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Дата подписания: 21.05.2025 12:31:06 PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA **RUDN** University

Agrarian and Technological Institute

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Operative Surgery with Topographic Anatomy

course title

Recommended by the Didactic Council for the Education Field of:

36.05.01 Veterinary

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Veterinary

higher education programme profile/specialisation title

1. COURSE GOAL

The goal of the course "Operative surgery with topographic anatomy" is to give future veterinarians theoretical knowledge, practical skills and skills in the technology of organizing and conducting surgical operations; theoretical knowledge, practical skills in choosing the optimal methods of surgical intervention and ways to prevent complications.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course "**Operative surgery with topographic anatomy**" is aimed at creating the following competencies (parts of competencies) for students:

Table 2.1. List of competences withat students acquire through the course study

Competence	Competence descriptor	Competence formation indicators		
code		(within this course)		
	Able to determine the	GPC-1.4 Possesses skills in sampling		
	biological status and normative	biological fluids and tissues for research,		
GPC-1	clinical parameters of the	conducting laboratory tests, and		
	organs and systems of animal	interpreting research results.		
	organisms. Ability to use methods of	PC-9.1 Selects the necessary method of		
	operative surgery in the	•		
	prevention, diagnosis and			
	treatment of animal diseases.	PC-9.2 Plans preoperative		
	treatment of animal diseases.	preparation, the course of the surgical		
		procedure, postoperative care, and		
		prevention of complications.		
		PC-9.3 Able to independently perform		
PC-9		basic preventive, diagnostic, and		
		therapeutic surgical procedures		
		(including punctures, soft tissue		
		necroectomy, tail amputation, castration		
		of males and females, dehorning,		
		diagnostic laparotomy, etc.).		
		PC-9.4 Controls the outcome of the		
		surgical intervention.		

3.COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the <u>core/variable/elective*</u> component of (B1) block of the higher educational programme curriculum.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

^{* -} Underline whatever applicable.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GPC-1	Able to determine the biological status and normative clinical parameters of the organs and systems of animal organisms.	Сlinical Diagnostics / Клиническая диагностика	Laboratory Diagnostics with Elements of Artificial Intelligence Technology / Лабораторная диагностика с элементами технологии искусственного интеллекта Veterinary Assistant Skills / Навыки ассистента ветеринарного врача Ваѕе сотропент / Базовая компонента Еducational Practice / Учебная практика Variable component / Вариативная компонента Сlinical Industrial Practice / Клиническая производственная практика Сlinical Internship Industrial Research Practice / Производственно-исследовательская практика

		Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена
		Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена
		Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной
	Ability to use methods of operative surgery in the prevention, diagnosis and treatment	работы Veterinary Assistant Skills / Навыки ассистента ветеринарного врача
	of animal diseases.	Anesthesiology, Resuscitation And Intensive Therapy / Анестезиология, реанимация и интенсивная терапия
PC-9		Variable component / Вариативная компонента
		Clinical Industrial Practice / Клиническая производственная практика
		Clinical Internship
		Industrial Research Practice /

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	Производственно-
	исследовательская
	практика
	Preparation for Passing
	and Passing the State
	Ехат / Подготовка к
	сдаче и сдача
	государственного
	экзамена
	Preparing and Passing
	the State Exam /
	Подготовка и сдача
	государственного
	экзамена
	SKSUMONU
	Design, Preparation for
	Defense Procedure and
	Defense of the
	Graduation Thesis /
	Оформление,
	подготовка к
	процедуре защиты и
	защита выпускной
	квалификационной
	работы

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Operative surgery with topographic anatomy" is $4\ \mathrm{credits}$.

