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**Федеральное государственное автономное образовательное учреждение
высшего образования «Российский университет дружбы народов»**

Аграрно-технологический институт

(наименование основного учебного подразделения (ОУП) – разработчика ОП ВО)

Утверждена на заседании Ученого
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от «24» января 2011 г.

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№ 353
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**ОСНОВНАЯ ПРОФЕССИОНАЛЬНАЯ ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА
ВЫСШЕГО ОБРАЗОВАНИЯ (ОП ВО)**

Направление подготовки/специальность:

36.05.01 Veterinary

(код и наименование направления подготовки/специальности)

Направленность (профиль/специализация):

(наименование ОП ВО)

Образовательная программа разработана в соответствии с требованиями:
ОС ВО РУДН, утвержденного приказом ректора №371 от «21» мая 2021 г.

Уровень образования:

специалитет

(бакалавриат/специалитет/магистратура/ординатура – вписать нужное)

Квалификация выпускника:

Ветеринарный врач

(квалификация выпускника в соответствии с приказом Минобрнауки России от 12.09.2013 г. №1061)

Срок получения образования по ОП ВО:

5 лет

(очная форма обучения)

(очно-заочная форма
обучения)

(заочная форма
обучения)

Сведения об особенностях реализации программы: программа реализуется на английском языке

СОГЛАСОВАНО:

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2022 г.

1. AIM (MISSION) OF THE HIGHER EDUCATION PROGRAM

The aim of the program: training of highly qualified, competitive, innovation-oriented specialists in the field of veterinary medicine.

The program is aimed at the formation of a modern veterinarian capable of implementing professional tasks to ensure the veterinary welfare of animals and humans in various conditions for the application of professional competencies: in the conditions of industrial or farm production of livestock products, in veterinary clinics, veterinary laboratories, scientific and research and production institutions.

A graduate of the program has such personal qualities as responsibility for the result, motivation in obtaining and mastering professional knowledge, striving for personal and professional growth and development. In the process of learning in a multinational environment, the student develops social and communication skills, receives a moral and ethical basis for future professional activities, learns to use general and professional knowledge for socially significant, safe and successful activities, taking into account the legal provisions of his state and the world community as a whole.

The development of general professional competencies in accordance with the requirements of the ES HE RUDN/FSES HE allows the graduate of the program to flexibly shape his professional career, taking into account the demands of the labor market, both within the main specialty and at the junctions of various areas of human activity.

The formation and development of professional competencies, taking into account the interests of the student and his future career development trajectory, allows students to become a specialist in demand in their field even at the stage of education.

2. RELEVANCE, SPECIFICITY, UNIQUENESS OF THE EDUCATIONAL PROGRAM

The program trains veterinarians capable of treating small and large, productive and non-productive animals (companion, zoo and wild animals). The basic knowledge acquired by students in the first three years of the program allows them to choose any direction of their professional development in the future. In the course of studying the program, thanks to the disciplines of specializations, the foundations for further postgraduate specialized development of graduates are laid.

The term of study under the program is 5 years for full-time education and 5 years 6 months for part-time (evening) education.

The volume of the specialist's program is 300 credit units (hereinafter referred to as credits), regardless of the form of education, educational technologies used, implementation of the specialist's program according to an individual curriculum.

The volume of the specialist's program implemented in one academic year is no more than 70 credits. regardless of the form of study, the educational technologies used, the implementation of the specialist's program according to an individual curriculum (with the exception of accelerated learning), and with accelerated learning - no more than 80 credits

A specific difference between the educational program 36.05.01 "Veterinary Medicine" of ATI RUDN University can be called a unique combination of deep basic knowledge that students receive on the basis of RUDN University and modern approaches to practical activities for the treatment of animals acquired by students on the basis of partner enterprises during field studies, practices and internships.

Students have the opportunity already in their first years to choose the direction of their scientific and / or professional development and already in the learning process to pay more attention to those scientific and practical areas that will later become the main ones in their profession. Much attention is paid to the participation of students in the development and testing of innovative methods of veterinary practice on the basis of clinical departments and partner enterprises.

3. THE NEED OF THE LABOR MARKET FOR THE HIGHER EDUCATION PROGRAM

The field of professional activity of graduates of the specialist's programs in the specialty 36.05.01 Veterinary includes:

01 Education and science (in the field of vocational training, vocational education and additional professional education, in the field of scientific research),

13 Agriculture (in the areas of: preservation and provision of animal health; prevention and treatment of all types of animals, including birds, bees, fish and hydrobionts; improvement of the productive qualities of animals; veterinary control; forensic veterinary and veterinary sanitary examination).

The list of organizations in which a graduate can carry out professional activities:

- state administrative structures
- Animal disease control stations
- public and private veterinary clinics
- agro-industrial holdings
- customs structures
- higher education institutions
- research and production associations and research institutes
- foreign and domestic food industry enterprises
- enterprises for the production of animal feed
- trading structures
- accredited and production laboratories
- enterprises for the production of biological products
- veterinary pharmacies
- veterinary laboratories
- pet stores
- stud farms and equestrian clubs
- zoos
- markets, etc.

A graduate can hold the following wide range of positions: veterinarian; veterinary consultant; veterinary laboratory assistant; chief veterinarian of a veterinary clinic or veterinary enterprise; head of a veterinary pharmacy or laboratory; quality control specialist for veterinary goods; sales representative for the sale of drugs and veterinary products; sanitation specialist; specialist in registration of veterinary drugs; manager of the department of scientific communications for work with specialists in the zoo business (trainer, lecturer); cynologist; researcher, etc.

4. SPECIAL REQUIREMENTS FOR POTENTIAL APPLICANTS

A potential applicant of the educational program must have an education not lower than

secondary general.

Characteristics of entrance examinations: written exam in the form of the Unified State Examination in the disciplines: biology, Russian language, mathematics / physics / chemistry / foreign language; Olympiad results and other individual achievements are taken into account.

Admission to the university for training under the specialist's program based on the results of entrance examinations formed by the university is carried out for the following categories of citizens:

- having secondary vocational education;
- having a secondary general or vocational education obtained in educational institutions of foreign countries.

5. FEATURES OF THE IMPLEMENTATION OF THE HIGHER EDUCATION PROGRAM

The higher education program is implemented with elements of e-learning / distance learning technologies. E-learning, distance learning technologies used in the training of disabled people and persons with disabilities (hereinafter referred to as the disabled and persons with disabilities) should provide for the possibility of receiving and transmitting information in forms accessible to them.

5.1. The language of implementation of the higher education program is Russian/English

5.2. The program is adapted for teaching the disabled and people with disabilities.

5.3. The higher education program is implemented by RUDN University.

Information about partner organizations involved in the implementation of the higher education program:

Name of partner organization	Interaction functionality
State budgetary institution of the city of Moscow "Moscow Association of Veterinary Medicine"	Scientific work, practices, internships, organization of joint career guidance events and professional skill competitions
Federal State Budgetary Institution "All-Russian State Center for Quality and Standardization of Medicines for Animals and Feed"	Scientific work
Federal State Budgetary Scientific Institution "Federal Scientific Center for Food Systems named after V.I. V.M. Gorbatov" RAS	Scientific work, internships and practice of students
Federal State Budgetary Institution "Central Scientific and Methodological Veterinary Laboratory"	Scientific work, joint educational activities, educational practices
Federal State Budgetary Educational Institution of Higher Education "Moscow State Academy of Veterinary Medicine and Biotechnology - MVA named after K.I. Scriabin"	Scientific work, joint educational activities, educational practices
Federal State Budgetary Scientific Institution "All-Russian Research Veterinary Institute of Pathology, Pharmacology and Therapy"	Scientific work, joint educational activities, educational practices
Federal State Budgetary Institution "National Medical Research Center for Radiology" of the Ministry of Health of the Russian Federation	Scientific work, joint educational activities, educational practices

Federal State Budgetary Institution "Federal Center for Animal Health"	Scientific work, joint educational events,
VETZdorovyе LLC / MEDVET	Scientific work, practice and internships for students, joint educational events
LLC "Veterinary Clinic of KSK Novy Vek"	Scientific work, practice and internships for students, joint educational events
LLC IVTS MVA veterinary reference center	Scientific work, practice and internships for students, joint educational events
...and many others	

5.1. Information about the planned bases for conducting educational / production practices

Practice*	Practice base (name of organization, location)
Educational practice (introductory, field trip)	State Autonomous Institution of Culture "Moscow State Zoological Park" VETZdorovyе LLC / MedVet LLC, Moscow and Moscow Region LLC "Veterinary Clinic of KSK Novy Vek", MO LLC IVTS MVA veterinary reference center, Moscow RADENIS LLC, MO LLC "AMVET", Moscow Federal State Budgetary Institution "Federal Center for Animal Health", Vladimir
Industrial practice (medical, technological, undergraduate, field)	VETZdorovyе LLC / MedVet LLC LLC VK ZooAkademiya LLC Belyi Klyk-M LLC "Biocontrol" LLC Veterinary Center "Otrada" LLC Veterinary clinic "Odivet" IP Bokarev A.N. ...and many others

* - the type of internship is indicated (educational/industrial), the type of internship - its name (introductory, technological, research, undergraduate, etc.), method of conducting (stationary / visiting).

6. CHARACTERISTICS OF THE PROFESSIONAL ACTIVITY OF THE HIGHER EDUCATION PROGRAM GRADUATE

6.1. The area (s) and / or area (s) of professional activity of a graduate who has mastered the higher education program, in which (s) he can carry out his professional activity:

01 Education and science (in the field of vocational training, vocational education and additional professional education, in the field of scientific research),

13 Agriculture (in the areas of: maintaining and ensuring the health of animals; prevention and treatment of all types of animals, including birds, bees, fish and hydrobionts; improving the productive qualities of animals; veterinary control; forensic veterinary and veterinary sanitary examination).

Graduates can carry out professional activities in other areas of professional activity and (or) areas of professional activity, provided that their level of education and acquired competencies meet the requirements for the qualification of an employee.

6.2. Type (s) of tasks of professional activity, for the solution of which a graduate is preparing as part of the development of the higher education program :

- medical;
- expert control;
- scientific and educational.

6.3. The list of generalized labor functions and labor functions related to the professional activity of a graduate of the higher education program, in accordance with which the program was developed*

Code and name of prof. standard	Generalized labor functions			Labor functions		
	Code	Name	level of qualification	Name	Code	level (sublevel) of qualification
141 Veterinary worker (type of professional activity - Ensuring the veterinary welfare of animals and humans code 13.012 ARCO code - 2250 Veterinarians RNCE code - Veterinary activity)	G	Оказание ветеринарной помощи животным всех видов	7	Conducting a clinical examination of animals in order to establish a diagnosis	G/01.7	7
				Carrying out measures for the treatment of sick animals	G/02.7	7
				Management of the system of measures to prevent the occurrence of non-contagious, infectious and parasitic animal diseases	G/03.7	7

* - the wording of labor functions is adopted from the relevant Professional Standards (if any).

