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## PRACTICE SYLLABUS

# <u>Academic research practice with the preparation of a scientific</u> <u>qualification project</u>

# **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 conducting "Academic research practice with the preparation of a scientific qualification project" is to ensure the integration of education and scientific and technical activities, increase the efficiency of the use of scientific and technological achievements, reform the scientific sphere and stimulate innovation, as well as collect materials for the preparation of final qualification work specialist (FQW).

#### **2. REQUIREMENTS FOR LEARNING OUTCOMES OF THE PRACTICE**

Conducting "Academic research practice with the preparation of a scientific qualification project" is aimed at developing students' competencies (parts of competencies):

Table 2.1. List of competencies formed in 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 based on a systematic approach, to develop an action strategy	UC-1.1 Analyzes the task, highlighting its basic components UC-1.2 Determines and ranks the information required to solve the task 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		UC-3.1 Determines his role in the team, based on the strategy of cooperation to achieve the goal

	strategy to achieve the goal	
		identified depending on the goal UC-3.3 Analyzes the possible consequences of personal actions and plans their actions to achieve a given result
		MC-3.4 Sharing information, knowledge and experience with team members
		UC-3.5 Argues his point of view regarding the use of the ideas of other team members to achieve the goal
		UC-3.6 Participates in team work to complete assignments
UC-4	The ability to communicate in interpersonal and intercultural interaction in Russian as a foreign and foreign language(s) based on the possession of interrelated and interdependent types of reproductive and productive foreign language speech activities, such as listening,	<ul> <li>UC-4.1 Chooses the style of business communication, depending on the language of communication, the purpose and conditions of the partnership</li> <li>UC-4.2 Adapts speech, communication style and body language to interaction situations</li> <li>UC-4.3 Searches for the necessary information to solve standard communication tasks in Russian</li> </ul>
	speaking, reading, writing and translating in everyday life, sociocultural, educational, professional, official, business and scientific spheres of communication	and foreign languages UC-4.4 Performs translation of professional texts from a foreign language into Russian and vice versa UC-4.5 Conducts business correspondence in
	1	Russian and foreign languages, considering the peculiarities of the style of official and unofficial letters and socio-cultural differences in the format of correspondence
		UC-4.6 Uses dialogue for cooperation in academic communication of communication, considering the personality of the interlocutors, their communicative-speech strategy and tactics, the degree of formality of the situation
		UC-4.7 Forms and argues own assessment of the main ideas of the participants in the dialogue (discussion) in accordance with the needs of joint activities
UC-5	Ability to analyze and consider the diversity of cultures in the process of intercultural interaction	UC-5.1 Interprets the history of Russia in the context of world historical development UC-5.2 Finds and uses information about the cultural characteristics and traditions of various social groups in social and professional communication
		UC-5.3 Considers, in social and professional communication on a given topic, the historical heritage and socio-cultural traditions of various social groups, ethnic groups and confessions, including world religions, philosophical and ethical teachings
		UC-5.4 Collects information on a given topic, considering the ethnic groups and confessions that are most widely represented at the points of the study UC-5.5 Substantiates the features of project and

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		team activities with representatives of other
		ethnic groups and (or) confessions
		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
	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
		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, considering 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
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UC-7	The shility to maintain the proper	implementation UC-7.1 Selects health-saving technologies to
UC-/	The ability to maintain the proper	6 6
	level of physical fitness to ensure	maintain a healthy lifestyle, considering the
	full-fledged social and professional activities	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	UC-8.2 Identifies hazardous and harmful factors
	threat and the occurrence of	within the framework of the task being
	emergencies and military conflicts	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
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		of emergencies of natural and man-made origin
		of emergencies of natural and man-made origin, as well as in the event of military conflicts
		as well as in the event of military conflicts

