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PRACTICE SYLLABUS

Medical and Industrial Practice

Undergraduate practice

Recommended by the Methodological Council for the Education Field for Higher Education Field/ Specialization:

36.05.01. Veterinary

Practical training of students is carried out as part of the implementation of the main professional educational program of higher education (the Higher Education Program):

2022 year

1. AIM OF THE PRACTICE

The purpose of the "**Medical and Industrial Practice**" is the comprehensive formation of general cultural (universal) and professional competencies of students, both within the framework of the main program and in the field of specialization, the motivation of the individual for self-development, improving their qualifications and skills, developing the skill to find organizational and managerial solutions in non-standard situations and willingness to bear responsibility for them.

2. REQUIREMENTS FOR LEARNING OUTCOMES OF THE PRACTICE

Conducting "Medical and Industrial Practice" is aimed at developing students' competencies (parts of competencies):

Table 2.1. The list of competencies formed by students during practice (learning outcomes based on the results of practice)

Code	Competence	Competence achievement indicators
		(within this practice)
UC-1	The ability to carry out a critical analysis of problem situations	UC-1.1 Analyzes the task, highlighting its basic components
	based on a systematic approach,	UC-1.2 Determines and ranks the information required to solve the task
	to develop an action strategy	UC-1.3 Searches for information to solve the task
		for various types of requests
		UC-1.4 Offers options for solving the problem, analyzes the possible consequences of their use
		UC-1.5 Analyzes ways to solve problems of an ideological, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural context
UC-2	Ability to manage a project at all stages of its life cycle	UC-2.1 Formulates a problem, the solution of which is directly related to the achievement of the project goal
		UC-2.2 Determines the links between the tasks set and the expected results of their solution
		UC-2.3 Within the framework of the tasks set, determines the available resources and restrictions, the current legal norms
		UC-2.4 Analyzes the schedule for the
		implementation of the project as a whole and chooses the best way to solve the tasks, based on
		the current legal regulations and available resources and restrictions
		UC-2.5 Controls the progress of the project, adjusts the schedule in accordance with the results of control
UC-3	Ability to organize and manage the	UC-3.1 Determines his role in the team, based on
	work of a team, developing a team strategy to achieve the goal	the strategy of cooperation to achieve the goal UC-3.2 Formulates and takes into account in its
	strategy to achieve the goal	activities the behavioral characteristics of groups
		of people identified depending on the goal

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		UC-5.6 Adheres to the principles of non-
		discriminatory interaction in personal and mass communication in order to fulfill professional
		tasks and strengthen social integration
UC-6	The ability to determine and	UC-6.1 Controls the amount of time spent on
00-0	implement the priorities of one's own	specific activities
	activity and ways to improve it based	UC-6.2 Develops tools and methods for time
	on self-assessment and lifelong	management when performing specific tasks,
	learning	projects, goals
	louining	UC-6.3 Analyzes its resources and their limits
		(personal, situational, temporary, etc.) for the
		successful completion of the task
		UC-6.4 Finds and uses sources of additional
		information to increase the level of general and
		professional knowledge
		UC-6.5 Analyzes the main opportunities and
		tools of lifelong education in relation to their own
		interests and needs, taking into account the
		conditions, means, personal opportunities, stages
		of career growth, time perspective for the
		development of activities and labor market
		requirements
		UC-6.6 Defines the tasks of self-development,
		goals and priorities of professional growth
		UC-6.7 Distributes tasks into long-, medium- and
		short-term ones with justification of relevance
		and analysis of resources for their
		implementation
UC-7	The ability to maintain the proper	UC-7.1 Selects health-saving technologies to
	level of physical fitness to ensure	maintain a healthy lifestyle, taking into account
	full-fledged social and professional	the physiological characteristics of the body;
	activities	UC-7.2 Plans his working and free time for the
		optimal combination of physical and mental
		stress and ensuring efficiency;
		UC-7.3 Observes and promotes the norms of a
		healthy lifestyle in various life situations and in
		professional activities.
UC-8	The ability to create and maintain	UC-8.1 Analyzes the factors of harmful influence
	safe living conditions in everyday	on the life of the elements of the environment
	life and in professional activities to	(technical means, technological processes,
	preserve the natural environment,	materials, buildings and structures, natural and
	ensure the sustainable development	social phenomena)
	of society, including in the event of a threat and the occurrence of	UC-8.2 Identifies hazardous and harmful factors
	emergencies and military conflicts	within the framework of the task being
	emergencies and minuary commets	performed
		UC-8.3 Identifies and eliminates problems
		associated with safety violations in the workplace UC-8.4 Explains measures to prevent emergency
		situations
		UC-8.5 Clarifies the rules of conduct in the event
		of emergencies of natural and man-made origin,
		as well as in the event of military conflicts
		UC-8.6 Provides first aid, participates in
		recovery activities
UC-10		UC-10.1 Understands the basic principles of the
00-10		functioning of the economy and economic

	The ability to make informed economic decisions in various areas of life	development, the goals of the form of state participation in the economy; UC-10.2 Applies methods of personal economic and financial planning to achieve current and long-term financial goals; UC-10.3 Uses financial instruments to manage personal finances (personal budget), controls their own economic and financial risks.
UC-12	The ability to search for the necessary sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data obtained from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data.	UC-12.1 Searches for the necessary sources of information and data, perceives, analyzes, memorizes and transmits information using digital means, as well as using algorithms when working with data received from various sources in order to effectively use the information received to solve problems UC-12.2 Evaluates information, its reliability, builds logical conclusions based on incoming information and data.
GPC-1	The ability to determine the biological status and normative clinical indicators of organs and systems of the animal body.	 GPC-1.1 Knows the structure and functions of the main systems of the animal body, taking into account species characteristics GPC-1.2 Capable of predicting the expected violations of the biological status in case of suspected development of diseases GPC-1.3 Is able to determine the main indicators of the activity of individual body systems and draw conclusions about the presence of deviations from the normative values GPC-1.4 Skilled in taking samples of biological fluids and tissues for research, performing laboratory tests, interpreting research results.
GPC-2	The ability to interpret and evaluate in professional activities the impact on the physiological state of the animal organism of natural, socio- economic, genetic and economic factors.	GPC-2.1 Has knowledge of the impact of natural, socio-economic, genetic and economic factors on the animal body GPC-2.2 Able to establish the presence and reliability of causal relationships between the impact of individual etiological factors on the animal's body and the development of diseases GPC-2.3 Owns methods of preventive and therapeutic correction of the impact of adverse environmental factors that can cause a deterioration in animal health
GPC-4	The ability to use in professional activities methods of solving problems using modern equipment in the development of new technologies and use modern professional methodology to conduct experimental studies and interpret their results.	 GPC-4.1 Owns the conceptual and methodological apparatus of the basic natural sciences at a level sufficient for full-fledged professional activity at the modern level GPC-4.2 Owns methods for solving problems using modern equipment GPC-4.3 Ready to use modern methodology in the development and conduct of experimental studies

