GENERAL AND SPECIAL SURGERY

SILABUS EDUCATIONAL COMPONENT

specialty	**211 - Veterinary medicine**	**compulsory nature of the discipline**	**mandatory**
educational program	**veterinary medicine**	**faculty**	**veterinary medicine**
educational level	**second (master's) degree**	**department**	**veterinary surgery and reproductive medicine**

TEACHERS

Sliusarenko
Dmytro Viktorovych

Higher education –
KZVI, 1995 – specialty "Veterinary Medicine", specialist,
IAUP, 2018 –
Specialty "Psychology", specialization
"Practical Psychology"

Kharkiv Humanitarian University "Ukrainian People's Academy (UPA)", 2021
OP "English Language and Translation"
Specialty "Philology"
Specialization
"Germanic Languages and Literatures, First – English"
Professional qualification – philologist, translator of English
Scientific degree – Doctor of Veterinary Sciences in specialty 16.00.05-Veterinary

Zaika
Petro Oleksandrovych

Scientific degree: Candidate of Veterinary Sciences, specialty 16.00.04 - Veterinary Pharmacology and Toxicology
Academic rank - associate professor
Work experience - 23 years

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Surgery
Academic title – Professor
Work experience – 29 years
Indicators of professional activity on the subject of the course: author of over 120 scientific papers, including 5 articles included in the scientometric databases Scopus and Web of Science, 6 educational and scientific and methodological manuals, textbooks, workshops, 1 monograph, 1 section of a collective monograph, 15 scientific and methodological recommendations, 3 patents for a useful model of Ukraine;
Experience in scientific work - 29 years;
Organizer and participant of scientific and scientific and practical conferences, seminars, workshops

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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Objective.	**students master the basic laws of species reactivity of animals, inflammation, surgical infection, principles of pathogenetic treatment of diseases in different parts of the animal body, learn to recognize different groups of diseases, properly treat animals and prevent diseases**
Format.	**lectures, laboratory and practical classes, independent work, individual assignments**
Detailing learning outcomes and forms of their control	• Ability to use tools, special devices, instruments, conduct research at the appropriate level, make informed decisions, evaluate and ensure the quality of work performed (GK7, GK11, SK2, PRN1, PRN7) / individual practical tasks • Ability to apply knowledge in practical situations, ability to perform obstetric-surgical procedures and operations, collect anamnestic data during animal examination, make decisions on the choice of effective methods of diagnosis, treatment and prevention of diseases (GK2, SK9, PRN2, PRN4,) / individual practical tasks • Ability to comply with the rules of labor protection, asepsis and antiseptics during professional activities, recommend for use health-improving measures, methods of therapy, diagnostics and treatment of diseases; organize and conduct laboratory and special diagnostic studies and analyze their results (SK3, SK7, PRN5, PRN6) / individual practical tasks • The ability to plan, organize and implement measures for the treatment of animals of different classes and species, sick with non-communicable diseases; The ability to make informed decisions, conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis. (GK9, SK4, SK8, PRN10) / individual test tasks
Scope and forms of control	**10 ECTS credits (300 hours): 42 hours of lectures, 116 hours of laboratory and practical classes; 112 hours of independent studies, current control (5 sections); forms of control - undifferentiated credit, coursework, exam.**
Teacher requirements	**timely completion of tasks, activity, teamwork**
Terms of enrollment	**according to the curriculum**

COMPLIANCE WITH THE EDUCATION STANDARD AND EDUCATIONAL PROGRAM

Competencies	**Competencies Ability to apply knowledge in practical situations (GC 2); Ability to conduct research at the appropriate level (GC 7); Ability to make informed decisions (GC 9); Ability to evaluate and ensure the quality of work performed (GC 11). Ability to use tools, special devices, instruments, laboratory equipment and other technical means to perform the necessary manipulations during professional activities (GC 2); Ability to comply with the rules of labor protection, asepsis and antiseptics during professional activities (GC 3); Ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis (GC 4); Ability to organize and conduct laboratory and special diagnostic studies and analyze their results (GC 7); Ability to plan, organize and implement measures for the treatment of animals of different classes and species, sick with non-communicable, infectious and invasive diseases (GC 8); Ability to perform obstetric-gynecological and surgical procedures and operations (SC 9).**	**Program learning outcomes**	**Know and competently use the terminology of veterinary medicine (PLO 1); Use information from domestic and foreign sources to develop diagnostic, treatment 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 the clinical manifestations of the disease and the results of laboratory tests (PLO 5); Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies (PLO 6); Formulate conclusions on the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of infectious and non-infectious diseases, as well as production and technological processes at enterprises for keeping, breeding or operating animals of various classes and species (PLO 7); Propose and use appropriate innovative methods and approaches to solving problem situations of professional origin (PLO 10).**

STRUCTURE OF THE EDUCATIONAL COMPONENT

Section 1. Traumatism of farm animals. Surgical infection. Pathogenetic therapy in veterinary surgery.

