## SILABUS EDUCATIONAL COMPONENT



# **OPERATIVE SURGERY WITH THE BASICS OF TOPOGRAPHIC ANATOMY AND ANESTHESIOLOGY**

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
	TEACHE	ERS	
Zaika	Busel	Kochevenko	Denys Oleksandrovych
Petro Oleksandrovych	Yuriy Mykolayovych	Anatolii Serhiiovych	Kryvoruchenko
Scientific degree: Candidate of Veterinary Sciences, specialty 16.00.04 - Veterinary Pharmacology and Toxicology Academic rank - associate professor Work experience - 23 years	Scientific degree: Candidate of Veterinary Sciences, specialty 16.00.01 - diagnostics and therapy Academic title - assistant professor Work experience - 1.5 years	Position - assistant Work experience - 23 years	Academic degree: Doctor of Philosophy 21 - veterinary medicine, 211 - veterinary medicine Position - assistant Work experience - 1.5 years
Email : <u>peter.zaika34@gmail.com</u> Tel. +3805676833954	e-mail <u>yurabusel@gmail.com</u> Tel. +38067 605 0451	e-mail: 0506480868@btu.kharkov.ua Tel: 0506480868	Email : <u>denys.kryvoruchenko@gmail.com</u> Tel. +380952829299

	GE	NERAL INFORMATION ABOUT TH	E EDUCATIO	ONAL COMPONENT		
Objective.         formation of the rules of correct surgery,			anesthesia and free orientation in the operational field			
Format. lectures, laboratory and practical classes,			independent w	ork, individual assignments		
Detailing learning forms of their co	-	<ul> <li>Ability to use tools, special devices, instruments, research at the appropriate level, make informed decisions, evaluate and ensure the quality of work performed (GC2, GC 7, GC11, SC2, PLO1) / individual practical tasks</li> <li>Ability to apply knowledge in practical situations, to understand and find out the peculiarities of the structure and functioning of the animal body, the ability to carry out obstetric and surgical measures and operations (GC2, GC 9, SC9, SC16) / individual practical tasks</li> <li>Ability to comply with the rules of labor protection, asepsis and antisepsis during professional activities (SC3) / individual practical tasks</li> <li>Ability to conduct clinical research to formulate conclusions about the condition of animals or to establish a diagnosis (GC2, SC4) / individual test tasks</li> </ul>				
Scope and forms	of control	8 ECTS credits (240 hours): 30 hours of lectures, 60 hours of laboratory and practical classes; 120 hours of independent work, current control; final control - differentiated test, exam.				
Teacher requirements		timely completion of tasks, activity, teamwork				
Terms of enrollment		according to the curriculum				
	COMPLIA	NCE WITH THE EDUCATION STAN	DARD AND EDUCATIONAL PROGRAM			
Competencies	GC 7 Ability to condu GC 9 Ability to make GC 11 Ability to evalu SC 2 Ability to use t equipment and othe manipulations in the SC 3 Ability to comply antisepsis during pro SC 4 Ability to condu about the condition of SC 9 Ability to perfe procedures and oper SC16 Ability to prote	aate and ensure the quality of work performed; ools, special devices, instruments, laboratory or technical means to carry out the necessary course of professional activity; with the rules of labor protection, asepsis and fessional activities; uct clinical research to formulate conclusions of animals or to establish a diagnosis; orm obstetric and gynecological and surgical	Program learning outcomes	PLO 1 Know and correctly use the terminology of veterinary medicine		

## STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. Prevention of surgical infection. Injections, infusions and blood transfusions					
Lecture 1	Introductory lecture on operative surgery with the basics of topographic anatomy and anesthesia	Practical training class 1	Introductory lesson		Methods of fixing large and small animals. Methods of fixation of zoo animals and birds. Medication preparation of animals for fixation.
Lecture 2	Prevention of surgical infection	РТС	Fixation of agricultural animals		Means and devices used for capturing wild and domestic animals. The main elements of safety precautions when handling animals. Features of the defense response in
		2,3			different species of animals. Modern means of asepsis and
Lecture 3,	Injections, infusions and bloodletting	PTC 4,5	Prevention of surgical infection		antiseptics. Modern methods of sterilization of instruments, suture
Lecture 4- 6	Anesthesiology	PTC 6	Injections and infusions		material, and medicines in the production environment.
Lecture 7	Narcosis	PTC 7,8	Local anesthesia. Epidural anesthesia		Modern methods of surgical hand antisepsis. Organization of surgical work in medical institutions and on livestock
Lecture 8	Anesthesia	PTC 9	Anesthesia of agricultural animals. Premedication. Anesthesia of agricultural animals	ork	farms. Improving the technique of preparing the surgical field and the surgeon's hands in various ways before performing a surgical operation. Improvement of the
Lecture 9	Desmurgia Elements of surgical operations	PTC 10	Elements of surgical operations	ent wo	technique of performing intradermal, subcutaneous, intramuscular, intravenous and other injections on living
Lecture 10	Operations on the head. Areas of skin inertia			Independent work	objects. Features of fixation and anesthesia of zoo animals. Contraindications and complications of anesthesia. Features of animal resuscitation. Anesthesia of different types of farm animals. Modern narcotic drugs. Modern local anesthetics. Their characteristics, doses, methods of use. Types of suture material. Their characteristics. Methods of use. Elements of plastic surgery. The concept of plastic surgery. Their types and characteristics. Modern materials used for the manufacture of pins, plates, orthopedic wires, etc. in the performance of osteosynthesis. Modern suture materials used for tendon and nerve injuries and their characteristics. Tail exarticulation in different species of animals. Modern tools used in this operation. The technique of the operation. Development and improvement of the technique of tying surgical, marine and classical knots. Voluntary and involuntary dermatoplasty. Their purpose. Types and methods of performance.

