Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Ястрефе der al State Autonomous Educational Institution for Higher Education PEOPLES' Должность: Ректор FRIENDSHIP UNIVERSITY OF RUSSIA

Дата подписания: 09.06.2022 17:00:36

Уникальный программный ключ:

ca953a0120d891083f939673078ef1a989dae18a Agrarian and Technological Institute

WORKING COURSE SYLLABUS

Internal diseases

Recommended by the Methodological Council for the Education Field:

36.05.01 Veterinary medicine

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "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 THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "Internal non-infectious diseases" 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 discipline (results of the development of the discipline)

Code	Competence	Indicators of competence accomplishment
	•	(within the discipline)
UK-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of action.	UK-1.1 Analyzes the task, highlighting its basic components; UK-1.2 Defines and ranks the information required to solve the task; UK -1.3 Searches for information to solve the task by various types of queries; UK-1.4 Offers solutions to the problem, analyzes the possible consequences of their use; UK -1.5 Analyzes the ways of solving problems of a philosophical, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural
UK -3	The ability to organize and manage the work of the team, developing a team strategy to achieve the goal.	context. UK-3.1 Defines his role in the team based on the strategy of cooperation to achieve the goal; UK-3.2 Formulates and takes into account in its activities the peculiarities of the behavior of groups of people, identified depending on the goal; UK-3.3 Analyzes the possible consequences of personal actions and plans his actions to achieve the desired result; UK-3.4 Exchanges information, knowledge and experience with team members; UK -3.5 Argues his point of view regarding the use of the ideas of other team members to achieve the goal;

		UK -3.6 Participates in team work on the execution of assignments.
UK -6	The ability to determine and implement the priorities of one's own activity and ways to improve it based on self-assessment and lifelong education.	UK-6.1 Controls the amount of time spent on specific activities; UK-6.2 Develops tools and methods of time management when performing specific tasks, projects, goals; UK -6.3 Analyzes its resources and their limits (personal, situational, temporary, etc.), for the successful completion of the task; UK -6.4 Finds and uses sources of additional information to increase the level of general and professional knowledge; UK -6.5 Analyzes the main opportunities and tools of continuing education in relation to their own interests and needs, taking into account the conditions, means, personal capabilities, stages of career growth, time prospects for the development of activities and the requirements of the labor market; UK -6.6 Defines the tasks of self-development, goals and priorities of professional growth; UK -6.7 Distributes tasks into long-, medium- and short-term ones with justification of relevance and analysis of resources for their implementation.
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socioeconomic, genetic and economic factors on the physiological state of the animal organism.	GPC-2.1 Has knowledge of the influence of natural, socio-economic, genetic and economic factors on the animal body. GPC-2.2 He is able to establish the presence and reliability of cause-and-effect relationships between the effects of certain etiological factors on the animal's body and the development of diseases. GPC-2.3 Possesses methods of preventive and curative correction of the effects of adverse environmental factors that can cause deterioration of animal health.
GPC -4	The ability to use methods of solving problems using modern equipment in the development of new technologies in professional activity and to use modern professional methodology for conducting experimental research and interpreting their results.	GPC-4.1 Possesses the conceptual and methodological apparatus of basic natural sciences at a level sufficient for full-fledged professional activity at the modern level. GPC-4.2 He knows the methods of solving problems using modern equipment. GPC-4.3 He is ready to use modern methodology in the development and conduct of experimental research.

		GPC-4.4 Uses modern professional methodology in interpreting research results.
GPC -5	The ability to draw up special documentation, analyze the results of professional activity and submit accounting documents using specialized databases.	GPC-5.1 Has the skills to search for the necessary forms of documentation on official websites and in specialized databases. GPC-5.2 Possesses professional terminology and skills in filling out analytical and reporting documents of a professional orientation. GPC-5.3 He is able to use specialized software to analyze the results of professional activity and compile accounting
GPC -6	The ability to analyze, identify and assess the risk of the risk of the occurrence and spread of diseases.	documentation. GPC-6.1 Has knowledge in the field of etiology and pathogenesis of animal diseases of different species. GPC-6.2 Has the skills to diagnose non-infectious, infectious and invasive diseases, identify pathogens of infectious and invasive diseases in animals. GPC-6.3 He knows the patterns of the occurrence and spread of diseases in animal
PC -1	The ability to collect anamnesis of life and disease of animals to	populations, factors predisposing to diseases and the causes of possible complications. PC -1.1 He is able to collect an anamnesis of the animal's life and reflect this in the relevant service documentation.
	identify the causes of diseases and their nature.	PC-1.2 He is able to collect the anamnesis of the animal's disease and reflect it in the patient's medical history. PC-1.3 He is able to identify possible causes of the disease in an animal, factors predisposing to the disease and concomitant conditions affecting the nature of the course of the disease and use this information when
PC -3	Ability to develop animal research programs using special (instrumental) and laboratory	making a diagnosis. PC-3.1 He is able to develop individual animal research programs, including the use
	(instrumental) and laboratory methods.	of special (instrumental) and laboratory methods to detect deviations from the physiological norm of the state of a living organism, conduct differential diagnosis of the detected pathology or control the course of the disease and the effectiveness of the prescribed treatment.

