EDUCATIONAL COMPONENT SYLLABUS

DISEASES OF THE DENTAL APPARATUS IN ANIMALS

specialty	211 – Veterinary medicine	the obligation of discipline	selective
educational program	Veterinary medicine	faculty	veterinary medicine
educational level	Master's degree	department	veterinary surgery and reproductive medicine

TEACHERS

Zaika Petro Oleksandrovych	Slyusarenko Dmytro Viktorovych
	
Academic degree - Candidate of Veterinary Sciences, specialty 16.00.04 - Veterinary Pharmacology and Toxicology Academic rank - associate professor Work experience -23 years 0676833954@btu.kharkov.ua +380676833954	Academic degree - Doctor of Veterinary Sciences, specialty 16.00.05-Veterinary Surgery Academic title - Professor Work experience - 28 years slusarenkodmitriy@gmail.com +380662155805

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Aim	Study of dental instruments, special devices, equipment for conducting research and treatment and preventive measures in animals with dental and jaw diseases. Study of anamnestic data of sick animals and analysis of the obtained material, general and special studies, interpretation of the obtained data taking into account the species, breed, age and individual

	characteristics of the animal organism.
Format	lectures, practical classes, independent work, individual assignments.
Detailing of learning outcomes and forms of their control	Ability to conduct research at the appropriate level, ability to use tools, special devices, instruments, conduct research at the appropriate level, make informed decisions, formulate conclusions regarding the effectiveness of selected methods and means of animal treatment, disease prevention (GC7, SC2, PLO7) / individual practical tasks Ability to apply knowledge in practical situations, make informed decisions, ability to comply with labor protection rules, asepsis and antiseptics during professional activities, know and competently use the terminology of veterinary medicine, use information from domestic and foreign sources to develop diagnostic, therapeutic and business strategies (GC2, GC9, SC3, PLO 1, PLO 2) / individual practical tasks Ability to conduct research at the appropriate level, ability to perform surgical procedures and operations, establish a connection between clinical manifestations of the disease and the results of laboratory tests, develop health measures, methods of therapy, prevention, diagnosis and treatment of diseases of the dentofacial apparatus of various animal species (GC7, SC4, SC9, PLO 5, PLO 6) / individual practical tasks Ability to evaluate and ensure the quality of work performed, the ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis, 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 (GC11, SC4, PLO 4) / individual test tasks
Scope and forms of control	3 ECTS credits (90 hours): 16 hours of lectures, 32 hours of laboratory and practical classes; 42 hours of independent studies, current control (2 chapters); forms of control – differentiated assessment.
Teacher requirements	timely completion of tasks, activity, teamwork
Enrollment conditions	according to the curriculum

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competencies	ability to apply knowledge in practical situations (SC2); ability to conduct research at the appropriate level (SC7); ability to make informed decisions (SC9); ability to evaluate and ensure the quality of work performed (SC11); ability to use tools, special devices, instruments, laboratory equipment and other technical means to perform the necessary manipulations during professional activities (SC2); ability to comply with the rules of labor protection, asepsis and antiseptics during professional activities (SC3);	Program learning outcomes	know and competently use the terminology of veterinary medicine in the field of dentistry (PLO1); use information from domestic and foreign sources to develop diagnostic, therapeutic and business strategies (PLO 2); 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 4); establish a connection between clinical manifestations of the disease and the results of laboratory tests (PLO 5); develop health measures, methods of therapy, prevention, diagnosis and treatment of diseases of the dentofacial apparatus of various animal species (PLO6); formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, disease prevention, as well as production and technological processes at enterprises for keeping, breeding or operating animals of various classes and species (PLO 7).

	ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis (SC4); ability to perform surgical procedures and operations (SC9).		

