

Internship regulations and procedures	-

7. Instructional materials

Compulsory literature: Annals of Animal Science (Journal) 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