		PC-3.2 Capable of developing mass
		comprehensive animal research programs
		(medical examination programs) of animals,
		taking into account their type and purpose,
		both general and special.
PC -4	The ability to conduct clinical	PC-4.1 Able to conduct additional animal
	studies of animals using special	studies using laboratory methods to clarify
	(instrumental) and laboratory	the diagnosis.
	methods to clarify the	PC-4.2 Able to conduct additional animal
	diagnosis.	studies using special (instrumental) methods
		to clarify the diagnosis.
PC -5	The ability to make a diagnosis	PC-5.1 He is able to diagnose patients of
10-3	based on the analysis of	various types based on the analysis of
	anamnesis data, general, special	T =
	(instrumental) and laboratory	, , , , ,
	research methods.	(instrumental) and laboratory research methods.
	research methods.	
		PC -5.2 He is able to predict the risks of
		diseases based on anamnestic data, the
		results of general, special (instrumental) and
		laboratory studies.
PC -6	The ability to develop a	PC-6.1 Able to develop a treatment plan for
	treatment plan for animals	animals based on the established diagnosis
	based on the established	and individual characteristics of animals.
	diagnosis and individual	PC-6.2 He is able to develop
	characteristics of animals.	recommendations on therapeutic and
		preventive manipulations to prevent
		diseases, the high probability of which was
		revealed during the study of the patient.
		PC-6.3 He is able to develop
		recommendations for carrying out preventive
		and curative measures based on the results of
		the examination of animals carried out as
		part of the medical examination.
PC -7	The ability to choose the	PC -7.1 He is able to choose medicines of
	necessary drugs of chemical	chemical and biological nature necessary for
	and biological nature for the	the treatment of animals, guided by the
	treatment of animals, taking	principles of evidence-based medicine,
	into account their combined	taking into account their combined
	pharmacological effect on the	pharmacological effect on the body.
	body.	PC-7.2 He is able to justify the prescription
		of a drug in a certain clinical case or the
		impossibility of using this drug in the
		situation under consideration.
		PC-7.3 He is able to calculate the dose,
		frequency and duration of the course of
		application of the drug to the patient, taking
		into account the form of release and the
		into account the form of release and the

		characteristics of the administration of the
		drug to the patient.
		PC-7.4 He is able to take into account drug
		interactions when prescribing a course of
		treatment to an animal already receiving
		medications and biologically active additives
		due to the presence of diseases identified
		earlier.
		PC-7.5 He is able to take into account
		economic, species and age characteristics, as
		well as the results of laboratory studies of
		the patient when choosing drugs for the
		treatment of the patient.
PC -8	Ability to choose methods of	PC-8.1 He is able to choose and justify his
	non-drug therapy, including	choice of methods of non-drug therapy,
	physiotherapy methods for the	including physiotherapy methods, for the
	treatment of animals.	treatment of animals;
		PC-8.2 He is able to evaluate the
		effectiveness of the chosen method in the
		treatment of the patient and, if necessary,
		adjust the treatment method or change the
DC 12	41.11.	chosen method to another one.
PC -13	Ability to develop	PC-13.1 He is able to justify the appointment
	recommendations for special	of special feeding to an animal for
	feeding of sick animals for	therapeutic purposes in various diseases;
	therapeutic purposes.	PC-13.2 He is able to recommend the
		approximate composition of therapeutic
		diets, the desired ratio of nutrients, the
		presence of special additives and
		components that enhance the therapeutic effect of the diet;
		PC-13.3 He is able to use special programs
		and databases for the selection of industrial
		therapeutic diets and dietary supplements, as
		well as for the compilation of individual
		therapeutic diets for animals of various
		species.
PC -14	The ability to conduct repeated	PC-14.1 He is able to develop a plan of
	examinations and studies of	repeated studies necessary and sufficient to
	animals to assess the	assess the predicted changes in the patient's
	effectiveness and safety of the	health.
	prescribed treatment and adjust	PC-14.2 Able to conduct a repeated clinical
	the treatment plan of animals (if	examination, taking into account the
	necessary) based on the results	specifics of diseases previously diagnosed in
	of the evaluation of the	the patient.
	of the evaluation of the	the patient.

