

Документ подписан простой электронной подписью  
Информация о владельце:  
ФИО: Ястребов Олег Александрович  
Должность: Ректор  
Дата подписания: 21.05.2025 12:31:06  
Уникальный программный ключ:  
ca953a0120d891083f939673078ef1a989dae18a

**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**

---

Small Animal Diseases

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. GOALS AND OBJECTIVES OF THE COURSE

The aim of mastering the course " **Small Animal Diseases**" is to study the diseases of small pets. Students receive theoretical and practical knowledge about the peculiarities of biology and pathology of small pets, methods and means of fixation, anesthesia, clinical examination, as well as about the peculiarities of manifestation, spread, diagnosis, prevention and treatment of infectious and non-infectious diseases.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Diseases of small pets**" 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 discipline)*

Competence code	Competence descriptor	Indicators of competence accomplishment (within the discipline)
PC-1	Ability to collect the animal's medical history and life history for subsequent diagnosis and planning of treatment and preventive measures.	PC-1.1 Collects the life history of the animal, information about scheduled vaccinations, deworming, and other preventive treatments.
		PC-1.2 Collects information about past diseases, surgical interventions, current chronic conditions, and the therapy being administered for these conditions.
		PC-1.3 Collects information about changes in the animal's condition during the course of the disease, conducted diagnostic and therapeutic measures, and the medications and physiotherapy methods used.
PC-2	Ability to conduct a complete primary clinical examination of an animal to establish a preliminary clinical diagnosis (or diagnoses) and to perform repeated examinations to monitor the patient's condition.	PC-2.1 Observes the technique and sequence of clinical examination, taking into account the species and condition of the animal.
		PC-2.2 Identifies signs (symptoms) of deviations from normal function, recognizes standard combinations of symptoms (syndromes).
		PC-2.3 Records examination results in the patient's chart or other medical documents.

PC-10	Ability to analyze and adjust the feeding of animals to enhance the effectiveness of the treatment process and to prescribe therapeutic diets.	PC-10.1 Able to analyze the patient's diet to identify factors predisposing to the development of diseases.
		PC-10.2 Able to justify the prescription of special feeding for the animal for therapeutic purposes in various diseases.
		PC-10.3 Able to recommend the approximate composition of therapeutic diets, the desirable ratio of nutrients, the presence of special additives and components that enhance the therapeutic effect of the diet.
		PC-10.4 Able to use special programs and databases for selecting commercial therapeutic diets and dietary supplements, as well as for creating individual therapeutic diets for animals of different species.

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course " **Small Animal Diseases**" belongs to the part formed by the participants of educational relations of the block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the course " **Small Animal Diseases**".

*Table 3.1. List of Higher Education Program components disciplines that contribute to expected learning outcomes*

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-1	Ability to collect the animal's medical history and life history for subsequent diagnosis and planning of treatment and preventive measures.	Clinical Diagnostics / Клиническая диагностика  Fish Pathology and Aquaculture / Патология рыб и аквакультура  Equine Diseases /	Bee Diseases and Entomophages / Болезни пчел и энтомофаги  Exotic Animal Diseases / Болезни экзотических животных

		<p>Болезни лошадей</p> <p>Diseases of Farm Animals / Болезни продуктивных животных</p>	<p>Base component / Базовая компонента</p> <p>Educational Practice / Учебная практика</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 Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>
PC-2	Ability to conduct a complete primary clinical examination of an animal to establish a	<p>Base component / Базовая компонента</p> <p>Clinical Diagnostics /</p>	<p>Bee Diseases and Entomophages / Болезни пчел и</p>

	<p>preliminary clinical diagnosis (or diagnoses) and to perform repeated examinations to monitor the patient's condition.</p>	<p>Клиническая диагностика</p> <p>Fish Pathology and Aquaculture / Патология рыб и аквакультура</p> <p>Equine Diseases / Болезни лошадей</p> <p>Diseases of Farm Animals / Болезни продуктивных животных</p>	<p>энтомофаги</p> <p>Exotic Animal Diseases / Болезни экзотических животных</p> <p>Base component / Базовая компонента</p> <p>Educational Practice / Учебная практика</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</p>
--	---	--	---

			Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы
PC-10	Ability to analyze and adjust the feeding of animals to enhance the effectiveness of the treatment process and to prescribe therapeutic diets.	<p>Base component / Базовая компонента</p> <p>Animal Nutrition and Feeding with Basics of Feed Production / Кормление животных с основами кормопроизводства</p> <p>Medicinal and Poisonous Plants / Лекарственные и ядовитые растения</p> <p>Fodder Plants / Кормовые растения</p> <p>Fish Pathology and Aquaculture / Патология рыб и аквакультура</p> <p>Equine Diseases / Болезни лошадей</p> <p>Diseases of Farm Animals / Болезни продуктивных животных</p>	<p>Bee Diseases and Entomophages / Болезни пчел и энтомофаги</p> <p>Exotic Animal Diseases / Болезни экзотических 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</p>

			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
--	--	--	---

#### 4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course " **Small Animal Diseases**" is 3 credits.

*Table 4.1. Types of academic activities during the period of the HE program mastering for **full-time** study*

Types of academic activities		HOURS	Semesters			
			9	-	-	-
Contact academic hours		51	51	-	-	-
including						
Lectures		17	17	-	-	-
Lab work		34	34	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		46	46	-	-	-
Evaluation and assessment (exam/pass/fail grading)		11	11	-	-	-
Course workload	Academic hour	<b>108</b>	<b>108</b>	-	-	-
	Credit unit	<b>3</b>	<b>3</b>	-	-	-

#### 5. COURSE CONTENTS

*Table 5.1 Content of the course (module) by type of academic work*

Modules	Content of the modules (topics)	Types of academic activities
---------	---------------------------------	------------------------------

Module 1 Introduction.	Topic 1.1. The course is a system of knowledge about diseases of small domestic animals.	Lectures, Lab work.
Module 2. Differential diagnosis of diseases of Small Pets.	Topic 2.1. Methods of working with animal owners.	Lectures, Lab work.
	Topic 2.2. Algorithm of differential diagnosis in various diseases.	Lectures, Lab work.
	Topic 2.3. Urgent conditions and planned diagnostics.	Lectures, Lab work.
	Topic 2.4. Medical examination of Small Pets.	Lectures, Lab work.
Module 3. Diseases of the gastrointestinal tract	Topic 3.1. Methods of diagnosis of chronic and urgent gastrointestinal pathologies.	Lectures, Lab work.
	Topic 3.2. Palpation, percussion and auscultation of abdominal organs	Lectures, Lab work.
	Topic 3.3. Radiography and ultrasound examination of the abdominal cavity.	Lectures, Lab work.
	Topic 3.4. Operative and conservative treatment of patients.	Lectures, Lab work.
	Topic 3.5. Rehabilitation.	Lectures, Lab work.
Module 4. Diseases of the liver, gallbladder and pancreas.	Topic 4.1. Methods of examination of the patient in the pathology of the digestive glands. The coprogram.	Lectures, Lab work.
	Topic 4.2. Development of therapeutic diets.	Lectures, Lab work.
Module 5. Diseases of the urinary system.	Topic 5.1. Algorithm of differential diagnosis of diseases of the urinary system.	Lectures, Lab work.
	Topic 5.2. Nephritis, nephrosis, nephrosclerosis, pyelonephritis.	Lectures, Lab work.
	Topic 5.3. Diseases of the urinary tract: pyelitis, urocystitis, urolithiasis.	Lectures, Lab work.
	Topic 5.4. Hematuria. Urine examination, ultrasound and X-ray diagnostics. Cystocentesis.	Lectures, Lab work.
Module 6. Diseases of the genitals of small pets	Topic 6.1. Differential diagnosis of diseases of the genitals.	Lectures, Lab work.
	Topic 6.2. Ultrasound and X-ray diagnostics of diseases of the genital organs.	Lectures, Lab work.



