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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University**

Agrarian and Technological Institute

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

COURSE SYLLABUS

General Surgery

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 "**General Surgery**" is the formation of a wide-profile specialist, the ability to perform not only complex surgical interventions, but also the ability to organize and conduct preventive and therapeutic measures.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course "**General Surgery**" is aimed at creating the following competencies (parts of competencies) for students:

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-3	Ability to plan activities for the differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about symptoms/syndromes of disease in the patient, forms a set of preliminary diagnoses for further confirmation or exclusion.
		PC-3.2 Uses an existing or develops a unique algorithm for differential diagnosis considering the capabilities of the medical institution.
		PC-3.3 Uses diagnostic data to establish the final diagnosis (diagnoses) and to adjust diagnoses if necessary.
PC-6	Ability to establish a diagnosis and predict the course and spread of a disease based on clinical, laboratory, instrumental, and additional diagnostic methods.	PC-6.1 Possesses knowledge of the manifestations of infectious, parasitic, internal non-contagious, surgical, gynecological, and other diseases in different animal species.
		PC-6.2 Possesses methods for establishing a comprehensive diagnosis based on anamnesis, clinical, laboratory, and instrumental research results.
		PC-6.3 Possesses methods for predicting the course and treatment outcomes of major diseases based on a set of accompanying diagnoses and complicating factors.
		PC-6.4 Possesses methods for assessing the risk of the spread of identified diseases.
PC-13	Ability to perform post-mortem diagnostic examinations of animals to identify pathological	PC-13.1 Able to conduct a general inspection of animal carcasses before autopsy.

	processes, diseases, and cause of death.	PC-13.2 Able to perform animal autopsy using specialized instruments while adhering to safety requirements.
		PC-13.3 Able to determine the cause of death and make a pathological-anatomical diagnosis in accordance with accepted criteria, classifications, and lists of animal diseases.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**General Surgery**" refers to the core part of block B1 of the Educational Program of Higher Education.

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.

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*
PC-3	Ability to plan activities for the differential diagnosis of diseases in a patient.	Obstetrics, Gynecology and Andrology / Акушерство, гинекология и андрология Internal Diseases / Внутренние незаразные болезни	Private Surgery / Частная ветеринарная хирургия Parasitology and Invasive Diseases / Паразитология и инвазионные болезни Dermatology / Дерматология Cardiology / Кардиология Endocrinology / Эндокринология Oncology / Онкология Neurology / Неврология Nephrology / Нефрология Anesthesiology, Resuscitation And Intensive Therapy /

			<p>Анестезиология, реанимация и интенсивная терапия</p> <p>Reconstructive Surgery / Реконструктивно-восстановительная хирургия</p> <p>Veterinary Ophthalmology / Ветеринарная офтальмология</p> <p>Behavioral Medicine / Поведенческая медицина</p> <p>Animal Dentistry / Стоматология животных</p> <p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная практика</p> <p>Clinical Internship</p> <p>Industrial Research Practice / Производственно-исследовательская практика</p> <p>Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена</p> <p>Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and</p>
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			Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы
PC-6	Ability to establish a diagnosis and predict the course and spread of a disease based on clinical, laboratory, instrumental, and additional diagnostic methods.	Pathological Anatomy / Патологическая анатомия Obstetrics, Gynecology and Andrology / Акушерство, гинекология и андрология Internal Diseases / Внутренние незаразные болезни	Private Surgery / Частная ветеринарная хирургия Parasitology and Invasive Diseases / Паразитология и инвазионные болезни Epidemiology and Infectious Diseases / Эпизоотология и инфекционные болезни Variable component / Вариативная компонента Clinical Industrial Practice / Клиническая производственная практика Clinical 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 работы
PC-13	Ability to perform post-mortem diagnostic examinations of animals to identify pathological processes, diseases, and cause of death.		<p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная практика</p> <p>Clinical Internship</p> <p>Industrial Research Practice / Производственно-исследовательская практика</p> <p>Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена</p> <p>Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "**General Surgery**" is 4 credits.