	effectiveness of treatment.	PC-14.3 Able to carry out the necessary repeated instrumental and laboratory tests.
		PC-14.4 He is able to analyze the identified changes, evaluate the effectiveness of the treatment and, if necessary, correct the prescribed course of treatment.
PC -16	Ability to organize organizational, technical, zootechnical and veterinary measures aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-communicable animal diseases	PC-16.1 He is able to assess the impact of animal housing and feeding conditions on their health as part of the implementation of action plans for the prevention of animal diseases PC-16.2 He is able to carry out veterinary quality control and procurement of animal feed in order to ensure their veterinary and sanitary safety as part of the implementation of action plans for the prevention of animal diseases PC-16.3 He is able to detect deviations from the plan of timing, types, quality of measures to prevent the occurrence of non-infectious animals PC-16.4 Take corrective measures to implement measures to prevent the occurrence of non-infectious animal diseases based on the results of control PC-16.5 Conduct conversations, lectures, seminars for employees of the organization
		in order to explain the principles of work on the prevention of animal diseases
PC -18	The ability to draw up a plan for the medical examination of animals, taking into account their types and purpose, to conduct medical examinations, to develop recommendations for carrying out preventive and curative measures based on the results of the examination of animals conducted as part of the medical examination	PC-18.1 He is able to make a plan for the medical examination of animals, general or specialized, taking into account their types and purpose PC-18.2 He is able to organize and conduct medical examination according to the drawn up plan PC-18.3 He is able, based on the results of medical examination, to give recommendations on the implementation of therapeutic and preventive and curative measures aimed at improving the health of a group of animals
PC -19	The ability to perform post- mortem diagnostic examination of animals in order to establish	PC-19.1 Able to conduct a general examination of animal corpses before autopsy.

	pathological processes, diseases, causes of death.	PC-19.2 He is capable of performing autopsy of animal corpses using special tools and compliance with safety requirements. PC -19.3 He is able to establish the cause of death and a pathoanatomic diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases. PC-19.4 He is able to formalize the results of a postmortem diagnostic examination of an animal in the autopsy protocol.
PC -20	Ability to develop an annual plan of antiepizootic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures.	PC-20.1 Able to conduct epizootological examination of the organization, territory. PC-20.2 He is able to develop an annual plan of antiepizootic and antiparasitic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures. PC-20.3 He is able to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them.
PC -23	The ability to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them.	PC-23.1 He is capable of collecting and analyzing information, including veterinary statistics data, necessary to assess the effectiveness of preventive antiepizootic measures, prevention of non-infectious animal diseases, veterinary and sanitary measures. PC-23.2 Able to evaluate the effectiveness of preventive measures and methods of their implementation, including using special software. PC -23.3 He is able to make suggestions on the correction of measures for the prevention of animal diseases on the basis of the analysis carried out.
PC -24	Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases.	PC-24.1 He is able to set goals in the field of veterinary knowledge promotion, plan the strategy and tactics of upcoming events. PC-24.2 He is able to use computer and telecommunication facilities for the preparation and demonstration of materials used in the process of promoting veterinary knowledge. PC-24.3 He is able to conduct conversations, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of

	animal diseases.

3. COURSE IN HIGHER EDUCATION

The discipline "Internal diseases" refers to the mandatory part of block B1 of 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 discipline "Internal diseases".

