Документ подписан простой электронной подписью Информация о владельце: ФИО: Ястребов Спат Алас State Autonomous Должность: Ректор Дата подписания: 09.06.2022 17:00:32 Уникальный программный ключ: са953a0120d891083f939673078ef1a989dae18a Каратана ала Technological Institute

WORKING COURSE SYLLABUS

Horse 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 "Horse diseases" is to provide students with theoretical and practical knowledge on general prevention and therapy, therapeutic techniques, etiology, pathogenesis, symptoms, diagnosis and treatment of diseases to which horses are susceptible.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Horse 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)
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socio- economic, 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 - 6	The ability to analyze, identify and assess the risk of the risk of the occurrence and spread of diseases.	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 populations, factors predisposing to diseases and the causes of possible complications.
PC -1	The ability to collect anamnesis of life and disease of animals to identify the causes of diseases and their nature.	 PC -1.1 He is able to collect an anamnesis of the animal's life and reflect this in the relevant service documentation. 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 in the disease and use
PC -3	Ability to develop animal research programs using special (instrumental) and laboratory methods.	this information when making a diagnosis. PC-3.1 He is able to develop individual animal research programs, including the use 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 studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis.	 PC-4.1 Able to conduct additional animal studies using laboratory methods to clarify the diagnosis. PC-4.2 Able to conduct additional animal studies using special (instrumental) methods to clarify the diagnosis.
PC -5	The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods.	PC-5.1 He is able to diagnose patients of various types based on the analysis of anamnesis data, general, special (instrumental) and laboratory 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 treatment plan for animals based on the established diagnosis and individual characteristics of	PC-6.1 Able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals.
	animals.	PC-6.2 He is able to develop 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 necessary drugs of chemical and biological nature for the treatment of animals, taking into account their combined pharmacological effect on the body.	 PC -7.1 He is able to choose medicines of chemical and biological nature necessary for the treatment of animals, guided by the principles of evidence-based medicine, taking into account their combined pharmacological effect on the 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 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 actionation.
PC -8	Ability to choose methods of non-drug therapy, including physiotherapy methods for the	treatment of the patient. PC-8.1 He is able to choose and justify his choice of methods of non-drug therapy, 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 chosen method to another one.
PC -9	The ability to carry out therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules.	 PC-9.1 Able to carry out therapeutic, including physiotherapy, procedures using special equipment in compliance with safety rules; PC -9.2 He is able to take into account the species, age and individual characteristics of animals undergoing treatment using special equipment, choose acceptable methods of fixing the patient during the procedure, the conditions of the procedures and their duration.
PC -10	The ability to determine the need for the use of surgical methods in the treatment of animals.	 PC-10.1 Able to determine the need for the use of surgical methods in the treatment of animals; PC-10.2 Able to choose the optimal surgical method for the patient, taking into account the external conditions and the status of the patient's body, and if necessary, several manipulations - their order and time distribution; PC-10.3 He is able to take into account the risks and possible complications and take measures to prevent them.
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.	 PC-14.1 He is able to develop a plan of repeated studies necessary and sufficient to assess the predicted changes in the patient's health. PC-14.2 Able to conduct a repeated clinical examination, taking into account the specifics of diseases previously diagnosed in the patient. 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	PC-16.1 He is able to assess the impact of
	organizational, technical,	animal housing and feeding conditions on

	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	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 pathological processes, diseases, causes of death.	PC-19.1 Able to conduct a general examination of animal corpses before autopsy. 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 -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 "**Horse diseases**" belongs to the part formed by the participants of educational relations of the 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 "Horse diseases".

