



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Applied pharmacology of farm animals

### Educational subject description sheet

#### Basic information

<b>Field of study</b> Veterinary Medicine	<b>Didactic cycle</b> 2024/25
<b>Speciality</b> -	<b>Subject code</b> WETFVMS_D.5200.01781.24
<b>Organizational unit</b> Faculty of Veterinary Medicine	<b>Lecture languages</b> english
<b>Study level</b> long-cycle	<b>Mandatory</b> Elective 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>	Wojciech Karlik
<b>Teacher</b>	Wojciech Karlik
<b>Period</b> Semester 10	<b>Examination</b> Pass with grade
	<b>Activities and hours</b> Lecture: 15
	<b>Number of ECTS points</b> 1

## Goals

Code	Goal
C1	To familiarize students with clinical pharmacology and principles of pharmacotherapy of selected disease occurring in farm animals and horses, based on veterinary medicinal products currently authorized in UE (and the student's country). Familiarization with the current list of authorized medicines in the student's country.
C2	An indication of the limitations of pharmacotherapy resulting from the shape of the pharmaceutical market, loss of drug activity, and interactions.
C3	Indication of differences in practical use between authorized formulations with the same active substance. Possibilities and restrictions with the extra-label use of drugs

## Entry requirements

Veterinary pharmacology module 1 and module 2.

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	approved veterinary medicinal products for use in farm animals	B.W3	Written credit, Project
W2	the practical principles of drug selection in given clinical symptom and disease units in farm animals	B.W3	Written credit, Project
W3	the practical principles of using chemotherapeutic in farm animals.	B.W3	Written credit, Project
W4	the principles of combining drugs in combination therapy in selected disease in farm animals.	B.W3	Written credit, Project
<b>Skills - Student can:</b>			
U1	explain the differences, and critically assess the effectiveness of therapy conducted with different drugs with the same basic effect.	B.U13, B.U9	Written credit, Project
U2	assess the benefits and risks of therapy.	B.U13, B.U9	Written credit, Project
U3	critically evaluate the propose therapeutic solutions	B.U13, B.U9	Written credit, Project
U4	correctly assesses the importance of the selected medicinal product in the planned therapy	B.U10, B.U13, B.U9	Written credit, Project
<b>Social competences - Student is ready to:</b>			
K1	select in a responsible manner products for therapy, from approved veterinary medicinal products.	KS.1	Written credit, Project
K2	be guided primarily by the good of the patient when choosing a medicinal product	KS.2, KS.4	Written credit, Project
K3	supplement knowledge in the field of new medicinal products	KS.4, KS.8	Written credit, Project
K4	select the medicinal product based on reliable knowledge	KS.4, KS.8	Written credit, Project
K5	take the responsibility of decisions regarding the choice of a medicinal product	KS.1, KS.2	Written credit, Project

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	European Monitoring Program for Microbial Resistance. Categorisation of antibiotics use in animals.	W3, W4, U2, U3, K1, K2, K3, K4, K5	Lecture
2.	General principles of practical chemotherapy in cattle. Principles of practical chemotherapy for mastitis in cattle. Pharmacotherapy of selected metabolic diseases and diseases of the digestive system of cattle.	W1, W2, W3, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
3.	Principles of practical chemotherapy in poultry.	W1, W2, W3, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
4.	Principles of practical chemotherapy in pigs	W1, W2, W3, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture
5.	Principles of practical chemotherapy in horses. Pharmacotherapy of selected cardiovascular, digestive and respiratory diseases in horses. Use of NSAIDs in horses.	W1, W2, W3, W4, U1, U2, U3, U4, K1, K2, K3, K4, K5	Lecture

## Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, Case study, Analysis of source materials, Individual work

Activities	Examination method	Percentage
Lecture	Project	75%
Lecture	Written credit	25%

Activities	Credit conditions
Lecture	Written test, which consists of 10 descriptive questions. A total of 100 percentage points can be obtained from the test, where 100% is the sum of points to be obtained from individual questions. A report prepared by a student on veterinary medicinal products authorized in his country. To obtain a passing grade, the student must obtain 51% of the test and prepare a report in accordance with the requirements.

## Literature

### Obligatory

1. List of authorized veterinary medicinal product
2. Veterinary pharmacology and therapeutics /edited by Jim E. Riviere, Mark G. Papich. --Hoboken : Wiley Blackwell, © 2018.
3. Equine pharmacology /editors K. Gary Magdesian ; consulting editor Thomas J. Divers. - Philadelphia, Pa. : Elsevier Inc., 2017.
4. Bovine clinical pharmacology /editor Michael D. Apley ; consulting editor Robert A. Smith. - Philadelphia, Pa. : Elsevier, 2015.

### Optional

1. Essential calculations for veterinary nurses and technicians /Terry Lake, Nicola Green ; foreword by Margi Sirois. - St. Louis : Elsevier, cop. 2017.
2. Clinical pharmacology and therapeutics /ed. Katrina L. Mealey. - Philadelphia, Pa. : Elsevier, 2013.
3. Veterinary applied pharmacology and therapeutics /[oprac.] G.C. Brander. - Bailliére Tindall, 1991.

## Calculation of ECTS points

Activity form	Activity hours*
Lecture	15
Preparing a report	10
Preparation for the test	5
<b>Student workload</b>	<b>Hours</b> 30
<b>Number of ECTS points</b>	<b>ECTS</b> 1

\* hour means 45 minutes

## Effects

Code	Content
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.U9	Absolwent potrafi pozyskiwać i wykorzystywać informacje o weterynaryjnych produktach leczniczych dopuszczonych do obrotu
B.U10	Absolwent potrafi przepisywać i stosować weterynaryjne produkty lecznicze oraz materiały medyczne, z uwzględnieniem ich bezpiecznego przechowywania i utylizacji
B.U13	Absolwent potrafi dobierać i stosować właściwe leczenie
B.W3	Absolwent zna i rozumie przyczyny i objawy zmian anatomopatologicznych, zasady leczenia i zapobiegania w poszczególnych jednostkach chorobowych