Lecture 1	Introductory lecture on general and special surgery	**Practical training class 1**	Features of work in a modern surgical clinic	**Independent work**	General and special methods of treatment of aseptic and purulent inflammation in different species of animals. Differential diagnosis of edema, infiltrates and proliferates. Exudates. Types of exudates. Classification and differential diagnosis of phlegmon and abscesses. Skin diseases. Surgical methods of their treatment. Pathogens of anaerobic infection. Modern aspects of sepsis treatment in animals.
Lecture 2	Surgical infection and its clinical manifestations	**PTC 2**	Animal body reactions to trauma		
		PTC 3	Clinical manifestations of surgical infection. Aerobic infection: boil, carbuncle, abscess, phlegmon, gangrene. Anaerobic infection: gas abscess, gas phlegmon, gas gangrene, malignant edema.		

Lecture 3	Blood transfusion in animals	**PTC 4**	General surgical infection – sepsis		Method of production and use of tissue preparations of animal and plant origin in the treatment of animals with surgical pathology. Specific features of the use of novocaine blockades in animals with surgical pathology.
		PTC 5	Pathogenetic therapy.		
		PTC 6	Physiotherapy in the treatment of animals with surgical diseases. Light and electrotherapy		
		PTC 7	Novocaine therapy.		
		PTC 8	Blood transfusion.		
		PTC 9	Types and methods of blood transfusion.		
Section 2. Open and closed mechanical tissue injuries. Necrosis, ulcers and fistulas. Burns and frostbite. Diseases of muscles, tendons and ligaments.					
Lecture 4	Open soft tissue injuries	**PTC 10**	Closed soft tissue injuries.	**Independent work**	Gunshot wound. Its features. Diagnosis, complications and treatment methods. Features of the course of the wound process in different species of domestic animals. Differential diagnosis of edema, hematomas, lymphoextravasations. Features of conducting diagnostics of closed injuries of various degrees and providing medical care to animals. Necrosis. Ulcers. Fistulas. Coagulative and colliquative necrosis, gangrene. Their etiopathogenesis, differential diagnosis and principles of treatment. Burns. Frostbite Basic principles and modern methods of treatment of aseptic myositis, tendovaginitis in animals. Contractures. Types of contractures. Etiopathogenesis, clinical signs, treatment.
Lecture 5	Closed soft tissue injuries and their clinical manifestations	**PTC 11**	Open soft tissue injuries, bleeding and ways to stop it.		
Lecture 6	Muscle diseases	**PTC 12**	Methods of examining a wounded animal.		
Lecture 7	Diseases of tendons and tendon sheaths, mucous bags	**PTC 13**	Treatment of wounded animals.		
		PTC 14	Muscle diseases.		
		PTC 15	Diseases of tendons and their sheaths. Tendon ruptures, types of tendon sutures. Diseases of mucous membranes and synovial bags		
Section 3. Diseases of bones and joints, neoplasms and hernias.					

Diseases of blood and lymphatic vessels and peripheral nerves.					
Lecture 8	Joint diseases	**PTC 16**	Inflammatory joint diseases	**Independent work**	Differential diagnosis of arthrosis, hemarthrosis, ankylosis, dystrophy and dislocation. Modern methods of treatment of joint dysplasia in small animals. Features of treatment of purulent inflammation of the joints. Diseases of peripheral nerves: paralysis, paresis. Diseases of blood and lymphatic vessels Complications of purulent arthritis and methods of their elimination. Complications arising from open fractures. Their diagnosis, clinical signs, treatment and prevention. Bone regeneration. Phases and conditions that contribute to the acceleration of bone healing. Differential diagnosis of periostitis, hyperostoses, exostoses. Clinical signs, treatment and prevention. Papillomatosis. Features of the course and treatment in different species of animals. Surgical methods of treatment of benign tumors in animals. Modern principles of reconstructive surgery.
Lecture 9	Bone diseases	**PTC 17**	Non-inflammatory joint diseases		
Lecture 10	Neoplasia	**PTC 18**	Classification of bone fractures.		
		PTC 19	Osteosynthesis, its types and indications.		
		PTC 20	Neoplasms.		
		PTC 21	Modern methods of treatment of animals with neoplasms		
Section 4. Diseases of the head, nape, neck, chest and withers. Diseases of the abdomen, lower back and pelvis, genitourinary organs. Diagnostics of diseases of the extremities.					
Lecture 11	Special surgery, its purpose and tasks. Diseases of the head	**PTC 22**	Dental pathology in animals. Dental diseases.	**Independent work**	Ear diseases. Otitis. Classification and distribution of dental diseases. Anomalies of tooth development and dental occlusion. Caries, gingivitis, periodontitis, periodontitis, osteomyelitis. X-ray diagnostics in veterinary dentistry. Drawing up a plan for receiving animals with diseases of the oral cavity. Justification of the prescribed diagnostic and treatment methods. Inflammation of the jugular vein, obstruction of the esophagus. Drawing up a plan for receiving animals with diseases
Lecture 12	Diseases of the oral cavity in animals	**PTC 23**	Dental pathology in animals. Periodontal diseases.		
Lecture 13	Diseases of the chest and withers	**PTC 24**	Diseases of the occiput and neck		
Lecture 14	Diseases of the abdomen	**PTC 25**	Diseases of the lumbar and pelvic regions.		
Lecture 15	Diagnosis of diseases of the extremities. General and special research methods	**PTC 26**	Diseases of the abdomen. Ileus.		
		PTC 27	Complications associated with castration in various species of animals.		
		PTC 28	Inflammatory diseases of the		