7. REQUIREMENTS FOR THE LEARNING OUTCOMES OF THE HIGHER EDUCATION PROGRAM

7.1 At the end of the development of the higher education program the graduate must have the following universal competencies (UC):

Code and name of the UC	Code and name of the indicator of achievement of competence
UC-1 The ability to search, critical analysis and synthesis of information, apply a systematic approach to solve the tasks.	UC-1.1. Analyzes the task, highlighting its basic components; UC-1.2. Determines and ranks the information required to solve the problem; 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 the ways of solving problems of a worldview, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural context.
UC-2 The ability to determine the range of tasks within the set goal and choose the best ways to solve them, based on the current legal norms, available resources and restrictions.	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 norms 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 The ability to carry out social interaction and realize their role in the team	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; UC-3.4. Carries out the exchange of 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 into everyday,	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 communicative 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

<p>socio-cultural, educational, professional, official, business and scientific spheres of communication.</p>	<p>correspondence; UC-4.6. Uses dialogue for academic collaboration 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 his own assessment of the main ideas of the participants in the dialogue (discussion) in accordance with the needs of joint activities.</p>
<p>UC-5 The ability to perceive the intercultural diversity of society in the socio-historical, ethical and philosophical contexts.</p>	<p>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.</p>
<p>UC-6 The ability to manage one's time, build and implement the trajectory of self-development based on the principles of lifelong education.</p>	<p>UC-6.1. Controls the amount of time spent on specific activities; UC-6.2. Develops tools and methods of time management in the performance of specific tasks, projects, goals; UC-6.3. Analyzes his 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 continuous 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. Determines the tasks of self-development, goals and priorities of professional growth; UC-6.7. Divides tasks into long, medium and short term</p>
<p>UC-7 The ability to maintain the proper level of physical fitness to ensure full-fledged social and professional activities.</p>	<p>UC-7.1. Chooses 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</p>
<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</p>	<p>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 dangerous and harmful factors within the framework of the task being performed;</p>

sustainable development of society, including in the event of a threat and the occurrence of emergencies and military conflicts.	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. Explains 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 events.
UC-9 Ability to use basic defectological knowledge in social and professional areas.	UC-9.1. Possesses ideas about the principles of non-discriminatory interaction in communication in various spheres of life, taking into account the socio-psychological characteristics of persons with disabilities; UC-9.2. Plans and carries out professional activities with persons with disabilities or disabilities. UC 9.3. Interacts with persons with disabilities or disabilities in social and professional areas.
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 personal economic and financial planning methods to achieve current and long-term financial goals; UC-10.3. Uses financial instruments to manage personal finances (personal budget), controls own economic and financial risks.
UC-11 The ability to form an intolerant attitude towards corrupt behavior.	UC-11.1. Analyzes the current legal norms that ensure the fight against corruption in various areas of life, as well as ways to prevent corruption and form an intolerant attitude towards it; UC-11.2. Plans, organizes and conducts activities that ensure the formation of a civil position and the prevention of corruption in society; UC-11.3. Complies with the rules of social interaction based on compliance with current legislation and an intolerant attitude towards corruption.
UC-12 The ability to search for the necessary sources of information and data, to 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;	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.

7.2. Upon completion of mastering the Higher Education Program, the graduate must have the following general professional competencies (GPC):

Code and name of the GPC	Code and name of the indicator of achievement of competence
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 specific features GPC 1.2. Able to predict expected violations of the biological status in case of suspected development of diseases GPC 1.3. Able to determine the main indicators of the activity of

	<p>individual body systems and draw conclusions about the presence of deviations from the normative values.</p> <p>GPC 1.4. Possesses the skills of taking samples of biological fluids and tissues for research, performing laboratory tests, interpreting research results.</p>
<p>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.</p>	<p>GPC-2.1. Has knowledge of the influence of natural, socio-economic, genetic and economic factors on the animal organism.</p> <p>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</p> <p>GPC-2.3. Owns methods of preventive and therapeutic correction of the impact of adverse environmental factors that can cause a deterioration in the health of animals</p>
<p>GPC-3 The ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of the agro-industrial complex.</p>	<p>GPC-3.1. Knows modern legal norms, both state and international, regulating activities in the field of veterinary medicine, veterinary and sanitary examination and agro-industrial complex</p> <p>GPC-3.2. Possesses the skills of updating legal information, including in the field of agro-industrial complex</p> <p>GPC-3.3. Carries out activities in accordance with regulatory legal acts in the field of agro-industrial complex, as well as in the field of veterinary medicine and veterinary and sanitary examination.</p>
<p>GPC-4 The ability to use in professional activities methods of solving problems using modern equipment in the development of new technologies and to use modern professional methodology for conducting experimental studies and interpreting their results.</p>	<p>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</p> <p>GPC-4.2. Owns methods of solving problems using modern equipment</p> <p>GPC-4.3. Ready to use modern methodology in the development and conduct of experimental studies</p> <p>GPC-4.4. Uses modern professional methodology when interpreting research results</p>
<p>GPC-5 The ability to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases.</p>	<p>GPC-5.1. Has the skills to search for the necessary forms of documentation on official websites and specialized databases</p> <p>GPC-5.2. Proficient in professional terminology and skills in filling out analytical and reporting documents of a professional nature</p> <p>GPC-5.3. Able to use specialized software for analyzing the results of professional activity and compiling reporting documentation.</p>
<p>GPC-6 The ability to analyze, identify and carry out a risk assessment of the risk of the emergence and spread of diseases.</p>	<p>GPC-6.1. He has knowledge in the field of etiology and pathogenesis of animal diseases of different species.</p> <p>GPC-6.2. Has the skills to diagnose non-contagious, infectious and parasitic diseases, identify pathogens of infectious and parasitic diseases in animals.</p> <p>GPC-6.3. Knows patterns of occurrence and spread of diseases in animal populations, factors predisposing to diseases and causes of possible complications.</p>
<p>GPC-7 The ability to understand the principles of modern information technology and use them to solve problems of professional activity.</p>	<p>GPC-7.1. Understands the principles of operation of modern computer equipment and telecommunications and knows how to use them to solve professional problems</p> <p>GPC-7.2. Uses modern special software and specialized databases to solve professional problems and perform job duties</p> <p>GPC-7.3. Has the skills to work on modern medical diagnostic and treatment equipment with software</p> <p>GPC-7.4. Uses specialized databases to solve professional problems in the field of diagnostics and treatment of animals of various species</p>

	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
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7.3. The list of professional competencies (PC) * that a graduate who has fully mastered the Higher Education Program should have:

Code and name of the PC	Code and name of the indicator of achievement of competence	Code and name of prof. standard on the basis of which PC is formulated
PC-1 Ability to collect an anamnesis of life and illness of animals to identify the causes of diseases and their nature	PC-1.1. Able to collect an anamnesis of the life of the animal and reflect this in the relevant service documentation PC-1.2. Able to take anamnesis of the animal's disease and reflect it in the patient's medical history PC-1.3. Able to identify possible causes of a 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	Professional Standard 141 Veterinarian (type of professional activity - Ensuring the veterinary welfare of animals and humans code 13.012 ARCO code - 2250 Veterinarians
PC-2 The 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	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 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 programs for animal research, 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 massive comprehensive animal research programs (medical examination programs) of animals, taking into account their type and purpose, both general and special	
PC-4. The ability to conduct clinical studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis	PC-4.1. Able to conduct additional studies of animals using laboratory methods to clarify the diagnosis PC-4.2. Able to conduct additional studies of animals using special (instrumental) methods to clarify the diagnosis	
PC-5. The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental)	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	

and laboratory research methods	(instrumental) and laboratory studies	
PC-6 Ability to develop an animal treatment plan based on the established diagnosis and individual characteristics of animals	<p>PC-6.1. Able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals</p> <p>PC-6.2. Able to develop recommendations for therapeutic and prophylactic manipulations to prevent diseases, the high probability of which was revealed in the study of the patient</p> <p>PC-6.3. Able to develop recommendations for conducting preventive and therapeutic and therapeutic measures based on the results of animal examinations conducted as part of medical examination</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 pharmacological effect on the body	<p>PC-7.1. Able to choose drugs of 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</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p>	
PC-8 Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals	<p>PC-8.1. Able to choose and justify his choice of methods of non-drug therapy, including physiotherapy methods, for the treatment of animals</p> <p>PC-8.2. Able to assess the effectiveness of the chosen method in treating the patient and, if necessary, adjust the treatment method or change the chosen method to another</p>	
PC-9 Ability to conduct medical, including physiotherapy procedures using special equipment in compliance with safety rules	<p>PC-9.1. Able to carry out medical, including physiotherapy, procedures using special equipment in compliance with safety rules</p> <p>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</p>	
PC-10 The ability to determine the need for the use of surgical methods in the treatment of animals	<p>PC-10.1. Able to determine the need for the use of surgical methods in the treatment of animals</p> <p>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</p> <p>PC-10.3. Able to take into account the risks and possible complications that accompany surgical interventions and take measures to prevent them</p>	
PC-11 Ability to develop a plan for a surgical operation, including the choice of anesthesia method	<p>PC-11.1. Able to develop a plan for the surgical operation</p> <p>PC-11.2. Able to choose and justify the best option for patient anesthesia during the surgical operation and in the postoperative period</p>	

<p>PC-12 The ability to conduct surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes</p>	<p>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 the patient for 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</p>	
<p>PC-13 Ability to develop recommendations for special feeding of sick animals for therapeutic purposes</p>	<p>PC-13.1. Able to justify the appointment of special feeding to 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.</p>	
<p>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</p>	<p>PC-14.1. Able to develop a plan for repeated studies necessary and sufficient to assess the 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 the 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.</p>	
<p>PC-15 Ability to organize preventive immunizations (vaccinations), therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures</p>	<p>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</p>	
<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</p>	<p>PC-16.1. Able to assess the impact of the conditions of keeping and feeding animals on their health as part of the implementation of action plans for the prevention of animal diseases PC-16.2. Able to carry out veterinary control over the quality 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</p>	

prevention of non-communicable animal diseases	<p>diseases</p> <p>PC-16.3. Able to detect deviations from the plan of terms, types, quality of measures to prevent the emergence of non-infectious animals</p> <p>PC-16.4. Take corrective measures to implement measures to prevent the occurrence of non-communicable animal diseases based on the results of control</p> <p>PC-16.5. Conduct talks, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of animal diseases</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>PC-17.1. Able to collect and analyze information necessary for the organization and planning of veterinary and sanitary measures</p> <p>PC-17.2. Able to select the optimal equipment, consumables and medicinal and disinfectants necessary and safe enough for the conduct of veterinary and sanitary activities</p> <p>PC-17.3. Able to determine the procedure for disinfection, disinsection, 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</p> <p>PC-17.4. Able to control the results of veterinary and sanitary measures</p>	
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 measures based on the results of examination of animals conducted as part of the medical examination	<p>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</p> <p>PC-18.2. Able to organize and conduct medical examinations according to the plan</p> <p>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</p>	
PC-19 Ability to perform post-mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death	<p>PC-19.1. Able to conduct a general examination of animal carcasses prior to autopsy</p> <p>PC-19.2. Capable of performing an autopsy of animal corpses using special tools and observing safety requirements</p> <p>PC-19.3. Able to determine the cause of death and pathoanatomical diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases</p> <p>PC-19.4. Able to document the results of the post-mortem diagnostic examination of the animal in the autopsy protocol</p>	
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	<p>PC-20.1. Able to conduct an epizootological survey of the organization, territory</p> <p>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</p> <p>PC-20.3. Able to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them</p>	
PC-21 Ability to	PC-21.1. Able to detect deviations in the microclimate	

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	parameters in livestock buildings from the normative ones 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 during the verification of 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 select 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 control 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. Able to collect and analyze 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, including 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 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	

* - PC is formulated by the developer of the program, taking into account the requirements of professional standards and the direction of the Higher Education Program.