		GPC-4.4 Uses modern professional methodology
		when interpreting research results
GPC-5	The ability to draw up special documentation, analyze the results of	GPC-5.1 Has the skills to search for the necessary forms of documentation on official
	professional activities and submit	websites and specialized databases
	reporting documents using specialized databases.	GPC-5.2 Proficient in professional terminology and skills in filling out analytical and reporting
	1	documents of a professional nature
		GPC-5.3 Able to use specialized software for
		analyzing the results of professional activities
		and compiling reporting documentation
GPC-6	The ability to analyze, identify and carry out risk assessment of the risk	GPC-6.1 Has knowledge in the field of etiology and pathogenesis of animal diseases of different
	of occurrence and spread of diseases.	species
		GPC-6.2 Has the skills to diagnose non-
		contagious, infectious and parasitic diseases,
		identify pathogens of infectious and parasitic
		diseases in animals
		GPC-6.3 Knows the patterns of occurrence and
		spread of diseases in animal populations, factors
		predisposing to diseases and causes of possible
GPC-7	Able to understand the arrival start	complications
UPC-/	Able to understand the principles of operation of modern information	GPC-7.1 Understands the principles of operation of modern computer equipment and
	technologies and use them to solve	telecommunications and knows how to use them
	problems of professional activity.	to solve professional problems
	problems of professional activity.	GPC-7.2 Uses modern special software and
		specialized databases to solve professional
		problems and perform job duties
		GPC-7.3 Has the skills to work on modern
		medical diagnostic and treatment equipment with
		software
		GPC-7.4 Uses specialized databases to solve
		professional problems in the field of diagnostics
		and treatment of animals of various species
		GPC-7.5 Uses geographic information systems
		and software systems in the collection and
		analysis of information related to the assessment
		of the spread of infectious diseases, epizootic
		situations, planning and evaluating the
DC 1	The chility to collect on an annual of	effectiveness of anti-epizootic measures
PC-1	The ability to collect an anamnesis of the life and disease of animals to	PC-1.1 Able to collect an anamnesis of the animal's life and reflect this in the relevant
	identify the causes of diseases and	service documentation
	their nature	PC-1.2 Able to collect anamnesis of the animal's
		disease and reflect it in the patient's medical
		history
		PC-1.3 Able to identify possible causes of
		disease in an animal, factors predisposing to the
		disease and concomitant conditions that affect
		the nature of the course of the disease and use this
		I UIC HALUIC OF LIC COURSE OF LIC UISEASE AND USE THIS
PC-2	Ability to conduct a general clinical	information when making a diagnosis
PC-2	Ability to conduct a general clinical study of animals in order to establish	information when making a diagnosis PC-2.1 Able to conduct a general clinical study
PC-2	Ability to conduct a general clinical study of animals in order to establish a preliminary diagnosis and	information when making a diagnosis

	program, as well as in accordance with the plan of anti-epizootic measures, the plan for the prevention of non-communicable animal diseases	PC-2.2 Able to conduct mass clinical trials of animals in accordance with the plan of anti- epizootic measures, the plan for the prevention of non-communicable animal diseases
PC-3	Ability to develop animal research programs using special (instrumental) and laboratory methods	 PC-3.1 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 identified pathology or control the course of the disease and the effectiveness of the prescribed treatment PC-3.2 Able to develop mass comprehensive animal research programs (medical examination programs) of animals, taking into account their type and purpose, both general and special
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 Able to diagnose patients of various types based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods PC-5.2 Able to predict the risks of diseases on the basis of anamnestic data, the results of general, special (instrumental) and laboratory studies
PC-6	Ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals	 PC-6.1 Able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals PC-6.2 Able to develop recommendations for therapeutic and prophylactic manipulations to prevent diseases, the high probability of which was revealed during the study of the patient PC-6.3 Able to develop recommendations for the implementation of preventive and therapeutic and therapeutic measures based on the results of animal examinations conducted as part of medical examination
PC-7	The ability to select the necessary drugs of a chemical and biological nature for the treatment of animals, taking into account their cumulative pharmacological effect on the body	 PC-7.1 Able to select drugs of a chemical and biological nature necessary for the treatment of animals, guided by the principles of evidence-based medicine, taking into account their cumulative pharmacological effects on the body PC-7.2 Able to justify the prescription of a drug in a specific clinical case or the impossibility of using this drug in the situation under consideration PC-7.3 Able to calculate the dose, frequency and duration of the course of drug administration 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 Able to take into account drug interactions when prescribing a course of treatment to an animal already receiving drugs and dietary supplements due to the presence of previously identified diseases

		PC-7.5 Able to take into account economic, species and age characteristics, as well as the results of laboratory tests of the patient when choosing drugs for the treatment of the patient
PC-8	Ability to choose methods of non- drug therapy, including physiotherapy methods for the treatment of animals	 PC-8.1 Able to choose and justify his choice of methods of non-drug therapy, including physiotherapy methods, for the treatment of animals PC-8.2 Able to assess the effectiveness of the provident dependence of the relation to the second dependence of th
		selected method in treating the patient and, if necessary, adjust the treatment method or change the selected method to another
PC-9	The ability to conduct medical, including physiotherapy procedures using special equipment in compliance with safety rules	PC-9.1 Able to carry out medical, including physiotherapy, procedures using special equipment in compliance with safety rules PC-9.2 Able to take into account the species, age and individual characteristics of animals
		undergoing treatment using special equipment, to choose acceptable methods of fixing the patient during the procedure, the conditions for 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 external conditions and the status of the patient's body, and, if necessary, several manipulations - their order and timing PC-10.3 Able to take into account the risks and possible complications accompanying surgical
PC-11	Ability to develop a plan for the surgical operation, including the	interventions and take measures to prevent them PC-11.1 Able to develop a plan for a surgical operation
	choice of method of anesthesia	PC-11.2 Able to choose and justify the best option for patient anesthesia during surgery and in the postoperative period
PC-12	The ability to conduct surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes	 PC-12.1 Able to prepare the room, equipment and consumables necessary for the surgical intervention, taking into account the requirements of asepsis and antisepsis PC-12.2 Able to prepare the operating team for surgical intervention, taking into account the requirements of asepsis and antisepsis PC-12.3 Able to prepare a patient for a surgical intervention, taking into account the requirements of asepsis and antisepsis
		requirements of asepsis and antisepsisPC-12.4 Able to assist the operating surgeon during surgical interventionsPC-12.5 Able to carry out preventive and
		economic operations (including castration, dehorning, etc.) in farm animals and companion animals PC-12.6 Able to independently perform diagnostic and therapeutic operations in animals
		diagnostic and therapeutic operations in animals of different species, taking into account the