UC-10	The ability to make informed economic decisions in various areas of life	UC-10.1 Understands the basic principles of the functioning of the economy and economic 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.	<ul> <li>GPC-1.1 Knows the structure and functions of the main systems of the animal body, considering species characteristics</li> <li>GPC-1.2 Capable of predicting the expected violations of the biological status in case of suspected development of diseases</li> <li>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</li> <li>GPC-1.4 Skilled in taking samples of biological fluids and tissues for research, performing laboratory tests, interpreting research results.</li> </ul>
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	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

	experimental studies and interpret	GPC-4.3 Ready to use modern methodology in
	their results.	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	GPC-5.1 Has the skills to search for the
010-5	documentation, analyze the results of	necessary forms of documentation on official
	professional activities and submit	websites and specialized databases
	reporting documents using	GPC-5.2 Proficient in professional terminology
	specialized databases.	and skills in filling out analytical and reporting
	-F	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	GPC-6.1 Has knowledge in the field of etiology
	carry out risk assessment of the risk	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
		complications
GPC-7	Able to understand the principles of	GPC-7.1 Understands the principles of operation
	operation of modern information	of modern computer equipment and telecommunications and knows how to use them
	technologies and use them to solve	
	problems of professional activity.	to solve professional problems 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
DO 1		effectiveness of anti-epizootic measures
PC-1	The ability to collect an anamnesis of	PC-1.1 Able to collect an anamnesis of the
	the life and illness of animals to identify the causes of diseases and	animal's life and reflect this in the relevant service documentation
	identify the causes of diseases and 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
		information when making a diagnosis
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PC-2	Ability to conduct a general clinical study of animals in order to establish a preliminary diagnosis and determine a further research program, as well as in accordance with the plan of anti-epizootic measures, the plan for the prevention of non-communicable animal diseases	<ul> <li>PC-2.1 Able to conduct a general clinical study of animals of different species in order to establish a preliminary diagnosis and determine a further research program</li> <li>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</li> </ul>
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, considering 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	<ul> <li>PC-5.1 Able to diagnose patients of various types based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods</li> <li>PC-5.2 Able to predict the risks of diseases based on anamnestic data, the results of general, special (instrumental) and laboratory studies</li> </ul>
PC-6	Ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals	<ul> <li>PC-6.1 Able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals</li> <li>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</li> <li>PC-6.3 Able to develop recommendations for the implementation of preventive and therapeutic and therapeutic and therapeutic measures based on the results of animal examinations conducted as part of medical examination</li> </ul>
PC-7	The ability to select the necessary drugs of a chemical and biological nature for the treatment of animals, considering their cumulative pharmacological effect on the body	<ul> <li>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, considering their cumulative pharmacological effects on the body</li> <li>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</li> <li>PC-7.3 Able to calculate the dose, frequency and duration of the course of drug administration to the patient, considering the form of release and the characteristics of the administration of the drug to the patient</li> </ul>

	PC-7.4 Able to consider 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 consider 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
Ability to choose methods of non- drug therapy, including physiotherapy methods for the treatment of animals	<ul> <li>PC-8.1 Able to choose and justify his choice of methods of non-drug therapy, including physiotherapy methods, for the treatment of animals</li> <li>PC-8.2 Able to assess the effectiveness of the selected method in treating the patient and, if necessary, adjust the treatment method or change the selected method to another</li> </ul>
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 consider 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
The ability to determine the need for the use of surgical methods in the treatment of animals	<ul> <li>PC-10.1 Able to determine the need for the use of surgical methods in the treatment of animals</li> <li>PC-10.2 Able to choose the optimal surgical method for the patient, considering external conditions and the status of the patient's body, and, if necessary, several manipulations - their order and timing</li> <li>PC-10.3 Able to consider the risks and possible complications accompanying surgical interventions and take measures to prevent them</li> </ul>
Ability to develop a plan for the surgical operation, including the choice of method of anesthesia	<ul><li>PC-11.1 Able to develop a plan for a surgical operation</li><li>PC-11.2 Able to choose and justify the best option for patient anesthesia during surgery and in the postoperative period</li></ul>
The ability to conduct surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes	<ul> <li>PC-12.1 Able to prepare the room, equipment and consumables necessary for the surgical intervention, considering the requirements of asepsis and antisepsis</li> <li>PC-12.2 Able to prepare the operating team for surgical intervention, considering the requirements of asepsis and antisepsis</li> <li>PC-12.3 Able to prepare a patient for a surgical intervention, considering the requirements of asepsis and antisepsis</li> <li>PC-12.4 Able to assist the operating surgeon during surgical interventions</li> <li>PC-12.5 Able to carry out preventive and</li> </ul>
	drug       therapy, including         physiotherapy       methods         for       the         treatment of animals         The ability to conduct medical,         including physiotherapy procedures         using       special         equipment       in         compliance with safety rules         The ability to determine the need for         the use of surgical methods in the         treatment of animals         Ability to develop a plan for the         surgical operation, including the         choice of method of anesthesia         The ability to conduct surgical         intervention in the body of animals in         the treatment of various diseases,         castration, sterilization, for cosmetic