8. MATRIX OF COMPETENCES formed in students during the development of the Higher Education Program, specialty 36.05.01. "Veterinary"

Code	Name of disciplines/modules that form students' competencies	UNIVERSAL COMPETENCES					
		UC-1 The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.	UC-2 The ability to determine the range of tasks within the framework of the goal and choose the best ways to solve them, based on the current legal norms, available resources and restrictions.	UC-3 The ability to carry out social interaction and realize their role in the team.	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 into everyday, social, cultural, educational, professional, official, business and scientific spheres of communication.	UC-5 The ability to analyze and take into account the diversity of cultures in the process of intercultural interaction.	UC-6 The ability to determine and implement the priorities of one's own activity and ways to improve it on the basis of self-assessment and lifelong education.
Block 1.	Disciplines (modules)						
B1.O	Mandatory part						
B1.O.01	Basic component						
B1.O.01.01	Animal anatomy						
B1.O.01.02	History	UC-1.5				UC-5.1., UC-5.3.	
B1.O.01.03	Latin language				UC-4.4., UC-4.6.		
B1.O.01.04	Inorganic and Analytical Chemistry						

B1.O.01.05	Organic chemistry						
B1.O.01.05	Jurisprudence			UC-3.1.			
B1.O.01.07	Biology with the basics of ecology						
B1.O.01.08	Veterinary genetics						
B1.O.01.09	Biological physics						
B1.O.01.10	Computer science						
B1.O.01.11	Physical and colloidal chemistry						
B1.O.01.12	Philosophy	UC-1.5	UC-2.1., UC-2.2., UC-2.3.			UC-5.3., UC-5.4.	UC-6.5., UC-6.6.
B1.O.01.13	Cytology, histology and embryology						
B1.O.01.14	Life safety	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.		UC-3.1., UC-3.2.			
B1.O.01.15	Biological chemistry						
B1.O.01.16							
B1.O.01.17	Veterinary microbiology and mycology						
B1.O.01.18	Virology and Biotechnology						
B1.O.01.19	Physiology and ethology of animals						
B1.O.01.20	Breeding with the basics of private zootechnics						
B1.O.01.21	Animal health and welfare						
B1.O.01.22	Feeding animals with the basics of feed production						
B1.O.01.23	pathological physiology						
B1.O.01.24	Veterinary pharmacology						

B1.O.01.25	Veterinary radiobiology					
B1.O.01.26	Clinical diagnostics					
B1.O.01.27	pathological anatomy			UC-3.3.		
B1.O.01.28	Operative surgery with topographic anatomy					
B1.O.01.29	Instrumental diagnostic methods					
B1.O.01.30	Toxicology	UC-1.1, UC-1.2., UC-1.3., UC-1.4.				
B1.O.01.31	Obstetrics, gynecology and andrology	UC-1.1, UC-1.2., UC-1.3., UC-1.4.		3.1., UC-3.3.		
B1.O.01.32	Internal non-communicable diseases	UC-1.1, UC-1.2., UC-1.3., UC-1.4.		UC-3.3.		
B1.O.01.33	general surgery	UC-1.1, UC-1.2., UC-1.3., UC-1.4.		UC-3.3.		
B1.O.01.34	Private Veterinary Surgery	UC-1.1, UC-1.2., UC-1.3., UC-1.4.		UC-3.3.		
B1.O.01.35	Parasitology and invasive diseases	UC-1.1, UC-1.2., UC-1.3., UC-1.4.		UC-3.3.		
B1.O.01.36	Epizootology and infectious diseases	UC-1.1, UC-1.2., UC-1.3., UC-1.4.				
B1.O.01.37	Veterinary and sanitary examination	UC-1.1, UC-1.2., UC-1.3., UC-1.4.	UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5	UC-3.1., UC-3.2., UC-3.3.		UC-6.1., UC-6.2., UC-6.3.
B1.O.01.38	Organization of veterinary business					
B1.O.01.39	Forensic veterinary examination and autopsy of animals					
B1.O.02	Physical Culture					
B1.O.02.01	Variable component	UC-1.1, UC-1.2., UC-1.3., UC-1.4.	UC-2.2.	UC-3.5.		UC-6.1., UC-6.2.

B1.O.02.02	Maths			UC-3.5.	UC-4.1., UC-4.2.	UC-5.6.	
B1.O.02.03	Fundamentals of Rhetoric and Communication		UC-2.1., UC-2.2., UC-2.3.	UC-3.1.			UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
B1.O.02.04	Introduction to the specialty	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.	UC-2.1., UC-2.2., UC-2.3.	UC-3.1., UC-3.2.			
B1.O.02.05	Fundamentals of Economics and Management						
B1.O.02.06	Immunology						
B1.O.02.07	General and veterinary ecology			UC-3.1., UC-3.2.			
B1.O.02.08	Veterinary sanitation						
B1.O.02.09	Technology for processing livestock products	UC-1.1, UC-1.2., UC-1.3., UC-1.4.	UC-2.1., UC-2.2., UC-2.3.	UC-3.1., UC-3.2., UC-3.3., UC-3.4., UC-3.5., UC-3.6.	UC-4.1., UC-4.7.	UC-5.5., UC-5.6.	UC-6.6., UC-6.7.
B1.O.02.10	Veterinary deontology		UC-2.1., UC-2.2., UC-2.3.				
B1.O.03	Economics and organization of agricultural production						
B1.O.03.01	Course work						UC-6.1., UC-6.2., UC-6.3., UC-6.4., UC-6.7.
B1.O.ДВ.01	Animal welfare						
B1.O.ДВ.01.01	Foreign language 1				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	
B1.O.ДВ.01.02	Foreign language 2				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	
B1.В.ДВ.01	Russian as a foreign language)						
B1.В.ДВ.01.01	Elective disciplines (modules) 1						

	(DV.1)						
B1.B.ДВ.02	Interdisciplinary module						
B1.B.ДВ.02.01	Applied physical culture						
B1.B.ДВ.03	Applied physical education						
B1.B.ДВ.03.01	Elective disciplines (modules) 3 (DV.3)						
B1.B.ДВ.03.02	Medicinal and poisonous plants						
B1.B.ДВ.03.03	fodder plants	UC-1.1, UC-1.2., UC-1.3., UC-1.4.	UC-2.1., UC-2.2., UC-2.3.	UC-3.1., UC-3.2., UC-3.3., UC-3.4., UC-3.5., UC-3.6.	UC-4.1., UC-4.7.	UC-5.5., UC-5.6.	UC-6.6., UC-6.7.
B1.B.ДВ.04	Basics of professional ethics						
B1.B.ДВ.04.01	Elective disciplines (modules) 4 (DV.4)	UC-1.1, UC-1.2., UC-1.3., UC-1.4.					
B1.B.ДВ.04.02	Zoopsychology						
B1.B.ДВ.04.03	animal health		UC-2.1., UC-2.2., UC-2.3.	UC-3.1.		UC-5.5., UC-5.6.	UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
B1.B.ДВ.05	Psychology of personality and professional self-determination						
B1.B.ДВ.05.01	Elective disciplines (modules) 5 (EC.5)						
B1.B.ДВ.05.02	Clinical laboratory diagnostics						
B1.B.ДВ.06	Laboratory diagnostics of infectious and parasitic diseases						
B1.B.ДВ.06.01	Elective disciplines (modules) 6 (DV.6)	UC-1.1, UC-1.2., UC-1.3., UC-1.4.					
B1.B.ДВ.06.02	Organization of state veterinary supervision		UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5				

B1.B.ДВ.07	Veterinary and manufacturing laboratories with design basics						
B1.B.ДВ.07.01	Elective disciplines (modules) 7 (DV.7)						
B1.B.ДВ.07.02	Biometrics in veterinary medicine	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.	UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5				UC-6.1., UC-6.2., UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
B1.B.ДВ.07.03	Career Management			UC-3.1.		UC-5.2., UC-5.3., UC-5.4.	
B1.B.ДВ.07.04	Fundamentals of social and legal knowledge	UC-1.1, UC-1.2., UC-1.3., UC-1.4.					
B1.B.ДВ.08							
B1.B.ДВ.08.01	Space technologies in the service of the agro-industrial complex						
B1.B.ДВ.08.02	Elective disciplines (modules) 8 (DV.8)						
B1.B.ДВ.08.03	Equine diseases				UC-4.5., UC-4.6., UC-4.7.		
B1.B.ДВ.09	Diseases of food producing animals						
B1.B.ДВ.09.01							
B1.B.ДВ.09.02	Communication workshop						
B1.B.ДВ.09.03							
B1.B.ДВ.09.04	Elective disciplines (modules) 9 (DV.9)						
B1.B.ДВ.09.05	Diseases of small animals						
B1.B.ДВ.10	Diseases of small pets						
B1.B.ДВ.10.01	Diseases of bees and entomophages						
B1.B.ДВ.10.02	Fish pathology and aquaculture						
B1.B.ДВ.10.03	Diseases of exotic animals						
B1.B.ДВ.10.04	Elective disciplines (modules) 10 (EC.10)						

B1.В.ДВ.10.05	Anesthesiology, resuscitation and intensive care						
B1.В.ДВ.11	Dermatology						
B1.В.ДВ.11.01	Cardiology	UC-1.1, UC-1.2., UC-1.3., UC-1.4.					
B1.В.ДВ.11.02	Endocrinology						
B1.В.ДВ.11.03	Nephrology						
B1.В.ДВ.12	Elective disciplines (modules) 11 (DV.11)						
B1.В.ДВ.12.01	Reconstructive and restorative surgery				UC-4.3., UC-4.4., UC-4.5., UC-4.6.		
B1.В.ДВ.12.02	Veterinary ophthalmology				UC-4.3., UC-4.4., UC-4.5., UC-4.6.		
B1.В.ДВ.13	Animal Dentistry						
B1.В.ДВ.13.01	Foreign language for special purposes				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	
B1.В.ДВ.13.02	Foreign language for special purposes				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	
B1.В.ДВ.14	Russian language for special purposes						
B1.В.ДВ.14.01	Foreign language. Translation of special texts				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	
B1.В.ДВ.14.02	Foreign language. Translation of special texts				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	
БЛОК 2.	Russian language. Translation of special texts						
B2.О.01	Foreign language. Professional communications						
B2.О.01.01(У)	Foreign language. Professional communications		UC-2.1., UC-2.2., UC-2.3.	UC-3.1.			UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
B2.О.02.01(П)	Russian language. Professional communications	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.	UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5	UC-3.1., UC-3.2., UC-3.3., UC-3.4., UC-3.5.,	UC-4.1., UC-4.2., UC-4.3., UC-4.4., UC-4.5., UC-4.6., UC-4.7.	UC-5.1., UC-5.2., UC-5.3., UC-5.4., UC-5.5.,	UC-6.1., UC-6.2., UC-6.3., UC-6.4., UC-6.5.,

				UC-3.6.		UC-5.6.	UC-6.6., UC-6.7.
B2.B.ДВ.01	Practice						
B2.B.ДВ.01.01 (II)	base component	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.	UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5	UC-3.1., UC-3.2., UC-3.3., UC-3.4., UC-3.5., UC-3.6.	UC-4.1., UC-4.2., UC-4.3., UC-4.4., UC-4.5., UC-4.6., UC-4.7.	UC-5.1., UC-5.2., UC-5.3., UC-5.4., UC-5.5., UC-5.6.	UC-6.1., UC-6.2., UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
B2.B.ДВ.01.02 (II)	Educational practice	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.	UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5	UC-3.1., UC-3.2., UC-3.3., UC-3.4., UC-3.5., UC-3.6.	UC-4.1., UC-4.2., UC-4.3., UC-4.4., UC-4.5., UC-4.6., UC-4.7.	UC-5.1., UC-5.2., UC-5.3., UC-5.4., UC-5.5., UC-5.6.	UC-6.1., UC-6.2., UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
Влок 3	General professional practice						
B3.O.01	Elective practices (modules) 1 (DV.1)	UC-1.1, UC-1.2., UC-1.3., UC-1.4., UC-1.5.	UC-2.1., UC-2.2., UC-2.3., UC-2.4., UC-2.5	UC-3.1., UC-3.2., UC-3.3., UC-3.4., UC-3.5., UC-3.6.	UC-4.1., UC-4.2., UC-4.3., UC-4.4., UC-4.5., UC-4.6., UC-4.7.	UC-5.1., UC-5.2., UC-5.3., UC-5.4., UC-5.5., UC-5.6.	UC-6.1., UC-6.2., UC-6.3., UC-6.4., UC-6.5., UC-6.6., UC-6.7.
ФТД.	Medical practice						
ФТД.В.01	Academic research practice with the preparation of a scientific qualification project				UC-4.1., UC-4.2., UC-4.3.	UC-5.4.	

Code	Name of disciplines/modules that form students' competencies	UNIVERSAL COMPETENCES					
		UC-7 The ability to maintain the proper level of physical fitness to ensure full-fledged social and 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-9 Ability to use basic defectological knowledge in social and professional areas.	UC-10 The ability to make informed economic decisions in various areas of life.	UC-11 The ability to form an intolerant attitude towards corrupt behavior.	UC-12 The ability to search for the necessary sources of information and data, to 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;
Block 1.	Disciplines (modules)						
B1.B	Mandatory part						
B1.B.01	Basic component						
B1.B.01.01	Animal anatomy						
B1.B.01.02	History		UC-8.1.				
B1.B.01.03	Latin language						
B1.B.01.04	Inorganic and Analytical Chemistry		UC-8.1.				
B1.B.01.05	Organic chemistry		UC-8.1.				