		species, age and individual characteristics of patients
PC-13	Ability to develop recommendations for special feeding of sick animals for therapeutic purposes	 PC-13.1 Able to justify the appointment of special feeding for an animal with a therapeutic purpose for various diseases PC-13.2 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 Able to use special programs and databases for the selection of industrial therapeutic diets and dietary supplements, as well as for the preparation of individual therapeutic diets for animals of various species
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 for animals (if necessary) based on the results of evaluating the effectiveness of treatment	PC-14.1 Able to develop a plan for repeatedstudies necessary and sufficient to assesspredicted changes in the patient's health statusPC-14.2 Able to conduct a repeated clinicalexamination, taking into account the specifics ofdiseases previously diagnosed in a patientPC-14.3 Able to conduct the necessary repeatedinstrumental and laboratory studiesPC-14.4 Able to analyze the identified changes,evaluate the effectiveness of the treatment and, ifnecessary, correct the prescribed course oftreatment.
PC-15	Ability to organize prophylactic immunizations (vaccinations), therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures	 PC-15.1 Able to draw up individual and group plans for preventive immunizations (vaccinations) taking into account the epizootic situation in the territory where the animals are staying, the plan of anti-epizootic measures, as well as state and regional veterinary and sanitary rules and requirements PC-15.2 Able to organize therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures, and also, if necessary, taking into account the real epizootic situation in the conditions of agricultural production
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 Able to assess the impact of the conditions of keeping and feeding animals on their health status as part of the implementation of action plans for the prevention of animal diseases PC-16.2 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 Able to detect deviations from the plan of terms, types, quality of measures to prevent the emergence of non-infectious animals PC-16.4 Take corrective measures to implement measures to prevent the occurrence of non-infectious animals

PC-17	Ability to organize disinfection and disinfestation of livestock buildings to ensure veterinary and sanitary well-being in accordance with the plan of veterinary and sanitary measures	communicable 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-17.1 Capable of collecting and analyzing information necessary for organizing and planning veterinary and sanitary measures PC-17.2 Is able to select the optimal equipment, consumables, and medicinal and disinfectant preparations necessary and safe enough for the conduct of veterinary and sanitary measures PC-17.3 Able to determine the procedure for disinfection, disinfestation, deratization and other veterinary and sanitary measures, taking into account the peculiarities of keeping animals, the technical characteristics of the premises and the epizootic situation PC-17.4 Capable of monitoring the results of veterinary and sanitary measures
PC-18	The ability to draw up a plan for the medical examination of animals, taking into account their species and purpose, to conduct medical examinations, to develop recommendations for conducting preventive and therapeutic and therapeutic measures based on the results of an examination of animals conducted as part of the medical examination	PC-18.1 Able to draw up a plan for the medical examination of animals, general or specialized, taking into account their types and purposePC-18.2 Able to organize and conduct medical examinations according to the planPC-18.3 Able, based on the results of medical examination, to give recommendations on the implementation of preventive and therapeutic and therapeutic measures aimed at improving the health of a group of animals
PC-19	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 Capable of performing an autopsy of animal corpses using special tools and observing safety requirements PC-19.3 Able to establish the cause of death and pathoanatomical diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases PC-19.4 Able to document the results of the postmortem diagnostic examination of the animal in the autopsy protocol
PC-20	Ability to develop an annual plan for anti-epizootic measures, a plan for the prevention of non-communicable animal diseases, a plan for veterinary and sanitary measures	PC-20.1 Able to conduct an epizootological survey of an organization, territory PC-20.2 Able to develop an annual plan for anti- epizootic and anti-parasitic measures, a plan for the prevention of non-communicable animal diseases, a plan for veterinary and sanitary measures PC-20.3 Is able to analyze the effectiveness of animal disease prevention measures in order to improve them

PC-21	Ability to conduct inspections of the veterinary and sanitary condition and microclimate of livestock buildings in accordance with the plan for anti- epizootic measures, the plan for the prevention of non-communicable animal diseases, the plan for veterinary and sanitary measures	 PC-21.1 Able to detect deviations in the microclimate parameters in livestock buildings from the normative PC-21.2 Able to detect violations of the veterinary and sanitary condition of livestock buildings, determine their cause and possible consequences PC-21.3 Able to use the information obtained from checking the veterinary and sanitary condition and the microclimate of livestock buildings for risk analysis of non-communicable, infectious and parasitic diseases
PC-22	Ability to organize measures to protect the organization from the introduction of infectious and parasitic diseases in accordance with the plan of anti-epizootic measures	 PC-22.1 Able to assess the epizootic state of an organization (territory), identify risks and possible causes of epizootic foci, as well as factors affecting their spread in specific organizations, territories PC-22.2 Able to choose and apply the most effective measures to protect the organization from the introduction of infectious and parasitic diseases PC-22.3 Able to carry out operational monitoring of the effectiveness of ongoing activities
PC-23	Ability to analyze the effectiveness of animal disease prevention measures in order to improve them	PC-23.1 Capable of collecting and analyzing information, including veterinary statistics, necessary to assess the effectiveness of preventive anti-epizootic measures, prevention of non-communicable animal diseases, veterinary and sanitary measures PC-23.2 Able to evaluate the effectiveness of preventive measures taken and methods for their implementation, incl. using special software PC-23.3 Is able, based on the analysis, to make proposals for correcting measures for the prevention of animal diseases
PC-24	Ability and willingness to promote veterinary knowledge, including in the field of animal disease prevention	PC-24.1 Able to set goals in the field of promotion of veterinary knowledge, plan the strategy and tactics of upcoming events PC-24.2 Able to use computer and telecommunication facilities for the preparation and demonstration of materials used in the process of promotion of veterinary knowledge PC-24.3 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. PLACE OF PRACTICE IN THE STRUCTURE OF THE HIGHER EDUCATION PROGRAM

"Medical and Industrial Practice" refers to the part formed by the participants in educational relations.

As part of the Higher Education Program, students also master disciplines and / or other practices that contribute to the achievement of the planned learning outcomes based on the results of passing the "**Medical and Industrial Practice**".