Table 3.1. List of Higher Education Program components disciplines that contribute to expected learning outcomes

Compet ence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
UK-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of action.	История Философия Безопасность жизнедеятельности Математика Основы экономики и менеджмента	Obstetrics, gynecology and andrology Private Veterinary surgery General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Veterinary deontology Fundamentals of intellectual work Zoopsychology Organization of state veterinary supervision Career Management

			Space technologies in the service of the agroindustrial complex
			Reconstructive and reconstructive surgery
UK -3	The ability to organize and manage the work of the team, developing a team strategy to achieve the goal.	Jurisprudence Life safety Fundamentals of rhetoric and communication Introduction to the specialty Fundamentals of Economics and Management Mathematics	Operative surgery with topographic anatomy Private Veterinary surgery General surgery Parasitology and invasive diseases
UK -6	The ability to determine and implement the priorities of one's own activity and ways to improve it based on self-assessment and lifelong education.	Philosophy Mathematics Introduction to the specialty	Private Veterinary surgery General surgery Epizootology and infectious diseases Organization of veterinary business Veterinary deontology Fundamentals of intellectual work Personality psychology and professional self- determination Career Management Fundamentals of social and legal knowledge Reconstructive and reconstructive surgery
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socio-	Biology with the basics of ecology Veterinary genetics Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of	

	economic, genetic and economic factors on the physiological state of the animal organism.	animals Breeding with the basics of private animal husbandry Forage plants Animal Health Immunology General and veterinary ecology Pathological anatomy Instrumental diagnostic methods Toxicology Pathological physiology Veterinary Radiobiology	diseases Epizootology and infectious diseases Forensic veterinary examination and autopsy of animals Veterinary sanitation Zoopsychology Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry
GPC -4	The ability to use methods of solving problems using modern equipment in the development of new technologies in professional activity and to use modern professional methodology for conducting experimental research and interpreting their results.	Computer science Instrumental diagnostic	Clinical diagnosis Obstetrics, gynecology and andrology General surgery Private Veterinary surgery General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary sanitation Technology of processing livestock products Fundamentals of intellectual work

		Personality psychology and professional self-determination Breeding with the basics of private animal husbandry Pathological physiology Medicinal and poisonous plants Forage plants Mathematics Veterinary Radiobiology Pathological anatomy Operative surgery with topographic anatomy Immunology	Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry
GPC -5	The ability to draw up special documentation, analyze the results of professional activity and submit accounting documents using specialized databases.	Veterinary genetics Computer science Breeding with the basics of private animal husbandry Clinical diagnosis Pathological anatomy Instrumental diagnostic methods Economics and organization of agricultural production Clinical laboratory diagnostics	Operative surgery with topographic anatomy Obstetrics, gynecology and andrology Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Forensic veterinary examination and autopsy of animals Veterinary deontology productions Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Veterinary and industrial laboratories with the basics of design Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology

			Nephrology
GPC -6	The ability to	Biology with the basics of	
	analyze, identify and	ecology	and andrology
	assess the risk of the	Life safety	Private Veterinary surgery
	risk of the	Instrumental diagnostic	General surgery
	occurrence and	methods	Parasitology and invasive
	spread of diseases.	Veterinary microbiology	diseases
		and mycology	Epizootology and
		Virology and	infectious diseases
		biotechnology	Veterinary and sanitary
		Animal health and	examination
		welfare	Organization of veterinary
		Feeding animals with the	business
		basics of feed production	Forensic veterinary
		Introduction to the	examination and autopsy
		specialty	of animals
		Medicinal and poisonous	Veterinary sanitation
		plants	Technology of processing
		Forage plants	livestock products
		Animal Health	Clinical laboratory
		General and veterinary	diagnostics
		ecology	Laboratory diagnostics of
		Veterinary Radiobiology	infectious and invasive
		Pathological anatomy	diseases
		Clinical diagnosis	Organization of state
		Toxicology	veterinary supervision
			Diseases of horses
			Diseases of productive
			animals
			Diseases of small pets
			Diseases of small pets
			Bee diseases and
			entomophages
			Fish pathology and
			aquaculture
			Diseases of exotic animals
			Anesthesiology, intensive
			care and intensive care
			Veterinary
			Ophthalmology
DC 1	The chility to collect	Votorinary constice	Animal Dentistry
PC -1	The ability to collect anamnesis of life	, ,	Clinical diagnosis
	and disease of	Physiology and ethology of animals	Obstetrics, gynecology
	and disease of animals to identify		and andrology Private Veterinary surgery
	the causes of	_	Private Veterinary surgery General surgery
	diseases and their	husbandry	Parasitology and invasive
	nature.	Animal health and	
	nature.	Anniai neatui and	uiscases