B1.B.01.05	Jurisprudence					UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B1.B.01.07	Biology with the basics of ecology						
B1.B.01.08	Veterinary genetics						
B1.B.01.09	Biological physics		UC-8.1.				
B1.B.01.10	Computer science						UC-12.1., UC-12.2.
B1.B.01.11	Physical and colloidal chemistry		UC-8.1.				
B1.B.01.12	Philosophy					UC-11.1., UC-11.2.	UC-12.2.
B1.B.01.13	Cytology, histology and embryology						
B1.B.01.14	Life safety	UC-7.1., UC-7.3.	UC-8.1., UC-8.2., UC-8.3., UC-8.4., UC-8.5., UC-8.6.				UC-12.2.
B1.B.01.15	Biological chemistry		UC-8.1.				
B1.B.01.16	Veterinary microbiology and mycology		UC-8.1., UC-8.2.				
B1.B.01.17	Virology and Biotechnology		UC-8.1., UC-8.2.				
B1.B.01.18	Physiology and ethology of animals						
B1.B.01.19	Breeding with the basics of private zootechnics						
B1.B.01.20	Animal health and welfare						
B1.B.01.21	Feeding animals with the basics of feed production						
B1.B.01.22	pathological physiology						
B1.B.01.23	Veterinary pharmacology						
B1.B.01.24	Veterinary radiobiology		UC-8.1., UC-8.2., UC-8.4., UC-8.5.				
B1.B.01.25	Clinical diagnostics						
B1.B.01.26	pathological anatomy						

B1.B.01.27	Operative surgery with topographic anatomy						
B1.B.01.28	Instrumental diagnostic methods						UC-12.1., UC-12.2.
B1.B.01.29	Toxicology						
B1.B.01.30	Obstetrics, gynecology and andrology						
B1.B.01.31	Internal non-communicable diseases						
B1.B.01.32	General surgery						
B1.B.01.33	Private Veterinary Surgery						
B1.B.01.34	Parasitology and invasive diseases		UC-8.1.				
B1.B.01.35	Epizootology and infectious diseases		UC-8.1.				
B1.B.01.36	Veterinary and sanitary examination				UC-10.1., UC-10.2., UC-10.3.		
B1.B.01.37	Organization of veterinary business		UC-8.1., UC-8.3.		UC-10.1.		UC-12.1., UC-12.2.
B1.B.01.38	Forensic veterinary examination and autopsy of animals					UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B1.B.01.39	Physical Culture	UC-7.1., UC-7.2., UC-7.3.					
B1.B.02	Variable component						
B1.B.02.01	Maths				UC-10.1.		UC-12.1., UC-12.2.
B1.B.02.02	Fundamentals of Rhetoric and Communication						
B1.B.02.03	Introduction to the specialty						
B1.B.02.04	Fundamentals of Economics and Management				UC-10.1., UC-10.2., UC-10.3		
B1.B.02.05	Immunology						
B1.B.02.06	General and veterinary ecology		UC-8.1.				
B1.B.02.07	Veterinary sanitation		UC-8.1.				
B1.B.02.08	Technology for processing livestock products						
B1.B.02.09	Veterinary deontology		UC-8.6.	UC-9.1., UC-9.2., UC 9.3.		UC-11.1., UC-	UC-12.1., UC-12.2.

						11.2., UC-11.3.	
B1.B.02.10	Economics and organization of agricultural production				UC-10.1., UC-10.2., UC-10.3.		
B1.B.03	Course work						
B1.B.03.01	Animal welfare						
B1.B.ED.01	Foreign language						
B1.B.ED.01.01	Foreign language						
B1.B.ED.01.02	Russian as a foreign language)						
B1.E.ED.01	Elective disciplines (modules) 1 (ED.1)						
B1.E.ED.01.01	Interdisciplinary module						
B1.E.ED.02	Applied physical culture						
B1.E.ED.02.01	Applied physical culture	UC-7.1., UC-7.2., UC-7.3.					
B1.E.ED.03	Elective disciplines (modules) 3 (ED.3)						
B1.E.ED.03.01	Medicinal and poisonous plants						UC-12.1., UC-12.2.
B1.E.ED.03.02	Fodder plants						
B1.E.ED.03.03	Basics of professional ethics		UC-8.6.	UC-9.1., UC-9.2., UC 9.3.		UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B1.E.ED.04	Elective disciplines (modules) 4 (ED.4)						
B1.E.ED.04.01	Zoopsychology			UC-9.1., UC-9.2., UC 9.3.			
B1.E.ED.04.02	Animal health						
B1.E.ED.04.03	Psychology of personality and professional self-determination					UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B1.E.ED.05	Elective disciplines (modules) 5 (ED.5)						

B1.E.ED.05.01	Clinical laboratory diagnostics						UC-12.1., UC-12.2.
B1.E.ED.05.02	Laboratory diagnostics of infectious and parasitic diseases		UC-8.2.				UC-12.1., UC-12.2.
B1.E.ED.06	Elective disciplines (modules) 6 (ED.6)						
B1.E.ED.06.01	Organization of state veterinary supervision		UC-8.1., UC-8.3.			UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B1.E.ED.06.02	Veterinary and manufacturing laboratories with design basics				UC-10.1., UC-10.2., UC-10.3.		UC-12.1., UC-12.2.
B1.E.ED.07	Elective disciplines (modules) 7 (ED.7)						
B1.E.ED.07.01	Biometrics in veterinary medicine						UC-12.1., UC-12.2.
B1.E.ED.07.02	Career Management	UC-7.1., UC-7.2., UC-7.3.					
B1.E.ED.07.03	Fundamentals of social and legal knowledge					UC-11.1., UC-11.2.	UC-12.1., UC-12.2.
B1.E.ED.07.04	Space technologies in the service of the agro-industrial complex		UC-8.2.				
B1.E.ED.08	Elective disciplines (modules) 8 (ED.8)						
B1.E.ED.08.01	Equine diseases						
B1.E.ED.08.02	Diseases of food producing animals						
B1.E.ED.08.03	Communication workshop						
B1.E.ED.09	Elective disciplines (modules) 9 (ED.9)						
B1.E.ED.09.01	Diseases of small animals						
B1.E.ED.09.02	Diseases of small pets						
B1.E.ED.09.03	Diseases of bees and entomophages						
B1.E.ED.09.04	Fish pathology and aquaculture						
B1.E.ED.09.05	Diseases of exotic animals						
B1.E.ED.10	Elective disciplines (modules) 10 (EC.10)						

B1.E.ED.10.01	Anesthesiology, resuscitation and intensive care						
B1.E.ED.10.02	Dermatology						
B1.E.ED.10.03	Cardiology						
B1.E.ED.10.04	Endocrinology						
B1.E.ED.10.05	Nephrology						
B1.E.ED.11	Elective disciplines (modules) 11 (ED.11)						
B1.E.ED.11.01	Reconstructive and restorative surgery						
B1.E.ED.11.02	Veterinary ophthalmology						
B1.E.ED.11.03	Animal Dentistry						
B1.E.ED.12	Foreign language for special purposes						
B1.E.ED.12.01	Foreign language for special purposes						
B1.E.ED.12.02	Russian language for special purposes						
B1.E.ED.13	Foreign language. Translation of special texts						
B1.E.ED.13.01	Foreign language. Translation of special texts						
B1.E.ED.13.02	Russian language. Translation of special texts						
B1.E.ED.14	Foreign language. Professional communications						
B1.E.ED.14.01	Foreign language. Professional communications						
B1.E.ED.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
B2.B.01	Base component						
B2.B.01.01(Y)	Educational practice						
B2.B.02.01(P)	General professional practice	UC-7.1., UC-7.2., UC-7.3.	UC-8.1., UC-8.2., UC-8.3., UC-8.4., UC-8.5., UC-8.6.	UC-9.1., UC-9.2., UC-9.3.	UC-10.1., UC-10.2., UC-10.3.	UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B2.E.ED.01	Elective practices (modules) 1						

	(ED.1)						
B2.E.ED.01.01(P)	Medical and industrial practice	UC-7.1., UC-7.2., UC-7.3.	UC-8.1., UC-8.2., UC-8.3., UC-8.4., UC-8.5., UC-8.6.	UC-9.1., UC-9.2., UC-9.3.	UC-10.1., UC-10.2., UC-10.3.	UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
B2.E.ED.01.02(P)	Academic research practice with the preparation of a scientific qualification project	UC-7.1., UC-7.2., UC-7.3.	UC-8.1., UC-8.2., UC-8.3., UC-8.4., UC-8.5., UC-8.6.	UC-9.1., UC-9.2., UC-9.3.	UC-10.1., UC-10.2., UC-10.3.	UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
BLOCK 3	State final certification						
B3.B.01	Preparation for passing and passing the state exam	UC-7.1., UC-7.2., UC-7.3.	UC-8.1., UC-8.2., UC-8.3., UC-8.4., UC-8.5., UC-8.6.	UC-9.1., UC-9.2., UC-9.3.	UC-10.1., UC-10.2., UC-10.3.	UC-11.1., UC-11.2., UC-11.3.	UC-12.1., UC-12.2.
OC.	Optional course						
OC.E.01	Russian language						

Code	Name of disciplines/modules that form students' competencies	GENERAL PROFESSIONAL COMPETENCIES						
		GPC-1 The ability to determine the biological status and normative clinical indicators of organs and systems of the animal body	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-3 The ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of the agro-industrial complex.	GPC-4 The ability to use in professional activities methods of solving problems using modern equipment in the development of new technologies and to use modern professional methodology for conducting experimental studies and interpreting their results.	GPC-5 The ability to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases.	GPC-6 The ability to analyze, identify and carry out a risk assessment of the risk of the emergence and spread of diseases.	GPC-7 The ability to understand the principles of modern information technology and use them to solve problems of professional activity.
Block 1.	Disciplines (modules)							
B1.B	Mandatory part							
B1.B.01	Basic component							
B1.B.01.01	Animal anatomy	GPC-1.1.						
B1.B.01.02	History							
B1.B.01.03	Latin language							

B1.B.01.04	Inorganic and Analytical Chemistry				GPC-4.1., GPC-4.2.			
B1.B.01.05	Organic chemistry				GPC-4.1., GPC-4.2.			
B1.B.01.05	Jurisprudence			GPC-3.1., GPC-3.2.				
B1.B.01.07	Biology with the basics of ecology		GPC-2.1.				GPC-6.1.	
B1.B.01.08	Veterinary genetics		GPC-2.1.			GPC-5.2., GPC-5.3.		
B1.B.01.09	Biological physics				GPC-4.1., GPC-4.2.			
B1.B.01.10	Computer science				GPC-4.1., GPC-4.2.	GPC-5.1.		GPC-7.1.
B1.B.01.11	Physical and colloidal chemistry				GPC-4.1., GPC-4.2.			
B1.B.01.12	Philosophy							
B1.B.01.13	Cytology, histology and embryology	GPC-1.1.			GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.			
B1.B.01.14	Life safety			GPC-3.1., GPC-3.2., GPC-3.3.			GPC-6.1.	
B1.B.01.15	Biological chemistry				GPC-4.1., GPC-4.2.			
B1.B.01.16	Veterinary microbiology and mycology		GPC-2.1., GPC-2.2.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2.	
B1.B.01.17	Virology and Biotechnology		GPC-2.1., GPC-2.2.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2.	