		dehorning, etc.) in farm animals and companion animalsPC-12.6Abletoindependentlyperform diagnostic and therapeutic operations in animals
		of different species, considering 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 repeated studies necessary and sufficient to assess predicted changes in the patient's health status PC-14.2 Able to conduct a repeated clinical examination, considering the specifics of diseases previously diagnosed in a patient PC-14.3 Able to conduct the necessary repeated instrumental and laboratory studies PC-14.4 Able to analyze the identified changes, evaluate the effectiveness of the treatment and, if necessary, correct the prescribed course of
PC-15	Ability to organize prophylactic immunizations (vaccinations), therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures	treatment. PC-15.1 Able to draw up individual and group plans for preventive immunizations (vaccinations) considering 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, if necessary, taking into account the real epizootic situation in the places of stay of animals, incl. 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	<ul> <li>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</li> <li>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</li> <li>PC-16.3 Able to detect deviations from the plan of terms, types, quality of measures to prevent the emergence of non-infectious animals</li> </ul>

PC-17 PC-18	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 The ability to draw up a plan for the medical examination of animals, considering their species and	<ul> <li>PC-16.4 Take corrective measures to implement measures to prevent the occurrence of non-communicable animal diseases based on the results of control</li> <li>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</li> <li>PC-17.1 Capable of collecting and analyzing information necessary for organizing and planning veterinary and sanitary measures</li> <li>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</li> <li>PC-17.3 Able to determine the procedure for disinfection, disinfestation, deratization and other veterinary and sanitary measures, considering the peculiarities of keeping animals, the technical characteristics of the premises and the epizootic situation</li> <li>PC-17.4 Capable of monitoring the results of veterinary and sanitary measures</li> <li>PC-17.4 Lapable of monitoring the results of veterinary and sanitary measures</li> <li>PC-18.1 Able to draw up a plan for the medical examination of animals, general or specialized, considering their types and purpose</li> </ul>
	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-18.2 Able to organize and conduct medical examinations according to the plan PC-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	<ul> <li>PC-19.1 Able to conduct a general examination of animal corpses before autopsy</li> <li>PC-19.2 Capable of performing an autopsy of animal corpses using special tools and observing safety requirements</li> <li>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</li> <li>PC-19.4 Able to document the results of the postmortem diagnostic examination of the animal in the autopsy protocol</li> </ul>
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-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	<ul> <li>PC-20.3 Is able to analyze the effectiveness of animal disease prevention measures in order to improve them</li> <li>PC-21.1 Able to detect deviations in the microclimate parameters in livestock buildings from the normative</li> <li>PC-21.2 Able to detect violations of the veterinary and sanitary condition of livestock buildings, determine their cause and possible consequences</li> <li>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</li> </ul>
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	<ul> <li>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</li> <li>PC-22.2 Able to choose and apply the most effective measures to protect the organization from the introduction of infectious and parasitic diseases</li> <li>PC-22.3 Able to carry out operational monitoring of the effectiveness of ongoing activities</li> </ul>
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**

"Academic research practice with the preparation of a scientific qualification project" 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 "Academic research practice with the preparation of a scientific qualification project".

