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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**

**Internal diseases**

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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:**

**36.05.01 Veterinary**

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higher education programme profile/specialisation title

## 1. COURSE GOAL

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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 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-6	Ability to diagnose and predict the course and spread of disease based on clinical, laboratory, and instrumental diagnostic data, as well as additional diagnostic methods.	PC-6.1 Knows the peculiarities of the manifestation of infectious, parasitic, internal non-contagious, surgical, gynecological and other diseases of animals of different species.
		PC-6.2 Knows how to make a complex diagnosis, taking into account the results of anamnesis, clinical, laboratory and instrumental studies.
		PC-6.3 Knows how to predict the course and result of treatment of the main disease based on the complex of concomitant diagnoses and factors that complicate the patient's condition.
		PC-6.4 Has knowledge of methodologies for assessing the risks of spread of an identified disease.
PC-12	Ability to organize and conduct dispensaries in animals, both	PC-12.1 Able to make a plan for the dispensary of animals, general or

	general and specialized.	specialized, taking into account their species and purpose
		PC-12.2 Able to organize and conduct medical examinations according to the plan
		PC-12.3 Able, on the basis of the results of the dispensary, to make recommendations for therapeutic and preventive measures aimed at improving the health of the animal group

### 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 measures for differential diagnosis of diseases in a patient.	Obstetrics, gynecology and andrology	General surgery Private Veterinary Surgery Parasitology and invasive diseases Anesthesiology, resuscitation and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive surgery Veterinary ophthalmology Animal Dentistry Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam

PC-6	Ability to diagnose and predict the course and spread of disease based on clinical, laboratory, and instrumental diagnostic data, as well as additional diagnostic methods.	Pathological anatomy Obstetrics, gynecology and andrology	General surgery Private Veterinary Surgery Parasitology and invasive diseases Epizootology and infectious diseases Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam
PC-12	Ability to organize and conduct dispensaries in animals, both general and specialized.	Obstetrics, gynecology and andrology	General surgery Private Veterinary Surgery Parasitology and invasive diseases Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam

#### 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	156	51	54	51	-
including					
Lectures	52	17	18	17	-
Lab work	104	34	36	34	-
Seminars (workshops/tutorials)	-	-	-	-	-
Self-study	154	73	8	73	-
Evaluation and assessment (exam/pass/fail grading)	50	20	10	20	-

<b>Course workload</b>	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*

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
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*

<b>Type of academic activities</b>	<b>Classroom equipment</b>	<b>Specialised educational / laboratory equipment, software, and materials for course study (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.	- <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.	-

## 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., erased. - 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 inutrennich noncompetitive aposematicx painful animal urgemx: 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., erased. - 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/>
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevier.com/locate/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