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Информация о владельце:  
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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**

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

**COURSE SYLLABUS**

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Internal Diseases

course title

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

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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

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higher education programme profile/specialisation title

## 1. COURSE GOAL

The goal of the course "**Internal diseases**" is to provide students with theoretical and practical knowledge on general disease prevention, therapeutic techniques, etiology, pathogenesis, symptoms, diagnosis, treatment and prevention of specific non-infectious diseases.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course "**Internal non-infectious diseases**" 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 on symptoms/syndromes, forms a set of preliminary diagnoses for confirmation or exclusion.
		PC-3.2 Uses an existing or designs a unique algorithm for differential diagnosis based on the capabilities of the medical institution.
		PC-3.3 Uses diagnostic data to establish the final diagnosis (diagnoses) and adjusts diagnoses if necessary.
PC-6	Ability to establish a diagnosis and provide a prognosis for the disease course and spread based on clinical, laboratory, instrumental, and additional diagnostic data.	PC-6.1 Possesses knowledge of the manifestations of infectious, parasitic, internal non-contagious, surgical, gynecological, and other diseases of various animal species.
		PC-6.2 Possesses methods for establishing a comprehensive diagnosis based on anamnesis, clinical, laboratory, and instrumental studies.
		PC-6.3 Possesses methods for forecasting the course and outcome of treatment based on the set of comorbid diagnoses and complicating factors.
		PC-6.4 Possesses methods for assessing the risk of the spread of the identified disease.
PC-12	Ability to organize and conduct general and specialized veterinary health monitoring of animals.	PC-12.1 Able to develop a plan for general or specialized animal health monitoring, considering their species and purpose.

		PC-12.2 Able to organize and conduct health monitoring according to the developed plan.
		PC-12.3 Able to provide recommendations for therapeutic and preventive measures aimed at improving the health of the animal group based on the results of health monitoring.

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Internal diseases**" 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	General Surgery / Общая хирургия Private Surgery / Частная ветеринарная хирургия Parasitology and Invasive Diseases / Паразитология и инвазионные болезни Dermatology / Дерматология Cardiology / Кардиология Endocrinology / Эндокринология Oncology / Онкология Neurology / Неврология 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>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</p>
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			<p>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-6	<p>Ability to establish a diagnosis and provide a prognosis for the disease course and spread based on clinical, laboratory, instrumental, and additional diagnostic data.</p>	<p>Pathological Anatomy / Патологическая анатомия</p> <p>Obstetrics, Gynecology and Andrology / Акушерство, гинекология и андрология</p>	<p>General Surgery / Общая хирургия</p> <p>Private Surgery / Частная ветеринарная хирургия</p> <p>Parasitology and Invasive Diseases / Паразитология и инвазионные болезни</p> <p>Epidemiology and Infectious Diseases / Эпизоотология и инфекционные болезни</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-12	Ability to organize and conduct general and specialized veterinary health monitoring of animals.	Obstetrics, Gynecology and Andrology / Акушерство, гинекология и андрология	<p>Private Surgery / Частная ветеринарная хирургия</p> <p>Parasitology and Invasive Diseases / Паразитология и инвазионные болезни</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</p>

			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
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#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "**Internal diseases**" is 10 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	8	9	-
Contact academic hours		153	51	51	51	-
including						
Lectures		51	17	17	17	-
Lab work		102	34	34	34	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		151	73	3	75	-
Evaluation and assessment (exam/pass/fail grading)		56	20	18	18	-
Course workload	academic hours	<b>360</b>	<b>144</b>	<b>72</b>	<b>144</b>	-
	credits	<b>10</b>	<b>4</b>	<b>2</b>	<b>4</b>	-

#### 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

Course module title	Course module contents (topics)	Academic activities types
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Module 1. General therapy and prevention.	Topic 1.1. Theoretical and organizational foundations of prevention and treatment of internal non-infectious diseases.	Lectures, Lab work.
	Topic 1.2. Means and methods of therapy. Therapeutic technique.	Lectures, Lab work.
	Topic 1.3. Physiotherapy.	Lectures, Lab work.
	Topic 1.4. Medical examination.	Lectures, Lab work.
Module 2. Private therapy and prevention.	Topic 2.1. Metabolic diseases.	Lectures, Lab work.
	Topic 2.2. Diseases of the respiratory system.	Lectures, Lab work.
	Topic 2.3. Diseases of the cardiovascular system.	Lectures, Lab work.
	Topic 2.4. Diseases of the gastrointestinal tract.	Lectures, Lab work.
	Topic 2.5. Diseases of the central nervous system.	Lectures, Lab work.
	Topic 2.6. Diseases of the MVS.	Lectures, Lab work.
	Topic 2.7. Poisoning.	Lectures, Lab work.
	Topic 2.8. Diseases of young animals.	Lectures, Lab work.
	Topic 2.9. Diseases of birds.	Lectures, Lab work.
	Topic 2.10. Diseases of fur-bearing 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>Information stands.</i> - <i>Instruments and devices of clinical veterinary medicine.</i>
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- <i>Information stands.</i> - <i>Instruments and devices of clinical veterinary medicine.</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. Usha Boris Veniaminovich. Propaedeutics of internal non-infectious animal diseases / B.V. Usha, I.M. Belyakov. - St. Petersburg : Quadro, 2020. - 474 p.
2. Guide to practical classes on internal non-infectious diseases : textbook / A.V. Yashin, G.G. Shcherbakov, N.A. Kochueva [et al.]. - St. Petersburg : Publishing House "Lan", 2016. - 176 p.

### *Additional Readings:*

1. Clinical diagnostics of internal diseases of animals : textbook / S.P. Kovalev, A.P. Kurdeko, E.L. Bratushkina [et al.]. - 2nd ed., revised. - St. Petersburg : Publishing House "Lan", 2016. - 544 p.
2. Internal diseases of animals. For colleges : textbook / G.G. Shcherbakov, S. P. Kovalev, A.V. Yashin, S. V. Vinnikova. - 2nd ed., ispr. and add. - St. Petersburg : Publishing House "Lan", 2012. - 496 p.
3. Usha Boris Veniaminovich. Clinical diagnostics in internal non-communicable diseases of animals : textbook / B.V. Usha, I.M. Belyakov, R.P. Pushkarev; B.V. Usha and others. - M. Colossus, 2004. - 487 pp.
4. Kondrakhin Ivan Petrovich. Internal non-infectious diseases of animals : textbook for universities / I.P. Kondrakhin, G.A. Talanov, V.V. Pak. - M. : Koloss, 2003. - 461 p.
5. Kazeev G.V., Kazeeva A.V. Veterinary acupuncture [Electronic resource]: - 3rd ed., revised. - St. Petersburg : Publishing House "Lan", 2017. - 296 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/>

### *Training toolkit for self- studies to master the course \*:*

1. The set of lectures on the course "**Internal diseases**".

## 2. Laboratory workshop on the course "**Internal diseases**".

\* 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:**

Associate Professor of the Department of Veterinary  
Medicine

Position, Basic curriculum

Signature

Semenova V. 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.

Full name