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

Code	Competence	Previous disciplines/modules,	Subsequent disciplines/modules,
		practices	practices
UC-1	The ability to carry out a	History	-
	critical analysis of problem	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	
		specialty	
		Fundamentals of	
		Economics and	
		Management	
		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	Jurisprudence	-
	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	
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		invasive diseases	
		invasive diseases Epizootology and	
		Epizootology and	
		Epizootology and infectious diseases	
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		Epizootology infectious diseasesandOrganizationofveterinary businessofMathsFundamentalsofRhetoricandCommunicationIntroduction tothespecialtyFundamentalsofEconomicsandManagement	
		Epizootology infectious diseasesandOrganizationofVeterinary businessofMathsFundamentalsofRhetoricandCommunicationIntroduction tothespecialtyFundamentalsofSpecialtyFundamentalsofAntroductionSpecialtyFundamentalsofEconomicsand	

		Fundamentals of	
		intellectual labor	
		Psychology of	
		personality and	
		professional self-	
		determination	
		Fundamentals of social	
		and legal knowledge	
UC-4	The ability to communicate in	Latin language	_
	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	
		e	
	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,		
	official, business and	Russian language for	
	scientific spheres of	1 1 1	
	communication	Foreign language.	
		Translation of special	
		texts	
		Russian language.	
		Translation of special	
		texts	
		Foreign language.	
		Professional	
		communications	
		Russian language.	
		Professional	
		communications	
		Russian language	
UC-5	Ability to analyze and	History	-
	consider the diversity of	•	
	cultures in the process of		
	intercultural interaction	Fundamentals of	
		Rhetoric and	
		Communication	
		Veterinary deontology	
		Foreign language	
		Russian as a foreign	
		e	
		language) Fundamentals of	
		intellectual work	
		Psychology of	
		personality and	

		professional self-	
		determination	
		Communication	
		workshop	
		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	
UC-6	The ability to determine and	Philosophy	
00.0	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	•	
	learning	Surgery	
		Epizootology and	
		infectious diseases	
		Organization of	
		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	-
	proper level of physical	Physical Culture	
	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	
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	and in professional activities		
	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	
		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	
		veterinary business	
		Maths	
		Fundamentals of	
		Economics and	
		Management	
		Economics and	
		organization of	
		agricultural production	
		Veterinary and	
		manufacturing	
		laboratories with design	
		basics	
UC-12	The ability to search for the	Jurisprudence	-
	necessary sources of	Informatics	
	information and data,	Philosophy	
	perceive, analyze, memorize	Life safety	
	and transmit information	Instrumental diagnostic	
	using digital means, as well as	methods	
	using algorithms when	Organization of	
	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	

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	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	
		personality and	
		professional self-	
		determination	
		Clinical laboratory	
		diagnostics	
		Laboratory diagnostics	
		of infectious and	
		parasitic diseases	
		Organization of state	
		veterinary supervision	
		Veterinary and	
		manufacturing	
		laboratories with design	
		basics	
		Biometrics in veterinary	
		medicine	
		Fundamentals of social	
		and legal knowledge	
		Space technologies in	
		the service of the agro-	
		industrial complex	
GPC-1	The ability to determine the	Animal anatomy	_
	biological status and	-	
	normative clinical indicators	embryology	
	of organs and systems of the		
	animal body	of animals	
	uninitial body	pathological physiology	
		Clinical diagnostics	
		e	
		pathological anatomy	
		pathological anatomy Instrumental diagnostic	
		pathological anatomy Instrumental diagnostic methods	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics Laboratory diagnostics of infectious and	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics Laboratory diagnostics of infectious and parasitic diseases	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics Laboratory diagnostics of infectious and parasitic diseases Veterinary and	
		pathological anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Immunology Clinical laboratory diagnostics Laboratory diagnostics of infectious and parasitic diseases Veterinary and manufacturing	
		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	
		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	
		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	

		Fish pathology and	
		aquaculture	
		Anesthesiology,	
		resuscitation and	
		intensive care	
GPC-2	The ability to interpret and	Biology with the basics	-
	evaluate in professional	of ecology	
	activities the impact on the	Veterinary genetics	
	physiological state of the	Veterinary microbiology	
	animal organism of natural,	and mycology	
	socio-economic, genetic and economic factors		
	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 Veteringers conitation	
		Veterinary sanitation	
		fodder plants	
		Zoopsychology	
		animal health	
		Equine diseases	
		Diseases of productive	
		animals	
		Diseases of small	
		animals	
		Diseases of small pets	
		Discases of sinall 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
GPC-4 The ability to use in	
professional activities	6
methods of solving problems	Organic chemistry
using modern equipment in	-
the development of new	Informatics
-	
technologies and use modern	
professional methodology to	chemistry Catalographictolograph
conduct experimental studies	
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	
		-	
		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	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
GPC-5	The ability to draw up special	Veterinary genetics	-
	documentation, analyze the	Informatics	
	results of professional	Breeding with the basics	
	activities and submit	of private zootechnics	
	reporting documents using	Clinical diagnostics	
	specialized databases	pathological anatomy	
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		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	
		Nephrology	
GPC-6	Ability to analyze, identify	Biology with the basics	-
	and carry out a risk	65	
	assessment of the risk of the		
	emergence and spread of		
	diseases	and mycology	
		Virology and	
		biotechnology	
		Animal health and	
		welfare	
		Feeding animals with the	
		basics of feed production	
L		subles of feed production	