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. Anatomical and physiological features of the development of the dento-maxillary apparatus in different animal species. Diagnostic methods for diseases of the dento-maxillary apparatus in different animal species					
Lecture 1	Structure and function of the masticatory apparatus in animals..	LPL 1	Anatomy, physiology and histology of jaw teeth in animals.	Independent work	Development and formation of teeth during embryogenesis. Disorders of tooth change, their complications. Structure and technique of working with dental tips Staging of animals for radiological examination of diseases of the dentofacial apparatus.
Lecture 2	Types of teeth, their structure. Tooth formula in different species of animals	LPL 2	Determining the age of animals by the change and condition of teeth		
Lecture 3	Radiographic manifestations of odontogenic diseases in animals	LPL 3	Etiology of dental and jaw diseases in animals.		
Lecture 4	Structure and function of the chewing apparatus in animals.	LPL 4	Dental instruments, apparatus, devices and their purpose in dentistry		
		LPL 5	Methods and means of anesthetizing and anesthetizing animals for dental diseases.		
		LPL 6	Methods of researching the oral cavity organs		
		LPL 7	Dental examination methods.		
		LPL 8	Radiographic studies in animals with odontogenic diseases, methods of their implementation.		
Chapter 2. Diseases of the jaws, oral mucosa, periodontal and dental diseases					
Lecture 5	Classification of diseases of the dento-maxillary system in animals	LPL 9	Gingivitis.	Independent work	Techniques for extracting different types of teeth in different species of animals. Complications during and after tooth extraction. Features of the course of periodontitis in different species of animals Morphostructural changes in different forms of periodontitis in
Lecture 6	Dental diseases.	LPL 10	Periodontitis.		
Lecture 7	Periodontal diseases.	LPL 11	Periodontal disease		
Lecture 8	Irregular tooth wear patterns	LPL 12	Actinomycosis lesions of the jaws.		

	and bite anomalies.	LPL 13	Traumatic injuries of the jaws		different species of animals. Wedge-shaped defect of teeth. Dental fluorosis, diseases of enamel and dentin. Filling materials: their types, physicochemical, biological, medical properties, purpose.
		LPL 14	Periostitis, abscess, hyperostoses, jaw developmental anomalies		
		LPL 15	Dental caries, pulpitis		
		LPL 16	Dental fillings		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Basic literature	1. Orthopedics of dogs and cats. Part II. Surgical pathology of the skull and spine: a textbook / V.P. Sukhonos, M.O. Malyuk, M.A. Kulida, P.K., Tkachenko, V.O. Solonin, V.V. Doroshchuk. – K.: NUBiP of Ukraine, 2018. − 108 p. 2. Peculiarities of jaw fractures in animals / Sarbash D.V. et al. Current issues of veterinary medicine: realities and prospects: collection of abstracts of reports of the All-Ukrainian scientific-practical conference of scientists, teachers and postgraduates, Kharkiv, May 23, 2023. Kharkiv: DBTU, 2023. P. 175-176. 3. Sarbash D.V. Age-related clinical and radiological indicators of the state of the dentofacial apparatus in horses. Bulletin of the Bila Tserkva State Agrarian University: Collection of scientific works. − Bila Tserkva, 2008. − Issue 57. – P. 123-126. 4. Sarbash D.V., Synyagovska K.A., Kantemyr O.V. Radiographic forms of manifestation of odontogenic diseases in animals. Veterinary Medicine of Ukraine. 2014. No. 12 (226). P. 11-14. 5. Sarbash D.V., Slyusarenko D.V., Synyagovska K.A. Etiology, classification and clinical forms of manifestation of diseases of the dentofacial apparatus in animals. Veterinary Medicine of Ukraine. 2011. No. 9 (187). P. 40-43. 6. Sarbash D.V., Slyusarenko D.V., Synyagovska K.A. Disorders of tooth change and their complications in cattle. Bulletin of the Bila Tserkva State Agrarian University. 2010. No. 4 (76). Pp. 101-105.	Methodological support	1. Diseases of the dento-maxillary apparatus of animals: textbook / D.V. Sarbash, D.V. Slyusarenko, K.A. Sinyagovska, O.O. Tsymerman. – Kharkiv: Maidan, 2024 – 138 p.

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.