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**Federal State Autonomous Educational Institution of Higher Education  
Peoples' Friendship University of Russia named after Patrice Lumumba  
RUDN University**

**Agrarian and Technological Institute**

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

**COURSE SYLLABUS**

**Reconstructive Surgery**

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course title

**Recommended by the Didactic Council for the Education Field of:**

**36.05.01 Veterinary**

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field of studies / speciality code and title

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

**Veterinary**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course «**Reconstructive Surgery**» is to provide students with theoretical knowledge, practical skills and skills in the diagnosis and surgical treatment of complex defects requiring reconstruction.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Reconstructive Surgery**» is aimed at the development of the following competences /competences in part:

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

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
PC-3	Ability to plan differential diagnostic procedures for diseases in a patient.	PC-3.1. Systematizes information on symptoms/syndromes of the disease and forms a list of preliminary diagnoses for confirmation or exclusion.
		PC-3.2. Uses ready-made or develops a specific differential diagnostic algorithm considering the capabilities of the medical institution.
		PC-3.3. Uses diagnostic results to establish a final diagnosis and adjust previously established diagnoses if necessary.
PC-5	Ability and readiness to plan and perform necessary instrumental diagnostic procedures.	PC-5.2. Selects an appropriate and sufficient set of instrumental diagnostic methods for solving professional tasks.
		PC-5.3. Performs instrumental diagnostics of animal diseases.
		PC-5.4. Interprets diagnostic results and applies them to professional tasks.
PC-9	Ability to apply surgical methods in the prevention, diagnosis and treatment of animal diseases.	PC-9.1. Selects the necessary surgical method, including anesthesia methods if required.

## 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective\* 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.

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*	Subsequent courses/modules*
PC-3	Ability to plan differential diagnostic procedures for diseases in a patient.	Obstetrics, Gynecology and Andrology Internal Diseases General Surgery Private Surgery Parasitology and Invasive Diseases Dermatology Cardiology Endocrinology Oncology Neurology Nephrology Anesthesiology, Resuscitation And Intensive Therapy	Veterinary Ophthalmology Behavioral Medicine Animal Dentistry
PC-5	Ability and readiness to plan and perform necessary instrumental diagnostic procedures.	Dermatology Cardiology Endocrinology Oncology Neurology Nephrology	Veterinary Ophthalmology
PC-9	Ability to apply surgical methods in the prevention, diagnosis and treatment of animal diseases.	-	Veterinary Ophthalmology Animal Dentistry Clinical Industrial Practice

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 2 credits (72 academic hours).

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			
		9	-	-	-
<i>Contact academic hours</i>	51	51	-	-	-
including:					
Lectures (LC)	-	-	-	-	-
Lab work (LW)	-	-	-	-	-
Seminars (workshops/tutorials) (S)	17	17	-	-	-
<i>Self-studies</i>	46	46	-	-	-
<i>Evaluation and assessment (exam/passing/failing grade)</i>	9	9	-	-	-
<b>Course workload</b>	academic hours	<b>72</b>	<b>72</b>	-	-

Type of academic activities	Total academic hours	Semesters/training modules			
		9	-	-	-
credits	2	2	-	-	-

## 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

Course module title	Course module contents (topics)	Academic activities types	
Module 1. Traumatology and orthopedics.	Topic 1.1 Classification of fractures.	Lectures,	Lab work.
	Topic 1.2 Osteosynthesis.	Lectures,	Lab work.
	Topic 1.3 Arthrodesis. Corrective osteotomy.	Lectures,	Lab work.
Module 2. Thoracic and abdominal surgery.	Topic 2.1 Thoracic reconstructive surgery.	Lectures,	Lab work.
	Topic 2.2 Abdominal reconstructive surgery.	Lectures,	Lab work.
Module 3. Operations in the head and neck.	Topic 3.1 Reconstructive and reconstructive surgery of the facial part of the skull.	Lectures,	Lab work.
	Topic 3.2 Reconstructive and reconstructive surgery of the cerebral part of the skull.	Lectures,	Lab work.
	Topic 3.3 Reconstructive and reconstructive surgery in the neck.	Lectures,	Lab work.
Module 4. Neurosurgery.	Topic 4.1 Methods of surgical treatment for injuries of the central and peripheral nervous system.	Lectures,	Lab work.
Module 5. Plastic surgery.	Topic 5.1 Soft tissue surgery.	Lectures,	Lab work.
	Topic 5.2 Plastic surgery in oncology.	Lectures,	Lab work.
	Topic 5.3 Skin plastic surgery.	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	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *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. Instruments and equipment of veterinary surgery. History and modernity : a textbook / N.V. Sakhno, Yu.A. Vatnikov, S.A. Yagnikov [et al.] ; under the general editorship of N.V. Sakhno. - St. Petersburg : Lan, 2021. - 152 p.

### *Additional readings:*

1. Tools and equipment in veterinary surgery. History and modernity [Electronic resource] : Textbook / N.V. Sakhno [et al.]; Under the general editorship of N.V. Sakhno. - St. Petersburg : Publishing House "Lan", 2017. - 152 p. [http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=465007&idb=0](http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465007&idb=0)
2. 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](http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465109&idb=0)
3. Shakurov M.Sh. Fundamentals of general veterinary surgery [Electronic resource] : Textbook / M.Sh. 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](http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465067&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](http://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 «**Reconstructive Surgery**»
2. The laboratory workshop (if any) on the course «**Reconstructive 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.

**DEVELOPER:**

Professor of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

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.

Full name