

Module title:	Dietetics	ECTS	2
Polish translation:	Dietetyka		
Course:	Veterinary Medicine		

Module language:	English	Stage: JM-FVM	
Form of studies: <input checked="" type="checkbox"/> intramural <input type="checkbox"/> extramural	Type of module: <input type="checkbox"/> basic <input checked="" type="checkbox"/> directional <input checked="" type="checkbox"/> mandatory <input type="checkbox"/> elective	Semester: IX	<input checked="" type="checkbox"/> winter semester <input type="checkbox"/> summer semester
Academic year:		Intake 2020/2021	Catalog number: FVM-V-JMSS-09W-D31_20

Module coordinator:	prof. dr hab. Piotr Ostaszewski		
Teachers responsible for the module:	Academic teachers of the Institute of Veterinary Medicine; Department of Physiological Sciences; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study		
Unit responsible for the module:	Institute of Veterinary Medicine (IVM); Department of Physiological Sciences		
Faculty in charge:	Faculty of Veterinary Medicine (FVM)		
Objectives of the module:	<p>During the course of Dietetics, students acquire knowledge in the field of dietary management in selected disease entities of dogs and cats and the role that individual nutrients play in nutritional therapy. Particular emphasis will be placed on discussing the principles of selecting the amount and proportion of nutrients in each of the disease entities discussed, as well as nutritional guidelines that determine the choice of commercial household food and veterinary diets in the dietary management.</p> <p><u>Detailed description of the course:</u> <u>Lecture topics:</u> Basic nutrition of dogs and cats - species differences in the nutrients requirement and metabolism, impact on whole organism function, principles of home-made diet and commercial petfoods preparation (2 hours); Dietary recommendations in diseases of the gastrointestinal tract, failure of pancreas and liver (2 hours); Dietary recommendations in cachexia, oncological diseases (2 hours); Dietary recommendations in diseases of the kidneys and urinary tract (2 hours); Dietary recommendations in food allergies (1 hour); Nutritional and dietary management in metabolic diseases, diabetes, overweight and obesity (2 hours); Dietary recommendations in dermatological diseases (1 hour); Nutritional and dietary management in dog and cat geriatrics (1 hour); The use of biologically active compounds in the nutritional therapy of diseases (2 hours).</p> <p><u>Seminar classes:</u> During the seminars, students present their seminar related to the lecture topics. The following elements need to be included in presentations regarding each disease: 1) diagnostic parameters specific to a given disease and 2) dietary management plan including both veterinary and home-made diets. Students should participate actively in the discussion moderated by the teacher. Content of training lectures are complementary to the content of education exercises.</p>		
Teaching forms, number of hours:	a) Lectures; 15 hours; b) Laboratory classes; 15 hours;		
Teaching methods:	<u>Lectures:</u> multimedia presentations prepared by lecturers of IVM who are responsible for the theoretical part of the course; the lectures present topics listed above and contain practical and clinical aspects of dietetics. <u>Seminar exercises:</u> students individually elaborate topics agreed with the subject coordinator, present them in class, participate actively in discussion moderated by the teachers. During the presentation, the emphasis will be put on using the acquired skills in veterinary practice. <u>Consultations for students</u> - 1h/week. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.		
Formal prerequisites and initial requirements:	Students should finish the following courses with a positive grade to enter the Dietetics course: Biochemistry, Animal Physiology, Animal nutrition and feeding, Animal pathophysiology.		
Learning outcomes:	Knowledge: Student knows and understands: 1. structure and describes functions of digestive system 2. the relationship between food intake, digestion, absorption and excretion of individual nutrients 3. the differences between species in the demand for nutrients	Skills: Students is able to: 1. properly select dietary management for a given disease 2. lay down food doses for individual animal species in health and disease 3. interpret requirement for ingredients based on results of	Competences: Student: 1.shows responsibility for decisions regarding animal nutrition in good health 2. is ready to undertake a dietary procedure

