

SYLLABUS OF THE EDUCATIONAL COMPONENT



PHARMACY BUSINESS WITH THE BASICS OF MANUFACTURING VETERINARY DRUGS

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 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 – 6,
- 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	providing students with the necessary theoretical knowledge and practical skills in the safe and effective use of animal protection products; methods of prevention of the negative impact of toxic substances on the body of productive animals, including birds, fish and bees
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. GC2. Ability to apply knowledge in practical situations. GC3. Knowledge and understanding of the subject field and profession. GC8. Ability to learn and master modern knowledge. FC2. The ability to use tools, special devices, devices, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities FC7. Ability to organize and conduct laboratory and special diagnostic studies and analyze their results.	Program learning outcomes	PLO 1. Know and correctly use the terminology of veterinary medicine. PLO10. Propose and use expedient innovative methods and approaches to solving problematic situations of professional origin. PLO15. Know the rules for the manufacture and storage of various medicinal forms in pharmacies. PLO20. To have specialized software tools for performing professional tasks.
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STRUCTURE OF THE EDUCATIONAL COMPONENT					
Chapter 1. Basic terms and concepts in drug technology					
Lecture 1.	The concept of veterinary medicine and veterinary pharmacy	practical classes (PC 1)	Dosage in pharmacy practice.	Independent work	Requirements for the packaging of medicines. Ways of prescribing powders Verification of single and daily doses of poisonous drugs means in powders.
Lecture 2.	State regulation of production and sale of veterinary drugs Provision of emergency aid and treatment of animals in case of poisoning.	PC 2	Means for weighing and measurement of substances by mass and volume in the pharmaceutical technology of drugs		
		PC 3	Preparation of simple and complex powders		
Lecture 3.	Classification of dosage forms Solid dosage forms. Classification	PC 4	Production technology of powders with dry and thick extracts.		
Chapter 2. Technology of production of soft and liquid dosage forms					
Lecture 4	Classification of soft dosage forms.	PC 5	Technological rules for the production of ointments and liniments	Independent work	Methods of prescribing soft medicinal forms Determination of chemical stability of emulsions Methods of prescribing liquid medicinal forms
Lecture 5.	Technology of production of liquid medicinal forms. General characteristics.	PC 6	Technological rules for the production of plasters, creams, suppositories		
		PC 7	Classification of liquid dosage forms, requirements for solvents		
Lecture 6	Theoretical basics of making solutions	LPC 8	Technological stages of production of liquid dosage forms		
		LPC 9	Production technology of infusions, decoctions, syrups, drops, emulsions, suspensions		
BASIC LITERATURE AND METHODOLOGICAL MATERIALS					
literature	RECOMMENDED BOOKS		Methodical materials	1. Recipe of veterinary medicine. Workbook / Nikiforova O.V., Ladogubets O.V., Duchenko K.A. Harkusha I.V., DBTU., 2023.- 80 p.	
	Basic literature 1. Veterinary Drug Manufacturing Encyclopedia. Marshall Sittig. Noyes Publications, 1981 - Medical - 507 p 2. James A Budde , Dawn McCluskey Plumb's Veterinary Drug Handbook , 10 Edition-2023.-978				

	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.