

*Federal State Autonomous Educational Institution of Higher Education «Peoples' Friendship  
University of Russia»*

*Agrarian Technological Institute*

*Recommended by MCCH*

## **THE DISCIPLINE'S WORKING PROGRAM**

**Name of the discipline Diseases of small pets**

**Recommended for the direction of training / specialty**

36.05.01 Veterinary

## 1. Purposes and objectives of the discipline:

The purpose of studying diseases of small domestic animals is to provide students with theoretical and practical knowledge about the features of biology and pathology of small domestic animals, methods and means of fixation, anesthesia, clinical examination, as well as about the characteristics of manifestation, spread, diagnosis, prevention and treatment of infectious and non-communicable diseases.

### Objectives of the discipline:

- study of the small domestic animals' biology, their breed characteristics and predisposition to diseases;
- mastering the methods and means of fixation and clinical examination of small domestic animals;
- mastering and studying the features of anesthesiology and resuscitation of small domestic animals;
- study of the characteristics of the etiology, pathogenesis, clinical picture, some specific diseases, including surgical and obstetric-gynecological pathology.

## 2. The place of discipline in the structure CP of HE:

The discipline "Diseases of small domestic animals" refers to the disciplines of choice of the variable part of Block 1 of the curriculum "Disciplines (modules)".

Table 1 shows the previous and subsequent disciplines aimed at the formation of the competences of the discipline in accordance with the matrix of competencies of the CP of HE.

Table №1.

### Previous and subsequent disciplines, aimed at building competencies

№ s/n	Code and title of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
General Professional Competences			
1.	The ability and the readiness to assess morphofunctional, physiological states and pathological processes in the body to solve professional problems (GPC-3)	Veterinary Microbiology and Mycology; Virology and biotechnology; Veterinary Pharmacology; Toxicology; Animal anatomy; Cytology, histology and embryology; Physiology and ethology of animals; Pathological physiology; Veterinary genetics; Immunology;	

		Pathological anatomy and forensic veterinary examination; Clinical diagnosis; Veterinary-sanitary examination; Forensic Veterinary Medicine and Autopsy; Diseases of productive animals; Horse diseases; Diseases of small pets; Processing technology of animal products	
Professional competencies (medical practice)			
2.	The ability and the willingness to use methods for assessing natural and socio-economic factors in the development of animal diseases, to provide their correction, to provide preventive measures to prevent infectious, parasitic and non-infectious pathologies, to provide general health measures in the formation of healthy livestock animals, to give recommendations for the maintenance and feeding , to evaluate the effectiveness of follow-up monitoring of healthy and sick animals (PC-1)	Biological physics; Breeding with the basics of private animal husbandry; Feeding animals with the basics of fodder production; Animal hygiene; Zoopsychology; Private ethology; Internal non-communicable diseases; Parasitology and invasive diseases; Epizootology and infectious diseases; Veterinary Microbiology and Mycology; Virology and biotechnology; General and veterinary ecology; Veterinary sanitation; Diseases of productive animals; Horse diseases; Diseases of small pets; Biology and pathology of bees;	Manufacturing Practice (prof., Tehnol., Scientific-research. (Pre-diploma.))
3.	The ability and the willingness to fulfil basic therapeutic measures in the most common diseases and conditions in adult livestock animals, young and newborns that can cause severe complications and / or death:	Internal non-communicable diseases; Operative surgery with topographic anatomy; General and private surgery; Diseases of productive	

	diseases of the nervous, endocrine, immune, cardiovascular, respiratory, digestive, urogenital systems and blood, timely identify life-threatening disorders (acute blood loss, respiratory failure, cardiac arrest, coma, shock), use methods for their immediate elimination, provide anti-shock measures (PC-5).	animals; Horse diseases; Diseases of small pets; Disease therapy (non-infectious, infectious, and parasitic).	
4.	The ability and the willingness to prescribe patients with adequate (therapeutic and surgical) treatment in accordance with the diagnosis, to carry out an algorithm for choosing drug and non-drug therapy for patients with infectious, parasitic and non-communicable diseases, follow the rules of working with medicines, use basic principles in organizing therapeutic dietary feeding of sick and healthy animals (PC-6).	Veterinary Pharmacology; Feeding animals with the basics of fodder production; Internal non-communicable diseases; Parasitology and invasive diseases; Epizootology and infectious diseases; Diseases of productive animals; Horse diseases; Diseases of small pets; Pharmacognosy; Disease therapy (non-infectious, infectious, and parasitic).	

