

# SYLLABUS OF THE EDUCATIONAL COMPONENT



## VETERINARY TOXICOLOGY

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 Vasyliевна



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 (DISCIPLINE)

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	<ul style="list-style-type: none"> <li>• 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 (ZK1,ZK2,ZK9,ZK11,PRN5,PRN6,PRN7) / <b>individual tasks for analysis</b></li> <li>• • Ability to choose the object and methods of toxicological research (ZK1, ZK7, ZK9, PRN5, PRN6, PRN7) / <b>individual tasks for analysis</b></li> <li>• 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 (ZK1,ZK7,ZK11,PRN5,PRN6,PRN7) / <b>individual tasks for analysis</b></li> <li>• Ability to make informed decisions during toxicological studies among animals of various species (ZK1,ZK7,ZK9,ZK11,PRN5,PRN6,PRN7) / <b>individual tasks for analysis</b></li> <li>• • 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 (ZK1,ZK7,ZK9,ZK11,PRN5,PRN6,PRN7) / <b>individual tasks for analysis</b></li> </ul>
Scope and forms of control	3 ECTS credits (90 hours): 12 hours of lectures, 18 hours of practical classes; 60 hours of independent work, modular control (2 modules); 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	<p>GC 1. 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>GC8. Ability to learn and master modern knowledge.</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>FC7. Ability to organize and conduct laboratory and special diagnostic studies and analyze their results.</p>	Program learning outcomes	<p>PLO 1. Know and correctly use the terminology of veterinary medicine.</p> <p>PLO10. Propose and use expedient innovative methods and approaches to solving problematic situations of professional origin.</p> <p>PLO15. Know the rules for the manufacture and storage of various medicinal forms in pharmacies.</p> <p>PLO20. To have specialized software tools for performing professional tasks.</p>
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## STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

### Module 1. Basic terms and concepts in drug technology

Lecture 1.	The concept of veterinary medicine and veterinary medicine 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.		

### Module 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
	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		1. Recipe of veterinary medicine. Workbook / Nikiforova O.V., Ladogubets O.V., Duchenko K.A. Harkusha I.V., DBTU., 2023.- 80 p.

### EVALUATION SYSTEM ([electronic link to regulations](#))

SYSTEM		POINTS	ACTIVITY TO BE EVALUATED
Final assessment	100 point ECTS (standard)	up to 50	50% of the average grade for the modules

		up to 50	final testing
Modular assessment	100 points total	up to 50	answers to test questions
		up to 20	oral answers in laboratory-practical classes
		up to 30	the result of mastering the block of independent work

### NORMS OF ACADEMIC ETHICS AND CHARITY

All participants in the educational process (including those seeking education) must adhere to the code of academic integrity and the requirements set forth in the provision "On academic integrity of participants in the educational process of DBTU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.