SYLLABUS OF THE EDUCATIONAL COMPONENT



PARASITIC DISEASES OF EXOTIC ANIMALS

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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The following are involved in the teaching of the discipline.

Purpose of disc	cipline	is to provide applicants with in-depth and generalized information, thorough knowledge regarding the organization of ecological and parasitic systems, acquiring practical knowledge in the diagnosis, treatment and prevention of parasitic diseases of exotic animals, and preparing graduate students for independent practical work.
Format		lectures, laboratory classes, independent work, individual tasks, team work, simulation project
Detailing of learesults and for control		 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 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 the regulatory framework ability to evaluate the quality of treatment and preventive measures for parasitic diseases (GC1, GC2, GC3, GC9, GC11, SC2, SC3, SC8, SC12, SC13, PLO6, PLO7, PLO8, PLO9, PLO10) / individual practical tasks the ability to diagnose disorders in the body of animals suffering from parasitic diseases (GC1, GC2, GC3, GC9, SC2, SC3, SC4, SC6, SC7, PLO4, PLO5, PLO7) / training, team project 2 implementation of environmental protection and biosecurity mechanisms for animal parasitic diseases (GC1, GC2, GC3, GC12, SC3, SC6, SC11, SC13, PLO4, PLO6, PLO9) / separate element of team project 1
Scope and form	ns of control	3 ECTS credits (90 hours): 18 hours of lectures, 18 hours of practical classes; 54 hours of independent work, control testing (2 tests); final control - differentiated credits.
Requirements teacher	of the	timely performance of tasks, activity, team work
Enrollment cor	nditions	after mastering the following components: Protozoa of ruminants, pigs, horses, carnivores, birds, which are rare. Trematodoses of ruminants, pigs, horses, carnivores, and birds, which are rare. Cestodoses of ruminants, pigs, horses, carnivores, birds, which are rare. Nematodes of ruminants, pigs, horses, carnivores, birds, which are rare. Acarosis of ruminants, pigs, horses, carnivores, birds, which are rare. Entomoses of various species of animals, which are rare.
	CON	IPLIANCE WITH THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM
Competences	GC2 Ability	to abstract thinking, analysis and synthesis to apply knowledge in practical situations edge and understanding of the subject area and ion Program learning of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal diseases

profession GC 9 Ability to make informed decisions GC 11 Ability to evaluate and ensure the quality of work that performing GC 12 The desire to preserve the environment SC 2 Ability to use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities SC 3 Ability to follow the rules of labor protection, asepsis and

- diseases
- PLO 5 Establish a link between the clinical manifestations of the disease and the results of laboratory examinations
- PLO 6 Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies
- PLO 7 Formulate conclusions on the effectiveness of selected methods and means of keeping, feeding and treatment of animals, prevention of infectious and non-communicable diseases, as well as production and technological processes

- antiseptics during professional activities

 SC 4 Ability to conduct clinical research for the purpose to formulate conclusions about the condition of animals or to establish a diagnosis

 SC 6 Ability to perform collecting compling, pack fix and conditions.
- SC 6 Ability to perform collecting sampling, pack, fix and send 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 11 Ability to apply knowledge of biosafety, bioethics and animal welfare in professional activities
- SC 12 Ability to develop and implement measures to protect the population from zoonotic diseases common to animals and humans
- SC 13 Ability to develop strategies for disease prevention of various etiologies

- in enterprises for keeping, breeding or operation of animals of different classes and species
- PLO 8 Conduct the monitor the causes of the spread of diseases of various etiologies and biological pollution of livestock waste, as well as materials and veterinary products
- PLO 9 Develop measures to protect the population from diseases common to animals and humans
- PLO 10To offer and use expedient innovative methods and approaches of the decision of problem situations of a professional origin

STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

Chapter 1. Module 1. ECOLOGICAL AND BIOLOGICAL BASIS OF PARASITISM. PROTOZOOSIS AND TREMATODOSES OF EXOTIC ANIMALS

Lecture 1.	Biological and ecological foundations of parasitism. Exotic and wild animals as a source and vectors of pathogens of parasitoids of other animals and zoonotic invasions. Biological pollution of the environment, biosafety and structural biodiversity of parasitic systems.	Practical class (PC) 1	Rules for selecting material for parasitological studies. Transportation and storage of parasitological material Rules for caring for animals affected by pathogens of invasive diseases. Modern hematological, immunological, genetic, coproscopic and acarological methods of laboratory intravital and postmortem diagnostics of parasitosis. Features of diagnosis, treatment and prevention	lf-study w	Ecological and biological features of protozoa, helminths, ticks and insects. Labor protection when performing parasitological research. Safety techniques when working with invasive material and animals affected by pathogens of invasive diseases. Basic rules for the selection, storage, labeling of invasive material. Helminthological methods for research of environmental
Lecture 2.3.	Transmissible protozoa: babesiosis, theileriosis, anaplasmosis, trypanosomiasis, beznoitiosis of representatives of the families Cervidae, Poliophoridae and		of the main protozoa: theileriosis, anaplasmosis, trypanosomiasis, beznoitiosis in representatives of the Cervidae, Polorhynchidae and Callosopodidae families. Cryptosporidiosis, neosporosis, giardiasis, intestinal trichomoniasis	0,	objects. Basic methods of laboratory intravital and postmortem diagnostics of trematodoses. Features of conducting therapeutic and preventive measures