	Topic 6.3. Operative and conservative treatment.	Lectures, Lab work.
	Topic 6.4. Endometritis. The pyometer. Vulvovaginitis.	Lectures, Lab work.
	Topic 6.5. Ovarian cysts.	Lectures, Lab work.
	Topic 6.6. Prostatitis.	Lectures, Lab work.
Module 7. Features of the diseases of the respiratory organs of small animals.	Topic 7.1. Examination of the respiratory system.	Lectures, Lab work.
	Topic 7.2. Auscultation of the respiratory tract.	Lectures, Lab work.
	Topic 7.3. Chest X-ray.	Lectures, Lab work.
	Topic 7.4. Thoracocentesis.	Lectures, Lab work.
Module 8. Features of the diseases of the cardiovascular system.	Topic 8.1. Diseases of the cardiovascular system.	Lectures, Lab work.
	Topic 8.2. Classification, syndromes.	Lectures, Lab work.
	Topic 8.3. Diseases of the heart muscle.	Lectures, Lab work.
	Topic 8.4. Endocardial diseases.	Lectures, Lab work.
	Topic 8.5. Heart defects.	Lectures, Lab work.
	Topic 8.6. Vascular diseases	Lectures, Lab work.
Module 9. Infectious diseases of Small Pets. Methods of diagnosis and prevention	Topic 9.1. Methods of diagnosis and prevention.	Lectures, Lab work.
	Topic 9.2. Working out the method of admission of a patient with suspected infectious pathology.	Lectures, Lab work.
	Topic 9.3. Algorithm of differential diagnostics.	Lectures, Lab work.
	Topic 9.4. Etiotropic therapy.	Lectures, Lab work.
	Topic 9.5. Symptomatic treatment.	Lectures, Lab work.
Module 10. Endocrinological pathologies. Diagnostic methods and correction.	Topic 10.1. Algorithm of differential diagnosis of endocrinological pathologies.	Lectures, Lab work.
	Topic 10.2. Trichoscopy, analysis of the results of scotch tests and scrapings.	Lectures, Lab work.

	Topic 10.3. Blood and urine testing.	Lectures, Lab work.
Module 11. Urgent states in everyday practice.	Topic 11.1. X-ray and ultrasound examinations of patients.	Lectures, Lab work.
	Topic 11.2. Analysis of radiographs, tomograms, test results and ultrasound protocols.	Lectures, Lab work.
	Topic 11.3. Development of intensive care algorithms.	Lectures, Lab work.

## 6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Material and technical support of the discipline*

<b><i>Classroom for Academic Activity Type</i></b>	<b><i>Equipping the classroom</i></b>	<b>Specialized educational/laboratory equipment, software and materials for the development of the course (if necessary)</b>
Lecture	An auditorium for conducting lecture-type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations.	-
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	-
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. Alekseeva I.G., Dorofeeva V.P., Markova M.V. Infectious diseases of small domestic animals: textbook 2019.-121 p. <https://e.lanbook.com/book/129435>
2. Meleshkov S. F. , Honin G. A. Instrumental diagnostic methods: In 2 hours – Part 2. Endoscopic diagnostic methods: practicum 2020.-44 p. <https://e.lanbook.com/book/136151>
3. Kudacheva N. A. Organization of veterinary business: practicum 2020.-123 p. <https://e.lanbook.com/book/158651>
4. Nikitin I. N. Veterinary entrepreneurship: textbook for universities 2021.-372 p. <https://e.lanbook.com/book/153921>

*Additional Readings:*

1. Akaevsky A.V., Yudichev Yu., Seleznev S.B. Anatomy of domestic animals / Edited by S.B. Seleznev / M.: Aquarium-Print LLC, 2009.- 638 p.
2. Andreevsky I. The book about diseases of horses. - M.: Editorial URSS, 2012. - 532 p.
3. Dorosh M.V. Diseases of horses / M.: Veche, 2007. – 247 p.
4. Kerber Hans-Dieter Hoof diseases and horse forging. A desktop book for vet. doctors, kuznetsov-kovalyov and owners . - M.: Aquarium - Print, 2016. - 324 p.
5. Remy David W. Respiratory diseases of horses. - M.: Aquarium - Print, 2008. - 112 p.
6. Korneeva O. Diseases of horses Modern methods of treatment. - Moscow: Aquarium, 2007. - 1008 p.
7. Robinson, Edward N., Wilson, Matilda R. Diseases of horses. Modern methods of treatment. - M.: Aquarium - Print, 2007. - 1012 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/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent work of students during the development of the discipline/ module\*:

1. A course of lectures on the course " **Small Animal Diseases**".
2. Laboratory workshop on the course " **Small Animal Diseases**".

\* - 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

Vatnikov Yu.A.

Full name