



# **GLOBAL PARASITOLOGY**

specialty	211 Veterinary medicine	obligation of discipline	optional
educational program	Veterinary medicine	faculty	veterinary medicine
educational level	Master's degree	department	pharmacology and parasitology

## **LECTURER**

## Nikiforova Olga Vasylievna



**Higher education - veterinary medicine specialty** 

Scientific degree - candidate of veterinary sciences 16.00.11 - parasitology, helminthology

Academic status - associate professor of the department of parasitology

Work experience - more than 18 years

Indicators of professional activity on the subject of the course:

- author of more than 25 methodological recommendations;
- author and co-author of more than 110 scientific works,

including articles indexed in scientometric databases Scopus and Web of Science – 7;

- declaratory patents for inventions 5; training manuals 3; copyright certificate for the work 1;
- scientific-practical and methodical recommendations 9;
- participant in scientific and methodical conferences.

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## **GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT**

**Purpose of discipline** 

is to acquire theoretical and practical knowledge in the diagnosis, treatment and prevention of parasitic diseases of animals, gaining practical

	skills in carrying out antiparasitic measures in live	skills in carrying out antiparasitic measures in livestock farms and preparing undergraduate students for independent practical work.				
Format	lectures, laboratory classes, independent wo	lectures, laboratory classes, independent work, individual tasks, team work, simulation project				
Detailing of learning results and forms of control	<ul> <li>ability to assess the state of health of SC7, PLO4, PLO5, PLO7) / simulation to ability to predict the course of parasistics. SC2, SC3, GC4, SC6, SC7, SC8, SC12, SC4 the regulatory framework</li> <li>ability to evaluate the quality of treasistics. SC2, SC3, SC8, SC12, SC13, PLO6, PLO7</li> <li>the ability to diagnose disorders in the SC4, SC6, SC7, PLO4, PLO5, PLO7) / traisinglementation of environmental predictions.</li> </ul>	<ul> <li>ability to assess the state of health of animals suffering from parasitic diseases (GC1, GC2, GC3, GC9, SC2, SC3, SC4, SC6, SC7, PLO4, PLO5, PLO7) / simulation team project 1</li> <li>ability to predict the course of parasitic diseases and the effectiveness of control measures (GC1, GC2, GC3, GC9, GC11, SC2, SC3, GC4, SC6, SC7, SC8, SC12, SC13, PLO4, PLO5, PLO6, PLO7, PLO8, PLO9, PLO10)/ individual tasks on the analysis of</li> </ul>				
Scope and forms of o	ontrol 3 ECTS credits (90 hours): 12 hours of lectures tests); final control - differentiated credits.	· · · · · · · · · · · · · · · · · · ·				
Requirements of the teacher	timely performance of tasks, activity, team w	timely performance of tasks, activity, team work				
Enrollment conditions  after mastering the following components: Generated and animal trematodes. Veterinary acarology and animal acarology and animal acarology.		ry cestodology and cestodoses of animals.	Veterinary nematodology and animal			
	COMPLEMENTS THE STANDARD OF E	CATION AND THE EDUCATIONAL PRO	OGRAM			
GC2 GC 3 GC 9 GC 12 GC 12 SC 2	Ability to abstract thinking, analysis and synthesis Ability to apply knowledge in practical situations Anowledge and understanding of the subject area Arofession Ability to make informed decisions Ability to evaluate and ensure the quality of work the Ability to evaluate and ensure the quality of work the Ability to use tools, special devices, instruments, laborato Applications during professional activities Ability to follow the rules of labor protection, asepsis an Antiseptics during professional activities Ability to conduct clinical research for the purpose	learning outcomes  PLO 5 Establish a link between and the results of labora PLO 6 Develop quarantine and prevention, diagnosis etiologies PLO 7 Formulate conclusions of and means of keepin prevention of infectious as production and teo	during registration and examination of son the choice of effective methods of prevention of animal diseases the clinical manifestations of the disease tory examinations diseases of the disease tory examinations diseases of the diseases of			