Code	Competence	Previous disciplines/modules,	Subsequent disciplines/modules,
		practices	practices
UC-1	The ability to carry out a critical analysis of problem	History Philosophy	-
	situations based on a	Life safety	
	systematic approach, to	Obstetrics, gynecology	
	develop an action strategy	and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and invasive diseases	
		Epizootology and infectious diseases	
		Veterinary and sanitary	
		examination	
		Organization of	
		veterinary business	
		Maths	
		Fundamentals of	
		Economics and	
		Management	
		Veterinary deontology	
		Fundamentals of intellectual labor	
		Zoopsychology	
		Organization of state	
		veterinary supervision	
		Career Management	
		Space technologies in	
		the service of the agro-	
		industrial complex	
		Reconstructive surgery	
UC-2	Ability to manage a project at	Philosophy	-
	all stages of its life cycle	Organization of	
		veterinary business	
		Maths Introduction to the	
		Introduction to the specialty	
		Fundamentals of	
		Economics and	
		Management	

Table 3.1. The list of components of the Higher Education Program that contribute to the achievement of the planned learning outcomes based on the results of the practice

		Veterinary deontology	
		Economics and	
		organization of	
		agricultural production	
		Fundamentals of	
		intellectual work	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Veterinary and	
		manufacturing	
		laboratories with design	
		-	
		basics	
		Career Management	
		Space technologies in	
		the service of the agro-	
		industrial complex	
UC-3	Ability to organize and	1	-
	manage the work of a team,	Life safety	
	developing a team strategy to	Operative surgery with	
	achieve the goal	topographic anatomy	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Organization of	
		veterinary business	
		Maths	
		Fundamentals of	
		Rhetoric and	
		Communication	
		Introduction to the	
		specialty	
		Fundamentals of	
		Economics and	
		Management	
		Veterinary sanitation	
		Veterinary deontology	
		Fundamentals of	
		intellectual labor	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Fundamentals of social	
		and legal knowledge	

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UC-4	The ability to communicate in		-
	interpersonal and	Fundamentals of	
	intercultural interaction in	Rhetoric and	
	Russian as a foreign and	Communication	
	foreign language(s) based on	Veterinary deontology	
	the possession of interrelated	Foreign language	
	and interdependent types of	Russian as a foreign	
	reproductive and productive	language)	
	foreign language speech	Fundamentals of	
	activities, such as listening,	intellectual work	
	speaking, reading, writing	Communication	
	and translating in everyday	workshop	
	life , sociocultural,	Foreign language for	
	educational, professional,	special purposes	
	official, business and	Russian language for	
	scientific spheres of		
	communication	Foreign language.	
		Translation of special	
		texts	
		Russian language.	
		8 8	
		-	
		texts	
		Foreign language.	
		Professional	
		communications	
		Russian language.	
		Professional	
		communications	
		Russian language	
UC-5	Ability to analyze and take		_
	into account the diversity of		
	cultures in the process of	1	
	intercultural interaction	Fundamentals of	
		Rhetoric and	
		Communication	
		Veterinary deontology	
		Foreign language	
		Russian as a foreign	
		language)	
		Fundamentals of	
		intellectual work	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Communication	
		workshop	
		Foreign language for	
		special purposes	
		Russian language for	
		special purposes	
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r			
		Foreign language.	
		Translation of special	
		texts	
		Russian language.	
		Translation of special	
		texts	
		Foreign language.	
		Professional	
		communications	
		Russian language.	
		Professional	
		communications	
UC-6	The ability to determine and		-
	implement the priorities of	Internal non-	
	one's own activity and ways	communicable diseases	
	to improve it based on self-	general surgery	
	assessment and lifelong	Private Veterinary	
	learning	Surgery	
		Epizootology and	
		infectious diseases	
		Organization of	
		0	
		veterinary business	
		Maths	
		Introduction to the	
		specialty	
		Veterinary deontology	
		Fundamentals of	
		intellectual work	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Career Management	
		Fundamentals of social	
		and legal knowledge	
		Reconstructive surgery	
UC-7	The ability to maintain the	Life safety	
00-7		Physical Culture	-
	proper level of physical	5	
	fitness to ensure full-fledged	Applied physical	
	social and professional	education	
	activities	Career Management	
UC-8	The ability to create and		-
	maintain safe living	.	
	conditions in everyday life	Chemistry	
	and in professional activities	Organic chemistry	
	to preserve the natural	biological physics	
	environment, ensure the	Physical and colloidal	
	sustainable development of	chemistry	
	society, including in the event	Life safety	
	of a threat and the occurrence	biological chemistry	
	of emergencies and military	Veterinary microbiology	
	conflicts	and mycology	
1	commets	and mycology	

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		Virology and	
		biotechnology	
		Veterinary radiobiology	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Organization of	
		veterinary business	
		General and veterinary	
		ecology	
		Veterinary sanitation	
		Veterinary deontology	
		Laboratory diagnostics	
		of infectious and	
		parasitic diseases	
		Organization of state	
		veterinary supervision	
UC-10	The ability to make informed	Veterinary and sanitary	
	economic decisions in	examination	-
	various areas of life	Organization of	
	various areas of fife		
		veterinary business	
		Maths	
		Fundamentals of	
		Economics and	
		Management	
		Economics and	
		organization of	
		agricultural production	
		Veterinary and	
		manufacturing	
		laboratories with design	
		basics	
	The ability to search for the	Jurisprudence	-
	necessary sources of	1	
	information and data,	Philosophy	
	perceive, analyze, memorize	Life safety	
	and transmit information	Instrumental diagnostic	
	using digital means, as well	methods	
	as using algorithms when		
	working with data obtained	veterinary business	
	from various sources in order	Forensic veterinary	
	to effectively use the	examination and autopsy	
	information received to solve	of animals	
	problems; evaluate	Maths	
	information, its reliability,		
	build logical conclusions	Medicinal and poisonous	
	based on incoming	plants	
	information and data	Fundamentals of	
		intellectual labor	
		Psychology of	
		1 Sychology 01	

GPK-1	The ability to determine the	professionalself- determinationClinicallaboratorydiagnosticslaboratoryLaboratorydiagnosticsofinfectiousandparasitic diseasesOrganizationofstateveterinaryveterinaryupervisionVeterinaryandmanufacturinglaboratorieslaboratorieswith designbasicsBiometrics in veterinarymedicineFundamentalsFundamentalsofsocialand legal knowledgeSpacetechnologiesindustrialcomplexAnimalanatomy	
	biological status and normative clinical indicators of organs and systems of the animal body	Cytology, histology and embryology Physiology and ethology of animals pathological physiology Clinical diagnostics pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics Laboratory diagnostics of infectious and parasitic diseases Veterinary and manufacturing laboratories with design basics Diseases of bees and entomophages Fish pathology and aquaculture Anesthesiology, resuscitation and intensive care	
GPK-2	The ability to interpret and evaluate in professional activities the impact on the	Biology with the basics of ecology Veterinary genetics	-
L			

physical state of the	Votominamy microhiology	
physiological state of the		
animal organism of natural,	and mycology	
socio-economic, genetic and	Virology and	
economic factors	biotechnology	
	Physiology and ethology	
	of animals	
	Breeding with the basics	
	of private zootechnics	
	Animal health and	
	welfare	
	pathological physiology	
	Veterinary radiobiology	
	pathological anatomy	
	Instrumental diagnostic	
	methods	
	Toxicology	
	Obstetrics, gynecology	
	and andrology	
	Internal non-	
	communicable 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 Votoring my constantion	
	Veterinary sanitation fodder plants	
	Zoopsychology	
	animal health	
	Equine diseases	
	Diseases of productive	
	animals	
	Diseases of small	
	animals	
	Diseases of small pets	
	Diseases of bees and	
	entomophages	
	Fish pathology and	
	aquaculture	
	Diseases of exotic	
	animals	
	Anesthesiology,	
	resuscitation and	
	intensive care	