B1.B.01.18	Physiology and ethology of animals	GPC-1.1., GPC-1.3., GPC-1.4.	GPC-2.1.		GPC-4.1., GPC-4.2.			
B1.B.01.19	Breeding with the basics of private zootechnics		GPC-2.1.	GPC-3.3.	GPC-4.1., GPC-4.2.	GPC-5.2., GPC-5.3.		
B1.B.01.20	Animal health and welfare		GPC-2.1., GPC-2.3.				GPC-6.3.	
B1.B.01.21	Feeding animals with the basics of feed production		GPC-2.1., GPC-2.3.				GPC-6.3.	
B1.B.01.22	pathological physiology	GPC-1.2.	GPC-2.1.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.			
B1.B.01.23	Veterinary pharmacology			GPC-3.1., GPC-3.2., GPC-3.3.				
B1.B.01.24	Veterinary radiobiology		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.3.	
B1.B.01.25	Clinical diagnostics	GPC-1.3., GPC 1.4.			GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.2.	
B1.B.01.26	pathological anatomy	GPC-1.2.	GPC-2.1.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.2.	
B1.B.01.27	Operative surgery with topographic anatomy				GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.		
B1.B.01.28	Instrumental diagnostic methods	GPC-1.3.	GPC-2.2.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.2.	GPC-7.2., GPC-7.3., GPC-7.4.
B1.B.01.29	Toxicology		GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.3.	
B1.B.01.30	Obstetrics, gynecology and andrology	GPC-1.1., GPC-1.2., GPC-1.3., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2.,	

							GPC-6.3.	
B1.B.01.31	Internal non-communicable diseases		GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.B.01.32	General surgery		GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.B.01.33	Private Veterinary Surgery		GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.B.01.34	Parasitology and invasive diseases		GPC-2.2., GPC-2.3.	GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	
B1.B.01.35	Epizootology and infectious diseases		GPC-2.2., GPC-2.3.	GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	
B1.B.01.36	Veterinary and sanitary examination					GPC-5.1., GPC-5.2., GPC-5.3.		
B1.B.01.37	Organization of veterinary business			GPC-3.1., GPC-3.2., GPC-		GPC-5.1., GPC-5.2., GPC-5.3.		GPC-7.1., GPC-7.2., GPC-7.3., GPC-7.4., GPC-7.5.

				3.3.				
B1.B.01.38	Forensic veterinary examination and autopsy of animals		GPC-2.2.			GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	
B1.B.01.39	Physical Culture							
B1.B.02	Variable component							
B1.B.02.01	Maths				GPC-4.1., GPC-4.2.			
B1.B.02.02	Fundamentals of Rhetoric and Communication							
B1.B.02.03	Introduction to the specialty							
B1.B.02.04	Fundamentals of Economics and Management							
B1.B.02.05	Immunology	GPC-1.1., GPC-1.2.	GPC-2.2.		GPC-4.1., GPC-4.2.			
B1.B.02.06	General and veterinary ecology		GPC-2.1.				GPC-6.3.	
B1.B.02.07	Veterinary sanitation		GPC-2.1., GPC-2.3.	GPC-3.3.	GPC-4.3., GPC-4.4.			
B1.B.02.08	Technology for processing livestock products			GPC-3.3.	GPC-4.3., GPC-4.4.			
B1.B.02.09	Veterinary deontology					GPC-5.1.		
B1.B.02.10	Economics and organization of agricultural production			GPC-3.1., GPC-3.2., GPC-3.3.		GPC-5.1., GPC-5.2., GPC-5.3.		
B1.B.03	Course work							
B1.B.03.01	Animal welfare	GPC-1.1.						
B1.B.ED.01	Foreign language							
B1.B.ED.01.01	Foreign language							
B1.B.ED.01.02	Russian as a foreign language)							
B1.E.ED.01	Elective disciplines (modules) 1 (ED.1)							

B1.E.ED.01.01	Interdisciplinary module							
B1.E.ED.02	Applied physical culture							
B1.E.ED.02.01	Applied physical culture							
B1.E.ED.03	Elective disciplines (modules) 3 (ED.3)							
B1.E.ED.03.01	Medicinal and poisonous plants				GPC-4.1., GPC-4.2.		GPC-6.3.	
B1.E.ED.03.02	Fodder plants		GPC-2.1.		GPC-4.1., GPC-4.2.		GPC-6.3.	
B1.E.ED.03.03	Basics of professional ethics					GPC-5.1.		
B1.E.ED.04	Elective disciplines (modules) 4 (ED.4)							
B1.E.ED.04.01	Zoopsychology		GPC-2.2., GPC-2.3.					
B1.E.ED.04.02	Animal health		GPC-2.1., GPC-2.3.				GPC-6.3.	
B1.E.ED.04.03	Psychology of personality and professional self-determination							
B1.E.ED.05	Elective disciplines (modules) 5 (ED.5)							
B1.E.ED.05.01	Clinical laboratory diagnostics	GPC-1.3., GPC-1.4.			GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.2.	GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.05.02	Laboratory diagnostics of infectious and parasitic diseases	GPC-1.3., GPC-1.4.		GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.2.	GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.06	Elective disciplines (modules) 6 (ED.6)							
B1.E.ED.06.01	Organization of state veterinary supervision			GPC-3.1., GPC-3.2., GPC-3.3.		GPC-5.1., GPC-5.2., GPC-5.3.		
B1.E.ED.06.02	Veterinary and manufacturing laboratories with design basics	GPC-1.4.		GPC-3.3.		GPC-5.1., GPC-5.2., GPC-5.3.		GPC-7.2., GPC-7.3., GPC-7.4.

B1.E.ED.07	Elective disciplines (modules) 7 (ED.7)							
B1.E.ED.07.01	Biometrics in veterinary medicine	GPC-1.3.			GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.1.		GPC-7.1.
B1.E.ED.07.02	Career Management							
B1.E.ED.07.03	Fundamentals of social and legal knowledge			GPC-3.1., GPC-3.2., GPC-3.3.				
B1.E.ED.07.04	Space technologies in the service of the agro-industrial complex				GPC-4.3., GPC-4.4.		GPC-6.3.	GPC-7.5.
B1.E.ED.08	Elective disciplines (modules) 8 (ED.8)							
B1.E.ED.08.01	Equine diseases		GPC-2.1., GPC-2.2.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.E.ED.08.02	Diseases of food producing animals			GPC-2.1., GPC-2.2., GPC-2.3	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.E.ED.08.03	Communication workshop							
B1.E.ED.09	Elective disciplines (modules) 9 (ED.9)							
B1.E.ED.09.01	Diseases of small animals		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.E.ED.09.02	Diseases of small pets		GPC-2.1.,		GPC-4.1., GPC-		GPC-	

			GPC-2.2., GPC-2.3.		4.2., GPC-4.3., GPC-4.4.		6.1., GPC- 6.2., GPC- 6.3.	
B1.E.ED.09.03	Diseases of bees and entomophages	GPC-1.1., GPC-1.2., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.		GPC- 6.1., GPC- 6.2., GPC- 6.3.	
B1.E.ED.09.04	Fish pathology and aquaculture	GPC-1.1., GPC-1.2., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.		GPC- 6.1., GPC- 6.2., GPC- 6.3.	
B1.E.ED.09.05	Diseases of exotic animals		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.		GPC- 6.1., GPC- 6.2., GPC- 6.3.	
B1.E.ED.10	Elective disciplines (modules) 10 (EC.10)							
B1.E.ED.10.01	Anesthesiology, resuscitation and intensive care	GPC-1.1., GPC-1.2., GPC-1.3., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.	GPC- 6.1., GPC- 6.2., GPC- 6.3.	GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.10.02	Dermatology		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.		GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.10.03	Cardiology		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.		GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.10.04	Endocrinology		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC- 4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.		GPC-7.2., GPC-7.3., GPC-7.4.

B1.E.ED.10.05	Nephrology		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.		GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.11	Elective disciplines (modules) 11 (ED.11)							
B1.E.ED.11.01	Reconstructive and restorative surgery				GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.			GPC-7.2., GPC-7.3., GPC-7.4.
B1.E.ED.11.02	Veterinary ophthalmology		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.E.ED.11.03	Animal Dentistry		GPC-2.1., GPC-2.2., GPC-2.3.		GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.		GPC-6.1., GPC-6.2., GPC-6.3.	
B1.E.ED.12	Foreign language for special purposes							
B1.E.ED.12.01	Foreign language for special purposes							
B1.E.ED.12.02	Russian language for special purposes							
B1.E.ED.13	Foreign language. Translation of special texts							
B1.E.ED.13.01	Foreign language. Translation of special texts							
B1.E.ED.13.02	Russian language. Translation of special texts							
B1.E.ED.14	Foreign language. Professional communications							
B1.E.ED.14.01	Foreign language. Professional communications							
B1.E.ED.14.02	Russian language. Professional communications							

BLOCK 2.	Practice							
B2.B.01	Base component							
B2.B.01.01(Y)	Educational practice	GPC-1.1., GPC 1.3., GPC 1.4.	GPC-2.1., GPC-2.3.	GPC-3.1., GPC-3.2., GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	
B2.B.02.01(P)	General professional practice	GPC-1.1., GPC-1.2., GPC-1.3., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.	GPC-3.1., GPC-3.2., GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	GPC-7.1., GPC-7.2., GPC-7.3., GPC-7.4., GPC-7.5.
B2.E.ED.01	Elective practices (modules) 1 (ED.1)							
B2.E.ED.01.01(P)	Medical and industrial practice	GPC-1.1., GPC-1.2., GPC-1.3., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.	GPC-3.1., GPC-3.2., GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	GPC-7.1., GPC-7.2., GPC-7.3., GPC-7.4., GPC-7.5.
B2.E.ED.01.02(P)	Academic research practice with the preparation of a scientific qualification project							
BLOCK 3	State final certification							
B3.B.01	Preparation for passing and passing the state exam	GPC-1.1., GPC-1.2., GPC-1.3., GPC-1.4.	GPC-2.1., GPC-2.2., GPC-2.3.	GPC-3.1., GPC-3.2., GPC-3.3.	GPC-4.1., GPC-4.2., GPC-4.3., GPC-4.4.	GPC-5.1., GPC-5.2., GPC-5.3.	GPC-6.1., GPC-6.2., GPC-6.3.	GPC-7.1., GPC-7.2., GPC-7.3., GPC-7.4., GPC-7.5.
OC.	Optional course							
OC.E.01	Russian language							

Code	Name of disciplines/modules that form students' competencies	PROFESSIONAL COMPETENCIES					
		PC-1 Ability to collect an anamnesis of life and illness of animals to identify the causes of diseases and their nature	PC-2 The 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	PC-3 Ability to develop animal research programs using special (instrumental) and laboratory methods	PC-4. The ability to conduct clinical studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis	PC-5. The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods	PC-6 Ability to develop an animal treatment plan based on the established diagnosis and individual characteristics of animals
Block 1.	Disciplines (modules)						
B1.B	Mandatory part						
B1.B.01	Basic component						
B1.B.01.01	Animal anatomy		PC-2.1.	PC-3.1.	PC-4.2.		
B1.B.01.02	History						
B1.B.01.03	Latin language						
B1.B.01.04	Inorganic and Analytical Chemistry						

B1.B.01.05	Organic chemistry						
B1.B.01.05	Jurisprudence						
B1.B.01.07	Biology with the basics of ecology						
B1.B.01.08	Veterinary genetics	PC-1.1.					
B1.B.01.09	Biological physics						
B1.B.01.10	Computer science						
B1.B.01.11	Physical and colloidal chemistry						
B1.B.01.12	Philosophy						
B1.B.01.13	Cytology, histology and embryology				PC-4.1.		
B1.B.01.14	Life safety						
B1.B.01.15	Biological chemistry						
B1.B.01.16	Veterinary microbiology and mycology				PC-4.1.		PC-6.1.
B1.B.01.17	Virology and Biotechnology				PC-4.1.		PC-6.1.
B1.B.01.18	Physiology and ethology of animals	PC-1.1.	PC-2.1.	PC-3.1.	PC-4.1.		
B1.B.01.19	Breeding with the basics of private zootechnics	PC-1.1.					
B1.B.01.20	Animal health and welfare	PC-1.1.					
B1.B.01.21	Feeding animals with the basics of feed production	PC-1.1.					
B1.B.01.22	pathological physiology		PC-2.1.	PC-3.1.	PC-4.1.		PC-6.2.
B1.B.01.23	Veterinary pharmacology						PC-6.1., PC-6.2., PC-6.3.
B1.B.01.24	Veterinary radiobiology						

B1.B.01.25	Clinical diagnostics	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.		
B1.B.01.26	pathological anatomy		PC-2.1.	PC-3.1.	PC-4.1.		
B1.B.01.27	Operative surgery with topographic anatomy						
B1.B.01.28	Instrumental diagnostic methods			PC-3.1., PC- 3.2. PC-3.1., PC-3.2.	PC-4.2.		
B1.B.01.29	Toxicology	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.			PC-6.1.
B1.B.01.30	Obstetrics, gynecology and andrology	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B1.B.01.31	Internal non-communicable diseases	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B1.B.01.32	General surgery	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B1.B.01.33	Private Veterinary Surgery	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B1.B.01.34	Parasitology and invasive diseases	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B1.B.01.35	Epizootology and infectious diseases	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B1.B.01.36	Veterinary and sanitary examination						
B1.B.01.37	Organization of veterinary business						
B1.B.01.38	Forensic veterinary examination and autopsy of animals					PC-5.1., PC- 5.2.	
B1.B.01.39	Physical Culture						
B1.B.02	Variable component						
B1.B.02.01	Maths						
B1.B.02.02	Fundamentals of Rhetoric and Communication	PC-1.1., PC-1.2.					
B1.B.02.03	Introduction to the specialty						
B1.B.02.04	Fundamentals of Economics and Management						
B1.B.02.05	Immunology			PC-3.1., PC- 3.2.			

