

SYLLABUS OF THE EDUCATIONAL COMPONENT



Clinical veterinary pharmacology and pharmacy

specialty	211 Veterinary medicine	mandatory discipline	selective
educational program	Veterinary medicine	faculty	of veterinary medicine
educational level	Master's degree	Department	pharmacology and parasitology

TEACHER

Ladohubets Olena Vasyliivna



Higher education - specialty biologist
 Scientific degree - candidate of biological sciences 03.00.13 Human and animal physiology
 Academic title - associate professor of the department of pharmacology and parasitology
 Work experience - 20 years
 Indicators of professional activity on the subject of the course:

- author of more than 7 methodological developments;
- author and co-author of more than 120 scientific works, including articles indexed in Web of Science scientometric databases – 5,
- scientific-practical and methodical recommendations – 7, educational and methodological manuals – 4, GSTU – 2.

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The following are involved in the teaching of the discipline: associate professor, candidate of medicine. Sciences Duchenko Kateryna Andriivna.

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)

Goal	Acquisition of theoretical knowledge and practical skills regarding the etiology and pathogenesis of the main symptoms and syndromes of common animal diseases; selection of adequate drugs according to symptoms; effectiveness and safety of medicinal products, assessment of benefits/risks when using medicinal products; predicting the occurrence of a side effect of medicines; interpretation of the value of pharmacokinetic parameters of medicinal products; dosage for individual pharmacotherapy; implementation of pharmaceutical care.
Format	lectures, practical classes, independent work, individual tasks
Detailing of learning results and forms of their control	<ul style="list-style-type: none"> • The ability to analyze data from educational and special literature when solving professional tasks related to the appointment of medicines for the treatment of animals and the prevention of diseases (3K1,3K2,ПРН10) / individual tasks for analysis • The ability to orientate in a wide arsenal of medicinal products, to scientifically prescribe one or another drug depending on the pharmacological action, animal species, the development of the pathological process with the maximum therapeutic effect and the minimum side effect; (3K2,3K3,ПРН1,ПРН15) / individual tasks for analysis • The ability to draw up a pharmacological scheme for the treatment of animals, taking into account the combined action of drugs and their pharmacological compatibility; • The ability to distinguish the side effect of drugs and differentiate it from the symptoms of the development of pathological processes (3K2,3K3, ФК7, ПРН15,ПРН20) / individual tasks for analysis •
Scope and forms of control	4 ECTS credits (120 hours): 14 hours of lectures, 14 hours of practical classes; 92 hours of independent work, modular control (2 modules); final control - differentiated assessment.
Requirements of the teacher	timely completion of tasks, activity, teamwork
Enrollment conditions	after mastering the following components: (list)...." or "free enrollment"

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competences	<p>ZK1. Ability to abstract thinking, analysis and synthesis.</p> <p>ZK2. Ability to apply knowledge in practical situations.</p> <p>ZK3. Knowledge and understanding of the subject field and profession.</p> <p>ZK8. Ability to learn and master modern knowledge.</p> <p>FC2. The ability to use tools, special devices, devices, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities</p> <p>FC7. Ability to organize and conduct laboratory and special diagnostic studies and analyze their results.</p>	Program learning outcomes	<p>PRN1. Know and correctly use the terminology of veterinary medicine.</p> <p>PRN10. To propose and use expedient innovative methods and approaches to solving problematic situations of professional origin.</p> <p>PRN15. Know the rules of storage of various pharmaceuticals and biological preparations, ways of their enteral or parenteral use, understand the mechanism of their action, interaction and complex action on the animal body.</p> <p>PRN20. To have specialized software tools for performing professional tasks.</p>
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STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

Module 1. Medicinal products affecting the central nervous, cardiovascular and respiratory system

Lecture 1.	Subject and tasks of clinical pharmacology. Side effects of drugs	practical classes (PC 1)	Medicines for the treatment of the central nervous system	Independent work	Medicines for the treatment of diseases of the gastrointestinal tract
Lecture 2.	Pharmacological characteristics of groups of drugs for the treatment of animals with central nervous system pathology.				
Lecture 3.	Characteristics of drugs used for the treatment of diseases of the heart and vascular system in mammals	PC 3	Medicines for the treatment of the cardiovascular system.		

Module 2 Medicinal products affecting the gastrointestinal tract endocrine and reproductive system

Lecture 4.	Principles of pharmacotherapy of diseases of kidneys and urinary tract.	PC4	Medicines for the treatment of blood systems.	Independent work	Medicines for the treatment of infectious diseases
Lecture 5	Principles of pharmacotherapy of diseases of the gastrointestinal tract.	PC 5	Medicines for the treatment of the endocrine and reproductive systems		
Lecture 6	Pharmacotherapy of diseases of the reproductive system	PC 6	Effects of chemotherapeutic medicines		
Lecture 7	Means that affect the immune system	PC 7	Antitumour medicines (Nomenclature and classification, side effects)		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

literature

Basic literature

1. K.L. Mealy Pharmacotherapeutics for Veterinary Dispensing.- Wiley-Dlackwell , 2019 .- 417 p.
2. S.Giguere, J.Prescott, P.M.Dowling Antimicrobial Therapy in Veterinary Medicine.- Wiley-Dlackwell, 2013.- 675 p.
3. Walter H. Hsu Handbook of Veterinary Pharmacology.-Wiley-Dlackwell , 2008 .-537 p.

Additional literature

4. D.C.Plamb Veterinary Drug Handbook.- Pharma Vet.Inc.- 2011, 573 p.
5. M. Papich Sounders Handbook of Veterinary Drugs. Small and Large Animals.- Elsevier.- 2011, 812 p.

Methodical support

1. H.Luellmann, K.Mohr, L.Hein Color Atlas of Pharmacology- Thieme, 2017.-876 p.
2. L.Pokludova Antimicrobials in Livestock.- Springer, 2020.- 312 p.
3. Recipe of veterinary medicine (Workbook). / Nikiforova O.V., Ladogubets O.V., Duchenko K.A. , Harkusha I.V./ 2023.-80 p.

EVALUATION SYSTEM ([electronic link to regulations](#))

	SYSTEM	POINTS	ACTIVITY TO BE EVALUATED
Final assessment	100 point ECTS (standard)	up to 50	50% of the average grade for the modules
		up to 50	final testing
Modular assessment	100 points total	up to 50	answers to test questions
		up to 20	oral answers in laboratory-practical classes
		up to 30	the result of mastering the block of independent work

NORMS OF ACADEMIC ETHICS AND CHARITY

All participants in the educational process (including those seeking education) must adhere to the code of academic integrity and the requirements set forth in the provision "On academic integrity of participants in the educational process of DBTU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.