



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Farm animal diseases - internal diseases

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Veterinary Medicine	<b>Didactic cycle</b> 2023/24
<b>Speciality</b> -	<b>Subject code</b> WETFVMS_D.540K.6421804286cb8.23
<b>Organizational unit</b> Faculty of Veterinary Medicine	<b>Lecture languages</b> english
<b>Study level</b> long-cycle	<b>Mandatory</b> Obligatory subjects
<b>Study form</b> full-time studies	<b>Block</b> Major subjects
<b>Education profile</b> General academic	<b>Disciplines</b> Veterinary medicine

<b>Coordinator</b>	Małgorzata Wierzbicka
<b>Teacher</b>	Małgorzata Wierzbicka

<b>Period</b> Semester 7	<b>Examination</b> Exam  <b>Activities and hours</b> Lecture: 30 Ćwiczenia kliniczne: 15 Field exercises: 30	<b>Number of ECTS points</b> 5
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## Goals

Code	Goal
C1	The aim and purpose of the course is to teach students the definition, occurrence, effects of diseases, etiology, pathogenesis, recognition, clinical symptoms, additional tests, differential diagnosis, anatomo-pathological changes, complications, treatment, prognosis and prevention of internal diseases of farm animals. The program contains information about internal diseases of farm animals, encountered in veterinary practice. The student will receive basic information on how to conduct environmental and disease anamnesis, recognition, including the use of laboratory and imaging tests, treatment and prevention of diseases.

## Entry requirements

Knowledge of anatomy, animal physiology, biochemistry, clinical and laboratory diagnostics, pharmacology, animal nutrition, pathophysiology

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	the pathomechanisms and clinical course of diseases	B.W1, B.W2, B.W3	Written exam, Oral credit, Assessment of activity during classes
W2	the rules for conducting interviews and physical examination of animals	B.W5	Written exam, Oral credit, Assessment of activity during classes
W3	the rules for treating diseases	B.W3	Written exam, Oral credit, Assessment of activity during classes
W4	the principles of differential diagnosis of diseases	B.W4, B.W5, B.W6	Written exam, Oral credit, Assessment of activity during classes
W5	the principles of disease monitoring based on clinical data and the results of laboratory and additional tests	B.W3, B.W4, B.W5, B.W6	Written exam, Oral credit, Assessment of activity during classes
<b>Skills - Student can:</b>			
U1	get history taking about animal's disease and environment	B.U2, B.U20	Oral credit, Assessment of activity during classes
U2	safely conduct a veterinary medical examination of the animal	B.U1, B.U3, B.U5	Oral credit, Assessment of activity during classes
U3	coordinate and perform the appropriate detailed examination and additional tests based on the interview and general examination	B.U13, B.U2, B.U3, B.U5	Oral credit, Assessment of activity during classes
U4	carry out differential diagnostics	B.U6, B.U7	Assessment of activity during classes
U5	coordinate appropriate treatment with the patient - including pharmacotherapy, diet therapy	B.U6, B.U7	Assessment of activity during classes
U6	conduct medical and veterinary documentation	B.U3	Assessment of activity during classes

U7	collect material for additional tests and interpret the results obtained	B.U6	Oral credit, Assessment of activity during classes
<b>Social competences - Student is ready to:</b>			
K1	take responsibility for his actions and decisions	KS.1	Oral credit, Assessment of activity during classes
K2	presents an attitude consistent with veterinary deontology and the Veterinary Doctor's Code of Ethics	KS.2	Oral credit, Assessment of activity during classes
K3	is aware of the continuous development of science and is ready to expand and update knowledge	KS.4, KS.8	Oral credit, Assessment of activity during classes