B1.B.02.06	General and veterinary ecology						
B1.B.02.07	Veterinary sanitation						
B1.B.02.08	Technology for processing livestock products						
B1.B.02.09	Veterinary deontology			PC-3.1., PC-3.2.			
B1.B.02.10	Economics and organization of agricultural production						
B1.B.03	Course work						
B1.B.03.01	Animal welfare						
B1.B.ED.01	Foreign language						
B1.B.ED.01.01	Foreign language						
B1.B.ED.01.02	Russian as a foreign language)						
B1.E.ED.01	Elective disciplines (modules) 1 (ED.1)						
B1.E.ED.01.01	Interdisciplinary module						
B1.E.ED.02	Applied physical culture						
B1.E.ED.02.01	Applied physical culture						
B1.E.ED.03	Elective disciplines (modules) 3 (ED.3)						
B1.E.ED.03.01	Medicinal and poisonous plants						
B1.E.ED.03.02	Fodder plants						
B1.E.ED.03.03	Basics of professional ethics	PC-1.1., PC-1.2.					
B1.E.ED.04	Elective disciplines (modules) 4 (ED.4)						
B1.E.ED.04.01	Zoopsychology	PC-1.1.					PC-6.2.
B1.E.ED.04.02	Animal health	PC-1.1.					
B1.E.ED.04.03	Psychology of personality and professional self-determination						
B1.E.ED.05	Elective disciplines (modules) 5 (ED.5)						
B1.E.ED.05.01	Clinical laboratory diagnostics			PC-3.1., PC-3.2.	PC-4.1.		
B1.E.ED.05.02	Laboratory diagnostics of infectious and parasitic diseases			PC-3.1., PC-3.2.	PC-4.1.		
B1.E.ED.06	Elective disciplines (modules) 6 (ED.6)						

B1.E.ED.06.01	Organization of state veterinary supervision						
B1.E.ED.06.02	Veterinary and manufacturing laboratories with design basics						
B1.E.ED.07	Elective disciplines (modules) 7 (ED.7)						
B1.E.ED.07.01	Biometrics in veterinary medicine						
B1.E.ED.07.02	Career Management						
B1.E.ED.07.03	Fundamentals of social and legal knowledge						
B1.E.ED.07.04	Space technologies in the service of the agro-industrial complex						
B1.E.ED.08	Elective disciplines (modules) 8 (ED.8)						
B1.E.ED.08.01	Equine diseases			PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1.
B1.E.ED.08.02	Diseases of food producing animals			PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1., PC-6.2., PC-6.3.
B1.E.ED.08.03	Communication workshop						
B1.E.ED.09	Elective disciplines (modules) 9 (ED.9)						
B1.E.ED.09.01	Diseases of small animals			PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1., PC-6.2., PC-6.3.
B1.E.ED.09.02	Diseases of small pets			PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1., PC-6.2., PC-6.3.
B1.E.ED.09.03	Diseases of bees and entomophages		PC-2.1., PC-2.2.	PC-3.1., PC-3.2.		PC-5.1., PC-5.2.	PC-6.1.
B1.E.ED.09.04	Fish pathology and aquaculture		PC-2.1., PC-2.2.	PC-3.1., PC-3.2.		PC-5.1., PC-5.2.	PC-6.1.
B1.E.ED.09.05	Diseases of exotic animals			PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1., PC-6.2., PC-6.3.
B1.E.ED.10	Elective disciplines (modules) 10 (EC.10)						
B1.E.ED.10.01	Anesthesiology, resuscitation and intensive care		PC-2.1., PC-2.2.	PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1.
B1.E.ED.10.02	Dermatology	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC-3.2.	PC-4.1., PC-4.2.	PC-5.1., PC-5.2.	PC-6.1.
B1.E.ED.10.03	Cardiology	PC-1.1., PC-1.2.,		PC-3.1., PC-	PC-4.1., PC-	PC-5.1., PC-	PC-6.1.

		PC-1.3.		3.2.	4.2.	5.2.	
B1.E.ED.10.04	Endocrinology	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1.
B1.E.ED.10.05	Nephrology	PC-1.1., PC-1.2., PC-1.3.		PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1.
B1.E.ED.11	Elective disciplines (modules) 11 (ED.11)						
B1.E.ED.11.01	Reconstructive and restorative surgery			PC-3.1., PC- 3.2.		PC-5.1., PC- 5.2.	PC-6.1.
B1.E.ED.11.02	Veterinary ophthalmology			PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1.
B1.E.ED.11.03	Animal Dentistry			PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1.
B1.E.ED.12	Foreign language for special purposes						
B1.E.ED.12.01	Foreign language for special purposes						
B1.E.ED.12.02	Russian language for special purposes						
B1.E.ED.13	Foreign language. Translation of special texts						
B1.E.ED.13.01	Foreign language. Translation of special texts						
B1.E.ED.13.02	Russian language. Translation of special texts						
B1.E.ED.14	Foreign language. Professional communications						
B1.E.ED.14.01	Foreign language. Professional communications						
B1.E.ED.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
B2.B.01	Base component						
B2.B.01.01(Y)	Educational practice	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.		PC-6.1., PC- 6.2., PC-6.3.
B2.B.02.01(P)	General professional practice	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B2.E.ED.01	Elective practices (modules) 1						

	(ED.1)						
B2.E.ED.01.01 (P)	Medical and industrial practice	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
B2.E.ED.01.02 (P)	Academic research practice with the preparation of a scientific qualification project	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
BLOCK 3	State final certification						
B3.B.01	Preparation for passing and passing the state exam	PC-1.1., PC-1.2., PC-1.3.	PC-2.1., PC-2.2.	PC-3.1., PC- 3.2.	PC-4.1., PC- 4.2.	PC-5.1., PC- 5.2.	PC-6.1., PC- 6.2., PC-6.3.
OC.	Optional course						
OC.E.01	Russian language						

Code	Name of disciplines/modules that form students' competencies	PROFESSIONAL COMPETENCIES					
		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-8 Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals	PC-9 Ability to conduct medical, including physiotherapy procedures using special equipment in compliance with safety rules	PC-10 The ability to determine the need for the use of surgical methods in the treatment of animals	PC-11 Ability to develop a plan for a surgical operation, including the choice of anesthesia method	PC-12 The ability to conduct surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes
Block 1.	Disciplines (modules)						
B1.B	Mandatory part						
B1.B.01	Basic component						
B1.B.01.01	Animal anatomy			PC-9.2.			
B1.B.01.02	History						
B1.B.01.03	Latin language						
B1.B.01.04	Inorganic and Analytical Chemistry	PC-7.1.					
B1.B.01.05	Organic chemistry	PC-7.1.					
B1.B.01.05	Jurisprudence						
B1.B.01.07	Biology with the basics of ecology						
B1.B.01.08	Veterinary genetics				PC-10.1.		
B1.B.01.09	Biological physics		PC-8.1.	PC-9.1.			

B1.B.01.10	Computer science						
B1.B.01.11	Physical and colloidal chemistry	PC-7.1.					
B1.B.01.12	Philosophy						
B1.B.01.13	Cytology, histology and embryology				PC-10.1.		
B1.B.01.14	Life safety			PC-9.1.			
B1.B.01.15	Biological chemistry	PC-7.1.					
B1.B.01.16	Veterinary microbiology and mycology				PC-10.1.		
B1.B.01.17	Virology and Biotechnology						
B1.B.01.18	Physiology and ethology of animals		PC-8.1.				
B1.B.01.19	Breeding with the basics of private zootechnics						
B1.B.01.20	Animal health and welfare						
B1.B.01.21	Feeding animals with the basics of feed production		PC-8.1.				
B1.B.01.22	pathological physiology	PC-7.1.	PC-8.2.		PC-10.2.		
B1.B.01.23	Veterinary pharmacology	PC-7.1., PC-7.4.				PC-11.2.	
B1.B.01.24	Veterinary radiobiology		PC-8.1.				
B1.B.01.25	Clinical diagnostics				PC-10.2.		
B1.B.01.26	pathological anatomy				PC-10.2.		
B1.B.01.27	Operative surgery with topographic anatomy					PC-11.1., PC-11.2.	PC-12.1., PC-12.2., PC-12.3., PC-12.4., PC-12.5., PC-12.6.
B1.B.01.28	Instrumental diagnostic methods						
B1.B.01.29	Toxicology	PC-7.1., PC-7.4.					
B1.B.01.30	Obstetrics, gynecology and andrology	PC-7.1., PC-7.2., PC-7.3., PC-7.5.			PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	PC-12.5., PC-12.6.
B1.B.01.31	Internal non-communicable diseases	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.				

B1.B.01.32	General surgery	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	
B1.B.01.33	Private Veterinary Surgery	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	
B1.B.01.34	Parasitology and invasive diseases	PC-7.1., PC-7.2., PC-7.3., PC-7.5.					
B1.B.01.35	Epizootology and infectious diseases	PC-7.1., PC-7.2., PC-7.3., PC-7.5.					
B1.B.01.36	Veterinary and sanitary examination						
B1.B.01.37	Organization of veterinary business						
B1.B.01.38	Forensic veterinary examination and autopsy of animals						
B1.B.01.39	Physical Culture						
B1.B.02	Variable component						
B1.B.02.01	Maths						
B1.B.02.02	Fundamentals of Rhetoric and Communication						
B1.B.02.03	Introduction to the specialty						
B1.B.02.04	Fundamentals of Economics and Management						
B1.B.02.05	Immunology						
B1.B.02.06	General and veterinary ecology						
B1.B.02.07	Veterinary sanitation						
B1.B.02.08	Technology for processing livestock products						
B1.B.02.09	Veterinary deontology						
B1.B.02.10	Economics and organization of agricultural production						
B1.B.03	Course work						
B1.B.03.01	Animal welfare						
B1.B.ED.01	Foreign language						
B1.B.ED.01.01	Foreign language						
B1.B.ED.01.02	Russian as a foreign language)						

B1.E.ED.01	Elective disciplines (modules) 1 (ED.1)						
B1.E.ED.01.01	Interdisciplinary module						
B1.E.ED.02	Applied physical culture						
B1.E.ED.02.01	Applied physical culture						
B1.E.ED.03	Elective disciplines (modules) 3 (ED.3)						
B1.E.ED.03.01	Medicinal and poisonous plants	PC-7.1., PC-7.4.					
B1.E.ED.03.02	Fodder plants						
B1.E.ED.03.03	Basics of professional ethics						
B1.E.ED.04	Elective disciplines (modules) 4 (ED.4)						
B1.E.ED.04.01	Zoopsychology						
B1.E.ED.04.02	Animal health						
B1.E.ED.04.03	Psychology of personality and professional self-determination						
B1.E.ED.05	Elective disciplines (modules) 5 (ED.5)						
B1.E.ED.05.01	Clinical laboratory diagnostics						
B1.E.ED.05.02	Laboratory diagnostics of infectious and parasitic diseases						
B1.E.ED.06	Elective disciplines (modules) 6 (ED.6)						
B1.E.ED.06.01	Organization of state veterinary supervision						
B1.E.ED.06.02	Veterinary and manufacturing laboratories with design basics						
B1.E.ED.07	Elective disciplines (modules) 7 (ED.7)						
B1.E.ED.07.01	Biometrics in veterinary medicine						
B1.E.ED.07.02	Career Management						
B1.E.ED.07.03	Fundamentals of social and legal knowledge						
B1.E.ED.07.04	Space technologies in the service of the agro-industrial complex						
B1.E.ED.08	Elective disciplines (modules) 8						