Veterinary radiobiology
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
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ecology
Veterinary sanitation
Technology of
processing livestock
products
Medicinal and poisonous
plants for the set of
fodder plants
animal health
Clinical laboratory
diagnostics Laboratory diagnostics
Laboratory diagnostics of infectious and
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
entomophugeo

		Fish pathology and	
		aquaculture	
		Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
GPC-7	Able to understand the	Informatics	-
	principles of operation of	Instrumental diagnostic	
	modern information	methods	
	technologies and use them to	Organization of	
	solve problems of	-	
	professional activity	Maths	
	Protosololiul uotivity	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-	
		communicable diseases	
		general surgery	
L		Serierar surgery	

PC2       Ability to conduct a general concernment for the prevention of non-communicable animal discases       Surgery - Parasitology and invasive discases         PC3       Ability to develop animal       animal hantomy         PC3       Ability to develop animal       animal anatomy				
PC-2Ability to conduct a general incast study of animals and intensive diseases Fundamentals of Rhetoric and Communication Veterinary deontology Zoopsychology animal health Psychology of personality and professional biseases of productive animals Diseases of small animals Diseases of exotic animals Diseases of exotic animalsPC-2Ability to conduct a general etermine a further research program, as well as in accordance with the plan of plan for the prevention of no-communicable animal determine a further research program, as well as in accordance with the plan of plan for the prevention of non-communicable animal diseases of bes and non-communicable animal animal matomy-PC-3Ability to develop animal anice pizotoanimal anatomy phan loggy, nesuscitation and intensive care program, as well as in aqueulture Anesthesiology, resuscitation and intensive care program, as well as in aqueulture aqueulture Anesthesiology, resuscitation and intensive carePC-3Ability to develop animal a line a further research program, as well as in aqueulture aqueulture Anesthesiology, resuscitation and intensive carePC-3Ability to develop animal animal anatomy-			Private Veterinary	
PC-2       Ability to conduct a general circuitor surgery Victorinary destructive surgery Victorinary discusses of productive surgery Victorinary destructive surgery Victorinary destructive surgery Victorinary destructive surgery Victorinary discusses of productive surgery Victorinary discusses in a discusses of productive surgery Victorinary discusses of productive surgery Victorinary discusses and relimination and intensive care program, as well as in accordance with the plan of the prevention of non-communicable animal discusses of productive surgery Victorinary diagnosis and adrology and ethology and adrology and adrology, resuscitation and intensive care			Surgery	
PC-2Ability to conduct a general accordance with the plan of an concommunicable animals biseases of productive animals Diseases of productive animals Diseases of small animals Diseases of exotic animals Diseases of exotic animals Diseases of productive animals Diseases of small animals Diseases of exotic animals Diseases of acotic animals Diseases of acotic animal bentistry Animal Dentistry-PC-2Ability to conduct a general anicepizotic measures, the plan for the prevention of non-communicable animal diseases and ento-communicable animal diseases of bees and entomophages Fish pathology and aquaculture Anesthesiology, resuscitation and intensive care-PC-3Ability to develop animal animal anatomy-			Parasitology and	
PC-2Ability to conduct a general eterminary diagnosis and prefininary diagnosis and articepizotic measures, the participation of the prevention of preside and and the prevention of preside			invasive diseases	
PC-2Ability to conduct a general cordance with the plan of accordance with the plan of ancordance with the plan of ancordance with the plan of non-communicable animal blan for the prevention of pressonal self- determination tensional self- determination equine diseases biseases of productive animals Ancsthesiology Cardiology Cardiology Cardiology Cardiology Cardiology Cardiology Cardiology Cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology cardiology determine a further research program, as well as in ancompaneation accordance with the plan of non-communicable animal diseasesAnimal anatomy phalology and animal chology and aquaculture Anesthesiology, resuscitation anti-epizootic measures, the plan for the prevention of non-communicable animal incesse of becs and entomphages Fish pathology and aquaculture Anesthesiology, resuscitation and antiresive care-PC-3Ability to develop animal a mimal anatomy-			Epizootology and	