	Callopoda. Intestinal protozoa: eimeriosis, cystoisosporosis, cryptosporidiosis, neosporosis, giardiasis, intestinal trichomoniasis in representatives of the families Weaveridae, Feline, Canine and Bearidae		of animals.		and the use of drugs for the main trematodose invasions in representatives of the families Weaver and Cat Features of differential diagnosis of imaginal cestodes and the use of drugs for their treatment in representatives of the families Weaver, Cat, Dog and Bear.
Lecture 4.	Trematodoses: eurytremosis, hastilesiosis and schistosomiasis in animals of the Cervidae, Poliognathidae and Callosognathidae families; opisthorchidosis, metorchosis, pseudoamphistomosis, metagonimosis, alariosis in representatives of the Weaver, Cat, Dog and Bear families.	PC 3	Features of diagnosis, treatment and prevention of trematodoses of ruminants. Opisthorchidosis, metorchosis, pseudomphistomosis, metagonimiasis, alariosis in representatives of the Vivaridae, Feline, Canine and Bear families.		
	Chapter 2. HELMINT	THOSES AND	O ARACHNO-ENTOMOSES OF EXOTIC ANIMALS OF EX	OTIC	ANIMALS
Lecture 5.	The main larval cestodes (cysticercosis, coenurosis, echinococcosis, alveococcosis) of representatives of the Cervidae, Polioceridae and Callopoda families and imaginal cestodes (taeniidosis, mesocestoidoses, dipylidiasis, diphyllobothriasis) of representatives of the Weaveridae, Feline, Canine and Bear families.	PC 4	Features of diagnosis and prevention of the main larval cestodes of animals. Diagnosis and differential diagnosis of imaginal cestodes (taeniidosis, mesocestoidosis) in representatives of the families Weaver, Cat, Dog and Bear.	dy work	Modern methods of diagnosis and differential diagnosis (helminth ovoscopy, helmintholarvoscopy, larval cultivation, helminthoscopy) of strongyloidiasis of the intestinal and respiratory tract of exotic animals. Immunobiological and molecular genetic
Lecture 6.7.	Main nematodoses (ascariasis, strongyloidiasis, trichiasis, filariasis in representatives of the families Weaveridae, Feline, Canine and Bearidae, representatives of the	PC 5	Features of the course, diagnosis, treatment and prevention of ascariasis and strongyloidiasis of the intestinal and respiratory tract of exotic animals.	Self-study work	methods of diagnosis of trichinosis and dirofilariasis. Modern mortal and vital methods of diagnosis of acarosis of exotic animals. Modern insect-acaricidal agents, features of their use in the treatment of

Features of the course, diagnosis, treatment and

trichinellosis, capillariasis) in exotic animals.

trichuriasis

(trichuriasis,

families Cervidae, Polyporidae and

trichostrongyliasis, protostrogiliasis,

Callopoda (neoascariasis,

ostertagiasis, cooperiasis,

toxocariasis, toxascariasis,

PC 6

prevention

acaroid and entomotic diseases of

exotic animals.

		hookworm, unciniasis, crenosomiasis,			
		trichuris, trichinosis, capillariasis,			
		onchocerciasis, parafilariasis,			
		stephanofilariasis, dipetalonemiasis)			
		and exotic animals.)			
Le	ecture	Acarosis and entomosis: parasitiform,	PC 7	Features of the course, diagnosis, treatment and	
8.	.9.	acariform and trombidiform mites;		prevention of filariasis (onchocerciasis,	
		(psoroptosis, sarcoptic mange,		parafilariasis, stephanofilariasis,	
		notoedrosis, otodectosis,		dipetalonemosis)	
		demodecosis) of exotic animals.	PC 8	Features of the course, modern diagnostics,	
		Cephenomyosis of deer,		differential diagnostics, treatment and	
		cephalopinosis of camels,		prevention of acarosis of exotic animals	
		pharyngomyosis of marals,	PC 9	Features of the course, diagnostics, treatment	
		lipoptenosis of deer, elk, roe deer,		and prevention of the main entomoses in exotic	
		siphunculiasis, siphonapterosis,		animals.	
		linognathosis, trichodectosis; flies			
		(calliphoridosis, sarcophagidosis,			
		glossinidosis)			

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

1. 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.
2. Gregory v. Lamann. Veterinary parasitology. Nova biomedical

- Press, Inc. New York, 2010, 323 p.
- 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.
- Dwight D. Bowman Charles M. Hendrix David S. Lindsay Stephen C. Barr. Feline Clinical Parasitology. Iowa State University Press. 2002. 469 c

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	EVALUATION S	YSTEM
SYSTEM	POINTS	ACTIVITY TO BE EVALUATED
Final assessment (different credit, exam) 100 points ECTS (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

	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 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.