

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

Agricultural Technology Institute

Recommended by MCSD

WORKING PROGRAM OF DISCIPLINE

Name of discipline Diagnosis of diseases and therapy of animals

Recommended for training / specialty

36.06.01 "Veterinary and animal science".

Program focus (specialization)

06.02.01 "Diagnosis of diseases and therapy of animals, pathology, oncology and morphology of
animals"

1. Goals and objectives of the discipline:

The goal of mastering the discipline "Diagnosis of diseases and animal therapy" is the development by a graduate student of theoretical and practical knowledge in general prevention of therapy, therapeutic technique, etiology, pathogenesis, symptoms, diagnosis, treatment and prevention of specific non-infectious diseases.

Objectives of the subject:

- to teach a graduate student to study the dynamics and characteristics of internal non-communicable diseases in conditions of intensive animal husbandry with industrial technology;
- teach a graduate student to improve and develop diagnostic methods;
- teach a graduate student to conduct a study of endemic diseases;
- the search for effective dietary and therapeutic agents, premixes and optimal in terms of the vitamin and mineral composition of feed and feed mixtures for the prevention of metabolic pathology;
- teach a graduate student to develop effective methods of group therapy and prevention of diseases of the respiratory and digestive systems;
- teach a graduate student to study effective anti-stress drugs, biostimulants and other means of increasing nonspecific resistance of the body;
- teach a graduate student to develop reliable methods of group and individual therapy and prevention of non-communicable diseases of young animals.

2. Place of discipline in the structure of HEC :

The discipline " Diagnosis of diseases and animal therapy " refers to the variable part of Block 1 of the curriculum "Disciplines (modules)" .

Table No. 1 shows the previous and subsequent disciplines aimed at the formation of the competencies of the discipline in accordance with the competency matrix of HEC.

Table number 1.

Previous and subsequent disciplines aimed at the formation of competencies

No. p / p	Code and name of competency	Previous disciplines	Subsequent disciplines (groups of disciplines)
Universal competencies			
1	UC-5. Ability to follow ethical standards in professional activity.		Anatomy and histology of animals; Animal pathology; The main stages of the formation of the animal organism; Pedagogical practice; Science research practice
General professional competencies			
2	GPC-1. Own the necessary knowledge		Anatomy and

	system in the field corresponding to the direction of training.		histology of animals; Animal pathology; The main stages of the formation of the animal organism; Pedagogical practice; Science research practice; Science research
3	GPC-6. The ability to improve on the basis of traditional morality.		Anatomy and histology of animals; Animal pathology; The main stages of the formation of the animal organism
Professional competencies			
4	PC-1. The ability to understand the modern problems of veterinary medicine, livestock and use fundamental ideas in the field of professional activity for the formulation and solution of new problems.		Anatomy and histology of animals; Animal pathology; The main stages of the formation of the animal organism

3. Requirements for the results of mastering the discipline:

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

UC-5. Ability to follow ethical standards in professional activity.

GPC-1. Own the necessary knowledge system in the field corresponding to the direction of training.

GPC-6. The ability to improve on the basis of traditional morality.

PC-1. The ability to understand the modern problems of veterinary medicine, livestock and use fundamental ideas in the field of professional activity for the formulation and solution of new problems.

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

To know :

- classification, syndromes of internal non-communicable diseases, their etiology, symptoms, modern diagnostic methods, new effective methods of prevention and treatment .

To be able to :

- determine the nature of tones and noise in the heart when it is damaged, the zone of dullness in the lungs with pneumonia, the nature of pathological respiratory sounds;
- examine the mucous membranes of the eyes, the oral cavity and evaluate their condition;
- determine the zone of location of the scar, mesh, abomasum, own methods for their research;

- establish the number of scar reductions and characterize its work in diseases of the pancreas;
- conduct morphological blood tests and give a clinical interpretation of the indicators;
- determine the location of the blind, large colon of the horse;
- detect ketone bodies, protein, sugar in urine . .

To own :

- methods of clinical examination of animals;
- general clinical methods for the study of blood and urine, cicatricial and gastric contents;
- methods and techniques of therapeutic equipment, physiotherapy;
- the methodology of the clinical examination of animals, be able to summarize research, have the skills to draw up a plan for the prevention of animal diseases . .

3. The volume of discipline and types of educational work

The total complexity of the discipline is 4. credit units. ____

Type of study	Total hours	Semester			
			2		
Classroom activities (total)	80		80		
Including:	-	-	-	-	-
Lectures	40		40		
Practical Activities (PP)	40		40		
Workshops (C)	-				
Laboratory work (LR)	-				
Independent work (total)	46		46		
Formative/Summative Assessment	18		18		
Total labor time hour	144		144		
Zach . units	4		4		

5. The content of the discipline

5.1. The content of the sections of the discipline

No.	The name of the discipline section	Section content (topics)
1.	General therapy and prevention of non-communicable internal animal diseases.	- General prevention of non-communicable internal animal diseases. - The basics of general therapy.
2.	Metabolic diseases in animals.	- Diseases caused by metabolic disorders. - Diseases caused by a violation of mineral metabolism and microelementosis . - Diseases caused by excess or deficiency of vitamins .
3.	Diseases of the cardiovascular and the respiratory strength of the system.	- Diseases of the cardiovascular system. - Diseases of the respiratory system.
4.	Diseases digestive, liver and zhelchevy - vodyaschih paths.	- Diseases of the digestive system. - Diseases of the ruminants of the ruminants.
5.	Diseases of the urinary and nervous	- Diseases of the urinary system. - Diseases of the hematopoietic system.

	system, hematopoiesis system.	- Diseases of the nervous system.
6.	Poisoning of animals, diseases of young animals, birds and fur animals.	- Poisoning. - Diseases of young animals. - Diseases of birds. - Diseases of fur animals.