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	<p>Lecture topics:</p> <p>Selected issues of veterinary dermatology, mycoses and parasitic diseases. (2 hours).</p> <p>Selected issues of cardiovascular disease. (2 hours).</p> <p>Selected issues of respiratory diseases; upper respiratory tract diseases. (2 hours).</p> <p>Selected issues of respiratory diseases; pulmonary and pleural diseases. (2 hours).</p> <p>Selected issues of urinary system diseases; non-infectious and infectious diseases of the kidneys, ureters and bladder. (2 hours).</p> <p>Selected issues of diseases of the central and peripheral nervous system. (2 hours).</p> <p>Selected issues from diseases caused by vitamin deficiencies. (2 hours).</p> <p>Selected issues from diseases caused by deficiencies in micro- and macroelements (2 hours).</p> <p>Selected issues of metabolic diseases, ketosis, fatty liver (2 hours).</p> <p>Selected issues of veterinary pediatrics of newborn livestock (2 hours).</p> <p>Selected issues of metabolic diseases, Ca, P and Mg deficiencies (2 hours).</p> <p>Selected issues of gastrointestinal diseases; diseases of the mouth, throat and esophagus. (2 hours).</p> <p>Selected issues of gastrointestinal diseases; stomach and abomasum diseases (2 hours).</p> <p>Selected issues of gastrointestinal diseases; simple, alkaline and acid dyspepsia (2 hours).</p> <p>Selected issues of gastrointestinal diseases; bowel disease. (2 hours)</p>	W1, W2, W3, W4	Lecture

	Laboratory topics: Veterinary dermatology - diagnosis and treatment of selected non-infectious and allergic diseases farm animals. (3 hours) Clinical differential diagnosis and treatment of livestock respiratory diseases. (6 hours) Clinical differential diagnosis and therapy of livestock circulatory system diseases (3 hours) Gastrointestinal diseases - differential diagnosis, diagnosis and treatment of livestock diseases. (9 hours) Excretory system diseases - diagnosis and treatment of livestock urinary system diseases. (3 hours) Clinical, differential and therapy of nervous system diseases. (3 hours) Metabolic disorders - clinical signs, diagnosis and treatment of metabolic diseases of farm animals. (9 hours) Principles of fluid therapy in farm animals. (3 hours) Analysis of laboratory results in farm animals. (3 hours) Differential clinical diagnosis and treatment of diseases of young farm animals. (3 hours) The content of the lectures supplements the content of the laboratory classes		
2.		W1, W2, W3, W4, W5, U1, U2, U3, U4, U5, U6, U7, K1, K2, K3	Field exercises, Ćwiczenia kliniczne

## Course advanced

<b>Activities</b>	<b>Methods of conducting classes</b>
Lecture	Lecture
Ćwiczenia kliniczne	Conversation lecture, E-learning - exercises part, Interpreting the results, Observation, Measurement
Field exercises	Case study, Discussion, Teamwork, Laboratory (experiment), learning by experiment, Observation, Field measurements, Field observations, Measurement

<b>Activities</b>	<b>Examination method</b>	<b>Percentage</b>
Lecture	Written exam	60%
Ćwiczenia kliniczne	Oral credit	30%
Field exercises	Assessment of activity during classes	10%

<b>Activities</b>	<b>Credit conditions</b>
Lecture	<p>In order for the student to take the final exam, he / she must obtain positive grades from tests during classes.</p> <p>Written exam checking practical and theoretical knowledge.</p> <p>The criterion for issuing the grade for the written exam:</p> <ul style="list-style-type: none"> <li>61-69% - (3,0)</li> <li>70-76% - (3,5)</li> <li>77-84% - (4,0)</li> <li>85-92% - (4,5)</li> <li>93-100% -(5,0)</li> </ul> <p>No extra assessment methods are anticipated.</p> <p>In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.</p>

<b>Activities</b>	<b>Credit conditions</b>
Ćwiczenia kliniczne	Students are required to complete two written tests per semester (open questions; pass 60% of the points). The individual tests apply the entire material from the lectures, practical and seminar classes preceding the test and the relevant material from basic and supplementary literature. At the end of the semester the student is required to pass an oral practical test completing practical classes. The second test date is in the same form.
Field exercises	No extra assessment methods are anticipated. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.

## **Literature**

### **Obligatory**

1. Bradford P. Smith. Large animal internal medicine. MOSBY St.Louis London Philadelphia Sydney Toronto, 2005.
2. Thomas J. Divers, Simon F. Peek. Diseases of dairy cattle. Saunders Elsevier. 2008.
3. Pugh D.G. Sheep and goat medicine. W.B. Saunders Company. Philadelphia, Pennsylvania, 2002.

