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**Federal State Autonomous Educational Institution for Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
(RUDN University)
Agrarian and Technological Institution**

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 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	Ability to organize and manage the work of a team, developing a team strategy to achieve the goal	UC-3.1 Determines his role in the team, based on the strategy of cooperation to achieve the goal
		UC-3.2 Formulates and takes into account in its activities the behavioral characteristics of groups of people 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, speaking, reading, writing and translating in everyday life , sociocultural, educational, professional, official, business and scientific spheres of communication	UC-4.1 Chooses the style of business communication, depending on the language of communication, the purpose and conditions of the partnership
		UC-4.2 Adapts speech, communication style and body language to interaction situations
		UC-4.3 Searches for the necessary information to solve standard communication tasks in Russian 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 Russian and foreign languages, taking into account 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, taking into account 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 take into account 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 Takes into account, 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, taking into account 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 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 implement the priorities of one's own activity and ways to improve it based on self-assessment and lifelong learning	UC-6.1 Controls the amount of time spent on specific activities
		UC-6.2 Develops tools and methods for time management when performing specific tasks, 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, 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 level of physical fitness to ensure full-fledged social and professional activities	UC-7.1 Selects health-saving technologies to maintain a healthy lifestyle, taking into account the physiological characteristics of the body;
		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 safe living conditions in everyday life and in professional activities to preserve the natural environment, ensure the sustainable development of society, including in the event of a threat and the occurrence of emergencies and military conflicts	UC-8.1 Analyzes the factors of harmful influence on the life of the elements of the environment (technical means, technological processes, materials, buildings and structures, natural and social phenomena)
		UC-8.2 Identifies hazardous and harmful factors within the framework of the task being 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 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 professional activities and submit reporting documents using specialized databases.	GPC-5.1 Has the skills to search for the necessary forms of documentation on official websites and specialized databases
		GPC-5.2 Proficient in professional terminology and skills in filling out analytical and reporting 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 of occurrence and spread of diseases.	GPC-6.1 Has knowledge in the field of etiology and pathogenesis of animal diseases of different species
		GPC-6.2 Has the skills to diagnose non-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 operation of modern information technologies and use them to solve problems of professional activity.	GPC-7.1 Understands the principles of operation of modern computer equipment and telecommunications and knows how to use them 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 effectiveness of anti-epizootic measures
PC-1	The ability to collect an anamnesis of the life and disease of animals to identify the causes of diseases and their nature	PC-1.1 Able to collect an anamnesis of the animal's life and reflect this in the relevant service documentation
		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
PC-2	Ability to conduct a general clinical study of animals in order to establish a preliminary diagnosis and determine a further research	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

	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 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 interventions and take measures to prevent them
PC-11	Ability to develop a plan for the surgical operation, including the choice of method of anesthesia	PC-11.1 Able to develop a plan for a surgical operation
		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
		PC-12.4 Able to assist the operating surgeon during surgical interventions
		PC-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 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 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, taking into account 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 treatment.
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 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	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-

		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	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	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 purpose
		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	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 post-mortem 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**".

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, practices	Subsequent disciplines/modules, practices
UC-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	History Philosophy Life safety 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 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 all stages of its life cycle	Philosophy Organization of veterinary business Maths Introduction to the specialty Fundamentals of Economics and Management	-

		<p>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</p>	
UC-3	Ability to organize and manage the work of a team, developing a team strategy to achieve the goal	<p>Jurisprudence Life safety Operative surgery with 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</p>	-

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, speaking, reading, writing and translating in everyday life, sociocultural, educational, professional, official, business and scientific spheres of communication	Latin language Fundamentals of Rhetoric and Communication Veterinary deontology Foreign language Russian as a foreign language) Fundamentals of intellectual work 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 Russian language	-
UC-5	Ability to analyze and take into account the diversity of cultures in the process of intercultural interaction	History Jurisprudence Philosophy 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	-

