



SZKOŁA GŁÓWNA  
GOSPODARSTWA  
WIEJSKIEGO

## Veterinary pharmacy

### 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.520.01712.24
<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> Basic 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 6	<b>Examination</b> Pass with grade
	<b>Activities and hours</b> Lecture: 15
	<b>Number of ECTS points</b> 1

## Goals

Code	Goal
C1	Introduction to the basic concepts of general pharmacy.
C2	Discussion of applied pharmacy, with a particular focus on the prescription.
C3	Detailed description of the pharmaceutical forms of drugs used in veterinary medicine. A detailed discussion of the form of medicines used in veterinary medicine. Getting acquainted with methods of drugs prescription. Familiarization with the basic technologies of manufacturing medicinal products.
C4	Familiarization with legal requirements for the manufacture, distribution, sale and control of medicines
C5	Discussion of the most important active substances found in plant raw materials and excipients used in various pharmaceutical forms of drugs.

## Entry requirements

Veterinary pharmacology 1

## Subject's learning outcomes

Code	Outcomes in terms of	Effects	Examination methods
<b>Knowledge - Student knows and understands:</b>			
W1	pharmaceutical law in the field of manufacturing and marketing of veterinary medical products	A.W19	Written credit
W2	the concepts and definitions in the field of general pharmacy	A.W19	Written credit
W3	rules how to build a prescription, how to write prescription for authorised medicinal product and for magistral medicinal product. Student knows characteristics of individual forms of drugs, together with the method of their preparation.	A.W19, A.W20	Written credit
W4	the importance of European and national pharmacopoeia and differences between the pharmacopoeia monographs of substances and the list of authorized medicines	A.W19	Written credit
W5	the most important excipients substances used in pharmaceutical preparations	A.W19	Written credit
<b>Skills - Student can:</b>			
U1	write a prescription, and explain how to use prescribed drugs	A.U16, B.U10	Written credit
U2	determine the appropriate composition and pharmaceutical form of the prescribed drug to achieve the therapeutic goal	A.U16, B.U10	Written credit
<b>Social competences - Student is ready to:</b>			
K1	responsibly prescribe veterinary medicinal products.	KS.1	Written credit
K2	choose a medicine in the best interests of the patient	KS.2, KS.4	Written credit
K3	deepen the knowledge necessary for further education.	KS.4, KS.8	Written credit

## Study content

No.	Course content	Subject's learning outcomes	Activities
1.	Definitions of medicinal product, raw material, substance. Legal norms regarding pharmacy. Short history of pharmacy. Pharmacopoeia.	W1, W2, W4, W5, K2, K3	Lecture
2.	Construction of a veterinary prescription. Rules for writing a prescription for veterinary drugs.	W3, W5, U1, U2, K1	Lecture
3.	Description of individual pharmaceutical forms according to the scheme: definition, characterization of the form, technology of preparation, examples of writing prescriptions.	W3, W4, W5, U1, U2, K1, K2, K3	Lecture

## Course advanced

Activities	Methods of conducting classes
Lecture	Lecture, Problem solving

Activities	Examination method	Percentage
Lecture	Written credit	100%

Activities	Credit conditions
Lecture	Written colloquium, which consists of 2 modules: practical (writing prescriptions) and theoretical (knowledge of topics presented in lectures). In the practical module, students must write at least 2 prescriptions for veterinary drugs. In the theoretical module should answer on 10 descriptive questions. A maximum of 100 percentage points can be obtained from each module. To obtain a passing grade, the student must receive 51% of each module.

## Literature

### Obligatory

1. European Pharmacopoea
2. Ansel's pharmaceutical dosage forms and drug delivery systems / Loyd V. Allen Jr., Nicholas G. Popovich, Howard C. Ansel.— Lippincott Williams & Wilkins, a Wolters Kluwer. 9th ed.
3. Handbook of pharmaceutical manufacturing formulations / Sarfaraz K. Niazi. - Informa Healthcare USA, Inc. 2nd ed.

### Optional

1. List of authorized medicines
2. Pharmaceutical preformulation and formulation. A practical guide from candidate drug selection to commercial dosage form / edited by Mark Gibson AstraZeneca R&D Chamwood Loughborough, Leicestershire, UK / Informa healthcare, Second Edition

## Calculation of ECTS points

Activity form	Activity hours*
Lecture	15

Preparation for the test	15
<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
A.U16	Absolwent potrafi interpretować odpowiedzialność lekarza weterynarii w stosunku do zwierzęcia i jego właściciela oraz w stosunku do społeczeństwa i środowiska przyrodniczego
A.W19	Absolwent zna i rozumie procedury i elementy niezbędne do wystawienia recepty na weterynaryjne produkty lecznicze
A.W20	Absolwent zna i rozumie polską i łacińską nomenklaturę medyczną
B.U10	Absolwent potrafi przepisywać i stosować weterynaryjne produkty lecznicze oraz materiały medyczne, z uwzględnieniem ich bezpiecznego przechowywania i utylizacji