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

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines
		()	(Modules)
GPC-2	The ability to interpret	Biology with the basics	Diseases of
	and evaluate in	of ecology	productive animals
	professional activity the	Veterinary genetics	Diseases of small pets
	influence of natural,	Veterinary	Diseases of small pets
	socio-economic,	microbiology and	Bee diseases and
	genetic and economic	mycology	entomophages
	factors on the	Virology and	Fish pathology and
	physiological state of	biotechnology	aquaculture
	the animal organism.	Physiology and	Diseases of exotic
		ethology of animals	animals
		Breeding with the	Anesthesiology,
		basics of private animal	intensive care and
		husbandry	intensive care
		Animal health and	Dermatology
		welfare	Cardiology

		D (1 1 1 1	
		Pathological	Endocrinology
		physiology	Nephrology
		Veterinary	Veterinary
		Radiobiology	Ophthalmology
		Pathological anatomy	Animal Dentistry
		Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-infectious	
		diseases	
		General surgery	
		Private Veterinary	
		surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Forensic veterinary	
		examination and	
		autopsy of animals	
		Immunology	
		General and veterinary	
		ecology	
		Veterinary sanitation	
		Forage plants	
		Zoopsychology	
		Animal Health	
GPC -4	The ability to use	Inorganic and	Diseases of
	methods of solving	analytical chemistry	productive animals
	problems using modern		Diseases of small
	equipment in the	Biological physics	pets
	development of new	Computer science	Diseases of small
	technologies in	Physical and colloidal	pets
	professional activity	chemistry	Bee diseases and
	and to use modern	Cytology, histology	entomophages
	professional	and embryology	Fish pathology
	methodology for	Biological chemistry	and aquaculture
	conducting	Veterinary	Diseases of exotic
	experimental research	microbiology and	animals
	and interpreting their	mycology	Anesthesiology,
	results.	Virology and	intensive care and
		biotechnology	intensive care
		Physiology and	Dermatology
		ethology of animals	Cardiology
		Breeding with the	Endocrinology
		basics of private animal	Nephrology
		busies of private annihilar	repilology

		hughonder	Deconstruction
		husbandry	Reconstructive
		Pathological	and reconstructive
		physiology	surgery
		Veterinary	Veterinary
		Radiobiology	Ophthalmology
		Clinical diagnosis	Animal Dentistry
		Pathological anatomy	
		Operative surgery with	
		topographic anatomy	
		Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-infectious	
		diseases	
		General surgery	
		Private Veterinary	
		•	
		surgery Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Mathematics	
		Immunology	
		Veterinary sanitation	
		Technology of	
		processing livestock	
		products	
		Medicinal and	
		poisonous plants	
		Forage plants	
		Fundamentals of	
		intellectual work	
		Personality psychology	
		and professional self-	
		determination	
		Clinical laboratory	
		diagnostics	
		Laboratory diagnostics	
		of infectious and	
		invasive diseases	
GPC -6	The ability to analyze,	Biology with the basics	Diseases of
	identify and assess the	of ecology	productive animals
	risk of the risk of the	Life safety	Diseases of small pets
	occurrence and spread	Veterinary	Diseases of small pets
	of diseases.	•	Bee diseases and
	01 (115) (15) (15) (15) (15) (15) (15) (1	microbiology and	
		mycology	entomophages

I		
	Virology and	Fish pathology and
	biotechnology	aquaculture
	Animal health and	Diseases of exotic
	welfare	animals
	Feeding animals with	Anesthesiology,
	the basics of feed	intensive care and
	production	intensive care
	Veterinary	Veterinary
	Radiobiology	Ophthalmology
	Clinical diagnosis	Animal Dentistry
	Pathological anatomy	
	Instrumental diagnostic	
	methods	
	Toxicology	
	Obstetrics, gynecology	
	and andrology	
	Internal non-infectious	
	diseases	
	General surgery	
	Private Veterinary	
	surgery	
	Parasitology and	
	invasive diseases	
	Epizootology and	
	infectious diseases	
	Veterinary and sanitary examination	
	Organization of veterinary business	
	Forensic veterinary	
	examination and	
	autopsy of animals	
	Introduction to the	
	specialty	
	General and veterinary	
	ecology	
	Veterinary sanitation	
	Technology of	
	processing livestock	
	products	
	Medicinal and	
	poisonous plants	
	Forage plants	
	Animal Health	
	Clinical laboratory	
	diagnostics	
	Laboratory diagnostics	
	of infectious and	