		16	E-:4-1
		welfare	Epizootology and
		Feeding animals with the	infectious diseases
		basics of feed production	Veterinary deontology
		Fundamentals of rhetoric	Zoopsychology
		and communication	Animal Health
		Toxicology	Personality psychology
			and professional self-
			determination
			Diseases of horses
			Diseases of productive
			animals
			Diseases of small pets
			Diseases of small pets Diseases of small pets
			Diseases of exotic animals
			Anesthesiology, intensive
			care and intensive care
			Dermatology
			Cardiology
			Endocrinology
			Nephrology
			Reconstructive and
			reconstructive surgery
			Veterinary
			Ophthalmology
			Animal Dentistry
PC -3	Ability to develop	Cytology, histology and	Obstetrics, gynecology
	animal research		and andrology
	programs using		Private Veterinary surgery
	special	Pathological anatomy	General surgery
	(instrumental) and		Parasitology and invasive
	laboratory methods.	Clinical laboratory	diseases
	idooratory interious.	diagnostics	Epizootology and
		diagnostics	infectious diseases
			Veterinary and sanitary
			examination
			Forensic veterinary
			examination and autopsy
			of animals
			Laboratory diagnostics of
			infectious and invasive
			diseases
			Diseases of horses
			Diseases of productive
			animals
			Diseases of small pets
			Bee diseases and
			entomophages
			Fish pathology and
			risii paulology allu

PC -4	The ability to conduct clinical studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis.	Animal anatomy Biological physics Cytology, histology and embryology Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Pathological physiology Pathological anatomy Instrumental diagnostic methods Clinical laboratory diagnostics	aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry Clinical diagnosis Obstetrics, gynecology and andrology Private Veterinary surgery General surgery Parasitology and invasive diseases Epizootology and infectious diseases Laboratory diagnostics of infectious and invasive diseases Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Veterinary
			Veterinary Ophthalmology Animal Dentistry
PC -5	The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods.	Cytology, histology and	Obstetrics, gynecology and andrology Private Veterinary surgery General surgery Parasitology and invasive diseases Epizootology and infectious diseases Forensic veterinary examination and autopsy of animals Zoopsychology

		m · 1	D: 01
		Toxicology	Diseases of horses
		Clinical diagnosis	Diseases of productive
			animals
			Diseases of small pets
			Diseases of small pets
			Bee diseases and
			entomophages
			Fish pathology and
			aquaculture
			Diseases of exotic animals
			Anesthesiology, intensive
			care and intensive care
			Dermatology
			Cardiology
			Endocrinology
			Nephrology Reconstructive and
			Reconstructive and
			reconstructive surgery
			Veterinary
			Ophthalmology
			Animal Dentistry
PC -6	The ability to	Veterinary genetics	Obstetrics, gynecology
	develop a treatment	Veterinary microbiology	and andrology
	plan for animals	and mycology	Private Veterinary surgery
	based on the	Virology and	General surgery
	established	biotechnology	Parasitology and invasive
	diagnosis and	Pathological physiology	diseases
	individual	Veterinary Pharmacology	Epizootology and
	characteristics of	Toxicology	infectious diseases
	animals.	Mathematics	Zoopsychology
		Immunology	Diseases of horses
			Diseases of productive
			animals
			Diseases of small pets
			Diseases of small pets
			Bee diseases and
			entomophages
			Fish pathology and
			aquaculture
			Diseases of exotic animals
			Anesthesiology, intensive
			care and intensive care
			Dermatology
			Cardiology
			Endocrinology
			Nephrology
			l
			reconstructive surgery

			Veterinary Ophthalmology Animal Dentistry
PC -7	The ability to choose the necessary drugs of chemical and biological nature for the treatment of animals, taking into account their combined pharmacological effect on the body.	Physical and colloidal	Parasitology and invasive diseases Epizootology and infectious diseases
PC -8	Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals.	Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Feeding animals with the basics of feed production Pathological physiology Veterinary Radiobiology	Private Veterinary surgery General surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and

