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	**Animal Nutrition and Feed Science**
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	1st degree
Profile	general academic
Study mode	stationary
Year and semester of studies	2nd year, semester 3
Course type	major
Language of instruction	English
Coordinator	PhD Eng. Jadwiga Lechowska
Course instructor	PhD Eng. Jadwiga Lechowska

* - 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**
3	15		30					**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)
pass with a grade

2. PREREQUISITES

Subjects: Biological basis of agriculture

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

3.1. Course/Module objectives

O1	Familiarizing students with the physiology and functioning of farm animal organisms
O2	Familiarizing students with the principles of feed selection and feeding of farm animals

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	The student knows the basics of farm animal physiology	K_W06
LO_02	Characterizes the principles of feeding farm animals	K_W06, K_W08
LO_03	Knows the principles of proper selection of feed in nutrition animals, can arrange food rations and prepare a feed balance for farm animals	K_W08, K_U02, K_U03
LO_04	Can recognize feeds used in animal nutrition farm	K_U03
LO_05	Is aware of the responsible use of feed in animal nutrition and the ability to anticipate risks in the production process	K_K01

3.3. Course content

A. Lectures

Content outline
The digestive system. Physiology of digestion and absorption.
Feed – definition and classification of feed. Feed quality assessment.
Feed nutrients and their role in animal nutrition. Nutritional value and digestibility. feed.
Feeds used in the nutrition of monogastric animals and ruminants.

B. Laboratories

Content outline
Recognition and organoleptic evaluation of feed.
Taking feed samples for chemical analysis. Basic feed analysis.
Determining the nutritional value of feed.
Principles of feeding and preparation of feed rations for cattle.
Principles of feeding and formulating feed rations for sheep. Project.
Principles of feeding and formulating feed rations for pigs. Project.
Principles of feeding and preparing feed rations for horses.
Principles of feeding and composition of feed rations for poultry.
Preparation of feed estimates.

3.4. Methods of Instruction

Lecture: a lecture supported by a multimedia presentation

Laboratory classes: 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	test with open questions	lecture
LO-02	test with open questions	lecture
LO-03	group work, test, project, speech oral	lab classes
LO-04	oral presentation, laboratory, test, continuous observation	lab classes
LO-05	continuous observation	lab classes

4.2 Course assessment criteria

Laboratory exercises: determining the final grade based on partial grades from the test, performance project, oral response, continuous observation. Lecture: exam with open-ended questions. The condition for passing the course is to achieve all the assumed learning outcomes. The positive grade for the subject is determined by the number of points obtained (>50% of the maximum number of points): 3.0 - 51-60%, 3.5 - 61-70%, 4.0 - 71-80%, 4.5 - 81-90%, 5.5 - 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)	6
Non-contact hours - student's own work (preparation for classes or examinations, projects, etc.)	25
Total number of hours	76
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: 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