PLO 8 Conduct the monitor the causes of the spread of diseases of

well as materials and veterinary products

various etiologies and biological pollution of livestock waste, as

formulate conclusions about the condition of animals or to

SC 6 Ability to perform collecting sampling, pack, fix and send

establish a diagnosis

samples of biological material for laboratory research
SC 7 Ability to organize and conduct laboratory and special
diagnostic tests and analyze their results
SC 8 Ability to plan, organize and implement measures for the
treatment of animals of different classes and species sicked
from non-communicable, infectious and invasive diseases
SC 11Ability to apply knowledge of biosafety, bioethics and
animal welfare in professional activities
SC 12Ability to develop and implement measures to protect the
population from zoonotic diseases common to animals and
humans
SC 13Ability to develop strategies for disease prevention of
various etiologies

specificity. Questions of

parasites

Lecture 6.

phylogenesis and evolution of

**Environmental pollution and** 

helminthological methods of

research of environmental objects

PLO 9 Develop measures to protect the population from diseases common to animals and humans

PLO 10 To offer and use expedient innovative methods and approaches of the decision of problem situations of a professional origin

effectiveness of

animals.

helminthological research in

intermediate host of certain

helminthiasis for infestation

Research on fish as an

by larvae of parasitic

STRUCTURE OF THE EDUCATIONAL COMPONENT					
Chapter 1. Interrelationships of animals, physiology and immunological factors in the parasite-host system					
Lecture 1.	Interrelationships of animals and the place of parasites in the system	Practical class (PC) 1	Biological bases of global parasitology. Types of interrelations of organisms in nature.		
	of the animal world	PC 2	Definition of parasitism and taxonomy of zooparasites. Features of morphological and biological adaptations of zooparasites	$\sim$	Modern methods of diagnosis, treatment and prevention of
Lecture 2. Physiology in the parasite-host system		PC 3	rates for selecting material for parasitological statics.		helminthes. Research on mollusks,
		PC 4	Modern hematological, immunological, genetic, coproscopic and acarological methods of laboratory intravital and postmortem diagnostics of parasitosis.	<b>-</b>	crustaceans and microphytes. Research on oribatid mites.
Lecture 3.	Immunological factors in the parasite-host system	PC 5	Morphological adaptations to the parasitic lifestyle of helminths and arthropods		
Chapter 2. Geographical view of the parasite-host system and environmental pollution by helminths.					
Lecture 4.	Host-parasite system from an ecological perspective	PC 6	Phylogenesis and evolution of parasites		Morphological features of eggs and larvae of animal
Lecture 5.	Geographical view of the parasite- host system and parasite	PC 7	Helminthological methods of studying environmental objects - Research of soil samples and scrapings from		helminths. Factors affecting the

playgrounds.

helminthic invasions

PC8

livestock facilities, cages, floors, enclosures, and

Helminthological methods of studying environmental

objects - Research of water samples from open water

bodies and biological objects - intermediate hosts of

	PC 9	Helminthological methods of studying environmental objects - Research on grass and hay samples. Research on samples of vegetables, berries, fruits and table greens		pathogens.	

#### **BASIC LITERATURE AND METHODOLOGICAL MATERIALS**

Methodical support

- 1. Domenico Otranto, Richard Wall. Veterinary parasitology. John Wiley & Sons Ltd, 5th edition 2024, 896 p.
- 2. Timothy M. Goater, Cameron P. Goater, Gerald W. Esch. Parasitism. The diversity and ecology of animal parasites. Second edition, Cambridge, University Press, 2001, 2014, 524 p.
- 3. Gregory v. Lamann. Veterinary parasitology. Nova biomedical Press, Inc. New York, 2010, 323 p.
- 4. G.M.Urquhart, J.Armour, J.L.Duncan at all. Veterinary parasitology. The faculty of veterinary medicine, the University of Glasgow, Scotland, 2nd edition 1996, 307 p.

- 1. Dwight D. Bowman Charles M. Hendrix David S. Lindsay Stephen C. Barr. Feline Clinical Parasitology. Iowa State University Press. 2002. 469 p.
- 2. Principles and Practices of Canine and Feline Clinical Parasitic Diseases. Edited by Tanmoy Rana. Department of Veterinary Clinical Complex West Bengal University of Animal & Fishery Sciences Kolkata, West Bengal, India. 2024 by John Wiley & Sons, 301 p.

EVALUATION SYSTEM					
SYSTEM		POINTS	ACTIVITY THAT IS ASSESSED		
Final assessment (different	100 ECTS points (standard)	up to 100	40 % - Final testing		
credit, exam)Final evaluation	100 EC15 points (standard)		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		
	100 points total	up to 30	30 % - answers to test questions		
Rating of section		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.