		-	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
GPK-4	The ability to use in	Inorganic and Analytical	-
	professional activities	Chemistry	
	methods of solving problems	Organic chemistry	
	using modern equipment in	biological physics	
	the development of new	Computer science	
	technologies and use modern	Physical and colloidal	
	professional methodology to	chemistry	
	conduct experimental studies	Cytology, histology and	
	and interpret their results.	embryology	
		biological chemistry	
		Veterinary microbiology	
		and mycology	
		Virology and	
		biotechnology	
		Physiology and ethology	
		of animals	
		Breeding with the basics	
		of private zootechnics	
		pathological physiology	
		Veterinary radiobiology	
		Clinical diagnostics	
		pathological anatomy	
		Operative surgery with	
		topographic anatomy	
		Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Maths	
		Immunology	
		Veterinary sanitation	
		Technology of	
		processing livestock	
		products	

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		Medicinal and poisonous	
		plants	
		fodder plants	
		Fundamentals of	
		intellectual labor	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Clinical laboratory	
		diagnostics	
		Laboratory diagnostics	
		of infectious and	
		parasitic diseases	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
GPK-5	The ability to draw up special	Veterinary genetics	_
	documentation, analyze the		_
	results of professional		
	activities and submit	-	
	reporting documents using	-	
	specialized databases	pathological anatomy	
	specialized databases	Operative surgery with	
		topographic anatomy	
		Instrumental diagnostic	
		methods	
		Obstetrics, gynecology	
		and andrology	
		Internal non- communicable diseases	

		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	
		Economics and	
		organization of	
		agricultural production	
		Clinical laboratory	
		diagnostics	
		Laboratory diagnostics	
		of infectious and	
		parasitic diseases	
		Organization of state	
		veterinary supervision	
		Veterinary and	
		manufacturing	
		laboratories with design	
		basics	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
0.01/ 0		Nephrology	
GPK-6	Ability to analyze, identify	Biology with the basics	-
	and carry out a risk	65	
	assessment of the risk of the	Life safety	
	emergence and spread of		
	diseases	and mycology	
		Virology and	
		biotechnology	
		Animal health and	
		welfare	
		Feeding animals with the	
		basics of feed production	
		Veterinary radiobiology	
		Clinical diagnostics	
		pathological anatomy	
		Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		and androitogy	

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Internal non-
communicable 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 Madicinal and poisonous
Medicinal and poisonous
plants fodder plants
fodder plants animal health
5
diagnostics
Laboratory diagnostics
of infectious and
parasitic diseases
Organization of state
veterinary supervision
Equine diseases
Diseases of productive
animals
Diseases of small
animals
Diseases of small pets
Diseases of bees and
entomophages
Fish pathology and
aquaculture
Diseases of exotic
animals
Anesthesiology,
resuscitation and
intensive care
Veterinary

		Animal Dentistry	
GPK-7	Able to understand the	Computer science	-
••••	principles of operation of	Instrumental diagnostic	
	modern information	methods	
	technologies and use them to	Organization of	
	solve problems of	veterinary business	
	professional activity	Maths	
	protessional activity	Fundamentals of	
		intellectual work	
		Clinical laboratory	
		diagnostics	
		Laboratory diagnostics	
		of infectious and	
		parasitic diseases	
		Veterinary and	
		manufacturing	
		laboratories with design	
		basics	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
PC-1	The ability to collect an	Veterinary genetics	-
	anamnesis of the life and	Physiology and ethology	
	disease of animals to identify	of animals	
	the causes of diseases and	Breeding with the basics	
	their nature	of private zootechnics	
		Animal health and	
		welfare	
		Feeding animals with the	
		basics of feed production	
		Clinical diagnostics	
		Toxicology	
		Obstetrics, gynecology	
		and andrology Internal non-	
		Internal non- communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Fundamentals of	
		Rhetoric and	
		Communication	
		Veterinary deontology	

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		Zoopsychology	
		animal health	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Equine diseases	
		Diseases of productive	
		animals	
		animals	
		Diseases of small pets	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-2	Ability to conduct a general	Animal anatomy	
PC-2		•	-
	clinical study of animals in order to establish a	Physiology and ethology of animals	
	preliminary diagnosis and		
	determine a further research	Clinical diagnostics	
	program, as well as in	pathological anatomy	
	accordance with the plan of		
	anti-epizootic measures, the		
	plan for the prevention of	Diseases of bees and	
	non-communicable animal	entomophages	
	diseases	Fish pathology and	
		aquaculture	
		Anesthesiology,	
		resuscitation and	
		intensive care	
PC-3	Ability to develop animal		_
-		•	
	research programs using	Organic chemistry	
	research programs using special (instrumental) and	Organic chemistry biological physics	
	special (instrumental) and	biological physics	
	1 0 0	biological physics Physical and colloidal	
	special (instrumental) and	biological physics Physical and colloidal chemistry	
	special (instrumental) and	biological physics Physical and colloidal chemistry biological chemistry	
	special (instrumental) and	biological physics Physical and colloidal chemistry biological chemistry Veterinary microbiology	
	special (instrumental) and	biological physics Physical and colloidal chemistry biological chemistry Veterinary microbiology and mycology	
	special (instrumental) and	biological physics Physical and colloidal chemistry biological chemistry Veterinary microbiology and mycology Virology and	
	special (instrumental) and	biological physics Physical and colloidal chemistry biological chemistry Veterinary microbiology and mycology Virology and biotechnology	
	special (instrumental) and	biological physics Physical and colloidal chemistry biological chemistry Veterinary microbiology and mycology Virology and	

pathological physiology
Clinical diagnostics
pathological anatomy
Instrumental diagnostic
methods
Toxicology
Obstetrics, gynecology
and andrology
Internal non-
communicable diseases
general surgery
Private Veterinary
Surgery
Parasitology and
invasive diseases
Epizootology and
infectious diseases
Immunology
Veterinary deontology
Clinical laboratory
diagnostics
Laboratory diagnostics
of infectious and
parasitic diseases
Veterinary and
manufacturing
laboratories with design
basics
Equine diseases
Diseases of productive
animals
Diseases of small
animals
Diseases of small pets
Diseases of bees and
entomophages
Fish pathology and
aquaculture
Diseases of exotic
animals
Anesthesiology,
resuscitation and
intensive care
Dermatology
Cardiology
Endocrinology
Nephrology
Reconstructive surgery
Veterinary
ophthalmology
Animal Dentistry