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PC-2       Ability to conduct a general clinical study of animals in animals       Communication         PC-2       Ability to conduct a general clinical study of animals in anise in accordance with the plan of animals in accordance with the plan of the prevention of anitactions is accordance with the plan of the prevention of anitactions is accordance with the plan of the prevention and and and accordance with the plan of the prevention of anitactions is accordance with the plan of the prevention of an intensive care intensi				
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PC-2Ability to conduct a general order to establish a program, as well as in accordance with the plan of anti-epizootic measures, the plan for the prevention of non-communicable animal animalDiseases of productive animals Anesthesiology, resuscitation and intensive care Dermatology Cardiology Reconstructive surgery Veterinary ophthalmology Animal DentistryPC-2Ability to conduct a general clinical study of animals in order to establish a preliminary diagnosis and determine a further research program, as well as in accordance with the plan of anti-epizootic measures, the plan for the prevention of PC-3Ability to develop animal animal-PC-3Ability to develop animalanimal anatomy obstetrics, gynecology and andrology and andrology, resuscitation-PC-3Ability to develop animal a mimal-			determination	
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PC-2Ability to conduct a general clinical study of animals in order to establish a preliminary diagnosis and determine a further research program, as well as in accordance with the plan of anti-epizootic measures, the plan for the prevention of non-communicable animal diseasesAnimal DentistryPC-3Ability to develop animalAnimal anatomy-PC-3Ability to develop animalanimal anatomy-			Veterinary	
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non-communicable diseasesanimal entomophagesentomophagesdiseasesFish aquaculture Anesthesiology, resuscitation intensive careand aquaculturePC-3Ability to develop animalanimal anatomy-				
diseases       Fish pathology and aquaculture         Anesthesiology, resuscitation and intensive care       and         PC-3       Ability to develop animal animal anatomy       -				
PC-3       Ability to develop animal       aquaculture         Anesthesiology,       animal anatomy         -       -				
PC-3       Ability to develop animal       Anesthesiology, resuscitation and intensive care       -		uiseases	1 05	
PC-3     Ability to develop animal     animal anatomy     -			-	
PC-3Ability to develop animal animal anatomy-				
PC-3 Ability to develop animal animal anatomy -				
research programs using Organic chemistry	PC-3	· ·	-	-
		research programs using	Organic chemistry	

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1	nd biological physics	
laboratory methods	Physical and colloidal	
	chemistry	
	biological chemistry	
	Veterinary microbiology	
	and mycology	
	Virology and	
	biotechnology	
	Physiology and ethology	
	of animals	
	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	
	1 65	
	aquaculture Diseases of exotic	
	animals	

		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-5	The ability to make a	Veterinary genetics	
105	~		-
	0	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	
		ammais	

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		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		•	
		ophthalmology	
		Animal Dentistry	
	pility to develop a treatment	Veterinary genetics	
	an for animals based on the	Veterinary microbiology	
	tablished diagnosis and	and mycology	
inc	dividual characteristics of	Virology and	
an	imals	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	
		1 05	
		aquaculture Diseases of exotic	
		animals	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
1 1		Endocrinology	

	1		
		Nephrology	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-7	The ability to select the	Inorganic and Analytical	_
107	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	
	pharmacological effect on the	biological chemistry	
	body	Veterinary microbiology	
		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 Discussion of any 11 meters	
		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	