### **Optional**

1. Steven L. Stockham, Michael A. Scott. Fundamentals of veterinary clinical pathology. Iowa State Press. 2002.
2. Blowey R.W., Weaver D.A. Color Atlas of Diseases and Disorders of Cattle. Elsevier, 2011.
3. Pugh D.G. Sheep and goat medicine. W.B. Saunders Company. Philadelphia, Pennsylvania, 2002.
4. Cockcroft P. Bovine Medicine. John Wiley and sons Ltd. 2015
5. Smith B.P. Large Animal Internal Medicine. Elsevier Ltd. 2019

## **Calculation of ECTS points**

<b>Activity form</b>	<b>Activity hours*</b>
Lecture	30
Ćwiczenia kliniczne	15
Field exercises	30
Preparation for the exam	15
Preparation for the test	15
Self-study on the content covered in class	15
Preparation for exercises	15
<b>Student workload</b>	<b>Hours</b> 135
<b>Number of ECTS points</b>	<b>ECTS</b> 5

\* hour means 45 minutes

## Effects

<b>Code</b>	<b>Content</b>
KS.1	Absolwent jest gotów do wykazywania odpowiedzialności za podejmowane decyzje wobec ludzi, zwierząt i środowiska przyrodniczego
KS.2	Absolwent jest gotów do prezentowania postawy zgodnej z zasadami etycznymi i podejmowania działań w oparciu o kodeks etyki w praktyce zawodowej oraz do wykazywania tolerancji dla postaw i zachowań wynikających z odmiennych uwarunkowań społecznych i kulturowych
KS.4	Absolwent jest gotów do korzystania z obiektywnych źródeł informacji
KS.8	Absolwent jest gotów do pogłębiania wiedzy i doskonalenia umiejętności
B.U1	Absolwent potrafi bezpiecznie i humanitarnie postępować ze zwierzętami oraz instruować innych w tym zakresie
B.U2	Absolwent potrafi przeprowadzić wywiad lekarsko-weterynaryjny w celu uzyskania dokładnej informacji o pojedynczym zwierzęciu lub grupie zwierząt oraz jego lub ich środowisku bytowania
B.U3	Absolwent potrafi przeprowadzać pełne badanie kliniczne zwierzęcia
B.U5	Absolwent potrafi oceniać stan odżywienia zwierzęcia oraz udzielać porad w tym zakresie
B.U6	Absolwent potrafi pobierać i zabezpieczać próbki do badań oraz wykonywać standardowe testy laboratoryjne, a także prawidłowo analizować i interpretować wyniki badań laboratoryjnych
B.U7	Absolwent potrafi stosować aparaturę diagnostyczną, w tym radiologiczną, ultrasonograficzną i endoskopową, zgodnie z jej przeznaczeniem i zasadami bezpieczeństwa dla zwierząt i ludzi oraz interpretować wyniki badań uzyskane po jej zastosowaniu
B.U13	Absolwent potrafi dobierać i stosować właściwe leczenie
B.U20	Absolwent potrafi korzystać ze zgromadzonych informacji związanych ze zdrowiem i dobrostanem zwierząt, a w wybranych przypadkach również z produkcyjnością stada
B.W1	Absolwent zna i rozumie zaburzenia na poziomie komórki, tkanki, narządu, układu i organizmu w przebiegu choroby
B.W2	Absolwent zna i rozumie mechanizmy patologii narządowych i ustrojowych
B.W3	Absolwent zna i rozumie przyczyny i objawy zmian anatomiopatologicznych, zasady leczenia i zapobiegania w poszczególnych jednostkach chorobowych
B.W4	Absolwent zna i rozumie zasady postępowania diagnostycznego, z uwzględnieniem diagnostyki różnicowej, oraz postępowania terapeutycznego
B.W5	Absolwent zna i rozumie zasady prowadzenia badania klinicznego i monitorowania stanu zdrowia zwierząt
B.W6	Absolwent zna i rozumie sposób postępowania z danymi klinicznymi i wynikami badań laboratoryjnych i dodatkowych