		<p>Foreign language. Translation of special texts</p> <p>Russian language. Translation of special texts</p> <p>Foreign language. Professional communications</p> <p>Russian language. Professional communications</p>	
UC-6	The ability to determine and implement the priorities of one's own activity and ways to improve it based on self-assessment and lifelong learning	<p>Philosophy</p> <p>Internal non-communicable diseases</p> <p>general surgery</p> <p>Private Veterinary Surgery</p> <p>Epizootology and infectious diseases</p> <p>Organization of veterinary business</p> <p>Maths</p> <p>Introduction to the specialty</p> <p>Veterinary deontology</p> <p>Fundamentals of intellectual work</p> <p>Psychology of personality and professional self-determination</p> <p>Career Management</p> <p>Fundamentals of social and legal knowledge</p> <p>Reconstructive surgery</p>	-
UC-7	The ability to maintain the proper level of physical fitness to ensure full-fledged social and professional activities	<p>Life safety</p> <p>Physical Culture</p> <p>Applied physical education</p> <p>Career Management</p>	-
UC-8	The ability to create and maintain safe living conditions in everyday life and in professional activities to preserve the natural environment, ensure the sustainable development of society, including in the event of a threat and the occurrence of emergencies and military conflicts	<p>History</p> <p>Inorganic and Analytical Chemistry</p> <p>Organic chemistry</p> <p>biological physics</p> <p>Physical and colloidal chemistry</p> <p>Life safety</p> <p>biological chemistry</p> <p>Veterinary microbiology and mycology</p>	-

		<p>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</p>	
UC-10	The ability to make informed economic decisions in various areas of life	<p>Veterinary and sanitary examination Organization of veterinary business Maths Fundamentals of Economics and Management Economics and organization of agricultural production Veterinary and manufacturing laboratories with design basics</p>	-
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	<p>Jurisprudence Computer science Philosophy Life safety Instrumental diagnostic methods Organization of veterinary business Forensic veterinary examination and autopsy of animals Maths Veterinary deontology Medicinal and poisonous plants Fundamentals of intellectual labor Psychology of personality and</p>	-

		<p>professional self-determination</p> <p>Clinical laboratory diagnostics</p> <p>Laboratory diagnostics of infectious and parasitic diseases</p> <p>Organization of state veterinary supervision</p> <p>Veterinary and manufacturing laboratories with design basics</p> <p>Biometrics in veterinary medicine</p> <p>Fundamentals of social and legal knowledge</p> <p>Space technologies in the service of the agro-industrial complex</p>	
GPK-1	The ability to determine the biological status and normative clinical indicators of organs and systems of the animal body	<p>Animal anatomy</p> <p>Cytology, histology and embryology</p> <p>Physiology and ethology of animals</p> <p>pathological physiology</p> <p>Clinical diagnostics</p> <p>pathological anatomy</p> <p>Instrumental diagnostic methods</p> <p>Obstetrics, gynecology and andrology</p> <p>Immunology</p> <p>Clinical laboratory diagnostics</p> <p>Laboratory diagnostics of infectious and parasitic diseases</p> <p>Veterinary and manufacturing laboratories with design basics</p> <p>Diseases of bees and entomophages</p> <p>Fish pathology and aquaculture</p> <p>Anesthesiology, resuscitation and intensive care</p>	-
GPK-2	The ability to interpret and evaluate in professional activities the impact on the	<p>Biology with the basics of ecology</p> <p>Veterinary genetics</p>	-

	<p>physiological state of the animal organism of natural, socio-economic, genetic and economic factors</p>	<p>Veterinary microbiology and mycology Virology and 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 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</p>	
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		Dermatology Cardiology Endocrinology Nephrology Veterinary ophthalmology Animal Dentistry	
GPK-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.	Inorganic and Analytical Chemistry Organic chemistry biological physics Computer science Physical and colloidal chemistry Cytology, histology and 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	-

		<p>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</p>	
GPK-5	The ability to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases	<p>Veterinary genetics Computer science Breeding with the basics of private zootechnics Clinical diagnostics pathological anatomy Operative surgery with topographic anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Internal non-communicable diseases</p>	-

