



SZKOŁA GŁÓWNA
GOSPODARSTWA
WIEJSKIEGO

Unconventional feed in animal nutrition

Educational subject description sheet

Basic information

Field of study Course Offer for exchange students - second cycle studies, including uniform master studies (MA programmes)		Didactic cycle 2024/25
Speciality -		Subject code PWMPWM2S_D.B100000.06299.24
Organizational unit Course Offer for exchange students		Lecture languages english
Study level second cycle studies, including uniform master studies (MA programmes)		Mandatory Elective subjects
Study form full-time studies		Block Basic subjects
Education profile General academic		Disciplines Animal husbandry and fishery
Coordinator	Marcin Sońta	
Teacher	Marcin Sońta	
Period Winter semester	Examination Pass with grade	Number of ECTS points 3
	Activities and hours Lecture: 10 Field exercises: 10	

Goals

Code	Goal
C1	Familiarizing students with the current legal regulations concerning the use of unconventional feeds and the characteristics of feeds that can potentially be used in animal nutrition and aquaculture

Entry requirements

Knowledge of animal nutrition and feed science, knowledge of the basic biochemical processes occurring in the animal's organism.

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	The student is able to find and know the legal acts regulating the use of unconventional feed in animal nutrition.		Essay
W2	He has in-depth knowledge of the production and use of unconventional feed in animal nutrition.		Essay
Skills - Student can:			
U1	Assesses the suitability of unconventional feed and feed raw materials in animal nutrition in terms of the requirements of feed law, the quality of obtained raw materials and products and consumer health.		Essay
Social competences - Student is ready to:			
K1	Understands the need to constantly expand knowledge in the field of animal nutrition.		Essay
K2	Is aware of the positive or negative impact of selected feed materials on the functioning of the animal body.		Essay

Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Unconventional feed in animal nutrition - basic information.	W1, W2	Lecture
2.	Current status and prospects for the use of processed protein from invertebrate animals for fodder purposes	W1, U1, K1, K2	Lecture
3.	Obtaining and using duckweed for fodder for farm animals and aquaculture	U1, K1, K2	Lecture
4.	Feed snails as a source of nutrients for animals	U1, K1, K2	Lecture
5.	Herbal mixtures in animal nutrition	U1, K1, K2	Lecture, Field exercises
6.	The food sector as a source of products for fodder purposes	U1, K1, K2	Lecture
7.	Natural sources of carotenoids and their use in feeding farm animals	U1, K1, K2	Lecture, Field exercises
8.	Hybrid rye - an alternative in animal nutrition	U1, K1, K2	Lecture

Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, E-learning - lecture part, Presentation
Field exercises	Field measurements, Field observations

Activities	Examination method	Percentage
Lecture	Essay	90%
Field exercises	Essay	10%

Activities	Credit conditions
Lecture	The condition for passing the course is to submit an essay on a topic chosen by the student related to the subject of the course.
Field exercises	The condition for passing the course is participation in a field trip to a feed company.

Literature

Obligatory

1. Animal nutrition standards
2. EU normative acts in the field of animal nutrition. Act on animal nutrition, national implementing acts

Optional

1. Relevant scientific publications, including those of the module coordinator.

Calculation of ECTS points

Activity form	Activity hours*
Lecture	10
Field exercises	10
Preparation of a paper	35
Conducting literature research	35
Student workload	Hours 90
Number of ECTS points	ECTS 3

* hour means 45 minutes