			reconstructive surgery Veterinary Ophthalmology Animal Dentistry
PC -13	Ability to develop recommendations for special feeding of sick animals for therapeutic purposes.	Physiology and ethology of animals Feeding animals with the basics of feed production Pathological physiology Forage plants Medicinal and poisonous plants	Private Veterinary surgery General surgery Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology
PC -14	The ability to conduct repeated examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment and adjust the treatment plan of animals (if necessary) based on the results of the evaluation of the effectiveness of treatment.	methods	Obstetrics, gynecology and andrology Private Veterinary surgery General surgery Parasitology and invasive diseases Epizootology and infectious diseases Clinical laboratory diagnostics Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry
PC -16	Ability to organize organizational, technical,	Veterinary genetics Life safety Physiology and ethology	Animal health and welfare Obstetrics, gynecology and andrology
	zootechnical and	of animals	Private Veterinary surgery

	veterinary measures aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-communicable animal diseases	Breeding with the basics of private animal husbandry Feeding animals with the basics of feed production Fundamentals of Economics and Management Medicinal and poisonous plants Forage plants Animal Health	Organization of veterinary business Economics and organization of agricultural production Zoopsychology Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Veterinary Ophthalmology Animal Dentistry
PC -18	The ability to draw up a plan for the medical examination of animals, taking into account their types and purpose, to conduct medical examinations, to develop recommendations for carrying out preventive and curative measures based on the results of the examination of animals conducted as part of the medical examination	Physiology and ethology of animals Breeding with the basics of private animal husbandry Animal health and welfare Feeding animals with the basics of feed production Pathological physiology Animal Health Pathological anatomy Toxicology Veterinary	Obstetrics, gynecology and andrology Internal non-infectious diseases Private Veterinary surgery Clinical laboratory diagnostics Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry
PC -19	The ability to perform post-mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death.	Animal anatomy Cytology, histology and embryology Life safety Toxicology Pathological anatomy	Obstetrics, gynecology and andrology Private Veterinary surgery General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary

			examination
			Forensic veterinary
			examination and autopsy
			of animals
			Clinical laboratory
			diagnostics
			Laboratory diagnostics of
			infectious and invasive
			diseases
			Diseases of horses
			Diseases of productive
			animals
			Diseases of small pets
			Bee diseases and
			entomophages
			Fish pathology and
			aquaculture
			Diseases of exotic animals
			Dermatology
			Cardiology
			Endocrinology
			Nephrology
			Veterinary
			Ophthalmology
			Animal Dentistry
PC -20		Veterinary microbiology	
	an annual plan of		Private Veterinary surgery
	antiepizootic	of animals	General surgery
		Feeding animals with the	Parasitology and invasive
	_	basics of feed production	diseases
	non-infectious	Fundamentals of	Epizootology and
	animal diseases, a	Economics and	infectious diseases
	plan of veterinary	Management	Organization of veterinary
	and sanitary	Animal Health	business
	measures.		Veterinary sanitation
			Economics and
			organization of
			agricultural production
			Bee diseases and
			entomophages
			Fish pathology and
			aquaculture
PC -23	The ability to	Breeding with the basics	-
	analyze the	of private animal	Private Veterinary surgery
	effectiveness of		General surgery
		Toxicology	Parasitology and invasive
	prevention of animal		I
	diseases in order to		
<u> </u>	albeabes in order to	uiu	pizottologj ulid

	immorra tham	Managamant	infectious diseases
	improve them.	Management Animal Health	
		Allillai Healtii	Veterinary and sanitary examination
			Organization of veterinary business
			Forensic veterinary
			examination and autopsy
			of animals
			Veterinary sanitation
			Economics and
			organization of
			agricultural production
			Organization of state
			veterinary supervision
			Bee diseases and
			entomophages
			Fish pathology and
DC 24	A 1 '1', 1	DI 1 1 1 1	aquaculture
PC -24	Ability and	Physiology and ethology	Animal health and welfare
	willingness to	of animals	Obstetrics, gynecology
	promote veterinary	Breeding with the basics	and andrology
	knowledge,	of private animal	Private Veterinary surgery
	including in the field	husbandry	General surgery
	of prevention of	\mathcal{E}	Parasitology and invasive
	animal diseases.	basics of feed production	diseases
		Pathological physiology	Epizootology and
		Pathological anatomy	infectious diseases
		Toxicology Fundamentals of rhetoric	Veterinary sanitation
			Veterinary deontology
		and communication	Economics and
		Medicinal and poisonous	=
		plants Forego plants	agricultural production Diseases of horses
		Forage plants	
		Foreign language for	Diseases of productive animals
		special purposes Russian for special	
		1	Diseases of small pets Diseases of small pets
		purposes Foreign language.	Bee diseases and
		*	
		texts Introduction to the	1 0,
		Introduction to the specialty	aquaculture Diseases of exotic animals
		Russian language.	
		Translation of special	
		texts	Endocrinology
		Foreign language.	Nephrology
		Professional	Reconstructive and
		communications	
		communications	reconstructive surgery