	(ED.8)						
B1.E.ED.08.01	Equine diseases	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.08.02	Diseases of food producing animals	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.08.03	Communication workshop						
B1.E.ED.09	Elective disciplines (modules) 9 (ED.9)						
B1.E.ED.09.01	Diseases of small animals	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.09.02	Diseases of small pets	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.09.03	Diseases of bees and entomophages	PC-7.1., PC-7.2., PC-7.3., PC-7.5.					
B1.E.ED.09.04	Fish pathology and aquaculture	PC-7.1., PC-7.2., PC-7.3., PC-7.5.					
B1.E.ED.09.05	Diseases of exotic animals	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.10	Elective disciplines (modules) 10 (EC.10)						
B1.E.ED.10.01	Anesthesiology, resuscitation and intensive care	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.		PC-11.2	
B1.E.ED.10.02	Dermatology	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	
B1.E.ED.10.03	Cardiology	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	
B1.E.ED.10.04	Endocrinology	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	

B1.E.ED.10.05	Nephrology	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	
B1.E.ED.11	Elective disciplines (modules) 11 (ED.11)						
B1.E.ED.11.01	Reconstructive and restorative surgery		PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1.	PC-12.5., PC-12.6.
B1.E.ED.11.02	Veterinary ophthalmology	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.11.03	Animal Dentistry	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.		
B1.E.ED.12	Foreign language for special purposes						
B1.E.ED.12.01	Foreign language for special purposes						
B1.E.ED.12.02	Russian language for special purposes						
B1.E.ED.13	Foreign language. Translation of special texts						
B1.E.ED.13.01	Foreign language. Translation of special texts						
B1.E.ED.13.02	Russian language. Translation of special texts						
B1.E.ED.14	Foreign language. Professional communications						
B1.E.ED.14.01	Foreign language. Professional communications						
B1.E.ED.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
B2.B.01	Base component						
B2.B.01.01(Y)	Educational practice	PC-7.1., PC-7.4.		PC-9.2.	PC-10.2.		
B2.B.02.01(P)	General professional practice	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1., PC-11.2.	PC-12.1., PC-12.2., PC-12.3., PC-12.4., PC-12.5., PC-12.6.
B2.E.ED.01	Elective practices (modules) 1 (ED.1)						

B2.E.ED.01.01 (P)	Medical and industrial practice	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1., PC-11.2.	PC-12.1., PC-12.2., PC-12.3., PC-12.4., PC-12.5., PC-12.6.
B2.E.ED.01.02 (P)	Academic research practice with the preparation of a scientific qualification project	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1., PC-11.2.	PC-12.1., PC-12.2., PC-12.3., PC-12.4., PC-12.5., PC-12.6.
BLOCK 3	State final certification						
B3.B.01	Preparation for passing and passing the state exam	PC-7.1., PC-7.2., PC-7.3., PC-7.5.	PC-8.1., PC-8.2.	PC-9.1., PC-9.2.	PC-10.1., PC-10.2., PC-10.3.	PC-11.1., PC-11.2.	PC-12.1., PC-12.2., PC-12.3., PC-12.4., PC-12.5., PC-12.6.
OC.	Optional course						
OC.E.01	Russian language						

Code	Name of disciplines/modules that form students' competencies	PROFESSIONAL COMPETENCIES					
		PC-13 Ability to develop recommendations for special feeding of sick animals for therapeutic purposes	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-15 Ability to organize preventive immunizations (vaccinations), therapeutic and prophylactic treatment of animals in accordance with the plan of anti-epizootic measures	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-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-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 measures based on the results of examination of animals conducted as part of the medical examination
Block 1.	Disciplines (modules)						
B1.B	Mandatory part						
B1.B.01	Basic component						
B1.B.01.01	Animal anatomy						
B1.B.01.02	History						
B1.B.01.03	Latin language						
B1.B.01.04	Inorganic and Analytical Chemistry					PC-17.2.	

B1.B.01.05	Organic chemistry					PC-17.2.	
B1.B.01.05	Jurisprudence						
B1.B.01.07	Biology with the basics of ecology						
B1.B.01.08	Veterinary genetics						
B1.B.01.09	Biological physics						
B1.B.01.10	Computer science						
B1.B.01.11	Physical and colloidal chemistry					PC-17.2.	
B1.B.01.12	Philosophy						
B1.B.01.13	Cytology, histology and embryology						
B1.B.01.14	Life safety					PC-17.2.	
B1.B.01.15	Biological chemistry						
B1.B.01.16	Veterinary microbiology and mycology					PC-17.2.	
B1.B.01.17	Virology and Biotechnology					PC-17.2.	
B1.B.01.18	Physiology and ethology of animals				PC-16.1.		
B1.B.01.19	Breeding with the basics of private zootechnics						
B1.B.01.20	Animal health and welfare				PC-16.1.	PC-17.1., PC-17.3.	
B1.B.01.21	Feeding animals with the basics of feed production	PC-13.3.			PC-16.2.		
B1.B.01.22	pathological physiology	PC-13.1.					
B1.B.01.23	Veterinary pharmacology					PC-17.2.	
B1.B.01.24	Veterinary radiobiology						
B1.B.01.25	Clinical diagnostics		PC-14.2.				PC-18.2.
B1.B.01.26	pathological anatomy						
B1.B.01.27	Operative surgery with topographic anatomy						
B1.B.01.28	Instrumental diagnostic methods		PC-14.3.				PC-18.2.
B1.B.01.29	Toxicology						
B1.B.01.30	Obstetrics, gynecology and		PC-14.1., PC-		PC-16.3., PC-		PC-18.1., PC-

	andrology		14.4.		16.4., PC-16.5.		18.2., PC-18.3.
B1.B.01.31	Internal non-communicable diseases	PC-13.1. PC-13.2., PC-13.3.	PC-14.1., PC-14.4.		PC-16.3., PC-16.4., PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.B.01.32	General surgery	PC-13.1., PC-13.2.	PC-14.1., PC-14.4.		PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.B.01.33	Private Veterinary Surgery	PC-13.1., PC-13.2.	PC-14.1., PC-14.4.		PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.B.01.34	Parasitology and invasive diseases		PC-14.1., PC-14.4.	PC-15.1., PC-15.2.		PC-17.1., PC-17.3.	
B1.B.01.35	Epizootology and infectious diseases		PC-14.1., PC-14.4.	PC-15.1., PC-15.2.		PC-17.1., PC-17.3.	
B1.B.01.36	Veterinary and sanitary examination						
B1.B.01.37	Organization of veterinary business				PC-16.3., PC-16.4., PC-16.5.		
B1.B.01.38	Forensic veterinary examination and autopsy of animals						
B1.B.01.39	Physical Culture						
B1.B.02	Variable component						
B1.B.02.01	Maths						
B1.B.02.02	Fundamentals of Rhetoric and Communication						
B1.B.02.03	Introduction to the specialty						
B1.B.02.04	Fundamentals of Economics and Management						
B1.B.02.05	Immunology						
B1.B.02.06	General and veterinary ecology						
B1.B.02.07	Veterinary sanitation			PC-15.1., PC-15.2.		PC-17.1., PC-17.2., PC-17.3., PC-17.4.	
B1.B.02.08	Technology for processing livestock products						
B1.B.02.09	Veterinary deontology						
B1.B.02.10	Economics and organization of agricultural production						
B1.B.03	Course work						
B1.B.03.01	Animal welfare						

B1.B.ED.01	Foreign language						
B1.B.ED.01.01	Foreign language						
B1.B.ED.01.02	Russian as a foreign language)						
B1.E.ED.01	Elective disciplines (modules) 1 (ED.1)						
B1.E.ED.01.01	Interdisciplinary module						
B1.E.ED.02	Applied physical culture						
B1.E.ED.02.01	Applied physical culture						
B1.E.ED.03	Elective disciplines (modules) 3 (ED.3)						
B1.E.ED.03.01	Medicinal and poisonous plants					PC-16.2.	
B1.E.ED.03.02	Fodder plants	PC-13.3.				PC-16.2.	
B1.E.ED.03.03	Basics of professional ethics						
B1.E.ED.04	Elective disciplines (modules) 4 (ED.4)						
B1.E.ED.04.01	Zoopsychology					PC-16.1.	
B1.E.ED.04.02	Animal health					PC-16.1.	
B1.E.ED.04.03	Psychology of personality and professional self-determination						
B1.E.ED.05	Elective disciplines (modules) 5 (ED.5)						
B1.E.ED.05.01	Clinical laboratory diagnostics		PC-14.3.				PC-18.2.
B1.E.ED.05.02	Laboratory diagnostics of infectious and parasitic diseases						
B1.E.ED.06	Elective disciplines (modules) 6 (ED.6)						
B1.E.ED.06.01	Organization of state veterinary supervision						
B1.E.ED.06.02	Veterinary and manufacturing laboratories with design basics						
B1.E.ED.07	Elective disciplines (modules) 7 (ED.7)						
B1.E.ED.07.01	Biometrics in veterinary medicine						
B1.E.ED.07.02	Career Management						
B1.E.ED.07.03	Fundamentals of social and legal knowledge						

B1.E.ED.07.04	Space technologies in the service of the agro-industrial complex						
B1.E.ED.08	Elective disciplines (modules) 8 (ED.8)						
B1.E.ED.08.01	Equine diseases		PC-14.1., PC-14.2., PC-14.3., PC-14.4.		PC-16.5.		PC-18.1., PC-18.2., PC-18.3
B1.E.ED.08.02	Diseases of food producing animals		PC-14.1., PC-14.2., PC-14.3., PC-14.4.		PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.E.ED.08.03	Communication workshop						
B1.E.ED.09	Elective disciplines (modules) 9 (ED.9)						
B1.E.ED.09.01	Diseases of small animals		PC-14.1., PC-14.2., PC-14.3., PC-14.4.		PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.E.ED.09.02	Diseases of small pets		PC-14.1., PC-14.2., PC-14.3., PC-14.4.		PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.E.ED.09.03	Diseases of bees and entomophages			PC-15.1., PC-15.2.	PC-16.1., PC-16.5.		
B1.E.ED.09.04	Fish pathology and aquaculture			PC-15.1., PC-15.2.	PC-16.1., PC-16.5.		
B1.E.ED.09.05	Diseases of exotic animals		PC-14.1., PC-14.2.,		PC-16.5.		PC-18.1., PC-18.2., PC-18.3.
B1.E.ED.10	Elective disciplines (modules) 10 (EC.10)						
B1.E.ED.10.01	Anesthesiology, resuscitation and intensive care	PC-13.1., PC-13.2.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.				
B1.E.ED.10.02	Dermatology	PC-13.1., PC-13.2.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.				
B1.E.ED.10.03	Cardiology	PC-13.1., PC-13.2.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.				
B1.E.ED.10.04	Endocrinology	PC-13.1., PC-13.2.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.				