PC-5	The shility to make a	Votoring my gonation	
PC-5		Veterinary genetics	-
	e	Cytology, histology and	
	analysis of anamnesis data,	embryology	
	general, special	Physiology and ethology	
	(instrumental) and laboratory	of animals	
	research methods	Breeding with the basics	
		of private zootechnics	
		Feeding animals with the	
		basics of feed production	
		pathological physiology	
		Clinical diagnostics	
		pathological anatomy	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Forensic veterinary	
		examination and autopsy	
		of animals	
		Zoopsychology	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	

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PC-6	Ability to develop a treatment	Veterinary genetics	
	plan for animals based on the	Veterinary microbiology	
	established diagnosis and	and mycology	
	individual characteristics of	Virology and	
	animals	biotechnology	
		pathological physiology	
		Veterinary	
		pharmacology	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Maths	
		Immunology	
		Zoopsychology	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-7	The ability to select the	Inorganic and Analytical	-
	necessary drugs of a chemical	Chemistry	
	and biological nature for the	Organic chemistry	
	treatment of animals, taking	Physical and colloidal	
	into account their cumulative	chemistry	
		biological chemistry	
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	pharmacological effect on the		
	body	and mycology	
		Virology and	
		biotechnology	
		pathological physiology	
		Veterinary	
		pharmacology	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Medicinal and poisonous	
		plants	
		Equine diseases	
		Diseases of productive	
		animals	
		animals	
		Diseases of small pets	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-8	Ability to choose methods of	Veterinary microbiology	
100	non-drug therapy, including	and mycology	-
	physiotherapy methods for	Virology and	
	the treatment of animals	biotechnology	
		Physiology and ethology	
		of animals	
		Feeding animals with the	
		basics of feed production	
		pathological physiology	

PC-9	The ability to conduct medical, including physiotherapy procedures using special equipment in compliance with safety rules	Life safety Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals pathological physiology Veterinary radiobiology general surgery Private Veterinary Surgery Equine diseases Diseases of productive animals	
		Physiology and ethology of animals pathological physiology Veterinary radiobiology general surgery Private Veterinary Surgery Equine diseases Diseases of productive	

		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-10	The ability to determine the	Veterinary genetics	-
	need for the use of surgical	Cytology, histology and	
	methods in the treatment of	embryology	
	animals	Veterinary microbiology	
		and mycology	
		Physiology and ethology	
		of animals	
		pathological physiology	
		Clinical diagnostics	
		pathological anatomy	
		Obstetrics, gynecology	
		and andrology	
		general surgery	
		Private Veterinary	
		Surgery	
		Equine diseases	
		-	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of exotic	
		animals	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-11	Ability to develop a plan for the	Animal anatomy	-
	surgical operation, including	Veterinary	
	the choice of method of		
	anesthesia	Mycology	
		Physiology and ethology	
		of animals	
		pathological physiology	
		Veterinary	
		pharmacology	
		1 07	
		pathological anatomy	
		Operative surgery with	
		topographic anatomy	
		Obstetrics, gynecology	
		and andrology	
1		general surgery	

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		Private Veterinary	
		Surgery	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
PC-12	The ability to conduct surgical	Pathological anatomy	
1012	intervention in the body of	Operative surgery with	-
	animals in the treatment of		
	various diseases, castration,	topographic anatomy	
		Obstetrics, gynecology	
	sterilization, for cosmetic	and andrology	
	purposes	Reconstructive surgery	
PC-13	Ability to develop	Physiology and ethology	-
	recommendations for special	of animals	
	feeding of sick animals for	Feeding animals with the	
	therapeutic purposes	basics of feed production	
		pathological physiology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Medicinal and poisonous	
		plants	
		fodder plants	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
PC-14	The ability to conduct	Cytology, histology and	-
	repeated examinations and	embryology	
	studies of animals to assess	Physiology and ethology	
	the effectiveness and safety	of animals	
	of the prescribed treatment	pathological physiology	
	and adjust the treatment plan	Veterinary	
	for animals (if necessary)	pharmacology	
	based on the results of	Clinical diagnostics	
	evaluating the effectiveness	pathological anatomy	
	of treatment	Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
	I	communicable discases	

			
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Clinical laboratory	
		diagnostics	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-15	Ability to organize prophylactic	Virology and	-
	immunizations (vaccinations),	Biotechnology	
	therapeutic and prophylactic	Parasitology and	
	treatment of animals in		
	accordance with the plan of	Epizootology and	
	anti-epizootic measures	infectious diseases	
		Immunology	
		Veterinary sanitation	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
PC-16	Ability to organize	Veterinary genetics	-
	organizational, technical,	Life safety	
	zootechnical and veterinary	Physiology and ethology	
	measures aimed at the	of animals	
	prevention of non-	Breeding with the basics	
	communicable diseases in	of private zootechnics	
	accordance with the plan for	Animal health and	
	the prevention of non-	welfare	
	communicable animal diseases	Feeding animals with the	
		basics of feed production	
		Obstetrics, gynecology	

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		Internal non-	
		communicable 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	
		fodder plants	
		Zoopsychology	
		animal health	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-17 A	bility to organize disinfection	Inorganic and Analytical	_
	nd disinfestation of livestock	Chemistry	_
	buildings to ensure veterinary	Organic chemistry	
	nd sanitary well-being in	Physical and colloidal	
	ccordance with the plan of		
	eterinary and sanitary	chemistry	
	neasures	Life safety	
		Veterinary	
		Microbiology and	
		Mycology	
		Virology and	
		Biotechnology	
		Veterinary	
		pharmacology	
		Veterinary sanitation	
		Animal health	
PC-18 T	he ability to draw up a plan for	Veterinary genetics	
			-
1 1 1 1	he medical evamination of	Ubygiology and athology	
	he medical examination of	Physiology and ethology	
а	he medical examination of nimals, taking into account heir species and purpose, to	Physiology and ethology of animals	

	conduct medical examinations,	Breeding with the basics	
	to develop recommendations	of private zootechnics	
	for conducting preventive and	Animal health and	
	therapeutic and therapeutic	welfare	
	measures based on the results	Feeding animals with the	
	of an examination of animals	basics of feed production	
	conducted as part of the	pathological physiology	
	medical examination	Veterinary	
		pharmacology	
		Clinical diagnostics	
		pathological anatomy	
		Instrumental diagnostic	
		methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		animal health	
		Clinical laboratory	
		diagnostics	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Diseases of exotic	
		animals	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Veterinary	
		ophthalmology	
DC 10		Animal Dentistry	
PC-19	Ability to perform post-	Animal anatomy	-
	mortem diagnostic		
	examination of animals in	5 05	
	order to establish	Life safety	
	pathological processes,	pathological anatomy	
	diseases, causes of death	Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
1	1	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	
		parasitic diseases	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-20	Ability to develop an annual	Veterinary	-
	plan for anti-epizootic	Microbiology and	
	measures, a plan for the	Mycology	
	prevention of non-	Animal health and	
	communicable animal diseases,	welfare	
	a plan for veterinary and	Feeding animals with the	
	sanitary measures	basics of feed production	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Organization of	
		veterinary business	

