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 Vasylievna

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	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	• The ability to summarize information and make informed decisions regarding the occurrence, spread, characteristics of the course, measures for diagnosis and treatment of animal poisoning (GC1,GC2,GC9,GC11,PLO5,PLO6,PLO7) / individual tasks for analysis • • Ability to choose the object and methods of toxicological research (GC1, GC7, GC9, PLO5, PLO6, PLO7) / individual tasks for analysis • The ability to combine the results of the clinical examination of animals with the results of a toxicological study in order to establish a diagnosis (GC1,GC7,GC11,PLO5,PLO6,PLO7) / individual tasks for analysis • Ability to make informed decisions during toxicological studies among animals of various species (GC1,GC7,GC9,GC11,PLO5,PLO6,PLO7) / individual tasks for analysis • • The ability to correctly choose the criteria for evaluating animal poisonings of various species and carry out the diagnosis, treatment and prevention of animal poisonings (GC1,GC7,GC9,GC11,PLO5,PLO6,PLO7) / 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, current control (2 chapters); 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	GC 1. Ability to abstract thinking, analysis and synthesis. GC 2. Ability to apply knowledge in practical situations. GC 7. Ability to conduct research at an appropriate level GC 9. Ability to make informed decisions. GC 1. The ability to evaluate and ensure the quality of the work performed	**Program learning outcomes**	PLO5. To establish a connection between the clinical manifestations of the disease and the results of laboratory studies. PLO6. Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies. 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 species.

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. Medicinal products affecting the central nervous, cardiovascular and respiratory system					
Lecture 1.	**Subject and tasks of clinical**	**Practical**	**Medicines for the treatment of the**	**–**	**Medicines for the treatment of diseases of**

	pharmacology. Sde effects of drugs	classes (PC 1)	central nervous system		the gastrointestinal tract
Lecture 2.	Pharmacological characteristics of groups of drugs for the treatment of animals with central nervous system pathology.	PC 2	Medicines affecting efferent innervation (drugs of the mediator action)		Medicines for the treatment of diseases of respiratory system
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.		
Chapter 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

1. K.L. Mealy Pharmacotherapeutics for Veterinary Dispensing. Wiley-Dlackwell, 2019 .417 p.
2. S.Giguere, J.Prescott, P.M.Dowling Antimicrobal Therapy in Veterinary Medicine.- Wiley-Dlackwell, 2013.- 675 p.
3. Walter H. Hsu Handbook of Veterinary Pharmacology.-Wiley-Dlackwell , 2008 .-537 p. D.C.Plamb Veterinary Drug Handbook.Pharma Vet.Inc.2011, 573 p.
4. 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 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.

EVALUATION SYSTEM

SYSTEM		POINTS	ACTIVITY THAT IS ASSESSED
Final assessment (different credit, exam)Final evaluation	100 ECTS points (standard)	up to 100	40 % - Final testing
			60 % - student's current work during the semester
Final assessment (non-differential credit)	100 points ECTS (standard)	up to 100	100 % - average grade for sections
Rating of section	100 points total	up to 30	30 % - answers to test questions
		up to 30	30 % - the result of mastering the block of independent work
		up to 40	40 % - student activity in class (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 SBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.