### 3. Requirements for the results of mastering the discipline:

The process of studying the discipline is aimed at the formation of the following competencies:

GPC-3. The ability and the readiness to assess morphofunctional, physiological states and pathological processes in the body to solve professional problems.

PC-1. The ability and the willingness to use methods for assessing natural and socio-economic factors in the development of animal diseases, to provide their correction, to provide preventive measures to prevent infectious, parasitic and non-infectious pathologies, to provide general health measures in the formation of healthy livestock animals, to give recommendations for the maintenance and feeding, to evaluate the effectiveness of follow-up of healthy and sick animals.

PC-5. The ability and the willingness to fulfil basic therapeutic measures in the most common diseases and conditions in adult livestock animals, young and newborns that can cause severe complications and / or death: diseases of the nervous, endocrine, immune, cardiovascular, respiratory, digestive, urogenital systems and blood, timely identify life-threatening disorders (acute blood loss, respiratory failure, cardiac arrest, coma, shock), use methods for their immediate elimination, provide anti-shock measures (PC-5).

PC-6. The ability and the willingness to prescribe patients with adequate (therapeutic and surgical) treatment in accordance with the diagnosis, to carry out an algorithm for choosing drug and non-drug therapy for patients with infectious, parasitic and non-communicable diseases, follow the rules of working with medicines, use basic principles in organizing therapeutic dietary feeding of sick and healthy animals.

As a result of studying the discipline, the student must:

**Know:**

- morphofunctional, physiological states and pathological processes in the body

**Able to:**

- take preventive measures to prevent infectious, parasitic and non-infectious pathologies, carry out general health measures to form healthy livestock of animals, make recommendations on keeping and feeding, evaluate the effectiveness of follow-up monitoring of healthy and sick animals;
- fulfil basic therapeutic measures in the most common diseases and conditions in adult livestock animals, young and newborns that can cause severe complications and / or death: diseases of the nervous, endocrine, immune, cardiovascular, respiratory, digestive, urogenital systems and blood, timely identify life-threatening disorders (acute blood loss, respiratory failure, cardiac arrest, coma, shock), use methods for their immediate elimination, provide anti-shock measures;
- prescribe patients with adequate (therapeutic and surgical) treatment in accordance with the diagnosis, to carry out an algorithm for choosing drug and non-drug therapy for patients with infectious, parasitic and non-communicable diseases, follow the rules of working with medicines, use basic principles in organizing therapeutic dietary feeding of sick and healthy animals.

**Own:**

- the methods of assessing natural and socio-economic factors in the development of animal diseases.

**4. The scope of discipline and types of educational work**

The full labor intensity of the discipline is  3  credits.

Type of educational work	Total hours	Terms			
		9	-	-	-
<b>Auditory lessons (total)</b>	54	54	-	-	-
Including:	-	-	-	-	-
<i>Lectures</i>	18	18	-	-	-
<i>Practical training (PT)</i>	-	-	-	-	-
<i>Seminars (S)</i>	-	-	-	-	-
<i>Laboratory activities (LA)</i>	36	36	-	-	-
<b>Control</b>	10	10			
<b>Independent seatwork (total)</b>	44	44	-	-	-
Full labour intensity	hour	108	108	-	-
	credits	3	3	-	-

