



SZKOŁA GŁÓWNA
GOSPODARSTWA
WIEJSKIEGO

Nutrition of dogs and cats

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.B100000.06307.24
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 Taciak	
Teacher	Marcin Taciak, Tomasz Niemiec	
Period Winter semester	Examination Pass with grade	Number of ECTS points 4
	Activities and hours Lecture: 15 Laboratory exercises: 30	

Goals

Code	Goal
C1	The course aims to provide comprehensive knowledge on the nutritional needs of dogs and cats, focusing on the importance of diet in promoting health and preventing disease. It aims to equip students with the skills to make informed decisions regarding pet food selection, understanding ingredients, and customizing diets to meet the specific needs of individual animals. This course delves into the science of canine and feline nutrition, offering a thorough understanding of the dietary needs of dogs and cats. It covers the digestive anatomy and physiology of these animals, the essential nutrients required for their optimal health, and how these needs change with age and lifestyle. The curriculum includes practical guidelines for assessing pet foods, understanding ingredients, and the implications of various feeding strategies. Participants will learn through a mix of lectures, case studies, and interactive discussions, enabling them to apply nutritional principles in real-world scenarios

Entry requirements

A basic understanding of biochemistry, physiology and nutrition

Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
Knowledge - Student knows and understands:			
W1	the fundamental nutritional needs of dogs and cats, including proteins, fats, carbohydrates, vitamins, minerals, and water, and recognizes how these requirements vary with age, activity level, and health status.		Project, Case, Test (written or computer based)
W2	how to formulate and evaluate both commercial and homemade diets for dogs and cats.		Project, Case, Test (written or computer based)
Skills - Student can:			
U1	apply their comprehensive knowledge of the fundamental nutritional needs of dogs and cats to develop and recommend appropriate diets that account for the animals' age, activity level, and health status		Project, Case, Test (written or computer based)
U2	stay informed on the latest trends and research in pet nutrition, critically evaluating new information for its validity and potential impact on dietary recommendations for dogs and cats.		Project, Case, Test (written or computer based)
Social competences - Student is ready to:			
K1	exchange of knowledge and team work in the preparation and implementation of the project work		Project, Case, Test (written or computer based)

Study content

No.	Course content	Subject's learning outcomes	Activities
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No.	Course content	Subject's learning outcomes	Activities
1.	Overview of nutritional science, including macronutrients and micronutrients, and their roles in animal health.	W1, U1, K1	Lecture, Laboratory exercises
2.	Comparative anatomy and physiology, absorption, and metabolism of nutrients.	W1, U1, K1	Lecture, Laboratory exercises
3.	Nutritional requirements of dogs and cats, focusing on proteins, fats, carbohydrates, vitamins, minerals, and water.	W2, U1, U2, K1	Lecture, Laboratory exercises
4.	Nutritional management from birth through aging, including special considerations for pregnant and lactating animals.	W2, U1, U2, K1	Lecture, Laboratory exercises
5.	Analysis of types, labelling and regulatory standards of products.	W2, U1, K1	Lecture, Laboratory exercises
6.	Guidelines for preparing balanced homemade diets.	W1, W2, U1, U2, K1	Lecture, Laboratory exercises

Course advanced

Activities	Methods of conducting classes
Lecture	Lecture
Laboratory exercises	Problem lecture, Case study

Activities	Examination method	Percentage
Lecture	Test (written or computer based)	40%
Laboratory exercises	Case	30%
Laboratory exercises	Project	30%

Activities	Credit conditions												
Lecture	<p>The exam will be in the form of a multiple-choice test consisting of 30 questions. Each question will have four possible answers, with only one correct answer. Exam duration: 60 minutes.</p> <table> <tr> <td>90% - 100%</td> <td>5</td> </tr> <tr> <td>80% - 89%</td> <td>4+</td> </tr> <tr> <td>70% - 79%</td> <td>4</td> </tr> <tr> <td>60% - 69%</td> <td>3+</td> </tr> <tr> <td>50% - 59%</td> <td>3</td> </tr> <tr> <td>below 50%</td> <td>2</td> </tr> </table>	90% - 100%	5	80% - 89%	4+	70% - 79%	4	60% - 69%	3+	50% - 59%	3	below 50%	2
90% - 100%	5												
80% - 89%	4+												
70% - 79%	4												
60% - 69%	3+												
50% - 59%	3												
below 50%	2												
Laboratory exercises	<p>Students will be assigned case studies throughout the semester. Each case study will require a written analysis and a short presentation. The project is a group assignment and involves identifying a real-world problem, conducting research, and proposing a viable solution.</p>												

Literature

Obligatory

1. Relevant scientific publications provided by coordinator

Calculation of ECTS points

Activity form	Activity hours*
Lecture	15
Laboratory exercises	30
Preparation for exercises	20
Preparing the project	10
Preparation for the test	20
Preparation of the report	10
Student workload	Hours 105
Number of ECTS points	ECTS 4

* hour means 45 minutes