		Fundamentals of	
		Economics and	
		Management	
		Veterinary sanitation	
		Economics and	
		organization of	
		agricultural production	
		animal health	
		Diseases of bees and	
		entomophages	
		1 01	
DC 21		aquaculture	
PC-21	Ability to conduct inspections of	Veterinary	-
	the veterinary and sanitary	Microbiology and	
	condition and microclimate of	Mycology	
	livestock buildings in	Virology and	
	accordance with the plan for	Biotechnology	
	anti-epizootic measures, the	Animal health and	
	plan for the prevention of non-	welfare	
	communicable animal diseases,	Veterinary radiobiology	
	the plan for veterinary and	Veterinary sanitation	
	sanitary measures	animal health	
PC-22	Ability to organize measures	Life safety	-
	to protect the organization		
	from the introduction of	and mycology	
	infectious and parasitic	Virology and	
	diseases in accordance with	biotechnology	
	the plan of anti-epizootic	Animal health and	
	measures	welfare	
	measures		
		Veterinary	
		pharmacology Driveto Veterinory	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Organization of	
		veterinary business	
		General and veterinary	
		ecology	
		Veterinary sanitation	
		Technology of	
		processing livestock	
		products	
		animal health	
		Laboratory diagnostics	
		of infectious and	
		parasitic diseases	
		Organization of state	
		veterinary supervision	
L		vetermary supervision	

			
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
PC-23	Ability to analyze the	Breeding with the basics	_
	effectiveness of animal disease	of private zootechnics	
	prevention measures in order	Animal health and	
	to improve them	welfare	
		Toxicology	
		Internal non-	
		communicable diseases	
		general surgery Private Veterinary	
		5	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Veterinary and sanitary	
		examination	
		Organization of	
		veterinary business	
		Forensic veterinary	
		examination and autopsy	
		of animals	
		Fundamentals of	
		Economics and	
		Management	
		Veterinary sanitation	
		Economics and	
		organization of	
		agricultural production	
		animal health	
		Organization of state	
		veterinary supervision	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		aquaculture	
PC-24	Ability and willingness to	Physiology and ethology	-
	promote veterinary knowledge,	of animals	
	including in the field of animal	Breeding with the basics	
	disease prevention	of private zootechnics	
		Animal health and	
		welfare	
		Feeding animals with the	
		basics of feed production	
		pathological physiology	
		pathological anatomy	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	

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Internal non-
communicable diseases
general surgery
Private Veterinary
Surgery
Parasitology and
invasive diseases
Epizootology and
infectious diseases
Fundamentals of
Rhetoric and
Communication
Introduction to the
specialty
General and veterinary
ecology
Veterinary sanitation
Veterinary deontology
Economics and
organization of
agricultural production
Medicinal and poisonous
plants
fodder plants
Zoopsychology
animal health
Equine diseases
Diseases of productive
animals
Diseases of small
animals
Diseases of small pets
Diseases of bees and
entomophages
Fish pathology and
aquaculture
Diseases of exotic
animals
Dermatology
Cardiology
Endocrinology
Nephrology Reconstructive surgery
Reconstructive surgery
Veterinary
ophthalmology
Animal Dentistry
Foreign language for
special purposes
Russian language for
special purposes

Foreign language.
Translation of special
texts
Russian language.
Translation of special
texts
Foreign language.
Professional
communications
Russian language.
Professional
communications

4. WORKLOAD OF PRACTICE

The total labor intensity of "**Medical and industrial practice**" is 9 credits (324 academic hours).

5. PRACTICE CONTENT

Table 5.1 Practice content *

Name of practice section	Contents of the section (topics, types, practical activities)	Workload, ac.h.
Section 1. Medical and Industrial practice	Acquaintance with the normative documents regulating the production activities of a veterinarian	20
	Clinical practice as part of an individual task	250
	Solving clinical and production problems in the daily activities of a medical practitioner	120
	Filling out a practice diary	24
Preparation of a practice report		9
Preparation for the defense and defense of the practice report		9
	TOTAL:	432

* - the content of the practice by sections and types of practical training is FULLY reflected in the trainee's report on practice.

6. EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Material and technical support for the practice, which meets the requirements of the order of the Rector of RUDN University No. 397-r dated April 9, 2021 "On approval and enforcement of the Regulations for ensuring labor protection and fire safety during practices" and instructions IOT No. 712-21 of RUDN University dated May 17, 2021 .2021 "On labor protection and fire safety during educational and production (including undergraduate and research) practices implemented at the Agrarian Technology Institute":

- Equipped workplaces based on practice;
- Equipment:

- Means of immobilization and fixation of animals (looms, boosters, collars, yawners, etc.)

- Clinical diagnostic tools (stethoscopes, percussion hammers and plessimeters, electric flashlights, etc.)

- Equipment for visual diagnostics (ultrasound scanners, x-ray machines, arthroscopes, endoscopes, CT and MRI machines, etc.)

- Laboratory equipment (microscopes, centrifuges, analyzers, etc.)
- Anesthesia equipment
- Surgical equipment, etc.

7. PRACTICE METHODS

"Medical and industrial practice" can be carried out both in the structural divisions of the Peoples' Friendship University of Russia or in organizations of Moscow (stationary), and at bases located outside of Moscow (external).

Conducting an practice based on an external organization (outside the RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions for conducting an practice in the base organization.

The timing of the practice corresponds to the period specified in the calendar training schedule of the Higher Education Program. The timing of the practice can be adjusted upon agreement with the Department of Educational Policy and the Department for the organization of practices and employment of students at RUDN University.

8. FSC RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

1. Obstetrics, gynecology and biotechnology of animal reproduction: textbook / A.

P. Studentsov, V. S. Shipilov, V. Ya. Nikitin [and others]; edited by G. P. Dyulger. - 10th ed., erased. - St. Petersburg: Lan, 2020. - 548 p. https://e.lanbook.com/book/129090

2. Badluev E.B., Eshizhamsoev B.D., Tsybikzhapov A.D. Obstetrics and gynecology of farm animals. Workbook for laboratory and practical classes and independent work: study guide 2019.-90s. https://e.lanbook.com/book/113386

3. Baymishev, Kh. B. Gynecology and andrology: guidelines / Kh. B. Baymishev. - Samara : SamGAU, 2018. - 106 p. https://e.lanbook.com/book/109422

4. Workshop on internal animal diseases: textbook / G. G. Shcherbakov, A. V. Yashin, A. P. Kurdeko [and others]; under the general editorship of G. G.