	4. the differences between commercial food, veterinary diet and home-made diet 5. the characteristic features of dietary management for a given disease	morphological and biochemical analyzes 4. use source materials	3. has a habit of continually improving his knowledge and improvement skills										
Assessment methods:	<p>The effects are verified by:</p> <ol style="list-style-type: none"> getting points from the presented seminar (1-10), the basis for assessment will be compliance with the topic of the seminar, presentation, discussion, justification / defense of the opinions delivered; it is possible to award an additional 5 points during all classes for active participation in the discussion result of the final verification test (single-choice test, to obtain a maximum of 45 points, a score of 0-1 point for each question, includes 25 points). The second term of the final test is in the same form. <p>In the case of excused absence at the final exam, the student does not lose the deadline and takes the final exam on the date agreed with the subject coordinator. Besides the methods of verification of learning outcomes does not provide any additional. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>												
Formal documentation of learning outcomes:	eHMS entry. Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and written questions, written assessments of the students.												
Elements impelling final grade:	<p>To obtain a positive final grade in the course of Dietetics, it is necessary to present a seminar topic and obtain a minimum of 6 points and a positive result of the final exam (minimum of 25 points from 45 points possible). Points for active participation in the discussion are not obligatory but are taken into account in the final assessment of the student's work. The student can get a maximum of 55 points (plus 5 points for activity).</p> <p>Point scale and corresponding grade scale for the final grade after Dietetics course:</p> <table border="0"> <tr> <td>31-35</td> <td>3.0 (sufficient)</td> </tr> <tr> <td>36-40</td> <td>3.5 (sufficient +)</td> </tr> <tr> <td>41-45</td> <td>4.0 (good)</td> </tr> <tr> <td>46-50</td> <td>4.5 (good +)</td> </tr> <tr> <td>51-55</td> <td>5.0 (very good)</td> </tr> </table>			31-35	3.0 (sufficient)	36-40	3.5 (sufficient +)	41-45	4.0 (good)	46-50	4.5 (good +)	51-55	5.0 (very good)
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Teaching base:	Lecture rooms of IVM, didactic laboratory of Biochemistry and Dietetics Division at Department of Physiological Sciences (room 239, 236, 12 building 24)												
Mandatory and supportive materials: 1. Lewis, Small Animal Clinical Nutrition, ed. IV or newer 2. Pibot, Encyclopedia of Canine Clinical Nutrition, Royal Canin, 2006 3. Pibot, Encyklopedia of Feline Clinical Nutrition, Royal Canin, 2006 4. Ceregrzyn, Lechowski, Barszczewska: Podstawy żywienia psów i kotów, ELSEVIER, 2013 5. Relevant scientific publications, including those of the module coordinator													
ANNOTATIONS													

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:					45 h
Hours theoretical:	15	Hours practical:	15	Hours of field exercises:	0
					Total contact hours: 45
Total ECTS points, accumulated by students during contact learning:					1 ECTS

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*)
Knowledge - 1	Student knows and understands structure and describes functions of digestive system	B.W.1 A.W.2	3 1
Knowledge - 2	Student knows and understands the relationship between food intake, digestion, absorption and excretion of individual nutrients	B.W.13 A.W.4	3 1
Knowledge - 3	Student knows and understands knows and understands the differences between species in the demand for nutrients	B.W.9; B.W.13	3
Knowledge - 4	Student knows and understands the differences between commercial food, veterinary diet and home-made diet	B.W.13	3
Knowledge - 5	Student knows and understands the characteristic features of dietary management for a given disease	B.W.1; B.W.3; B.W.5; B.W.6	3 2
Skills - 1	Students is able to properly select dietary management for a given disease	B.U.2; B.U.5; B.U.13	3
Skills - 2	Students is able to lay down food doses for individual animal species in health and disease	B.U.13; B.U.21	3
Skills - 3	Students is able to interpret requirement for ingredients based on results of morphological and biochemical analyzes	B.U.13 A.U.4	3 1
Skills - 4	Students is able to use scientific source of knowledge	A.U.21; A.U.23	3
Competences - 1	Student shows responsibility for decisions regarding animal nutrition in good health	K.S.1	3
Competences - 2	Student is ready to undertake a dietary procedure	K.S.5	3
Competences - 3	Student has a habit of continually improving his knowledge and improvement skills	K.S.4; K.S.8	3