Module title:	Rotation farm animal internal diseases	ECTS	1
Polish translation:	Staż choroby wewnętrzne zwierząt gospodarskich		
Course:	**Veterinary Medicine**		

Module language: English		Stage: JM-FVM	
Form of studies: ■ intramural ☐ extramural	Type of module: ☐ basic ■ mandatory ■ directional ☐ elective	Semester: 10	☐ winter semester ■ summer semester
Academic year:	**2020/2021**	Catalogue number:	**FVM-V-JMSS-10S-D26/1_20**

Module coordinator:	**dr Małgorzata Dziekiewicz-Mrugasiewicz**
Teachers responsible for the module:	**Academic teachers of the Institute of Veterinary Medicine; Department of Large Animal Diseases with Clinic; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study**
Unit responsible for the module:	**The Institute of Veterinary Medicine; Department of Large Animal Diseases with Clinic**
Faculty in charge:	**Faculty of Veterinary Medicine**
Objectives of the module:	During the course, students use knowledge of animal internal medicine, reproduction, surgery, epizootiology. Students learn the basics of safe work with farm animals in the field, they practically improve their skills in examining farm animals with diseases requiring internal medicine treatment. During clinical classes students will learn about: - principles of clinical work with farm animals - rules for keeping records related to the treatment of farm animals - principles for preventing farm animals diseases - methods used in diagnosing internal diseases of farm animals in field conditions, including differential diagnostics. During classes, students conduct diagnostics and treatment of encountered clinical cases, and also collect material for additional tests. Laboratory classes take place in the clinical laboratory of the Department. Students during classes: They carry out laboratory tests, (e.g. blood, urine, faeces, fluids from body cavities). They analyse the results of laboratory tests.
Teaching forms, number of hours:	a) Clinical classes; hours 35;
Teaching methods:	**Clinical/laboratory classes**: conducting clinical examination of animals, treatment of clinical cases, analysis of test results **Consultations for students** - 1h / week. The manner of organizing consultations will be determined by the subject coordinator at the beginning of the semester 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:	Knowledge of anatomy, animal physiology, biochemistry, clinical and laboratory diagnostics, pharmacology, animal nutrition, pathophysiology, pathological anatomy, farm animal internal diseases
Learning outcomes:	Knowledge: Student: 1 - knows the pathomechanisms of diseases 2 - knows the rules for conducting interviews and physical examination of animals 3 - knows the rules for treating diseases Skills: Student: 1- knows how to get history taking from owner 2- knows how to safely conduct a veterinary medical examination of the animal 3- based on the interview and general examination knows how to coordinate and perform the appropriate detailed examination and additional tests 4- knows how to carry out differential diagnostics 5- knows how to coordinate appropriate treatment with the patient - including pharmacotherapy, diet therapy 6- knows how to conduct medical and veterinary documentation Competences: Students: 1 - presents an attitude consistent with veterinary deontology and the Veterinary Doctor's Code of Ethics 2 - is ready to take responsibility for his actions and decisions 3 - is aware of the continuous development of science and is ready to expand and update knowledge

		7- knows how to collect material for additional tests and interpret the results obtained 8-knows how to assess the need for euthanasia of the animal, inform the owner about this necessity, carry out euthanasia in accordance with the principles of professional ethics	

Assessment methods:	Assessment resulting from the observation of the student's activity and knowledge during classes, internship project, preparation of a patient's medical history card and checking of practical skills. Classes are held once for each group. The student has the opportunity to make up for the absence with another group but due to the limited number of people who can participate in clinical classes, doing the classes is possible only after prior consultation with the subject coordinator. 100% attendance is required from the student. The final grade in the subject is issued based on the activity in the classroom. The evaluation on a 0-1 point scale covers elements of clinical and laboratory classes, and preparation of an internship project. Maximum number of points 10, weight 100%. Clinical classes (0-5 points) - student's active participation in animal examination - discussion of clinical cases - performing medical and veterinary activities - completing medical and veterinary documentation - collecting material (blood, urine, faeces, swabs) for laboratory tests - the ability to choose the right treatment method for the disease cases in question - filling out the patient's medical card Laboratory classes (0-2 points) - active work in carrying out laboratory tests - discussion of clinical cases Preparation of internship project (0-3 points) - preparation of an internship project on a topic accepted by teacher. Final assessment scale: 0-5 points - 2.0 6 points - 3.0 7 points - 3.5 8 points - 4.0 9 points - 4.5 10 points - 5.0 No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.
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:	The assessed activity during classes and the internship project constitutes 100% of the final grade.
Teaching base:	Classes in the subject will be conducted at the Clinic of the Department of Large Animal Diseases with the Clinic at Wolica. Clinical laboratories will be conducted in RZD SGGW cattle farm in Obory - Goździe as well as farms and herds of animals dealing with the raising and breeding of farm animals.

Mandatory and supportive materials :

1 Bradfort P. Smith. Large animal internal medicine. MOSBY St.Louis London Philadelphia Sydney Toronto, 2005.
2. Steven L. Stockham, Michael A. Scott. Fundamentals of veterinary clinical pathology. Iowa State Press. 2002.
4. Pugh D.G.Sheep and goat medicine. W.B. Saunders Company. Philadelphia, Pennsylvania, 2002.
5.Thomas J. Divers, Simon F. Peek. Diseases of dairy cattle. Saunders Elsevier. 2008.
6. O. M. Radostits, C.C. Gay, K. W. Hinchcliff, P. D. Constable: Veterinary Medicine 10th Edition, Saunders Elsevier, 2007

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:	**35 h**
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 the pathomechanisms and clinical course of diseases	B.W.3	2
Knowledge -2	Student knows the rules for conducting interviews and physical examination of animals	B.W.5	3
Knowledge -3	Student knows the rules for treating diseases	B.W.3	2
Knowledge -4	Student knows the principles of differential diagnosis of diseases	B.W.4	3
Knowledge -5	Student knows the principles of disease monitoring based on clinical data and the results of laboratory and additional tests	B.W.6	3
Knowledge -6	Student knows the rules of conducting medical and veterinary documentation	B.W.6	2
Skills -1	Student knows how to get history taking about animal's disease and enviroment	B.U.2	3
Skills -2	Student knows how to safely conduct a veterinary medical examination of the animal	B.U.3; B.U.1	3
Skills -3	Student based on the interview and general examination knows how to coordinate and perform the appropriate detailed examination and additional tests	B.U.4	2
Skills -4	Student knows how to carry out differential diagnostics	B.U.4	3
Skills -5	Student knows how to coordinate appropriate treatment with the patient - including pharmacotherapy, diet therapy	B.U.9, B.U.10, B.U.13	3
Skills -6	Student knows how to conduct medical and veterinary documentation	B.U.6	2
Skills -7	Student knows how to collect material for additional tests and interpret the results obtained	B.U.6	3
Skills -8	Student can assess the need for animal euthanasia, inform the owner of this necessity, carry out euthanasia in accordance with the principles of professional ethics	B.U.15	3
Competences -1	Student is ready to take responsibility for his actions and decisions	KS.1	2
Competences -2	Student presents an attitude consistent with veterinary deontology and the Veterinary Doctor's Code of Ethics	KS.2	1
Competences -3	Student is aware of the continuous development of science and is ready to expand and update knowledge	KS.4	1