			genitourinary organs.		of the occiput and neck, diseases of the chest. Justification of the prescribed diagnostic and treatment methods. Diseases in the lumbar region: spondylitis, spondyloarthritis, fractures, dislocations. Diseases in the pelvic and perineal region. Pelvic bone fractures, paraproctitis, perineal hernia, rectal prolapse. Drawing up a plan for receiving animals with diseases of the lumbar region and pelvis. Justification of the prescribed diagnostic and treatment methods.
		PTC 29	Neoplasms of the genitourinary organs.		
		PTC 30	Diseases of the thoracic and pelvic extremities.		
Chapter 5. Veterinary orthopedics and ophthalmology					
Lecture 16	Definition of "veterinary orthopedics"	**PTC 31**	The structure of individual parts of the hooves in different species of animals.	**Independent work**	Innervation and blood supply of hooves and hooves in animals. Necrosis and ossification of soft cartilage in horses. Features of the use of conductive anesthesia in diseases of the hooves and hooves in animals. Features of hoof care in different methods of keeping cows. Differential diagnosis of keratitis using modern devices and equipment. Pathological state of the aqueous humor of the eye. Causes of occurrence, diagnosis and treatment. Diagnosis and treatment of mass eye lesions in cattle. Breed-specific features of the spread of eye diseases in animals. Diseases of the lacrimal apparatus. Inflammation of the lacrimal sac, lacrimal tubules and nasolacrimal duct. Their diagnosis and treatment
Lecture 17	Hoof diseases	**PTC 32**	Diagnosis of hoof diseases in animals.		
Lecture 18	Hoof deformities	**PTC 33**	Research of animals with diseased hooves and hooves in production conditions with different forms of animal husbandry		
Lecture 19	Understanding veterinary ophthalmology	**PTC 34**	Diseases of the hoof. Differential diagnosis. Wounds of the sole, pododermatitis, inflammation in the area of the corolla and pulp, Rusterholtz ulcer, laminitis, PPD, hoof rot, necrobacteriosis.		
Lecture 20	Diseases of the eyelids and conjunctiva	**PTC 35**	Diseases of the deep structures of the hoof. Diseases of the hoof joint, navicular bursa, subtrochleitis. Founder and sinker.		
Lecture 21	Diseases of the cornea	**PTC 36**	Horse shoeing. Types of horseshoes, their structure and manufacture. Purpose and characteristics.		
Lecture 22	Diseases of the refractive structures of the eye, diseases of the lens.	**PTC 37**	Methods of cleaning hooves in cattle during inflammatory processes and the use of pathogenetic treatment methods.		
		PTC 38	Morpho-physiological characteristics of the organ of vision		

		PTC 39	General and special methods of researching animals in eye diseases.		
		PTC 40	Methods and features of the use of drugs in the treatment of eye diseases in animals.		
		PTC 41	Diseases of the eyelids, conjunctiva and cornea		
		PTC 42	Diseases of the deep structures of the eye: vascular tract, retina, optic nerve.		
		PTC 43	Diseases of the refractive structures of the eye. Diseases of the vitreous body: hemorrhages, opacities and detachments.		
		PTC 44	Diseases of all parts of the eye and emergencies in veterinary ophthalmology.		
		PTC 45	Types of surgical interventions for the treatment of animals with eye diseases.		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Main literature