		<p>Parasitology and invasive diseases</p> <p>Epizootology and infectious diseases</p> <p>Veterinary and sanitary examination</p> <p>Organization of veterinary business</p> <p>Forensic veterinary examination and autopsy of animals</p> <p>Veterinary deontology</p> <p>Economics and organization of agricultural production</p> <p>Clinical laboratory diagnostics</p> <p>Laboratory diagnostics of infectious and parasitic diseases</p> <p>Organization of state veterinary supervision</p> <p>Veterinary and manufacturing laboratories with design basics</p> <p>Anesthesiology, resuscitation and intensive care</p> <p>Dermatology</p> <p>Cardiology</p> <p>Endocrinology</p> <p>Nephrology</p>	
GPK-6	Ability to analyze, identify and carry out a risk assessment of the risk of the emergence and spread of diseases	<p>Biology with the basics of ecology</p> <p>Life safety</p> <p>Veterinary microbiology and mycology</p> <p>Virology and biotechnology</p> <p>Animal health and welfare</p> <p>Feeding animals with the basics of feed production</p> <p>Veterinary radiobiology</p> <p>Clinical diagnostics pathological anatomy</p> <p>Instrumental diagnostic methods</p> <p>Toxicology</p> <p>Obstetrics, gynecology and andrology</p>	-

		<p>Internal non-communicable diseases</p> <p>general surgery</p> <p>Private Veterinary Surgery</p> <p>Parasitology and invasive diseases</p> <p>Epizootology and infectious diseases</p> <p>Veterinary and sanitary examination</p> <p>Organization of veterinary business</p> <p>Forensic veterinary examination and autopsy of animals</p> <p>Introduction to the specialty</p> <p>General and veterinary ecology</p> <p>Veterinary sanitation</p> <p>Technology of processing livestock products</p> <p>Medicinal and poisonous plants</p> <p>fodder plants</p> <p>animal health</p> <p>Clinical laboratory diagnostics</p> <p>Laboratory diagnostics of infectious and parasitic diseases</p> <p>Organization of state veterinary supervision</p> <p>Equine diseases</p> <p>Diseases of productive animals</p> <p>Diseases of small animals</p> <p>Diseases of small pets</p> <p>Diseases of bees and entomophages</p> <p>Fish pathology and aquaculture</p> <p>Diseases of exotic animals</p> <p>Anesthesiology, resuscitation and intensive care</p> <p>Veterinary ophthalmology</p>	
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		Animal Dentistry	
GPK-7	Able to understand the principles of operation of modern information technologies and use them to solve problems of professional activity	Computer science Instrumental diagnostic methods Organization of veterinary business Maths 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 anamnesis of the life and disease of animals to identify the causes of diseases and their nature	Veterinary genetics Physiology and ethology of animals Breeding with the basics 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 Private Veterinary Surgery Parasitology and invasive diseases Epizootology and infectious diseases Fundamentals of Rhetoric and Communication Veterinary deontology	-

		Zoopsychology animal health Psychology of personality and professional self- determination 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-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	Animal anatomy Physiology and ethology of animals pathological physiology Clinical diagnostics pathological anatomy Obstetrics, gynecology and andrology Diseases of bees and entomophages Fish pathology and aquaculture Anesthesiology, resuscitation and intensive care	-
PC-3	Ability to develop animal research programs using special (instrumental) and laboratory methods	Animal anatomy Organic chemistry biological physics Physical and colloidal chemistry biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals	-

		<p> 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 </p>	
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PC-5	The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods	<p>Veterinary genetics Cytology, histology and embryology Physiology and ethology of animals 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</p>	-
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PC-6	Ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals	<p>Veterinary genetics 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 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</p>	
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	<p>Inorganic and Analytical Chemistry Organic chemistry Physical and colloidal chemistry biological chemistry</p>	-

	pharmacological effect on the body	<p>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 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</p>	
PC-8	Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals	<p>Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Feeding animals with the basics of feed production pathological physiology</p>	-

		<p>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</p>	
PC-9	The ability to conduct medical, including physiotherapy procedures using special equipment in compliance with safety rules	<p>Animal anatomy 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 Diseases of small animals Diseases of small pets Diseases of exotic animals Anesthesiology, resuscitation and intensive care Dermatology Cardiology Endocrinology</p>	-