[]		:	
		invasive diseases	
		Organization of state	
		veterinary supervision	
PC -1	The ability to collect	Veterinary genetics	Diseases of
	anamnesis of life and	Physiology and	productive animals
	disease of animals to	ethology of animals	Diseases of small pets
	identify the causes of	Breeding with the	Diseases of small pets
	diseases and their	basics of private animal	Diseases of exotic
	nature.	husbandry	animals
		Animal health and	Anesthesiology,
		welfare	intensive care and
		Feeding animals with	intensive care
		the basics of feed	Dermatology
		production	Cardiology
		Clinical diagnosis	Endocrinology
		Toxicology	Nephrology
		Obstetrics, gynecology	Reconstructive and
		and andrology	reconstructive surgery
		Internal non-infectious	Veterinary
		diseases	Ophthalmology
		General surgery	Animal Dentistry
		Private Veterinary	
		surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Fundamentals of	
		rhetoric and	
		communication	
		Veterinary deontology	
		Zoopsychology	
		Animal Health	
		Personality psychology	
		and professional self-	
		determination	
PC -3	Ability to develop	Animal Anatomy	Diseases of
	animal research	Organic Chemistry	productive animals
	programs using special	Biological physics	Diseases of small pets
	(instrumental) and	Physical and colloidal	Diseases of small pets
	laboratory methods.	chemistry	Bee diseases and
	-	Biological chemistry	entomophages
		Veterinary	Fish pathology and
		microbiology and	aquaculture
		mycology	Diseases of exotic
		Virology and	animals
		biotechnology	Anesthesiology,
		Physiology and	intensive care and

	1		• . •]
		ethology of animals Pathological physiology Clinical diagnosis Pathological anatomy Instrumental diagnostic methods Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Epizootology and infectious diseases Immunology Veterinary deontology Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Veterinary and industrial laboratories with the basics of	intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry
PC -4	The ability to conduct clinical studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis.	design Animal anatomy Biological physics Cytology, histology and embryology Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Pathological physiology Clinical diagnosis Pathological anatomy Instrumental diagnostic methods	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 Ophthalmology Animal Dentistry

		01]
		Obstetrics, gynecology	
		and andrology	
		Internal non-infectious	
		diseases	
		General surgery	
		Private Veterinary	
		surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Clinical laboratory	
		diagnostics	
		Laboratory diagnostics	
		of infectious and	
	The electric 1	invasive diseases	Diseases of
PC -5	The ability to make a	Veterinary genetics	
	diagnosis based on the	Cytology, histology	productive animals
	analysis of anamnesis	and embryology	Diseases of small pets
	data, general, special	Physiology and	Diseases of small pets
	(instrumental) and	ethology of animals	Bee diseases and
	laboratory research	Breeding with the	entomophages
	methods.	basics of private animal	Fish pathology and
		husbandry	aquaculture
		Feeding animals with	Diseases of exotic
		the basics of feed	animals
		production	Anesthesiology,
		Pathological	intensive care and
		physiology	intensive care
		Clinical diagnosis	Dermatology
		Pathological anatomy	Cardiology
		Toxicology	Endocrinology
		Obstetrics, gynecology	Nephrology
		and andrology	Reconstructive and
		Internal non-infectious	reconstructive surgery
		diseases	Veterinary
		General surgery	Ophthalmology
		Private Veterinary	Animal Dentistry
		•	A miniar Dentistry
		surgery Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Forensic veterinary	
		examination and	
		autopsy of animals	
		Zoopsychology	