Table 4.1. Types of academic activities during the periods of higher education programme mastering (<u>full-time training</u>)*

Type of academic activities		Total academic	Semesters/training modules			
		hours	6	-	-	-
Contact academic hours		68	68	-	-	-
including						
Lectures		17	17	-	-	-
Lab work		51	51	_	-	1
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		58	58	-	-	-
Evaluation and assessment (exam/pass/fail		18	18	_	-	1
grading)						
Course workload	academic hours	144	144	-	-	-

	credits	4	4	-	-	-
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5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. General concepts and methods of operative surgery.	Topic 1.1 General concepts of operative surgery, (surgical clinic, surgical manipulations, surgical operation).	Lectures, Lab work.
	Topic 1.2 Fixation of animals, anesthesia, local anesthesia.	Lectures, Lab work.
	Topic 1.3 Surgical instruments.	Lectures, Lab work.
	Topic 1.4 Methods of asepsis and antiseptics in operative surgery.	Lectures, Lab work.
	Topic 1.5. Separation of tissues. Bleeding, types, methods of stopping.	Lectures, Lab work.
	Topic 1.6. General principles of surgical suture application.	Lectures, Lab work.
	Topic 1.7. Desmurgy.	Lectures, Lab work.
Module 2. Methods and features of surgical	Topic 2.1. Operational access.	Lectures, Lab work.
operations.	Topic 2.2. Operational techniques, types, methods, features.	Lectures, Lab work.
	Topic 2.3. Features of oncological operations. Principles of ablasty.	Lectures, Lab work.
	Topic 2.4. Connection of soft tissues. The final stage of the operation.	Lectures, Lab work.
	Topic 2.5. The connection of dense fabrics. Osteosynthesis.	Lectures, Lab work.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	An auditorium for conducting lecture- type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	surgical instruments
LaboratoryLab workLaboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	surgical instruments
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to an electronic information and educational environment.	-

7. RESOURCES RECOMMENDED FOR COURSE STUDIES

Main readings:

- 1. Shakurov M.S. Fundamentals of general veterinary surgery [Electronic resource]: Textbook / M.S. Shakurov. 2nd ed., erased. St. Petersburg: Publishing House "Lan", 2016. 252 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465067&idb=0
- 2. 2. Petrakov K.A. Salenko P.T. Paninsky S.M. Operative surgery with animal anatomy. -2nd ed. Moscow: KolosS, 2013. 453 p.
- 3. Semenov B. S., Videnin V. N., Nechaev A. Yu., Kuznetsova T. S., Guseva V. A. Operative surgery in animals 2021.-704 p. https://e.lanbook.com/book/162365 Additional Readings:
- Videnin V.N. Surgical treatment of abdominal wall defects in animals [Electronic resource]: Textbook / V.N. Videnin, B.S. Semenov. St. Petersburg: Publishing house "Lan", 2015. 224 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465109&idb=0
- 2. Local anesthesia and methods of novocaine therapy of animals [Electronic resource]: Educational and methodical manual / A.F. Sapozhnikov [et al.]. St. Petersburg: Publishing House "Lan", 2011. 176 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465268&id=0

3. Semenov B.S. Practicum on operative surgery with the basics of topographic anatomy of domestic animals [Electronic resource] / B.S. Semenov, V.A. Ermolaev, S.V. Timofeev. - M.: KolosS, 2013. - 263 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=475874&idb=0

Internet sources

- 1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:
- RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
 - EL "University Library Online" http://www.biblioclub.ru
 - EL "Yurayt" http://www.biblio-online.ru
 - EL "Student Consultant" www.studentlibrary.ru
 - EL "Lan" http://e.lanbook.com/
 - EL "Trinity Bridge"

2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/
 - Yandex search engine https://www.yandex.ru/
 - Google search engine https://www.google.ru/
 - Scopus abstract database http://www.elsevierscience.ru/products/scopus/

Training toolkit for self-studies to master the course *:

- 1. The set of lectures on the course "Operative surgery with topographic anatomy".
- 2. Laboratory workshop on the course "Operative surgery with topographic anatomy".
- * The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (competences in part) upon the course study completion are specified in the Appendix to the course syllabus.

DEVELOPERS:

^{*} The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

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