

Module title:	Animal Husbandry and Breeding	ECTS	3
Polish translation:	Chów i hodowla zwierząt		
Course:	Veterinary Medicine		

Module language: English		Stage: JM-FVM	
Form of studies: <input checked="" type="checkbox"/> intramural <input checked="" type="checkbox"/> extramural	Type of module: <input type="checkbox"/> basic <input type="checkbox"/> directional	<input checked="" type="checkbox"/> mandatory <input type="checkbox"/> elective	Semester:3..... <input checked="" type="checkbox"/> winter semester <input type="checkbox"/> summer semester
Academic year: 2023/2024		Catalogue number:	FVM-V-JMSS-03W-D27_23

Module coordinator:	Prof. dr hab. Mikołaj A. Gralak			
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; other specialists if needed and possible.			
Objectives of the module:	<p>During the course students are supposed to familiarize with basic breeds of major species and certain breeds of minor species; the rules of selection and changes in the breeding within the particular breeds. The nowadays husbandry and production of commercial animals for fattening.</p> <p><u>Lectures:</u> Introduction, domestication process, characteristics of domesticated species - 2 h Characteristics of beef and dairy cattle, including primitive breeds, selection traits, history of moulding, - 7 h Characteristics of pig breeds, selection traits, history of moulding, commercial crossing, rare breeds - 6 h Characteristics of sheep breeds, selection traits, history of moulding, commercial crossing for meat, milk and wool production - 5 h Characteristics of goat breeds, selection traits, history of moulding, commercial crossing - 3 h Characteristics of chicken breeds, selection traits, history of moulding, - 2 h Characteristics of poultry minor species breeds, selection traits, history of moulding - 1 h Characteristics of horse breeds, selection traits, history of moulding - 4 h</p> <p><u>Field exercises:</u> Trip/excursion to dairy farm - 8 h Trip/excursion to beef farm - 7 h</p>			
Teaching forms, number of hours:	a) Lectures; hours 30; b) Field exercises; hours 15			
Teaching methods:	<p><u>Lectures:</u> Characteristic of the selected breeds of major and some minor farm species in the form of lectures. Presentation of changes in animal constitution and performance on the example of certain breeds. Explanation of the past and modern selection rules.</p> <p><u>Field exercises:</u> Visiting of a few farms (2-4) in purpose to see and acquire practical condition of animal husbandry in Poland.</p> <p><u>Consultations:</u> During project practicals one hour consultations weekly are foreseen. Detailed schedule of the classes and detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.</p>			
Formal prerequisites and initial requirements:	Students should have the basic knowledge of animal genetics and anatomy.			
Learning effects	Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*	
Knowledge:	1	S. knows basic breeds of the farm animals,	B.W.11, B.W.12	2
	2	S. acquires the moulding of different breeds in the past and nowadays,	B.W.11	2
	3	S. knows the different selection and culling rules,	B.W.11	3
	4	S. understands a risk of improper selection and the necessity of protection of primitive local breeds as the gene pool.	B.W.11, B.W.12	5
Skills:	1	S recognizes and describes basic breeds of farm animals	A.U.9, B.U.2, B.U.20	3
	2	S. can suggest the traits for which animals should be selected and culled.	B.U.20	3

Competences:	1	S. can advise a farmer how to improve his herd/flock.	B.W.20	3
	2	S. can ordain information on proper animal breeding.	B.W.21	1
Objectives of the module required to obtain learning effects:				
Assessment methods:	Attendance to lectures (at least 80% frequency required). Attendance to both visits/excursions to the farms (field exercises) Positively graded written test and exam. In both cases, seven open questions a 5 points, minimum points required 60%. Retake of the test will be held during the same semester. Retake of the exam will be held during the September examination period. No extra assessment methods are anticipated. 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:	A positive credit result (3 – 5); a positive result of the exam (3 – 5) A positive credit grade is the condition sine qua non of taking the exam. Only a positive result of the exam (minimum 60% of points), allows to calculate the final grade: $\text{exam points} + 3 * (\text{credit grade} - 3)$ 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:				
Teaching base:	Lectures			
Mandatory and supportive materials : 1.. Subjects presented during lectures (students are obligated to make adequate notes during lectures) 2. Text book: Campbell J.R., Kenealy M.D., Campbell K.L.: ANIMAL SCIENCES; The Biology, Care, and Production of Domestic Animals 3. Relevant scientific publications, including those of the module coordinator. 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:75.... h
Total ECTS points, accumulated by students during contact learning:	...1,5..... ECTS