Russian	language.	Veterinary
Professional		Ophthalmology
communication	S	Animal Dentistry
General and	veterinary	
ecology		
Animal Health		
Zoopsychology		

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "Internal diseases" is 6 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		Seme	esters	
			7	8	-	-
Contact academic hours		108	54	54	-	-
including						
Lectures		36	18	18	-	-
Lab work		72	36	36	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		82	74	8	-	-
Evaluation and assessment (exa	am/pass/fail	26	16	10	-	-
grading)						
	Academic	216	144	72	-	-
Course workload hour						
Course workload	Credit	6	4	2	_	-
	unit					

Table 4.2. Types of academic activities during the period of the HE program mastering for **part-time** study

Types of academic activities		HOURS		Seme	sters	
			7	8	-	-
Contact academic hours		72	36	36	-	-
including						
Lectures		36	18	18	-	-
Lab work		36	18	18	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		120	94	26	-	-
Evaluation and assessment (exa	am/pass/fail	24	14	10	-	-
grading)	_					
	Academic	216	144	72	-	-
hour						
Course workload	Credit	6	4	2	-	_
	unit					

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of academic work

Name of the	Content of the section (topics)	Types of academic
discipline section	m : 11 m : 1	activities
Section 1. General	Topic 1.1. Theoretical and	Lectures, Lab work.
therapy and	organizational foundations of prevention	
prevention.	and treatment of internal non-infectious	
	diseases.	
	Topic 1.2. Means and methods of	Lectures, Lab work.
	therapy. Therapeutic technique.	
	Topic 1.3. Physiotherapy.	Lectures, Lab work.
	Topic 1.4. Medical examination.	Lectures, Lab work.
Section 2. Private	Topic 2.1. Metabolic diseases.	Lectures, Lab work.
therapy and	Topic 2.2. Diseases of the respiratory	Lectures, Lab work.
prevention.	system.	
	Topic 2.3. Diseases of the cardiovascular	Lectures, Lab work.
	system.	
	Topic 2.4. Diseases of the	Lectures, Lab work.
	gastrointestinal tract.	
	Topic 2.5. Diseases of the central	Lectures, Lab work.
	nervous system.	
	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	Lectures, Lab work.
	animals.	

6. CLASSROOM INFRASTRUCTURE 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 discipline (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.	 Information stands. Instruments and devices of clinical veterinary medicine.

Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- Information stands Instruments and devices of clinical veterinary medicine.
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. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

- 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 Reading:

- 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.

Resources of the Internet information and telecommunication network:

- 1. Electronic library system of RUDN and third-party Electronic library systems to which university students have access on the basis of concluded contracts:
- Electronic library system of RUDN ELS RUDN http://lib.rudn.ru/MegaPro/Web
- ELS "University Library online"http://www.biblioclub.ru
- ELS Yurayt http://www.biblio-online.ru

- ELS "Student Consultant"www.studentlibrary.ru
- ELS "Lan"http://eZlanbook.com/
- ELS "Trinity Bridge"http://www.trmost.com/
- **2.** Databases and search engines:
- electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
- search engine Yandex https://www.yandex.ru/
- search engine Google https://www.google.ru/
- abstract database SCOPUS 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 discipline "Internal diseases".
- 2. Laboratory workshop on the discipline "Internal diseases".
- * All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the <u>Telecommunication educational and Information System!</u>

8. MID-TERM ASSESSMENT

DEVELOPER:

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "Internal diseases" are presented in the Appendix to this Work Program of the discipline.

* - Assessment Materials and a Point Rating System are formed based on the requirements of the relevant local regulatory act of the RUDN.

Associate Professor of the Department of Veterinary Medicine Semenova V. I. Position, Basic curriculum Signature Full name. **HEAD OF THE DEPARTMENT:** Department of Veterinary Medicine Vatnikov Yu.A. Signature Full name. HEAD OF THE HIGHER EDUCATION PROGRAM: Director of the Department of Veterinary Medicine Vatnikov Yu.A. Position, Basic curriculum Signature