SYLLABUS OF THE EDUCATIONAL COMPONENT

GENERAL PHARMACOGNOSY

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.

phone	0504022811	Email	ladohubets@gmail.com	remote support	Moodle

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	**3 ECTS credits (90 hours): 12 hours of lectures, 18 hours of practical classes; 60 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. General pharmacognosy

Lecture 1.	Basic concepts, terms and knowledge of pharmacognosy. A short historical sketch of pharmacognosy	Practical classes (PC 1-2)	Medicinal roses (MP) and medicinal roses (MRM). Medicine forms that are prepared from MP, the technology of their preparation	Independent work	Application in practice and prospects for the use of drugs from medicinal plant raw materials in veterinary medicine.
Lecture 2.	Basics of preparing, drying and preserving medicinal rose syrup	PC 3	Methods for assessing the reliability of medicinal raw materials		
Lecture 3.	Biotechnology of medicinal plants.	PC 4	Protection of wild medicinal plants and their resources Biotechnology of medicinal plants		

Chapter 2. Pharmacological action and use of medicinal plants in veterinary medicine

Lecture 4.	Biologically active speech of medicinal plants: carbohydrates - monosaccharides, related monosaccharides, oligosaccharides, polysaccharides	PC 5	Classifications, physical and chemical properties of carbohydrates	Independent work	Application in practice and prospects for the use of drugs from medicinal plant raw materials containing alkaloids and glycosides in veterinary medicine. Features of the clinical manifestation and course of poisoning by certain plant species.
		PC 6	Future classification of peptides and proteins; methods of observation and investigation		
Lecture 5	Biologically active compounds from medicinal plants: peptides and proteins – lactones, enzymes	PC 7	Classification, physical and chemical power, methods of fat retention, biological action and vicorization		
Lecture 6	Biologically active medicinal plants: glycosides	PC 8	Classification, physical and chemical properties of glycosides		
		PC 9	Classification, physico-chemical properties of phenolic compounds, their biological activity and stagnation		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

literature

K.L. Mealy Pharmacotherapeutics for Veterinary Dispensing.- Wiley-Dlackwell , 2019 .- 417 p.

1. S.Giguere, J.Prescott, P.M.Dowling Antimicrobal Therapy in Veterinary Medicine.- Wiley-Dlackwell, 2013.- 675 p.
2. Walter H. Hsu Handbook of Veterinary Pharmacology.-Wiley-Dlackwell , 2008 .-537 p.
3. 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.