

Module title:	Animal nutrition and feeding	ECTS	4
Polish translation:	Żywnienie zwierząt i paszoznawstwo		
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: ...4..... <input type="checkbox"/> winter semester <input checked="" type="checkbox"/> summer semester
Academic year: 2022/2023		Catalogue number:	FVM-V-JMSS-04S-D04_19

Module coordinator:	prof. dr hab. Mikołaj A. Gralak			
Teachers responsible for the module:	Academic teachers of the Institute ...; Department.../Laboratory of Veterinary Epidemiology and Economics; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study			
Objectives of the module:	During the course, students acquire knowledge of nutrients and basic principles of feeding. Students should understand health problems arising from the improper nutrition including deficiencies, toxicoses and imbalance of nutrients. Students can calculate and balance a diet for different categories of farm animals.			
Teaching forms, number of hours:	a) Lectures; hours 30...; b) Laboratory classes; hours 30...(calculations of diets, seminars); c)			
Teaching methods:	Presentation of the selected topics of animal nutrition and feeding. Presentation of the practical calculation of the animal diet. Seminars on feeding of different farm species prepared by students. Consultations during project practicals. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.			
Formal prerequisites and initial requirements:	They should know basic units of the SI system and understand calculations, especially those using percentages, promiles, ppm etc. Students should have the basic knowledge of animal husbandry and technology. They should know MS Excel at medium level.			
Learning effects	Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*	
Knowledge:	1	Student knows rules of animal feeding (according to the species specifics),	B.W.9, B.W.13, B.W.14	3
	2	S. knows symptoms resulting from wrong nutritional and/or feeding practice	A.W.21	3
	3	Student knows rules for consumer risk assessment	B.W.17	2
	4	Student knows rules of intellectual property	A.W.23	1
Skills:	1	Student can evaluate nutritional state of the animal	B.U.5	3
	2	Student can elaborate and analyse diet composition	B.W.14	3
	3	Student can interpret nutritional causes of pure animal performance	B.U.20	3
	4	Student can interpret information from scientific opinions and papers	A.U.22, C.U.2	3 1
Competences:	1	Student calculates a balanced diet	C.U.3	3
	2	Student ordains information on proper animal nutrition	B.U.21	3
Objectives of the module required to obtain learning effects:				

Assessment methods:	Attendance to lectures and classes (at least 80%), seminar prepared by student (positive grade), two different diets elaborated by student (both positively evaluated) and two written or oral tests (open questions) positively graded. All these conditions have to be met for the positive credit (3 – 5). Written exam (at least eight open questions). In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.														
Detail description of assessment methods; Formal documentation of learning outcome:	No extra assessment methods are anticipated. Elaborated diets; the credit and exam protocols; tests and exam papers signed by students. eHMS entry, MS Teams communication. 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:	A positive credit result (3 – 5) – the condition of an approach to the exam A positive result of the exam (3 – 5) Grading scale: <table border="1"> <thead> <tr> <th>Number of points:</th> <th>Grade</th> </tr> </thead> <tbody> <tr> <td>0 – 25</td> <td>2 (failed)</td> </tr> <tr> <td>25.5 – 28</td> <td>3 (sufficient)</td> </tr> <tr> <td>28.5 – 31</td> <td>3.5 (sufficient +)</td> </tr> <tr> <td>31.5 – 34</td> <td>4.0 (good)</td> </tr> <tr> <td>34.5 – 37</td> <td>4.5 (very good)</td> </tr> <tr> <td>37.5 – 40</td> <td>5.0 (excellent)</td> </tr> </tbody> </table>	Number of points:	Grade	0 – 25	2 (failed)	25.5 – 28	3 (sufficient)	28.5 – 31	3.5 (sufficient +)	31.5 – 34	4.0 (good)	34.5 – 37	4.5 (very good)	37.5 – 40	5.0 (excellent)
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25.5 – 28	3 (sufficient)														
28.5 – 31	3.5 (sufficient +)														
31.5 – 34	4.0 (good)														
34.5 – 37	4.5 (very good)														
37.5 – 40	5.0 (excellent)														
Teaching base:	Facilities of the Faculty														
Mandatory and supportive materials : 1. Topics presented during lectures (students are obligated to make adequate notes during lectures). 2. Topics presented on seminars. 3. Text book: Peter R. Cheeke: Applied Animal Nutrition: feeds and feeding . Pearson Education Inc., Upper Saddle River, New Jersey, 2005, 3rd ed. 4. Self-study: P. McDonald, R.A. Edwards, J.F.D. Greenhalgh, C.A. Morgan: Animal Nutrition . Pearson Education Limited, Harlow, 2002, 6 th ed. 5. Relevant scientific publications including those of the module coordinator.															
ANNOTATIONS No electronic devices can be used during lectures.															

* 3 – complete and detailed, 2 – moderate, 1 – basic.

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:	...109..... h
Total ECTS points, accumulated by students during contact learning:	...2. ECTS