**5. The content of the discipline**

**5.1. The content of the discipline sections**

№ s/n	Name of the discipline section	Section content
1.	Introduction.	1.1. This discipline is a system of knowledge about the diseases of small domestic animals.
2.	Differential diagnosis of diseases of small domestic	2.1. Methods of working with pet owners. 2.2. The algorithm of differential diagnosis in various

	animals.	diseases. 2.3. Urgent states and scheduled diagnostics. 2.4. The medical check-up of small domestic animals.
3.	Diseases of the gastrointestinal tract.	3.1. Methods for diagnosing chronic and urgent pathologies of the gastrointestinal tract. 3.2. Palpation, percussion and auscultation of the abdominal organs. 3.3. Radiography and ultrasound examination of the abdominal cavity. 3.4. Surgical and conservative treatment of patients. 3.5. Rehabilitation.
4.	Diseases of liver, gallbladder and pancreas.	4.1. Methods of research of the patient in the pathology of the digestive glands. Coprogram 4.2. The development of therapeutic diets.
5.	Diseases of the urinary system.	5.1. The algorithm for differential diagnosis of diseases of the urinary system. 5.2. Nephritis, nephrosis, nephrosclerosis, pyelonephritis. 5.3. Diseases of the urinary tract: pyelitis, urocystitis, urolithiasis. 5.4. Haematuria. Urine examination, ultrasound and X-ray diagnosis. Cystocentesis.
6.	Diseases of the genital organs of small domestic animals.	6.1. Differential diagnosis of diseases of the genital organs. 6.2. Ultrasound and X-ray diagnosis of genital diseases. 6.3. Surgical and conservative treatment. 6.4. Endometritis. Pyometra. Vulvovaginitis. 6.5. Ovarian cysts. 6.6. Prostatitis.
7.	Features of diseases of the respiratory organs of small animals.	7.1. The examination of the respiratory system. 7.2. Auscultation of the respiratory tract. 7.3. Chest x-ray. 7.4. Thoracocentesis.
8.	Features of diseases.	8.1. Diseases of the cardiovascular system. 8.2. Classification, syndromes. 8.3. Diseases of the heart muscle. 8.4. Diseases of the endocard. 8.5. Heart defects. 8.6. Vascular diseases.
9.	Infectious diseases of small domestic animals. Methods of the diagnostics and prevention.	9.1. Methods of the diagnostics and prevention. 9.2. Refining the method of receiving a patient with suspected infectious pathology. 9.3. The algorithm of differential diagnostics. 9.4. Etiotropic therapy. 9.5. Symptomatic treatment.
10.	Endocrinological pathologies. Methods of the diagnostic and correction.	10.1. The algorithm for differential diagnostics of endocrinological pathologies. 10.2. Trichoscopy, analysis of the results of scotch tests and scrapings. 10.3. Blood and urine tests.
11.	Urgent states in everyday practice.	11.1. Holding X-ray and ultrasound examinations of patients. 11.2. Analysis of X-rays, tomograms, test results and ultrasound protocols.

## 5.2 Sections of the discipline and types of educational works

№ s/n	Name of the discipline section	Lect.	Pract. train.	Lab. pract.	Semin.	ISS	Total hours
1.	Introduction.	1	-	2	-	9	12
2.	Differential diagnosis of diseases of small domestic animals.	2	-	3	-	9	14
3.	Diseases of the gastrointestinal tract.	1	-	2	-	6	9
4.	Diseases of liver, gallbladder and pancreas.	1	-	2	-	6	9
5.	Diseases of the urinary system.	1	-	2	-	6	9
6.	Diseases of the genital organs of small domestic animals.	1	-	2	-	6	9
7.	Features of diseases of the respiratory organs of small animals.	1	-	2	-	6	9
8.	Features of diseases.	1	-	3	-	6	10
9.	Infectious diseases of small domestic animals. Methods of the diagnostics and prevention.	1	-	2	-	6	9
10.	Endocrinological pathologies. Methods of the diagnostic and correction.	1	-	2	-	6	9
11.	Urgent states in everyday practice.	1	-	2	-	6	9

