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

2024

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 gather a history of the animal's life and health for further diagnosis and planning of treatment and preventive measures.	PC-1.1 Gathers the animal's life history, information on routine vaccinations, deworming and other preventive treatments.
		PC-1.2 Collects information on past illnesses, surgical interventions, current chronic illnesses, and ongoing therapy for these illnesses.
		PC-1.3 Collects information on changes in the animal's condition during the course of the disease, diagnostic and therapeutic measures taken, medications used and methods of physical therapy.
PC-2	Ability to perform a complete initial clinical examination of the animal to make a preliminary clinical diagnosis(s) and repeat examinations to monitor the patient's condition.	PC-2.1 Observes the technique and procedure of clinical examination, taking into account the type of animal and its condition.
		PC-2.2 Identifies signs (symptoms) of deviations from normal function, recognizes standard combinations of signs (syndromes).
		PC-2.3 Records the results of the examination in the patient's chart/other medical documents
PC-10	Ability to analyze and adjust animal feeding to improve the effectiveness of the therapeutic process, prescribe	PC-10.1 Able to analyze a patient's diet to identify factors predisposing to the development of disease.

	therapeutic diets.	PC-10.2 Able to justify the prescription of special food to an animal for therapeutic purposes for various diseases
		PC-10.3 Can recommend approximate composition of therapeutic diets, desirable ratio of nutrients, availability of special additives and components that enhance the therapeutic effect of the diet
		PC-10.4 Able to use special programs and databases to select industrial therapeutic diets and dietary supplements, as well as to compose 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 B1of 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 gather a history of the animal's life and health for further diagnosis and planning of treatment and preventive measures.	Clinical diagnostics Horse diseases Diseases of productive animals	Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Study practice Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and

			passing the state exam
PC-2	Ability to perform a complete initial clinical examination of the animal to make a preliminary clinical diagnosis(s) and repeat examinations to monitor the patient's condition.	Clinical diagnostics Horse diseases Diseases of productive animals	Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Study practice Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam
PC-10	Ability to analyze and adjust animal feeding to improve the effectiveness of the therapeutic process, prescribe therapeutic diets.	Feeding animals with the basics of forage production Medicinal and poisonous plants Fodder plants Horse diseases Diseases of productive animals	Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals 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 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		41	41	-	-	-
Evaluation and assessment (exam/pass/fail grading)		16	16	-	-	-
Course workload	Academic hour	**108**	**108**	**-**	**-**	**-**
	Credit unit	**3**	**3**	**-**	**-**	**-**

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 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 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

Classroom for Academic Activity Type	***Equipping the classroom***	**Specialized educational/laboratory equipment, software and materials for the development of the course** (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.	-
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
- 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.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).

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Position, Basic curriculum	Signature	Full name.

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