## Chapter 2. Special part of operative surgery

Lecture 11	Surgeries in the ventral part of the	РТС	Desmurgia	Different methods of anesthesia in small and large animals
	neck.	11,12		during operations in the head area. Their characteristics.
Lecture 12	Operations in the chast area	РТС	Elements of surgical operations	Practice the technique of blockades in the head on live
	Operations in the chest area	13,14		objects. Anatomical features of the structure in the ventral

Lecture 13	Operations in the abdomen	РТС 15,16	Surgery on the head		part of the neck in different species of animals. Features of esophagotomy in large animals. The modern concept of
Lecture 14	Operations on the genitourinary organs	PTC 17,18	Surgery on the head		bandages, dressings and their application. Development of decortication techniques in young cattle. Modern types of
Lecture 15	Operations on the penis. Operations in the male perineum area	PTC 19,20	Operations in the neck area		dressings used for bone fractures in animals. A modern view of the use of adhesive bandages in the workplace.
		PTC 21,22	Operations in the chest area	work	Technique of performing operations on the vessels in the veins of the tracheal region of the neck in large and small
		PTC 23,24	Operations in the abdomen	Ident	animals. Principles of intestinal suturing. Types of anastomoses.
		PTC 25	Operations on the genitourinary organs	Der	
		PTC 26-	Operations on the genitourinary organs.	depe	
	29	Castration of females (cows and heifers, pigs, bitches, cats). Operations in the male perineum area.			
		РТС 30	Surgeries on the thoracic and pelvic extremities		

#### BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Methodological support

1. Magda I.I. Operative surgery with the basics of topographic anatomy and anesthesiology. K.: Higher school, 1995. 235 c.

Main literature

2. Magda I.I. Workshop on operative surgery. K.: Higher school, 1993. 235c.

3. Vlasenko VM Dictionary of veterinary surgery terms / VM Vlasenko, LA Tikhoniuk. Bila Tserkva: Bila Tserkva State Agrarian University, 2008. 357 c.

4. Vlasenko V.M. Operative surgery, anesthesiology and topographic anatomy. Special part. Bila Tserkva: 2006. 544 c.

5. Vlasenko V.M. Operative surgery, anesthesiology and topographic anatomy. - General part. Bila Tserkva. 2006. 531 c

- 1. Materials of the discipline "Operative surgery with the basics of topographic anatomy and anesthesiology" for applicants for the second (master's) level of higher education in the specialty 211 Veterinary Medicine of full-time education in the system of educational web environment. URL: <a href="http://moodle.btu.kharkiv.ua/course/view.php?id=439">http://moodle.btu.kharkiv.ua/course/view.php?id=439</a>
- 2. Sarbash DV, Slyusarenko DV, Sinyagovska KA, Zaika PA Methodical recommendations for conducting laboratory and practical classes in the course of general surgery for teachers and students of the 3rd year of the Faculty of Veterinary Medicine. KHDZVA 2018. 46 c.
- 3. Sarbash DV, Slyusarenko DV, Sinyagovska KA, Zaika PA Methodical recommendations for conducting laboratory and practical classes in the course of special surgery for teachers and students of 3,4 courses of the Faculty of Veterinary Medicine. KHDZVA 2018. 46 c.
- 4. Sarbash D.V., Slyusarenko D.V. Sinyagovska K.A., Zaika P.O. Methodical recommendations for clinical practice for 4th year students of the Faculty of Veterinary Medicine, specialty 6.110101 "Veterinary Medicine" Kh. KHDZVA. 2018. 16 c.

# Interstyleidechuniv.edu.ua/wp-content/uploads/2024/01/norm-b-pol-org-op.pdf) SYSTEM BALLS ACTIVITIES BEING EVALUATED Final evaluation 100 ECTS points (standard) up to 50 50% of the average grade for the chapter up to 50 Interstee of the chapter Interstee of the chapter

**EVALUATION SYSTEM** 

Rating of section	100 points total	up to 50	answers to test questions		
		up to 20	oral answers at laboratory and practical classes		
		up to 30	result of mastering the block of independent work		

#### 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 BSTU": to be disciplined, well-mannered, respect each other's dignity, show goodwill, honesty, and responsibility.