		Vatarinary	
		Veterinary	
		ophthalmology	
		Animal Dentistry	
PC-8	Ability to choose methods of		-
	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	
		Veterinary radiobiology	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		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-9	The ability to conduct	Animal anatomy	_
	medical, including	Life safety	
	physiotherapy procedures	Veterinary microbiology	
	using special equipment in	and mycology	
	compliance with safety rules	Virology and	
		biotechnology	
		Physiology and ethology	
		of animals	
		pathological physiology	
		Veterinary radiobiology	
		general surgery	
		Private Veterinary	
		Surgery	
		Equine diseases	
	1	Lyune uiscases	

		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-10	The ability to determine the	Veterinary genetics	
PC-10	need for the use of surgical		-
	methods in the treatment of	Cytology, histology and	
	animals	embryology Vatarinary migrahiology	
	ammais	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	
1			
		Animal Dentistry	
PC-11	Ability to develop a plan for the surgical operation,	Animal Dentistry Animal anatomy	-

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	e	Veterinary	
	method of anesthesia	Microbiology and	
		Mycology	
		Physiology and ethology	
		of animals	
		pathological physiology	
		Veterinary	
		pharmacology	
		pathological anatomy	
		Operative surgery with	
		topographic anatomy	
		Obstetrics, gynecology	
		and andrology	
		general surgery	
		Private Veterinary	
		Surgery	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
DC 12	The shiller to see 1 t	Reconstructive surgery	
PC-12	The ability to conduct	0 2	-
	surgical intervention in the	Operative surgery with	
	body of animals in the	topographic anatomy	
	treatment of various diseases,	Obstetrics, gynecology	
	castration, sterilization, for	and andrology	
	cosmetic 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 ford-form plants	
		fodder plants	
		Anesthesiology,	
		resuscitation and	
		intensive care	
		Dermatology	
		Cardiology	
		Endocrinology	
		Nephrology	
PC-14	The ability to conduct		_
	repeated examinations and	embryology	
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	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)	-	
	based on the results of		
	evaluating the effectiveness	pathological anatomy	
	of treatment	Instrumental diagnostic	
	or treatment	methods	
		Toxicology	
		Obstetrics, gynecology	
		and andrology Internal non-	
		communicable diseases	
		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	
		Reconstructive surgery	
		Veterinary	
		ophthalmology	
	A 1 *1*	Animal Dentistry	
PC-15	Ability to organize	Virology and	-
	prophylactic immunizations	Biotechnology	
	(vaccinations), therapeutic	Parasitology and	
	and prophylactic treatment of		
	animals in accordance with	Epizootology and	
	the plan of anti-epizootic	infectious diseases	
	measures	Immunology	
		Veterinary sanitation	
		Diseases of bees and	
		entomophages	

		Fish nothalagy and	
		Fish pathology and	
	A 1 *1*4 · · ·	aquaculture	
PC-16	Ability to organize	Veterinary genetics -	
	organizational, technical,	•	
	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	Feeding animals with the	
	diseases	basics of feed production	
		Obstetrics, gynecology	
		and andrology	
		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	Ability to organize	Inorganic and Analytical -	
	disinfection and	Chemistry	
	disinfestation of livestock	Organic chemistry	
	buildings to ensure veterinary	Physical and colloidal	
	and sanitary well-being in		
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	accordance with the plan of	•	
	veterinary and sanitary	5	
	measures	Microbiology and	
		Mycology	
		Virology and	
		Biotechnology	
		Veterinary	
		pharmacology	
		Veterinary sanitation	
		Animal health	
PC-18	The chility to duess we a glass		
PC-18	The ability to draw up a plan		-
	for the medical examination	Physiology and ethology	
	of animals, taking into	of animals	
	account their species and	_	
	purpose, to conduct medical	of private zootechnics	
	examinations, to develop	Animal health and	
	recommendations for	welfare	
	conducting preventive and	Feeding animals with the	
	therapeutic and therapeutic	basics of feed production	
	measures based on the results	pathological physiology	
	of an examination of animals	Veterinary	
	conducted as part of the	pharmacology	
	medical examination	Clinical diagnostics	
	methear examination	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	
		Animal Dentistry	
	1		

