

SYLLABUS OF THE EDUCATIONAL COMPONENT



VETERINARY PHARMACOLOGY

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

TEACHER

Ladohubets Olena Vasyliievna



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

Goal	formation of a holistic view of the pharmacokinetics and pharmacodynamics of the main groups of therapeutic agents, their pharmacotherapeutic and side effects. Particular attention is paid to the indications and contraindications for the use of medicinal drugs in veterinary practice.
Format	lectures, practical classes, independent work, individual tasks
Detailing of learning results and forms of their control	<ul style="list-style-type: none"> • Ability to search and process information from professional sources regarding the use of medicinal products for the treatment and prevention of animal diseases (GC1, GC2, GC3, PLO 2) / individual tasks for analysis • Ability to treat and prevent animal diseases using medicines (GC2, GC3, GC7, GC8, PLO3, PLO6) / individual practical tasks • Ability to understand the importance and necessity of carrying out treatment and preventive measures with the use of medicinal products (GC2, GC3, GC10, FC8, PLO6, PLO7) / individual situational tasks • The ability to organize, conduct and analyze the results of special laboratory studies with the appropriate registration of their results (GC2, GC3, FC2, PLO7) / individual tasks for analysis • • Ability to timely and effectively develop and implement measures regarding the use of medicinal products (GC2, GC3, GC8, FC8, PLO6, PLO7) / individual practical tasks
Scope and forms of control	6 ECTS credits (180 hours): 14 hours of lectures, 76 hours of laboratory classes; 90 hours of independent work, current control (2 tests); final control - exam.
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>GC1. Ability to abstract thinking, analysis and synthesis.</p> <p>GC2. Ability to apply knowledge in practical situations.</p> <p>GC3. Knowledge and understanding of the subject field and profession.</p> <p>GC7. Ability to conduct research at an appropriate level</p> <p>GC8. Ability to learn and master modern knowledge.</p> <p>GC10. Ability to communicate with representatives of other professional groups at different levels (with experts of other fields of knowledge/types of economic activity)</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>FC8. Ability to plan, organize and implement measures for the treatment of animals suffering from non-contagious, infectious</p>	Program learning outcomes	<p>PLO1. Know and correctly use the terminology of veterinary medicine.</p> <p>PLO2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies</p> <p>PLO3. Determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathological conditions</p> <p>PLO6. Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies</p> <p>PLO7. Formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-contagious diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and</p>
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STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. General pharmacology. Recipe. Special pharmacology. Medicines that act mainly on the central nervous system. Medicines acting mainly in the area of peripheral nerve endings. Means for the treatment of allergic diseases

Lecture 1.	The subject, methods, history and prospects of the development of pharmacology. General pharmacology. Pharmacokinetics. Pharmacodynamics of medicines.	laboratory-practical classes LPC-1-2	General pharmacology. General recipe.	Independent work	General pharmacology. Recipe. Special pharmacology. Medicines that act mainly on the central nervous system. Medicines acting mainly in the area of peripheral nerve endings
		LPC 3-4	Solid dosage forms.		
		LPC 5-6	Soft dosage forms.		
Lecture 2.	Central nervous system depressants. Anticonvulsant and psychotropic drugs. Neuroleptics, tranquilizers, sedatives. Analgesic agents. Means that stimulate the function of the central nervous system.	LPC 7-8	Liquid dosage forms. Central nervous system depressants		
		LPC 9	Central nervous system depressants.		
		LPC 10	Inhalation and non-inhalation means for anesthesia. Sleep aids. Preparations for euthanasia.		
Lecture 3.	Means acting on the peripheral nervous system. Agents that suppress afferent (sensitive) nerves. Means that excite sensitive receptors. Agents acting on the efferent nervous system.	LPC 11	Anticonvulsant and psychotropic drugs. Neuroleptics, tranquilizers, sedatives. Sedative drugs.		
		LPC 12	Analgesic agents. Narcotic and non-narcotic analgesics.		
		LPC 13	Means that stimulate the function of the central nervous system. Psychostimulants, analeptics, nootropics, antidepressants.		
Lecture 4.	The subject, methods, history and prospects of the development of pharmacology. General pharmacology. Pharmacokinetics. Pharmacodynamics of medicines.	LPC 14	Agents that suppress afferent (sensitive) nerves. Local anesthetics. Astringent, antacid and enveloping, adsorbing and complexing medicinal products.		
		LPC 15	Means that excite sensitive receptors.		
		LPC 16	Agents acting on the efferent nervous system. Means that stimulate M- and H-cholinergic, M- cholinergic, H- cholinergic receptors.		
		LPC 17-18	Agents acting on the efferent nervous system. M- and H-cholinoblockers, M-cholinoblockers, H-cholino-blockers. Anticholinesterase drugs. Reactivators of cholinesterase		