## 6. Laboratory workshop

№ s/n	№ of the discipline section	Name of the laboratory activities	Labor intensity (hours)
1.	1	Introduction.	2
2.	2	Differential diagnosis of diseases of small domestic animals.	3
3.	3	Diseases of the gastrointestinal tract.	2
4.	4	Diseases of liver, gallbladder and pancreas.	2
5.	5	Diseases of the urinary system.	2
6.	6	Diseases of the genital organs of small domestic animals.	2
7.	7	Features of diseases of the respiratory organs of small animals.	2
8.	8	Features of diseases.	3
9.	9	Infectious diseases of small domestic animals. Methods of the diagnostics and prevention.	2
10.	10	Endocrinological pathologies. Methods of the diagnostic and correction.	2
11.	11	Urgent states in everyday practice.	2

## 7. Practical training (seminars)

Not provided.

### **8. Material and technical support of the discipline:**

- Personal computer.
- Multimedia equipment.
- Portable ultrasound machine
- Phonendoscope
- Laryngoscope
- Pulse oximeter
- Blood pressure monitor
- Kapnograf
- Microscopes;
- Tools and instruments in clinical veterinary medicine.
- Wood's lamp
- X-ray machine

### **9. Information support of the discipline.**

#### **a) Software.**

- Corporate Windows 7.
- Microsoft Office.
- Adobe Acrobat.

#### **b) Databases, knowledge management and search engines.**

1. [www.cnshb.ru](http://www.cnshb.ru),
2. [www.elibrary.ru](http://www.elibrary.ru),
3. [www.vet.purdue.edu](http://www.vet.purdue.edu),
4. [www.allvet.ru](http://www.allvet.ru),
5. [www.glossary.ru](http://www.glossary.ru),
6. <https://www.ncbi.nlm.nih.gov/pubmed>
7. <http://www.uchvuz.ru>
8. <http://www.veterinarka.ru>
9. <https://www.medlit.biz>
10. <http://effect3.ru>  
<https://cyberleninka.ru/>

### **10. Teaching and methodological support of the discipline:**

#### **a) Main literature:**

1. Gertman, A.M. The diseases of the kidneys and organs of the urinary system of animals : Training manual / A.M. Gertman, T.S. Samsonova. - 2-d. ed, rev. - SPb.: The publishing house "Lan", 2016. - 388 p. <https://e.lanbook.com/book/79324>
2. Vilkovsky I.F., Zhukova K.A. Abdominal surgery of small domestic animals / Trofimtsov D.V., Vatnikov Yu.A., Seleznev S.B., Moscow: Publishing House "Scientific Library", 2018 - 189 p

#### **b) additional literature:**



1. Kopenkin, E. P. The diseases of the eye of small pets: A textbook for universities / E.P. Kopenkin, L.F. Sotnikova. - M. : The fellowship of scientific publications KMK : Author's Academy, 2008. - 94 p.
2. Chandler, E.A. Feline Illnesses: Scientific publication / E.A. Chandler, K.D. Gascell, R.M. Gascell; Trans. From eng. E.Boldyreva and others - M. : Akvarium, 2002. - 696 p.

### **11. Guidelines for students to master the discipline (module)**

The educational process consists of interconnected and complementary types of student work: lectures and laboratory classes, independent work. The main types of independent work of students include: the study of educational literature and lecture notes; familiarization with additional literature, as well as publications of periodicals and the Internet.

The goal of independent work is the development of theoretical material on the discipline being studied, as well as the deepening and expansion of knowledge on the material passed. The current control is carried out by the teacher during the course of classes by observing the development of students' practical skills. During the classes, students must demonstrate the ability to apply the knowledge gained in solving practical problems.

It is recommended that consultations be provided during training. Intermediate certification of students is carried out in the form of a test based on the results of a point-rating system for assessing knowledge.

### **12. The fund of assessment tools for intermediate certification of students in the discipline (module)**

Attached is the FSF, developed in accordance with the requirements of the "Rules for the Establishment of Funds for Estimated Funds (FSF)", approved by order of the rector dated 05.05.2016 No. 420.

The program is drafted in accordance with the requirements of CS of HE RUDN/FSAI of HE.

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