	The ability to develop -	Votorinomy consting	Diseases of
PC -6	The ability to develop a	Veterinary genetics	
	treatment plan for	Veterinary	productive animals
	animals based on the	microbiology and	Diseases of small pets
	established diagnosis	mycology	Diseases of small pets
	and individual	Virology and	Bee diseases and
	characteristics of	biotechnology	entomophages
	animals.	Pathological	Fish pathology and
		physiology	aquaculture
		Veterinary	Diseases of exotic
		Pharmacology	animals
		Toxicology	Anesthesiology,
		Obstetrics, gynecology	intensive care and
		and andrology	intensive care
		Internal non-infectious	Dermatology
		diseases	Cardiology
		General surgery	Endocrinology
		Private Veterinary	Nephrology
		surgery	Reconstructive and
		Parasitology and	reconstructive surgery
		invasive diseases	Veterinary
		Epizootology and	Ophthalmology
		infectious diseases	Animal Dentistry
		Mathematics	Annia Dentisti y
		Immunology Zaangyahalagy	
DC 7		Zoopsychology	Diseases of
PC -7	The ability to choose	Inorganic and	
	the necessary drugs of	analytical chemistry	productive animals
	chemical and biological	Organic Chemistry	Diseases of small pets
	nature for the treatment	Physical and colloidal	Diseases of small pets
	of animals, taking into	chemistry	Bee diseases and
	account their combined	Biological chemistry	entomophages
	pharmacological effect		Fish pathology and
	on the body.	microbiology and	aquaculture
		mycology	Diseases of exotic
		Virology and	animals
		biotechnology	Anesthesiology,
		Pathological	intensive care and
		physiology	intensive care
		Veterinary	Dermatology
		Pharmacology	Cardiology
		Toxicology	Endocrinology
		Obstetrics, gynecology	Nephrology
		and andrology	Veterinary
		Internal non-infectious	Ophthalmology
		diseases	Animal Dentistry
1			
			5
		General surgery	

		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Medicinal and	
		poisonous plants	
PC -8	Ability to choose	Veterinary	Diseases of
	methods of non-drug	microbiology and	productive animals
	therapy, including	mycology	Diseases of small pets
	physiotherapy methods	Virology and	Diseases of small pets
	for the treatment of	biotechnology	Diseases of exotic
	animals.	Physiology and	animals
		ethology of animals	Anesthesiology,
		Feeding animals with	intensive care and
		the basics of feed	intensive care
		production	Dermatology
		Pathological	Cardiology
		physiology	Endocrinology
		Veterinary	Nephrology
		Radiobiology	Reconstructive and
		Internal non-infectious	reconstructive surgery
		diseases	Veterinary
		General surgery	Ophthalmology
		Private Veterinary	Animal Dentistry
		surgery	7 miniar Dentistry
PC -9	The ability to carry out	Анатомия животных	Diseases of
10-9	therapeutic, including	Безопасность	productive animals
	physiotherapy	жизнедеятельности	Diseases of small pets
	procedures using	Ветеринарная	Diseases of small pets
	special equipment in	микробиология и	Diseases of smail pets Diseases of exotic
	compliance with safety	микроонология и	animals
	rules.	Вирусология и	Anesthesiology,
	Tutes.	биотехнология	intensive care and
		Физиология и	intensive care and
		ФИЗИОЛОГИЯ И ЭТОЛОГИЯ ЖИВОТНЫХ	Dermatology
		Патологическая	Cardiology
		физиология	Endocrinology
		Ветеринарная	Nephrology
		радиобиология	Reconstructive and
		-	
		Общая хирургия	reconstructive surgery
		Частная ветеринарная	Veterinary
		хирургия	Ophthalmology
D C 10			Animal Dentistry
PC -10	The ability to determine	Veterinary genetics	Diseases of
		Cytology, histology	productive animals
	the need for the use of		_
	surgical methods in the	and embryology	Diseases of small pets
			_

