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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

Reconstructive 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(s)

The aim of mastering the course "**Animal Dentistry**" is for students to acquire theoretical knowledge, practical skills, and competencies in the diagnosis, prevention, and treatment of pathologies of the dentoalveolar apparatus, using knowledge of the fundamentals of biomedical and clinical disciplines, taking into account the laws governing the progression of pathologies in organs and body systems as a whole, and to analyze the patterns of functioning of organs and systems in dental diseases and 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)

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 on the symptoms/syndromes of a patient's disease, forming a set of preliminary diagnoses for their further confirmation or refutation.
		PC-3.2 Uses an existing or develops a unique algorithm for differential diagnosis, considering the capabilities of the healthcare institution.
		PC-3.3 Uses information obtained from diagnostic procedures to establish a final diagnosis (diagnoses) and correct previously established diagnoses if necessary.
PC-5	Ability and readiness to plan and conduct necessary types of instrumental diagnostics of the patient's condition.	PC-5.2 Selects the necessary and sufficient set of instrumental diagnostic methods to solve the assigned task.
		PC-5.3 Is able to conduct instrumental diagnostics of animal diseases.
		PC-5.4 Interprets diagnostic results and uses them to solve the assigned task.
PC-9	Ability to use surgical methods in the prevention, diagnosis, and treatment of animal diseases.	PC-9.1 Selects the appropriate surgical intervention method, including anesthesia methods 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

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	Variable component / Вариативная компонента
		Internal Diseases / Внутренние незаразные болезни	Clinical Industrial Practice / Клиническая производственная практика
		General Surgery / Общая хирургия	Clinical Internship
		Private Surgery / Частная ветеринарная хирургия	Industrial Research Practice / Производственно-исследовательская практика
		Parasitology and Invasive Diseases / Паразитология и инвазионные болезни	Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена
		Dermatology / Дерматология	Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена
		Cardiology / Кардиология	Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена
		Endocrinology / Эндокринология	Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена
		Oncology / Онкология	Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена
		Neurology / Неврология	Design, Preparation for Defense Procedure and
		Nephrology /	

		<p>Нефрология</p> <p>Anesthesiology, Resuscitation And Intensive Therapy / 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>Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>
PC-5	Ability and readiness to plan and conduct necessary types of instrumental diagnostics of the patient's condition.	<p>Instrumental Diagnostic Methods with Elements of Artificial Intelligence Technology / Инструментальные методы диагностики с элементами технологии искусственного интеллекта</p> <p>Dermatology / Дерматология</p> <p>Cardiology / Кардиология</p> <p>Endocrinology / Эндокринология</p> <p>Oncology / Онкология</p> <p>Neurology / Неврология</p> <p>Nephrology /</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</p>

		<p>Нефрология</p> <p>Reconstructive Surgery / Реконструктивно-восстановительная хирургия</p> <p>Veterinary Ophthalmology / Ветеринарная офтальмология</p>	<p>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>
PC-9	<p>Ability to use surgical methods in the prevention, diagnosis, and treatment of animal diseases.</p>	<p>Operative Surgery with Topographic Anatomy / Оперативная хирургия с топографической анатомией</p> <p>Reconstructive Surgery / Реконструктивно-восстановительная хирургия</p> <p>Veterinary Ophthalmology / Ветеринарная офтальмология</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</p>

			экзамена Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "**Animal Dentistry**" is 2 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		1	1	-	-	-
Evaluation and assessment (exam/pass/fail grading)		20	20	-	-	-
Course workload	academic hours	72	72	-	-	-
	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. Dentistry.	Topic 1.1 Anatomical and topographic characteristics of the oral cavity of	Lectures, Lab work.

	animals.	
	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.	-
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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
- 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 "**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

Position, Basic curriculum

Signature

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Full name