SYLLABUS OF THE EDUCATIONAL COMPONENT



PARASITIC DISEASES OF FISH, BEES AND FUR ANIMALS

specialty	211 Veterinary medicine	obligation of discipline	selective
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.

		GENERAL INFORMATION ABOUT	THE EDUC	CATIONAL COMPONENT	
Purpose of discipline	e	is to acquiring theoretical and practical knowledge in the diagnosis, treatment and prevention of parasitic diseases of fish, bees and furbearing animals, acquiring practical skills in conducting health-improving activities in fish farms, apiaries and livestock farms, and mastering practical skills in diagnosing and combating parasitic diseases of fish, bees and fur-bearing animals in production conditions			
Format		lectures, laboratory classes, independent work, in	dividual task	s, team work, simulation project	
Detailing of learning results and forms of 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 forms of c	control	3 ECTS credits (90 hours): 12 hours of lectures, 18 chapters); final control - differentiated credits.	nours of pra	ctical classes; 60 hours of independent work, current control (2	
Requirements of the teacher	e	timely performance of tasks, activity, team work			
ruminants, pigs, horses, carnivores, and birds, wh		roa of ruminants, pigs, horses, carnivores, birds, which are rare. Trematodoses of ich are rare. Cestodoses of ruminants, pigs, horses, carnivores, birds, which are vores, birds, which are rare. Acarosis of ruminants, pigs, horses, carnivores, birds, nimals, which are rare.			
		COMPLEMENTS THE STANDARD OF EDUC	ATION AN	D THE EDUCATIONAL PROGRAM	
GC2 GC 3 GC 9 GC 11 GC 12 SC 2	Ability to Knowled profession Ability to Abi	o make informed decisions y to evaluate and ensure the quality of work that	Program learning outcomes	 PLO4 Collect anamnestic data during registration and examination of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal 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 in enterprises for keeping, breeding or operation of animals of different classes and 	

- 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 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 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

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

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. ECOLOGICAL AND BIOLOGICAL BASIS OF PARASITISM. PROTOZOOSIS AND TREMATODOSIS OF ORNAMENTAL AND EXOTIC BIRDS

Lecture 1.	Biological and ecological foundations of parasitism. Ornamental and exotic birds as a source and vectors of pathogens of parasitic diseases.	Practical class (PC)	Rules for taking material for parasitological studies. Modern hematological, immunological, genetic, coproscopic and acarological methods of laboratory intravital and postmortem diagnostics of parasitosis	¥	The concept of parasitic and eco-parasitic systems. Labor protection when performing parasitological studies. Safety techniques
	Biological pollution of the environment, structure and biodiversity of ecological- parasitic systems.	PC 2	Features of diagnostics, treatment and prevention of the main protozoa: eimeriosis, histomoniasis, trichomoniasis, malaria, borreliosis of birds.	y work	when working with invasive material, ornamental and exotic birds. Basic rules for the selection, storage, and labeling of
Lecture 2.	Protozoal diseases of ornamental and exotic birds (eimeriosis, histomoniasis, trichomoniasis, malaria, borreliosis)	PC 3	Features of diagnostics, treatment and prevention of trematodoses of birds: prostogonimoses, echinostomatoids, notocotylidosis.	elf-stud	invasive material. Methods of parasitological studies of environmental objects. Basic methods of laboratory intravital and
Lecture 3.	Trematodoses of birds: prostogonimoses, echinostomatoids, notocotylidosis			Se	postmortem diagnostics and differential diagnostics of trematodoses. Features of conducting therapeutic and preventive measures and the use of drugs for trematode infestations of birds.
Chapter 2 CESTODOSES AND NEMATODOSES OF ORNAMENTAL AND EXOTIC RIPDS ACAPOSES AND ENTOMOSES OF ORNAMENTAL AND EXOTIC RIPDS					

Chapter 2. CESTODOSES AND NEMATODOSES OF ORNAMENTAL AND EXOTIC BIRDS, ACAROSES AND ENTOMOSES OF ORNAMENTAL AND EXOTIC BIRDS

Lecture 4.	Cestodes of birds: hymenolipidosis, rayetinose, daveniosis, choanoteniosis, amoebotaeniosis.	PC 4	Features of diagnostics, differential diagnostics, treatment and prevention of the main cestodes of birds (hymenolipidosis, rayetinoses, daveniosis,			
Lecture 5. Main nematodoses (oxyuratosis, ascariasis, strongyloidiasis, trichuratiasis) and acanthocephaliasis (polymorphosis,			choanoteniosis, amoebotenose).			
		PC 5	Diagnosis and differential diagnostics, treatment and prevention of oxyuratosis, ascariasis of ornamental			

Modern methods of diagnosis and differential diagnosis of cestodes (rayetinosis, daveniosis) of birds.

Methods of intravital and postmortem diagnosis and differential diagnosis of

		PC 6	Diagnosis and differential diagnosis, treatment and prevention of strongyloidiasis and trichiasis in ornamental and exotic birds.
Lecture 6.	Acarosis (dermanissiosis, knemidocoptosis, epidermoptosis, syringophilosis) and entomoses (malophagoses (puchoids,	PC 7	Features of the course, diagnosis, treatment and prevention of acanthocephaliasis (polymorphosis, filiculosis)
	piriaids), siphonapterosm and cimicidoses)	PC 8	Features of diagnosis and differential diagnosis, treatment and prevention of acariasis: (dermanissiosis, knemidocoptosis, epidermoptosis, syringophilosis) in ornamental and exotic birds.
		PC 9	Diagnosis and differential diagnosis, treatment and prevention of the main entomoses: malophagosis, siphonapterosis and cimicidosis.
BASIC LITERATURE AND METHODOLOGICAL MATERIALS			

heterocosis and ascariasis of ornamental and exotic birds.

Methods of intravital and postmortem diagnosis and differential diagnosis of strongyloidiasis and trichiasis of ornamental and exotic birds.

Modern methods (mortal and vital) of diagnosis of acarosis of birds.

Modern means of treatment and prevention of acaroid and entomotic invasions of ornamental and exotic birds.

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and exotic birds.

filiculosis)

- 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.
- 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

Methodical support

EVALUATION SYSTEM

E VALUATION SISTEM					
SYSTEM			ACTIVITY THAT IS ASSESSED		
Final assessment (different	100 ECTS points (standard)	up to 100	40 % - Final testing		
credit, exam)Final evaluation			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		
0		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