		Nephrology Reconstructive surgery Veterinary ophthalmology Animal Dentistry	
PC-10	The ability to determine the need for the use of surgical methods in the treatment of animals	Veterinary genetics Cytology, histology and embryology 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 surgical operation, including the choice of method of anesthesia	Animal anatomy Veterinary 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 Reconstructive surgery	
PC-12	The ability to conduct surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes	Pathological anatomy Operative surgery with topographic anatomy Obstetrics, gynecology and andrology Reconstructive surgery	-
PC-13	Ability to develop recommendations for special feeding of sick animals for therapeutic purposes	Physiology and ethology of animals Feeding animals with the basics of feed production pathological physiology 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 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	Cytology, histology and embryology Physiology and ethology of animals pathological physiology Veterinary pharmacology Clinical diagnostics pathological anatomy Instrumental diagnostic methods Toxicology Obstetrics, gynecology and andrology Internal non-communicable diseases	-

		<p>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</p>	
PC-15	Ability to organize prophylactic immunizations (vaccinations), therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures	<p>Virology and Biotechnology Parasitology and invasive diseases Epizootology and infectious diseases Immunology Veterinary sanitation Diseases of bees and entomophages Fish pathology and aquaculture</p>	-
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	<p>Veterinary genetics Life safety Physiology and ethology of animals Breeding with the basics of private zootechnics Animal health and welfare Feeding animals with the basics of feed production Obstetrics, gynecology and andrology</p>	-

		<p>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</p>	
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	<p>Inorganic and Analytical Chemistry Organic chemistry Physical and colloidal chemistry Life safety Veterinary Microbiology and Mycology Virology and Biotechnology Veterinary pharmacology Veterinary sanitation Animal health</p>	-
PC-18	The ability to draw up a plan for the medical examination of animals, taking into account their species and purpose, to	<p>Veterinary genetics Physiology and ethology of animals</p>	-

	<p>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</p>	<p>Breeding with the basics of private zootechnics Animal health and welfare Feeding animals with the basics of feed production pathological physiology 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 Animal Dentistry</p>	
<p>PC-19</p>	<p>Ability to perform post-mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death</p>	<p>Animal anatomy Cytology, histology and embryology Life safety pathological anatomy Toxicology Obstetrics, gynecology and andrology Internal non-communicable diseases general surgery Private Veterinary Surgery</p>	<p>-</p>

		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 plan for anti-epizootic measures, a plan for the prevention of non- communicable animal diseases, a plan for veterinary and sanitary measures	Veterinary Microbiology and Mycology Animal health and welfare Feeding animals with the 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	-

		<p>Fundamentals of Economics and Management</p> <p>Veterinary sanitation Economics and organization of agricultural production animal health</p> <p>Diseases of bees and entomophages</p> <p>Fish pathology and aquaculture</p>	
PC-21	<p>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</p>	<p>Veterinary Microbiology and Mycology</p> <p>Virology and Biotechnology</p> <p>Animal health and welfare</p> <p>Veterinary radiobiology</p> <p>Veterinary sanitation animal health</p>	-
PC-22	<p>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</p>	<p>Life safety</p> <p>Veterinary microbiology and mycology</p> <p>Virology and biotechnology</p> <p>Animal health and welfare</p> <p>Veterinary pharmacology</p> <p>Private Veterinary Surgery</p> <p>Parasitology and invasive diseases</p> <p>Epizootology and infectious diseases</p> <p>Organization of veterinary business</p> <p>General and veterinary ecology</p> <p>Veterinary sanitation</p> <p>Technology of processing livestock products animal health</p> <p>Laboratory diagnostics of infectious and parasitic diseases</p> <p>Organization of state veterinary supervision</p>	-

		Diseases of bees and entomophages Fish pathology and aquaculture	
PC-23	Ability to analyze the effectiveness of animal disease prevention measures in order to improve them	Breeding with the basics of private zootechnics Animal health and 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 aquaculture	-
PC-24	Ability and willingness to promote veterinary knowledge, including in the field of animal disease prevention	Physiology and ethology of animals Breeding with the basics of private zootechnics Animal health and welfare Feeding animals with the basics of feed production pathological physiology pathological anatomy Toxicology Obstetrics, gynecology and andrology	-

		<p>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 Veterinary ophthalmology Animal Dentistry Foreign language for special purposes Russian language for special purposes</p>	
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		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., revised. - 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. <https://e.lanbook.com/book/162385>

Additional reading:

1. 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>
3. 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>
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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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