5.2 Sections of the discipline and types of classes

No.	Section Name	Lectures	Practical exercises and laboratory work			IW	Assessment	Total
			PP/C	LR	of them in IF			
1	General therapy and prevention of internal non-communicable animal diseases.	8	6		2	7	3	24
2	Diseases, metabolism in animals.	6	6		4	8	3	23
3	Diseases of the cardiovascular and respiratory system.	6	8		5	7	3	24
4	Diseases of the digestive system, liver and biliary tract.	6	8		6	8	3	25
5	Diseases of the urinary and nervous system, hematopoiesis system.	6	6		3	8	3	23
6	Poisoning of animals, diseases of young animals, birds and fur animals.	8	6		4	8	3	25

6. Laboratory workshop

Not provided.

7. Practical classes (seminars)

No. p / p	Discipline section number	Name of laboratory work	Labor intensity (hour.)
1.	1.	- General prevention of vnb.	2
2.		- The basics of general therapy.	2
3.	2.	- Diseases caused by metabolic disorders.	2
4.		- Diseases caused by a violation of mineral metabolism and microelementosis .	2
5.		- Diseases caused by excess or deficiency of vitamins.	2
6.	3.	- Diseases of the cardiovascular system.	4
7.		- Diseases of the respiratory system.	3
8.	4.	- Diseases of the digestive system.	5

9.		- Diseases of forestomach of the ruminants.	3
10.	5.	- Diseases of the urinary system.	2
11.		- Diseases of the hematopoietic system.	2
12.		- Diseases of the nervous system.	3
13.	6.	- Poisoning.	2
14.		- Diseases of young animals.	2
15.		- Diseases of birds.	2
16.		- Diseases of fur animals.	2

8. Logistics

- Personal Computer.
- Multimedia equipment.

9. Inform Discount maintenance of discipline

a) Software

- Windows Enterprise
- Microsoft Office .
- Adobe Acrobat .

b) Databases, reference and search engines

1. www.cnshb.ru ,
2. www.elibrary.ru ,
3. www.vet.purdue.edu ,
4. www.allvet.ru ,
5. 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>
11. <https://cyberleninka.ru/>

10. Educational and methodological support of the discipline:

a) Main literature:

1. Internal diseases of animals [Electronic resource]: Textbook / G.G. Shcherbakov [et al.]. - SPb . : Publishing House "Lan", 2014. - 720 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1682-0. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465155&idb=0

b) Additional literature:

1. Clinical diagnosis of internal diseases of animals [Electronic resource]: Textbook / S.P. Kovalev [et al.]. - 2nd ed., Erased. - SPb . : Publishing House "Lan", 2016. - 544 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1607-3. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465083&idb=0

2. Clinical gastroenterology of animals [Electronic resource]: Textbook / II. Kalyuzhny [et al.]. - 2 nd ed. Ispra . - SPb . : Publishing House "Lan", 2015. - 448 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1813-8. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465124&idb=0
3. Petryankin F.P. Diseases of young animals [Electronic resource]: Textbook / F.P. Petryankin, O.Yu. Petrova. - 2nd ed., Revised . and add. - SPb . : Publishing House "Lan", 2014. - 352 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1606-6. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465182&idb=0
4. Workshop on internal diseases of animals [Electronic resource]: Textbook / G.G. Shcherbakov [et al.]; Under the total. ed. G.G. Shcherbakova, A.V. Yashina, A.P. Kurdeko , K.Kh. Murzagulova . - SPb . : Publishing House "Lan", 2016. - 544 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1999-9. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=465059&idb=0

11. Guidelines for students in the development of the discipline (module)

Not provided.

12. Fund of assessment tools for intermediate certification of students in discipline (module)

*Materials for assessing the level of mastering the educational material of the discipline "**Diagnosis of diseases and therapy of animals**" (evaluation materials), including a list of competencies indicating the stages of their formation, description of indicators and criteria for assessing competencies at various stages of their formation, description of assessment scales, standard control tasks or other materials necessary to assess knowledge, skills, skills and (or) experience of activity, characterizing the stages of the formation of competencies in the process of mastering the educational program, methodological materials that determine the procedures for assessing knowledge, skills, skills and (or) experience of activities that characterize the stages of formation competencies are developed in full and are available for students on the discipline page at TUIS RUDN.*

Department Director


_____ Vatnikov Yu.A.