SYLLABUS OF THE EDUCATIONAL COMPONENT

MEDICINAL PLANTS IN VETERINARY MEDICINE

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	formation of students' competences in the assimilation of the diversity of wild and cultivated representatives of the flora of Ukraine as medicinal products of natural origin used in veterinary practice
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 (120 hours): 12 hours of lectures, 18 hours of laboratory 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.	**Introduction to the discipline Medicinal plants in veterinary medicine.**	**Practical classes (PC 1)**	**Medicinal plants (MP) and medicinal plant raw materials (MPRM). Medicinal forms prepared from LRS, the technology of their preparation.**	**Independent work**	**History of the study of medicinal plants.** **The meaning of the Red Book.** **The role of LR introduction and examples.**
Lecture 2.	**Biologically active substances of medicinal plants: alkaloids, glycosides.**				
Lecture 3.	**Biologically active substances of medicinal plants: terpenoids, flavonoids, tannins, coumarins, chromones, xanthones, essential oils, resins and balms, antibiotic substances, hormone-like substances, polysaccharides, fats, bitterness, vitamins, organic acids, trace elements.**	**PC 2**	**Determining the reliability of MPRM.**		
		PC 3	**Biologically active substances of medicinal plants.**		
Chapter 2. Pharmacological effect and use of medicinal plants in veterinary medicine					
Lecture 4.	**Medicinal plantsc ontaining polysaccharides, fats and fatty substances, vitamins, enzymes and phytohormones,**	**PC 4**	**Medicinal plants that act on the central nervous system and affect the work of the heart.**	**Independent work**	**Application in practice and prospects of use in veterinary medicine of medicines from medicinal plant raw materials.** **Peculiarities of the clinical manifestation and course of poisoning by certain types of plants.**
	glycosides, phenolic compounds and their glycosides, coumarins, chromones, lignans, flavonoids, xanthones, quinones, tannins (tannins).	**PC 5**	**Medicinal plants used for stomach and intestinal ulcer diseases, which have choleretic properties and contain bitters.**		
Lecture 5	**Medicinal plants containing isoprenoids and essential oils, steroids, cardiosteroids and alkaloids.**	**PC 6**	**Medicinal plants that have emetic, ruminative, expectorant properties and a laxative effect.**		
		PC 7	**Medicinal plants that have a firming and astringent hemostatic property and tone the uterus.**		
Lecture 6	**Medicinal plants containing different groups of biologically active substances.**	**PC 8**	**Medicinal plants with diuretic and antiparasitic effects.**		
		PC 9	**Medicinal plants that have an anti-inflammatory and tonic effect.**		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

literature	**RECOMMENDED BOOKS** **Basic literature** 1. Andrew Chevallier Encyclopedia Of Herbal Medicine: Dorlina, 2023.- 360 p. 2. Handbook of Medicinal Plants : A Complete Source Book/Narayan Das Prajapati; S S Purohit; Arun K Sharma and Tarun Kumar.: Agrobios, 2021,-554 P. 3. Veterinary herbal medicine / [edited by] Susan G. Wynn, Barbara J.Fougère.:Mosby Inc.,2017.- 714 c. **Additional literature** 4. Handbook of Medicinal Plants/ [edited by] Zohara Yaniv, Uriel Bachrach.:Routledge.,2008.-526 p 5. Pharmacognosy /[edited by Simona Badal.: Elsevier Inc., 2017 .- 716 p.	Methodical support	

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.