Shcherbakov [and others]. - 3rd ed., erased. - St. Petersburg: Lan, 2020. - 544 p. https://e.lanbook.com/book/139263

5. Nechaev, A. V. Internal non-communicable diseases: textbook / A. V. Nechaev, Yu. A. Kurlykova. - Samara: SamGAU, 2020 - Part 1: General prevention and therapy - 2020. - 122 p. https://e.lanbook.com/book/158657

6. Dyulger, G. P. Fundamentals of veterinary science: a textbook for universities / G. P. Dyulger, G. P. Tabakov. - 3rd ed., erased. - St. Petersburg: Lan, 2020. - 476 p. https://e.lanbook.com/book/146658

7. Epizootology with microbiology: textbook / A.S. Aliev, Yu.Yu. Danko, I.D. Yeshchenko [i dr.]; Ed. V.A. Kuzmin. - 2nd ed., erased. - St. Petersburg: Publishing house "Lan", 2017. - 432 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=465028&idb=0

8. Sidorchuk, A. A. General epizootology: a textbook for universities / A. A. Sidorchuk, V. A. Kuzmin, S. V. Alekseeva. - 2nd ed., erased. - St. Petersburg: Lan, 2021. - 248 p. https://e.lanbook.com/book/156931

9. Epizootology with microbiology: a textbook for universities / A. S. Aliev, Yu. Yu. Danko, I. D. Yeshchenko [and others]; Edited by V. A. Kuzmin, A. V. Svyatkovsky. - 6th, erased. - St. Petersburg: Lan, 2021. - 432 p. https://e.lanbook.com/book/162384

10. Skubko, O. R. Morphofunctional features and diseases of animal bones: textbook / O. R. Skubko, O. N. Shushakova. - Omsk: Omsk State Agrarian University, 2020. - 52 p. https://e.lanbook.com/book/136157

11. Operative surgery in animals: a textbook for universities / B. S. Semenov, V. N. Videnin, A. Yu. Nechaev [and others]. - St. Petersburg: Lan, 2020. - 704 p. https://e.lanbook.com/book/162365

12. Skubko, O. R. Methods of lectures of the academic discipline B1.B.23 "Operative surgery with topographic anatomy": a textbook / O. R. Skubko, G. A. Khonin, O. N. Shushakova. - Omsk: Omsk State Agrarian University, 2019. - 65 p. https://e.lanbook.com/book/126630

13. Latypov D.G. Protozoan animal diseases that are dangerous to humans (protozoan zoonoses): a textbook / D.G. Latypov, R.R. Timerbaeva, E.G. Kirillov.
St. Petersburg: Publishing house "Lan", 2017. - 208 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464930&idb=0

14. Latypov D.G. Animal helminthiases dangerous to humans: a textbook / D.G. Latypov. - 3rd ed., revised. - St. Petersburg: Publishing house "Lan", 2017. - 440 p. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464941&idb=0

15. Latypov, D. G. Parasitology and invasion animal diseases: a textbook for sports / D. G. Latypov, R. R. Timerbaeva, E. G. Kirillov. - 2nd ed., erased. - St. Petersburg:

Lan, 2021. - 520 p. https://e.lanbook.com/book/159517

16. Yatusevich, A. I. Parasitology and invasive animal diseases: textbook / A. I. Yatusevich, N. F. Karasev, S. I. Stasyukevich. - Minsk: RIPO, 2020. - 266 p. https://e.lanbook.com/book/154220

17. Nikitin, I. N. Workshop on the organization of veterinary business: textbook / I. N. Nikitin. - 4th ed., Rev. and additional - St. Petersburg: Lan, 2020. - 324 p. https://e.lanbook.com/book/131031

18. Nikitin, I. N. Legal support of veterinary activities: a textbook for sports / I. N. Nikitin. - 2nd ed., erased. - St. Petersburg: Lan, 2021. - 212 p. https://e.lanbook.com/book/155692

19. Zabolotnykh M. V., Ivkova I. A., Zhidik I. Yu. Fundamentals of the organization of veterinary and sanitary business: textbook 2020.-91s

20. Nikitin, I. N. Veterinary clinic: textbook for universities / I. N. Nikitin, V. V. Ivanov, E. N. Trofimova. - 2nd, erased. - St. Petersburg: Lan, 2021. - 184 p. <u>https://e.lanbook.com/book/162385</u>

Additional reading:

- 1. Obstetrics, gynecology and biotechnology of animal reproduction: textbook / A. P. Studentsov, V. S. Shipilov, V. Ya. Nikitin [and others]; edited by G. P. Dyulger. - 10th ed., erased. - St. Petersburg: Lan, 2020. -548 p. https://e.lanbook.com/book/129090
- 2. 2. Badluev E.B., Eshizhamsoev B.D., Tsybikzhapov A.D. Obstetrics and gynecology of farm animals. Workbook for laboratory and practical classes and independent work: study guide 2019.-90s. https://e.lanbook.com/book/113386
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Internet-(based) sources

1. Electronic libraries with access for RUDN students:

- RUDN Electronic Library System RUDN EBS http://lib.rudn.ru/MegaPro/Web
- ELS "University Library Online" http://www.biblioclub.ru
- EBS Yurayt http://www.biblio-online.ru
- ELS "Student Consultant" www.studentlibrary.ru
- EBS "Lan" http://e.lanbook.com/
- EBS "Trinity Bridge"

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- 2. Databases and search engines:
 - electronic fund of legal and normative-technical documentation http://docs.cntd.ru/
 - Yandex search engine https://www.yandex.ru/
 - Google search engine https://www.google.ru/

Electronic version of the document

- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

Learning toolkits for practice, filling out a diary and preparing an practice report*:

1. Safety rules during the passage of "Academic research practice with the preparation of a scientific qualification project" (initial briefing).

2. The general arrangement and principle of operation of technological production equipment used by students during their practice; flow charts and regulations, etc. (if necessary).

3. Guidelines for filling in a diary by students and preparing a practice report.

* - Learning toolkits for self- studies in the RUDN LMS TUIS!

8. ASSESSMENT AND EVALUATION TOOLKIT AND SCORE-RATING ASSESSMENT SYSTEM OF THE LEVEL OF FORMATION COMPETENCES OF PRACTICES

Evaluation materials and a point-rating system* for assessing the level of competencies (part of competencies) based on the results of passing the "Academic research practice with the preparation of a scientific qualification project" are presented in the Appendix to this Practice Program (module).

* - AT and SRS are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

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