1. Borisevich V.B., Panko I.S., Teres M.O., Izdepsky V.Y. Special veterinary surgery. – K.: Publishing House of the Ukrainian State Academy of Veterinary Medicine, 1993. – 493 p.
2. Borisevich V.B. Veterinary orthopedics and ophthalmology / Borisevich V.B. − K.: Urozhay, 1994. − 136 p.
3. Veterinary orthopedics / [Borisevich V.B., Borisevich B.V., Petrenko O.F., Khomin N.M.]. − K., 2007. − 136 p.
4. General veterinary medical surgery / edited by prof. Borisevich V.B. – K.: Naukovyi svit, 2001.
5. General surgery: textbook / S. D. Khimich, M. D. Zheliba, I. D. Gerych and others; ed. S. D. Khimich, M. D. Zheliba. – 3rd ed., revised and supplemented – Kyiv: VSV "Medicine", 2018. – 608 p.
6. Kalashnik I.O. Shoeing horses and hoof diseases / Kalashnik I.O., Yurchenko L.I., Sarbash D.V. − Kharkov: RVP Original, 1998. – 216 p.
7. Orthopedics of even- and odd-toed animals / [Borysevich V.B., Borysechich B.V., Sukhonos V.P., Petrenko O.F., Khomin N.M. and others]. − K.: DIA, 2008. − 200 p.
8. Pantyo V. I. General surgery: a manual / V. I. Pantyo, V. M. Shimon, O. O. Boldizhar. – Uzhgorod: IVA, 2010. –464 p.
9. Panko I.S., Vlasenko V.M., Gamota A.A., Rublenko M.V., Izdepsky V.Y., Petrenko O.F., Ilnytsky M.G. Special veterinary surgery. – Bila Tserkva, BDAU, 2003. – 416 p.
10. Petrenko O.F. et al. "Veterinary Surgery". - K.: Higher Education, 2005. - 399.
11. Workshop: General and Special Surgery: / D. V. Sarbash, D. V. Slyusarenko, K. A. Synyagovska, O. V. Kantemyr, P. O. Zaika. Kharkiv, 2020. - 265 p.
12. Sarbash D.V. Orthopedics of horses / Sarbash D.V., Kantemyr O.V. Slyusarenko D.V. - [2nd ed.]. - Kharkiv, 2009. - 216 p.
13. Dictionary of Veterinary Surgery Terms. // Vlasenko V.M., Tikhonyuk L.A. - Bila Tserkva, 2008. - 360 p.
14. Special veterinary surgery / [Panko I.S., Borysevich V.B., Teres M.O. and others]. - K.: USGA, 1993. - 401 p.

Methodological support

1. Sliusarenko D.V., Synyagovska K.A., Sarbash D.V., Zaika P.O., Kochevenko A.S. Methodological recommendations for conducting laboratory and practical classes on the course of general surgery for students of the second level of higher education (master) of the 4th year on the basis of PZSO and 3rd year on the basis of a junior specialist of the faculty of veterinary medicine. Kh.: DBTU 2024- 112p.
2. Sliusarenko D.V., Synyagovska K.A., Sarbash D.V., Zaika P.O., Kochevenko A.S. Methodological recommendations for conducting laboratory and practical classes on the course of special surgery for students of the second level of higher education (master) of the 4th year on the basis of PZSO and 3rd year on the basis of a junior specialist of the faculty of veterinary medicine. Kh.: DBTU 2024 - 52p.
3. Sliusarenko D.V., Synyagovska K.A., Sarbash D.V., Zaika P.O., Kochevenko A.S. Methodological recommendations for writing a medical history from the course of general and special surgery for students of the second level of higher education (master's degree) of the 5th year on the basis of PZSO and 4th year on the basis of a junior specialist of the faculty of veterinary medicine. Kh.: DBTU 2024 - 10 p.
4. Workbook for laboratory classes on the discipline "General Surgery" / D.V. Sliusarenko, K.A. Synyagovska, D.V. Sarbash, A.S. Kochevenko – Kh.: DBTU 2024 - 124 p.
5. Workbook for laboratory classes on the discipline "Surgical diseases of productive animals" / D.V. Sliusarenko, K.A. Synyagovska, D.V. Sarbash, A.S. Kochevenko – H.: DBTU 2024 − 116 p.

EVALUATION SYSTEM

SYSTEM		Poins	ACTIVITIES BEING EVALUATED
Final assessment (differential test, exam)	**100 points ECTS (standard)**	**to 100**	**40% - final testing 60% - current student work during the semester**
Final assessment (nz)	**100 points ECTS (standart)**	**to 100**	**100 % - average grade for the sections**
Evaluating the section	**100 points**	**to 30**	**30 % - answers to test questions**
		to 30	**30 % - result of mastering the block of independent work**
		to 40	**40 % - student activity in the classroom (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 set forth in the Regulation "On Academic Integrity of Participants in the Educational Process of SBTU": to be disciplined, well-mannered, respect each other's dignity, show goodwill, honesty, and responsibility.