

Документ подписан простой электронной подписью
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**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
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. COURSE GOAL(s)

The goal of 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

Mastering the course (module) «Small Animal Diseases» is aimed at the development of the following competences /competences in part:

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-1	Ability to collect the life and health history of an animal for further diagnosis and planning of treatment and preventive measures.	PC-1.1 Collects the life history of the animal, including information about scheduled vaccinations, deworming, and other preventive treatments.
		PC-1.2 Collects information about past diseases, surgical interventions, current chronic diseases, and ongoing therapy of these conditions.
		PC-1.3 Collects information about changes in the animal's condition during the disease, conducted diagnostic and therapeutic measures, used medications, and physiotherapy methods.
PC-2	Ability to perform a full primary clinical examination of an animal to establish a preliminary clinical diagnosis (diagnoses) and conduct follow-up examinations to monitor the patient's condition.	PC-2.1 Follows proper technique and procedure for clinical examination, taking into account the species and condition of the animal.
		PC-2.2 Identifies signs (symptoms) of deviation from normal function, recognizes standard combinations of symptoms (syndromes).
		PC-2.3 Records examination results in the patient's medical chart or other medical documents.
PC-10	Ability to analyze and adjust animal feeding to enhance the effectiveness of the therapeutic process and prescribe therapeutic diets.	PC-10.1 Able to analyze the patient's diet to identify factors predisposing to disease development.
		PC-10.2 Able to justify the appointment of special feeding for therapeutic purposes in various diseases.
		PC-10.3 Able to recommend the approximate composition of therapeutic diets, the desired ratio of nutrients, and the inclusion of special

Competence code	Competence descriptor	Competence formation indicators (within this course)
		additives and components enhancing the therapeutic effect of the diet.
		PC-10.4 Able to use special programs and databases to select commercial therapeutic diets and dietary supplements, as well as to create individualized therapeutic diets for animals of different species.

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.

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*	Subsequent courses/modules*
PC-1	Ability to collect the life and health history of an animal for further diagnosis and planning of treatment and preventive measures.	Clinical Diagnostics Fish Pathology and Aquaculture Equine Diseases Diseases of Farm Animals	Bee Diseases and Entomophages Exotic Animal Diseases Educational Practice Clinical Industrial Practice Clinical Internship Industrial Research Practice
PC-2	Ability to perform a full primary clinical examination of an animal to establish a preliminary clinical diagnosis (diagnoses) and conduct follow-up examinations to monitor the patient's condition.	Fish Pathology and Aquaculture Equine Diseases Diseases of Farm Animals	Bee Diseases and Entomophages Exotic Animal Diseases Educational Practice Clinical Industrial Practice Clinical Internship Industrial Research Practice
PC-10	Ability to analyze and adjust animal feeding to enhance the effectiveness of the therapeutic process and prescribe therapeutic diets.	Animal Nutrition and Feeding with Basics of Feed Production Medicinal and Poisonous Plants Fodder Plants Fish Pathology and Aquaculture	Bee Diseases and Entomophages Exotic Animal Diseases Clinical Industrial Practice Clinical Internship Industrial Research Practice

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
		Equine Diseases Diseases of Farm Animals	

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 3 credits (108 academic hours).

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	-	-	-
<i>Contact academic hours</i>	<i>51</i>	<i>51</i>	-	-	-
including:					
Lectures (LC)	17	17	-	-	-
Lab work (LW)	34	34	-	-	-
Seminars (workshops/tutorials) (S)	-	-	-	-	-
<i>Self-studies</i>	<i>46</i>	<i>46</i>	-	-	-
<i>Evaluation and assessment (exam/passing/failing grade)</i>	<i>11</i>	<i>11</i>	-	-	-
Course workload	academic hours	108	108	-	-
	credits	3	3	-	-

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
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, work.	Lab
	Topic 3.4. Operative and conservative treatment of patients.	Lectures, work.	Lab
	Topic 3.5. Rehabilitation.	Lectures, work.	Lab
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, work.	Lab
	Topic 4.2. Development of therapeutic diets.	Lectures, work.	Lab
Module 5. Diseases of the urinary system.	Topic 5.1. Algorithm of differential diagnosis of diseases of the urinary system.	Lectures, work.	Lab
	Topic 5.2. Nephritis, nephrosis, nephrosclerosis, pyelonephritis.	Lectures, work.	Lab
	Topic 5.3. Diseases of the urinary tract: pyelitis, urocystitis, urolithiasis.	Lectures, work.	Lab
	Topic 5.4. Hematuria. Urine examination, ultrasound and X-ray diagnostics. Cystocentesis.	Lectures, work.	Lab
Module 6. Diseases of the genitals of small pets	Topic 6.1. Differential diagnosis of diseases of the genitals.	Lectures, work.	Lab
	Topic 6.2. Ultrasound and X-ray diagnostics of diseases of the genital organs.	Lectures, work.	Lab
	Topic 6.3. Operative and conservative treatment.	Lectures, work.	Lab
	Topic 6.4. Endometritis. The pyometer. Vulvovaginitis.	Lectures, work.	Lab
	Topic 6.5. Ovarian cysts.	Lectures, work.	Lab
	Topic 6.6. Prostatitis.	Lectures, work.	Lab
Module 7. Features of diseases of the respiratory organs of small animals.	Topic 7.1. Examination of the respiratory system.	Lectures, work.	Lab
	Topic 7.2. Auscultation of the respiratory tract.	Lectures, work.	Lab
	Topic 7.3. Chest X-ray.	Lectures, work.	Lab
	Topic 7.4. Thoracocentesis.	Lectures, work.	Lab
Module 8. Features of diseases of the cardiovascular system.	Topic 8.1. Diseases of the cardiovascular system.	Lectures, work.	Lab
	Topic 8.2. Classification, syndromes.	Lectures, work.	Lab
	Topic 8.3. Diseases of the heart muscle.	Lectures, work.	Lab
	Topic 8.4. Endocardial diseases.	Lectures, work.	Lab
	Topic 8.5. Heart defects.	Lectures, work.	Lab
	Topic 8.6. Vascular diseases	Lectures, work.	Lab

Module 9. Infectious diseases of Small Pets. Methods of diagnosis and prevention	Topic 9.1. Methods of diagnosis and prevention.	Lectures, work.	Lab
	Topic 9.2. Working out the method of admission of a patient with suspected infectious pathology.	Lectures, work.	Lab
	Topic 9.3. Algorithm of differential diagnostics.	Lectures, work.	Lab
	Topic 9.4. Etiotropic therapy.	Lectures, work.	Lab
	Topic 9.5. Symptomatic treatment.	Lectures, work.	Lab
Module 10. Endocrinological pathologies. Diagnostic methods and correction.	Topic 10.1. Algorithm of differential diagnosis of endocrinological pathologies.	Lectures, work.	Lab
	Topic 10.2. Trichoscopy, analysis of the results of scotch tests and scrapings.	Lectures, work.	Lab
	Topic 10.3. Blood and urine testing.	Lectures, work.	Lab
Module 11. Urgent states in everyday practice.	Topic 11.1. X-ray and ultrasound examinations of patients.	Lectures, work.	Lab
	Topic 11.2. Analysis of radiographs, tomograms, test results and ultrasound protocols.	Lectures, work.	Lab
	Topic 11.3. Development of intensive care algorithms.	Lectures, work.	Lab

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	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

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
- 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 «**Small Animal Diseases**»
2. The laboratory workshop (if any) on the course «**Small Animal 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.

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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