SYLLABUS OF THE EDUCATIONAL COMPONENT

DOMESTIC, DECORATIVE AND EXOTIC BIRDS, FEATURES OF ORIGIN AND USE

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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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Purpose of discipline	providing students with in-depth and generalized information, thorough theoretical knowledge on the peculiarities of the origin

	and use of the main species of domestic, ornamental and exotic birds, acquiring practical knowledge and skills in bird ethology; peculiarities of feeding, breeding, keeping and reproduction, peculiarities of egg incubation in the conditions of personal subsidiary farms, farms and hunting farms, ecological and zoological parks.
Format	lectures, laboratory classes, independent work, individual tasks, team work, simulation project
Detailing of learning results and forms of their 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 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 credits.
Requirements of the teacher	timely performance of tasks, activity, team work
Enrollment conditions	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.

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competences	GC1 Ability to abstract thinking, analysis and synthesis GC2 Ability to apply knowledge in practical situations GC 3 Knowledge and understanding of the subject area and 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	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

	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 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

Chapter 1. Biological features, evolutionary origin, economic use of domestic, ornamental and exotic birds

Lecture 1.	Poultry farming - domestic, ornamental and exotic birds - volume, directions and structure. Current state and development prospects. Evolutionary origin of poultry: main breeds and species of domestic, ornamental and exotic birds, breeding methods, economic and household use, list of products.	Practical class (PC) 1	Introduction to the course "Domestic, ornamental and exotic birds, features of origin and use". Safety briefing. Evolutionary origin, main breeds and species of birds, breeding methods, economic and domestic use, list of products.	Self-study work	The origin of birds and their evolution. Occupational safety. Safety techniques when working with different species of birds. Morpho-biological features of birds. The main breeds and species of domestic, ornamental and exotic birds.
		PC 2	Technologies and methods of keeping and raising poultry, herd composition. Veterinary and sanitary and zoohygienic requirements Feeding poultry.		
Lecture 2.	Biological features, anatomy and physiology of birds. The concept of exterior and interior. Features of the exterior and its assessment in different species of birds.	PC 3	Biological features and physiology of birds. Behavior, thermoregulation. Vision, hearing, excretory functions. Biological rhythms. Integuments and molting of birds.		Anatomical and morphological features of the structure of the genital organs of male and female birds Features of bird reproduction. The chemical composition of the formation and structure of eggs.
		PC 4	Anatomical and morphological features of birds (skeleton, musculature, systems and organs) Exterior and interior. Specific sexes and their		

			assessment.		
Lecture 3.	Features of reproduction and breeding of birds, formation and structure of the egg. Determination of biological quality and requirements for incubation eggs.	PC 5	Sexual organs of male and female birds. Fertilization and stages of egg development. Egg structure, chemical composition of the shell, egg white and yolk. Nutritional and incubation qualities of bird eggs of different species.		
Chapter 2. Features of reproduction, incubation of eggs of different bird species and diseases of embryos					
Lecture 4.	Incubation technologies. Features of incubation of eggs by a hen. Concept of incubators. Incubation regimes of eggs of different bird species and biological control.	PC 6	Determination of the biological value of hatching eggs. Deformations and anomalies of egg development (genetic, artificial) and those that arose during transportation. Incubation, collection of hatching eggs and their disinfection.	Self-study work	Features of the natural breeding of birds of different species (raping eggs by a hen). Biological foundations and technology of incubation of different species of birds. Requirements for incubation eggs. Methods of determining their biological value. Periods of embryonic development and features of the study of embryos - ovoscopy. Pathologies of embryonic development caused by violations of the incubation regime and vitamin and mineral deficiency
Lecture 5.	Research of bird embryos and hatched young. Incubation regime of eggs in incubators. Factors affecting incubation eggs and embryo development (violations during transportation, storage and incubation regime of eggs.).	PC 7	Incubation of eggs and hatching of chicks by a hen. Incubation regime of eggs in industrial incubators. Ovoscopy of embryos.		
		PC 8	Pathologies of embryonic development of eggs during violation of the incubation regime. Bacterial and viral diseases of embryos.		
Lecture 6.	Diseases of embryos of different bird species (vitamin and mineral deficiency, bacterial and viral infections)	PC 9	Hatching of chicks, assessment of their quality. Manipulation measures with day-old chicks. Transportation of day-old chicks. Safety and sanitary measures in incubators (disinfection of incubators, disposal of incubation waste)		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

literature

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.
3. 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.
4. J. Ian H. Allonby, Philippe B. Wilson. British Poultry Standards. Seventh Edition, 2019, Poultry Club of Great Britain, 516 pp

Methodical support

1. Broiler Breeder Production I. Leeson, S., II. Summers, J.D. 2009, Nottingham University Press, 339 pp.
2. In Ovo Techniques and Treatments in Poultry Eggs by Mahmoud Alagawany, Mayada Ragab Farag, 2022, Grupo Asis Biomedia, 88 pp.
3. Poultry Breeds: Chickens, Ducks, Geese, Turkeys – The Pocket Guide to 104 Essential Breeds by Carol Ekarius, 2016, Store Publishing, 199 pp.
4. Duck production and management. Jowel Debnath, 2023, CRC Press, 140 pp

EVALUATION SYSTEM

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.