Γ	I	-	· · · · · · · · · · · · · · · · · · ·
		mycology	animals
		Physiology and	Dermatology
		ethology of animals	Cardiology
		Pathological	Endocrinology
		physiology	Nephrology
		Clinical diagnosis	Reconstructive and
		Pathological anatomy	reconstructive surgery
		Obstetrics, gynecology	Veterinary
		and andrology	Ophthalmology
		General surgery	Animal Dentistry
		Private Veterinary	
		surgery	
PC -14	The ability to conduct	Cytology, histology	Diseases of
	repeated examinations	and embryology	productive animals
	and studies of animals	Physiology and	Diseases of small pets
	to assess the	ethology of animals	Diseases of small pets
	effectiveness and safety	Pathological	Diseases of exotic
	of the prescribed	physiology	animals
	treatment and adjust the	Veterinary	Anesthesiology,
	treatment plan of	Pharmacology	intensive care and
	animals (if necessary)	Clinical diagnosis	intensive care
	based on the results of	Pathological anatomy	Dermatology
	the evaluation of the	Instrumental diagnostic	Cardiology
	effectiveness of	methods	Endocrinology
	treatment.	Toxicology	Nephrology
		Obstetrics, gynecology	Reconstructive and
		and andrology	reconstructive surgery
		Internal non-infectious	Veterinary
		diseases	Ophthalmology
		General surgery	Animal Dentistry
		Private Veterinary	
		surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Clinical laboratory	
PC -16	Ability to organiza	diagnostics	Diseases of
FC -10	Ability to organize	Veterinary genetics	
	organizational,	Life safety	productive animals
	technical, zootechnical	Physiology and	Diseases of small pets
	and veterinary	ethology of animals	Diseases of small pets
	measures aimed at the	Breeding with the	Bee diseases and
	prevention of non-	basics of private animal	entomophages
	communicable diseases	husbandry	Fish pathology and
	in accordance with the	Animal health and	aquaculture
	plan for the prevention	welfare Feeding animals with	Diseases of exotic
	of non-communicable		animals

	animal diagona	the basics of feed	Vatarinary
	animal diseases	the basics of feed	Veterinary
		production	Ophthalmology
		Obstetrics, gynecology	Animal Dentistry
		and andrology Internal non-infectious	
		diseases	
		General surgery	
		Private Veterinary	
		surgery	
		Organization of	
		veterinary business	
		Fundamentals of	
		Economics and	
		Management	
		Economics and	
		organization of	
		agricultural production	
		Medicinal and	
		poisonous plants	
		Forage plants	
		Zoopsychology	
D C 10	TT1 1'1'4 4 1	Animal Health	D: C
PC -18	The ability to draw up a	Veterinary genetics	Diseases of
	plan for the medical	Physiology and	productive animals
	examination of animals,	ethology of animals	Diseases of small pets
	taking into account	Breeding with the	Diseases of small pets
	their types and purpose,	basics of private animal	Diseases of exotic
	to conduct medical	husbandry	animals
	examinations, to	Animal health and	Dermatology
	develop	welfare	Cardiology
	recommendations for	Feeding animals with	Endocrinology
	carrying out preventive	the basics of feed	Nephrology
	and curative measures based on the results of	production Pathological	Veterinary
		U	Ophthalmology Stomatology bally
		physiology Votoringry	Stomatology belly
		Veterinary	
	part of the medical examination	Pharmacology	
	CAAIIIIIIatioii	Clinical diagnosis	
		Pathological anatomy Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-infectious	
		diseases	
		General surgery	
		Private Veterinary	

		surgery Animal Health Clinical laboratory diagnostics	
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 Pathological anatomy Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary 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 productive animals Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Veterinary Ophthalmology Animal Dentistry
PC -24	Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases.	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 Pathological anatomy Toxicology Obstetrics, gynecology and andrology Internal non-infectious	Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Nephrology Reconstructive and reconstructive surgery Veterinary

diseases	Ophthalmology
General surgery	Animal Dentistry
Private Veterinary	Foreign language for
surgery	special purposes
Parasitology and	Russian for special
invasive diseases	purposes
Epizootology and	Foreign language.
infectious diseases	Translation of special
Fundamentals of	texts
rhetoric and	Russian language.
communication	Translation of special
Introduction to the	texts
specialty	Foreign language.
General and veterinary	Professional
ecology	communications
Veterinary sanitation	Russian language.
Veterinary deontology	Professional
Economics and	communications
organization of	
agricultural production	
Medicinal and	
poisonous plants	
Forage plants	
Zoopsychology	
Animal Health	
7 miniar freditir	

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "Horse 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			
Types of academic activitie	5		9	-	-	-
Contact academic hours		36	36	-	-	-
including						
Lectures		18	18	-	-	-
Lab work	18	18			-	
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		60	60	-	-	-
Evaluation and assessment (exa grading)	am/pass/fail	12	12	-	-	-
Course workload	Academic hour	108	108	-	-	-
Course workload	Credit unit	3	3	-	-	-