	4.1.11		
PC-19	Ability to perform post-	•	-
	mortem diagnostic		
	examination of animals in		
	order to establish	5	
	pathological processes,	pathological anatomy	
	diseases, causes of death	Toxicology	
		Obstetrics, gynecology	
		and andrology	
		Internal non-	
		communicable 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	
		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	welfare	
	diseases, a plan for veterinary	Feeding animals with the	
	and sanitary measures	basics of feed production	

r		~ 1	
		Internal non-	
		communicable diseases	
		general surgery	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		1 00	
		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	
		Fish pathology and	
		aquaculture	
PC-21	Ability to conduct inspections	Veterinary	_
	of the veterinary and sanitary	Microbiology and	
	condition and microclimate	Mycology	
	of livestock buildings in	Virology and	
	e	Biotechnology	
	accordance with the plan for		
	anti-epizootic measures, the	Animal health and	
	plan for the prevention of		
	non-communicable animal	5 05	
	_	Veterinary sanitation	
	veterinary and sanitary	animal health	
	measures		
PC-22	Ability to organize measures	Life safety	-
	to protect the organization		
	from the introduction of		
	infectious and parasitic	Virology and	
	1	biotechnology	
	diseases in accordance with	65	
	the plan of anti-epizootic	Animal health and	
	measures	welfare	
		Veterinary	
		pharmacology	
		Private Veterinary	
		Surgery	
		Parasitology and	
		invasive diseases	
		Epizootology and	
		infectious diseases	
		Organization of veterinary business	

<b></b>			
		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	
		Diseases of bees and	
		entomophages	
		Fish pathology and	
		1 05	
DC 22	Ability to analyze 41.	aquaculture	
PC-23	Ability to analyze the	e	-
	effectiveness of animal	of private zootechnics	
	disease prevention measures	Animal health and	
	in order to improve them	welfare	
		Toxicology	
		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	
		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	
		Fish pathology and	
1		aquaculture	

PC-24	Ability and willing an age to	Discrete la err en d'athe la err	
PC-24	Ability and willingness to	Physiology and ethology	-
	promote veterinary	of animals	
	knowledge, including in the		
	field of animal disease	of private zootechnics	
	prevention	Animal health and	
		welfare	
		Feeding animals with the	
		basics of feed production	
		pathological physiology	
		pathological anatomy	
		Toxicology	
		Obstetrics, gynecology	
		and andrology	
		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	
L		Definatology	

Cardiology
Endocrinology
Nephrology
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 "Academic research practice with the preparation of a scientific qualification project" is 12 credits (432 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. Preparation of	Development of a research plan	20
the SCP	Conducting research as part of the preparation of the SCP	250
	Analysis of the results	106
	SCP preparation	38
Preparation of a practice rep	9	
Preparation for the defense	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**

"Academic research practice with the preparation of a scientific qualification project" 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:

 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:

- 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
- 3. Baymishev, Kh. B. Gynecology and andrology: guidelines / Kh. B. Baymishev. - Samara : SamGAU, 2018. - 106 p. https://e.lanbook.com/book/109422
- 4. 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=4650 28&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. 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. 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
- 11.11. 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
- 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. 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=4649 30&idb=0
- 14. 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=4649 41&idb=0
- 15. 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. 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. 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. 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. 19. Zabolotnykh M. V., Ivkova I. A., Zhidik I. Yu. Fundamentals of the organization of veterinary and sanitary business: textbook 2020.-91s
- 20. 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. https://e.lanbook.com/book/162385

#### 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"
- .....
- 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 preparation for passing the SE and / or performing the FQW and preparing the work for the defense in the RUDN LMS TUIS \*:

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.

<sup>\* -</sup> all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the FSC page in 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).

#### **DEVELOPER:**

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Assistant at the Department of Veterinary Medicine		Rodionova N.Yu.
Possition, Educational Department	Signature	Name
HEAD OF THE GRADUATE DEPARTM	ENT:	
		<b>T</b> T , <b>1</b> 1 <b>T</b> T A
Department of Veterinary Medicine		Vatnikov Yu.A.
Educational Department	Signature	Name
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HEAD OF THE HIGHER EDUCATION PROG	KAM:	
Professor of the Department of Veterinary Medicine		Vatnikov Yu.A.
Professor of the Department of veterinary Medicine	vaunkov ru.A.	

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\_\_\_\_\_

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Signature