		LPC 19	Medicines acting on cholinergic synapses. Ganglioblockers. Muscle relaxants. Agents acting on adrenergic synapses.		
Chapter 2. Antimicrobial, antiviral and antiparasitic drugs. Deratizing drugs. Drugs affecting the hematopoietic system. Medicines regulating the functions of some organs and systems. Drugs affecting metabolism and the immune system. Antitumor drugs					
Lecture 5.	Chemotherapeutic drugs. Antibiotics. Sulfanilamides. Anthelmintic drugs. Insecticidal and acaricidal preparations.	LPC 20-21	Chemotherapeutic drugs. Antibiotics Penicillins. Cephalosporins. Aminoglycosides	Independent work	Antimicrobial, antiviral and antiparasitic drugs. Deratizing drugs. Drugs affecting the hematopoietic system. Medicines regulating the functions of some organs and systems Drugs affecting metabolism and the immune system. Antitumor drugs
Lecture 6.	Drugs affecting the cardiovascular system. Cardiotonic means. Drugs affecting the blood system.	LPC 22	Chemotherapeutic drugs. Antibiotics. Tetracyclines. Levomycetin preparations. Macrolides. Rifamycins. Antibiotics of different groups. Treatment and prevention of coronavirus in small domestic animals		
		LPC 23	Sulfanilamides		
		LPC 243	Antimicrobial drugs of various groups		
Lecture 7.	Medicines that affect the urinary system. Preparations for the treatment of organs of the gastrointestinal tract.	LPC 25	Antiseptic and disinfecting preparations.		
		LPC 26	Antiparasitic drugs. Anthelmintic drugs. Insecticides and acaricides.		
		LPC 27	Antiparasitic drugs. Insecticides and acaricides.		
		LPC 28	Antiprotozoal, coccidiostatic drugs. Zoocides.		
		LPC 29	Drugs affecting the cardiovascular system.		
		LPC 30	Drugs affecting the blood system.		
		LPC 31	Medicines that affect the urinary system.		
		LPC 32	Preparations for the treatment of organs of the gastrointestinal tract.		
		LPC 33	Enzyme preparations and probiotics.		
		LPC 34	Vitamin preparations.		
		LPC 35	Hormonal and antihormonal drugs		
		LPC 36	Medicines affecting immune processes		
		LPC 37	Antihypoxants and antioxidants		
		LPC 38	Antitumor drugs.		

Література	RECOMMENDED BOOKS		Методичне забезпечення	
	Basic literature			
	<ol style="list-style-type: none">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			
	<ol style="list-style-type: none">4. D.C.Plamb Veterinary Drug Handbook.- Pharma Vet.Inc.- 2011, 5735. M. Papich Saunders Handbook of Veterinary Drugs. Small and Large Animals.- Elsevier.- 2011, 812 p.			
				<ol style="list-style-type: none">1. H.Luellmann, K.Mohr, L.Hein Color Atlas of Pharmacology- Thieme, 2017.-876 p.2. L.Pokludova Antimicrobals 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.

GRADING SYSTEM

SYSTEM		POINTS	ACTIVITY THAT IS ASSESSED
Summative assessment (differentiated test, exam)	100 ECTS points (standard)	to 100	40 % - final testing 60 % - student's current work during the semester
		to 30	answers to test questions
Section evaluation	100-point total	to 30	result of mastering the independent work block
		to 40	student activity in classes (oral answers)

NORMS OF ACADEMIC ETHICS AND INTEGRITY

All participants in the educational process (including students) must adhere to the code of academic integrity and the requirements stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of DBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.