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

Type of academic activities		Total academic hours	Semesters/training modules			
			7	-	-	-
Contact academic hours		68	68	-	-	-
including						
Lectures		17	17	-	-	-
Lab work		51	51	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		56	56	-	-	-
Evaluation and assessment (exam/pass/fail grading)		20	20	-	-	-
Course workload	academic hours	144	144	-	-	-
	credits	4	4	-	-	-

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. Inflammation. Surgical infection.	Topic 1.1 Trauma. Traumatic illness	Lectures, Lab work.
	Topic 1.2 Diagnosis of inflammatory processes.	Lectures, Lab work.
	Topic 1.3 Features of the course of inflammatory processes in the skin, subcutaneous fat, muscles, tendon-ligamentous apparatus, body cavities.	Lectures, Lab work.
	Topic 1.4 Surgical infection. Local manifestations.	Lectures, Lab work.
	Topic 1.5 Surgical infection. Systemic manifestations.	Lectures, Lab work.
	Topic 1.6 Treatment of inflammatory processes by methods of etiotropic and pathogenetic therapy.	Lectures, Lab work.
Module 2. Closed mechanical damages.	Topic 2.1 Classification of closed mechanical damages.	Lectures, Lab work.
	Topic 2.2 Methods of diagnosis of ZMP.	Lectures, Lab work.
	Topic 2.3 Differential diagnosis of hematomas, extravasates, abscesses.	Lectures, Lab work.
	Topic 2.4 Bone injuries. Injuries of the tendon-ligamentous apparatus.	Lectures, Lab work.
	Topic 2.5 Injuries of soft tissues and internal	Lectures, Lab

	organs.	work.
Module 3. Biology of the wound process.	Topic 3.1 Types of wounds, features of diagnosis and treatment of certain types of wounds.	Lectures, Lab work.
	Topic 3.2 Drains, types, methods of setting drains.	Lectures, Lab work.
	Topic 3.3 Granulation tissue.	Lectures, Lab work.
	Topic 3.4 Features of the wound process in different animal species.	Lectures, Lab work.
	Topic 3.5 Features of wound treatment and complications.	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
Laboratory	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. General veterinary surgery: textbook / S.V. Pozyabin, Yu.I. Filippov, N.A. Kozlov [et al.]; under the general editorship of S.V. Pozyabin. - Moscow: Kolos-s, 2019. – 762 p.
2. Vasiliev V.K. General surgery: textbook / V.K. Vasiliev, A.P. Popov, A.D. Tsybikzhapov. - St. Petersburg : Publishing house "Lan", 2014. - 272 p.

Additional Readings:

1. Surgical methods of injury prevention: an educational and methodological manual on the courses "General and private surgery", "Veterinary surgery" / Yu.A. Vatnikov, V.I. Parshina, E.V. Kulikov [et al.]. - Electronic text data. - Moscow: RUDN, 2018. - 26 p.
2. Closed mechanical injuries in animals: an educational and methodological manual on the courses "General and private surgery", "Veterinary surgery" / Yu.A. Vatnikov, V.I. Parshina, E.V. Kulikov [et al.]. - Electronic text data. - Moscow: RUDN, 2018. - 23 p.
3. Basic methods of treatment of open mechanical injuries: an educational and methodical manual on the courses "General and private surgery", "Veterinary surgery" / Yu.A. Vatnikov, V.I. Parshina, E.V. Kulikov [et al.]. - Electronic text data. - Moscow: RUDN, 2018. - 21 p.

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/](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 "**General Surgery**".
2. Laboratory workshop on the course "**General Surgery**".

* 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.

* 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).

DEVELOPER:

Senior lecturer of the Department of Veterinary
Medicine

Position, Basic curriculum

Signature

Troshina N.I.

Full name.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Vatnikov Yu.A.

Full name.

HEAD OF

HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

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