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	esters	
i ypes of academic activitie	-5		Α	-	-	-
Contact academic hours		18	18	-	-	-
including						
Lectures		-	-	-	-	-
Lab work		18	18	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		80	80	-	-	-
Evaluation and assessment (ex	am/pass/fail	10	10	-	-	-
grading)						
	Academic	108	108	-	-	-
Course workload						
Course workloau	Credit	3	3	-	-	-
	unit					

5. CONTENT OF THE DISCIPLINE

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

Name of the discipline section	Content of the section (topics)	Types of academic activities
Section 1. Introduction. Morphofunctional	Topic 1.1. Introduction to equestrian veterinary medicine.	Lectures, Lab work.
features of ungulates	Topic 1.2 Fundamentals of anatomy and physiology of horses	Lectures, Lab work.
Section 2. Pathological processes of the	Topic 2.1. Pathology of the oral cavity.	Lectures, Lab work.
gastrointestinal tract	Topic 2.2. Diseases of the stomach and intestines.	Lectures, Lab work.
	Topic 2.3 The essence of colic syndrome	Lectures, Lab work.
Section 3. Pathology of the musculoskeletal	Topic 3.1. Bursitis	Lectures, Lab work.
system.	Topic 3.2. Arthritis	Lectures, Lab work.
	Topic 3.3. Tendovaginitis.	Lectures, Lab work.
	Topic 3.4. Laminates	Lectures, Lab work.
Section 4. Diseases of the maxillofacial and	Topic 4.1. Maxillofacial pathology.	Lectures, Lab work.
respiratory organs	Topic 4.2. Diseases of the nasal sinuses and teeth.	Lectures, Lab work.

	Topic 4.3. Ophthalmology.	Lectures, Lab work.
	Topic 4.4. Pathology of the respiratory apparatus	Lectures, Lab work.
measures for various	Topic 5.1. Additional and special research methods.	Lectures, Lab work.
pathology of horses	Topic 5.2. Documentation for animal management. Medical history.	Lectures, Lab work.

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.	_
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. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

- Clinical orthopedics and horse forging: a textbook / E.I. Veremey, V.M. Rukol, V.A. Zhurba [et al.]; edited by E.I. Veremey. - Electronic text data. - St. Petersburg : Quadro, 2020. - 268 p.
- Horses. Biological foundations. Using. Vices. Diseases : textbook / A.A. Stekolnikov, G.G. Shcherbakov, A.V. Yashin [et al.]. - St. Petersburg : Publishing House "Lan", 2016. - 576 p.

Additional Reading:

- Horses. Biological foundations. Using. Vices. Diseases : textbook / A.A. Stekolnikov, G.G. Shcherbakov, A.V. Yashin [et al.]. - St. Petersburg : Publishing House "Lan", 2016. - 576 p.
- 4. Maintenance, feeding and diseases of horses: a textbook / A.A. Stekolnikov, A.F. Kuznetsov, A.V. Vil [et al.] ; Edited by A.A. Stekolnikov. St. Petersburg : Publishing House "Lan", 2007. 624 p.
- 5. Horse breeding: hygiene of keeping, reproduction and feeding of horses : a textbook / A.F. Kuznetsov, V.G. Tyurin, V.G. Semenov [et al.] ; edited by A.F. Kuznetsov. Electronic text data. St. Petersburg : Quadro, 2018. 448 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"<u>www.studentlibrary.ru</u>
- ELS "Lan"<u>http://eZlanbook.com/</u>
- ELS "Trinity Bridge"<u>http://www.trmost.com/</u>
- 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 "Horse diseases".
- 2. Laboratory workshop on the discipline "Horse 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

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 "**Horse 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.

DEVELOPER:

Associate Professor of the Department of Veterinary

Medicine Position, Basic curriculum

Signature

Dinchenko O.I. Full name.

HEAD OF THE DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Signature

HEAD OF THE HIGHER EDUCATION PROGRAM:

Director of the Department of Veterinary Medicine Position, Basic curriculum

Vatnikov Yu.A. Full name

Vatnikov Yu.A.

Full name.