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

**Agrarian and Technological Institute**

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

**COURSE SYLLABUS**

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**Reconstructive surgery**

course title

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**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 aim of mastering the course "**Animal Dentistry**" is for students to master theoretical knowledge, practical skills and skills in the diagnosis, prevention and treatment of pathology of the dental apparatus, using knowledge of the basics of biomedical and clinical disciplines, taking into account the laws of the pathology of organs and systems of the body as a whole, to analyze the patterns of functioning of organs and systems in ophthalmic and dental diseases and The aim of the study is to prevent pathological processes.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Animal Dentistry**" is aimed at creating the following competencies (parts of competencies) for students:

*Table 2.1. List of competencies formed by students during the development of the course (results of the development of the course)*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
PC-3	Ability to plan measures for differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about a patient's symptoms/syndromes, forms a set of preliminary diagnoses for further confirmation or refutation.
		PC-3.2 Uses a ready-made or creates a unique algorithm for differential diagnosis, taking into account the capabilities of the treatment facility.
		PC-3.3 Uses the information obtained as a result of diagnostic measures to make a final diagnosis(s) and to correct the diagnoses if necessary.
PC-5	Ability and readiness to plan and conduct necessary instrumental diagnostics of the patient's condition	PC-5.2 Selects the necessary and sufficient set of instrumental diagnostic methods to solve the problem.
		PC-5.3 He is able to conduct instrumental diagnosis of diseases in animals.
		PC-5.4 Interprets the results of the diagnosis and uses them to solve the problem.
PC-9	Ability to use methods of operative surgery in the prevention, diagnosis and treatment of animal diseases.	PC-9.1 Selects the necessary method of surgical intervention, including methods of anesthesia if necessary.

## 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.

\* - Underline whatever applicable.

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. List of Higher Education Program components courses that contribute to expected learning outcomes*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Previous courses/modules, internships*</b>	<b>Subsequent courses/modules, internships*</b>
PC-3	Ability to plan measures for differential diagnosis of diseases in a patient.	Obstetrics, gynecology and andrology Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases Anesthesiology, resuscitation and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive surgery	Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam
PC-5	Ability and readiness to plan and conduct necessary instrumental diagnostics of the patient's condition	Animal anatomy Instrumental diagnostic methods Anesthesiology, resuscitation and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive surgery	Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam
PC-9	Ability to use methods of operative surgery in the prevention, diagnosis and treatment of animal diseases.	Operative surgery with topographic anatomy Anesthesiology, resuscitation and intensive care Reconstructive surgery	Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state

			exam
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#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "**Animal Dentistry**" is 3 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			
		9	-	-	-
Contact academic hours	51	51	-	-	-
including					
Lectures	17	17	-	-	-
Lab work	34	34	-	-	-
Seminars (workshops/tutorials)	-	-	-	-	-
Self-study	41	41	-	-	-
Evaluation and assessment (exam/pass/fail grading)	16	16	-	-	-
<b>Course workload</b>	academic hours	<b>108</b>	<b>108</b>	-	-
	credits	<b>3</b>	<b>3</b>	-	-

#### 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. Dentistry.	Topic 1.1 Anatomical and topographic characteristics of the oral cavity of animals.	Lectures, Lab work.
	Topic 1.2 The device and equipment of a dental office in veterinary medicine. Tools.	Lectures, Lab work.
	Topic 1.3 Organization of veterinary dental work.	Lectures, Lab work.
	Topic 1.4 Timing of eruption and erasure of teeth in animals.	Lectures, Lab work.
	Topic 1.5 Structural features of the dental apparatus in different animal species.	Lectures, Lab work.
	Topic 1.6 Anomalies of dental bite and tooth erasure.	Lectures, Lab work.

	Topic 1.7 Dental diseases of non-carious origin.	Lectures, Lab work.
	Topic 1.8 Dental diseases of non-carious origin.	Lectures, Lab work.
	Topic 1.9 General principles of surgical treatment of the dental system of animals.	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.	- <i>Ophthalmological and dental instruments</i>
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	-- <i>Ophthalmological and dental instruments</i>
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. 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>

2. Pavlov S. A., Kusheev C. B., Lomboeva S. S. Veterinary dentistry: A textbook for classes in veterinary dentistry for students studying in the specialty 36.05.01 Veterinary Medicine 2018.-124p. <https://e.lanbook.com/book/143174>

*Additional Readings:*

1. Timofeev S.V. Animal dentistry. - M.: Agrovvet, 2007. - 120 p.
2. Tutt Cedric, Diprose Judith, Crosley David Dentistry of dogs and cats. - Moscow: Aquarium-Print, 2015. - 224 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](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/>
- 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 "**Animal Dentistry**".
2. Laboratory workshop on the course "**Animal Dentistry**".

\* - The training toolkit and guidelines for the internship are placed on the internship 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 AS COURSE RESULTS**

The assessment toolkit and the grading system\* to evaluate the level of competences (competences in part) formation as the course results 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:**

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

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Position, Basic curriculum

Signature

Vatnikov Yu.A.

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Full name