B1.E.ED.10.05	Nephrology	PC-13.1., PC-13.2.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.				
B1.E.ED.11	Elective disciplines (modules) 11 (ED.11)						
B1.E.ED.11.01	Reconstructive and restorative surgery		PC-14.1., PC-14.2., PC-14.3., PC-14.4.				
B1.E.ED.11.02	Veterinary ophthalmology		PC-14.1., PC-14.2., PC-14.3., PC-14.4.		PC-16.5.		
B1.E.ED.11.03	Animal Dentistry		PC-14.1., PC-14.2., PC-14.3., PC-14.4.		PC-16.5.		
B1.E.ED.12	Foreign language for special purposes						
B1.E.ED.12.01	Foreign language for special purposes						
B1.E.ED.12.02	Russian language for special purposes						
B1.E.ED.13	Foreign language. Translation of special texts						
B1.E.ED.13.01	Foreign language. Translation of special texts						
B1.E.ED.13.02	Russian language. Translation of special texts						
B1.E.ED.14	Foreign language. Professional communications						
B1.E.ED.14.01	Foreign language. Professional communications						
B1.E.ED.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
B2.B.01	Base component						
B2.B.01.01(Y)	Educational practice		PC-14.2.		PC-16.1.	PC-17.1, PC-17.2, PC-17.3.	PC-18.2.
B2.B.02.01(P)	General professional practice	PC-13.1. PC-13.2., PC-13.3.	PC-14.1., PC-14.2., PC-		PC-16.1., PC-16.2., PC-	PC-17.1., PC-	

			14.3., PC-14.4.	PC-15.1., PC-15.2.	16.3., PC-16.4., PC-16.5.	17.2., PC-17.3., PC-17.4.	PC-18.1., PC-18.2., PC-18.3.
B2.E.ED.01	Elective practices (modules) 1 (ED.1)						
B2.E.ED.01.01 (P)	Medical and industrial practice	PC-13.1. PC-13.2., PC-13.3.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.	PC-15.1., PC-15.2.	PC-16.1., PC-16.2., PC-16.3., PC-16.4., PC-16.5.	PC-17.1., PC-17.2., PC-17.3., PC-17.4.	PC-18.1., PC-18.2., PC-18.3.
B2.E.ED.01.02 (P)	Academic research practice with the preparation of a scientific qualification project	PC-13.1. PC-13.2., PC-13.3.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.	PC-15.1., PC-15.2.	PC-16.1., PC-16.2., PC-16.3., PC-16.4., PC-16.5.	PC-17.1., PC-17.2., PC-17.3., PC-17.4.	PC-18.1., PC-18.2., PC-18.3.
BLOCK 3	State final certification						
B3.B.01	Preparation for passing and passing the state exam	PC-13.1. PC-13.2., PC-13.3.	PC-14.1., PC-14.2., PC-14.3., PC-14.4.	PC-15.1., PC-15.2.	PC-16.1., PC-16.2., PC-16.3., PC-16.4., PC-16.5.	PC-17.1., PC-17.2., PC-17.3., PC-17.4.	PC-18.1., PC-18.2., PC-18.3.
OC.	Optional course						
OC.E.01	Russian language						

Code	Name of disciplines/modules that form students' competencies	PROFESSIONAL COMPETENCIES					
		PC-19 Ability to perform post-mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death	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-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-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-23 Ability to analyze the effectiveness of animal disease prevention measures in order to improve them	PC-24 Ability and willingness to promote veterinary knowledge, including in the field of animal disease prevention
Block 1.	Disciplines (modules)						
B1.B	Mandatory part						
B1.B.01	Basic component						
B1.B.01.01	Animal anatomy						
B1.B.01.02	History						
B1.B.01.03	Latin language						
B1.B.01.04	Inorganic and Analytical Chemistry						
B1.B.01.05	Organic chemistry						
B1.B.01.05	Jurisprudence						
B1.B.01.07	Biology with the basics of ecology						
B1.B.01.08	Veterinary genetics						

B1.B.01.09	Biological physics						
B1.B.01.10	Computer science						PC-24.1.
B1.B.01.11	Physical and colloidal chemistry						
B1.B.01.12	Philosophy						
B1.B.01.13	Cytology, histology and embryology						
B1.B.01.14	Life safety	PC-19.2.					
B1.B.01.15	Biological chemistry						
B1.B.01.16	Veterinary microbiology and mycology				PC-21.1.		
B1.B.01.17	Virology and Biotechnology				PC-21.1.		
B1.B.01.18	Physiology and ethology of animals						
B1.B.01.19	Breeding with the basics of private zootechnics					PC-23.3.	PC-24.1.
B1.B.01.20	Animal health and welfare				PC-21.1., PC-21.2.	PC-22.1., PC-22.3.	PC-23.1., PC-23.3. PC-24.1.
B1.B.01.21	Feeding animals with the basics of feed production						PC-24.1.
B1.B.01.22	pathological physiology						
B1.B.01.23	Veterinary pharmacology						
B1.B.01.24	Veterinary radiobiology				PC-21.1.		
B1.B.01.25	Clinical diagnostics						
B1.B.01.26	pathological anatomy	PC-19.1., PC-19.2., PC-19.3., PC-19.4.					
B1.B.01.27	Operative surgery with topographic anatomy						
B1.B.01.28	Instrumental diagnostic methods						
B1.B.01.29	Toxicology	PC-19.3.					
B1.B.01.30	Obstetrics, gynecology and andrology	PC-19.3.				PC-23.1.	PC-24.3.
B1.B.01.31	Internal non-communicable diseases	PC-19.3.	PC-20.2.			PC-23.1.	PC-24.3.
B1.B.01.32	General surgery	PC-19.3.	PC-20.2.			PC-23.1.	PC-24.3.
B1.B.01.33	Private Veterinary Surgery	PC-19.3.	PC-20.2.			PC-23.1.	PC-24.3.

B1.B.01.34	Parasitology and invasive diseases	PC-19.3.	PC-20.1., PC-20.2.		PC-22.1.	PC-23.1., PC-23.3.	PC-24.3.
B1.B.01.35	Epizootology and infectious diseases	PC-19.3.	PC-20.1., PC-20.2.		PC-22.1.	PC-23.1., PC-23.3.	PC-24.3.
B1.B.01.36	Veterinary and sanitary examination	PC-19.3.				PC-23.1.	
B1.B.01.37	Organization of veterinary business		PC-20.1., PC-20.2., PC-20.3.		PC-22.1., PC-22.3.	PC-23.1., PC-23.3.	
B1.B.01.38	Forensic veterinary examination and autopsy of animals	PC-19.1., PC-19.2., PC-19.3., PC-19.4.				PC-23.1.	
B1.B.01.39	Physical Culture						
B1.B.02	Variable component						
B1.B.02.01	Maths						
B1.B.02.02	Fundamentals of Rhetoric and Communication						PC-24.3.
B1.B.02.03	Introduction to the specialty						PC-24.1.
B1.B.02.04	Fundamentals of Economics and Management		PC-20.3.			PC-23.2.	
B1.B.02.05	Immunology						
B1.B.02.06	General and veterinary ecology				PC-22.1.		PC-24.3.
B1.B.02.07	Veterinary sanitation		PC-20.2., PC-20.3.	PC-21.1., PC-21.2., PC-21.3.	PC-22.1., PC-22.2., PC-22.3.	PC-23.3.	PC-24.3.
B1.B.02.08	Technology for processing livestock products				PC-22.1.		
B1.B.02.09	Veterinary deontology						PC-24.1.
B1.B.02.10	Economics and organization of agricultural production		PC-20.3.			PC-23.2.	
B1.B.03	Course work						
B1.B.03.01	Animal welfare						
B1.B.ED.01	Foreign language						
B1.B.ED.01.01	Foreign language						
B1.B.ED.01.02	Russian as a foreign language)						

B1.E.ED.01	Elective disciplines (modules) 1 (ED.1)						
B1.E.ED.01.01	Interdisciplinary module						
B1.E.ED.02	Applied physical culture						
B1.E.ED.02.01	Applied physical culture						
B1.E.ED.03	Elective disciplines (modules) 3 (ED.3)						
B1.E.ED.03.01	Medicinal and poisonous plants						
B1.E.ED.03.02	Fodder plants						
B1.E.ED.03.03	Basics of professional ethics						
B1.E.ED.04	Elective disciplines (modules) 4 (ED.4)						
B1.E.ED.04.01	Zoopsychology						PC-24.1.
B1.E.ED.04.02	Animal health						
B1.E.ED.04.03	Psychology of personality and professional self-determination						
B1.E.ED.05	Elective disciplines (modules) 5 (ED.5)						
B1.E.ED.05.01	Clinical laboratory diagnostics	PC-19.3.					
B1.E.ED.05.02	Laboratory diagnostics of infectious and parasitic diseases	PC-19.3.			PC-22.1.		
B1.E.ED.06	Elective disciplines (modules) 6 (ED.6)						
B1.E.ED.06.01	Organization of state veterinary supervision				PC-22.1., PC-22.3.		
B1.E.ED.06.02	Veterinary and manufacturing laboratories with design basics						
B1.E.ED.07	Elective disciplines (modules) 7 (ED.7)						
B1.E.ED.07.01	Biometrics in veterinary medicine						
B1.E.ED.07.02	Career Management						
B1.E.ED.07.03	Fundamentals of social and legal knowledge						
B1.E.ED.07.04	Space technologies in the service of the						

	agro-industrial complex						
B1.E.ED.08	Elective disciplines (modules) 8 (ED.8)						
B1.E.ED.08.01	Equine diseases	PC-19.3.					PC-24.3.
B1.E.ED.08.02	Diseases of food producing animals	PC-19.3.					PC-24.3.
B1.E.ED.08.03	Communication workshop						PC-24.1.
B1.E.ED.09	Elective disciplines (modules) 9 (ED.9)						
B1.E.ED.09.01	Diseases of small animals	PC-19.3.					PC-24.3.
B1.E.ED.09.02	Diseases of small pets	PC-19.3.					PC-24.3.
B1.E.ED.09.03	Diseases of bees and entomophages		PC-20.2.				PC-24.3.
B1.E.ED.09.04	Fish pathology and aquaculture		PC-20.2.				PC-24.3.
B1.E.ED.09.05	Diseases of exotic animals	PC-19.3.					PC-24.3.
B1.E.ED.10	Elective disciplines (modules) 10 (EC.10)						
B1.E.ED.10.01	Anesthesiology, resuscitation and intensive care						
B1.E.ED.10.02	Dermatology						PC-24.3.
B1.E.ED.10.03	Cardiology						PC-24.3.
B1.E.ED.10.04	Endocrinology						PC-24.3.
B1.E.ED.10.05	Nephrology						PC-24.3.
B1.E.ED.11	Elective disciplines (modules) 11 (ED.11)						
B1.E.ED.11.01	Reconstructive and restorative surgery						PC-24.3.
B1.E.ED.11.02	Veterinary ophthalmology						PC-24.3.
B1.E.ED.11.03	Animal Dentistry						PC-24.3.
B1.E.ED.12	Foreign language for special purposes						
B1.E.ED.12.01	Foreign language for special purposes						
B1.E.ED.12.02	Russian language for special purposes						
B1.E.ED.13	Foreign language. Translation of special texts						
B1.E.ED.13.01	Foreign language. Translation of special texts						
B1.E.ED.13.02	Russian language. Translation of special texts						
B1.E.ED.14	Foreign language. Professional						

	communications						
B1.E.ED.14.01	Foreign language. Professional communications						
B1.E.ED.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
B2.B.01	Base component						
B2.B.01.01(Y)	Educational practice	PC-19.1., PC-19.2., PC-19.3., PC-19.4.		PC-21.1., PC-21.2.	PC-22.1., PC-22.3.	PC-23.1., PC-23.3.	PC-24.1.
B2.B.02.01(P)	General professional practice	PC-19.1., PC-19.2., PC-19.3., PC-19.4.	PC-20.1., PC-20.2., PC-20.3.	PC-21.1., PC-21.2., PC-21.3.	PC-22.1., PC-22.2., PC-22.3.	PC-23.1., PC-23.2., PC-23.3.	PC-24.1., PC-24.3.
B2.E.ED.01	Elective practices (modules) 1 (ED.1)						
B2.E.ED.01.01 (P)	Medical and industrial practice	PC-19.1., PC-19.2., PC-19.3., PC-19.4.	PC-20.1., PC-20.2., PC-20.3.	PC-21.1., PC-21.2., PC-21.3.	PC-22.1., PC-22.2., PC-22.3.	PC-23.1., PC-23.2., PC-23.3.	PC-24.1., PC-24.3.
B2.E.ED.01.02 (P)	Academic research practice with the preparation of a scientific qualification project	PC-19.1., PC-19.2., PC-19.3., PC-19.4.	PC-20.1., PC-20.2., PC-20.3.	PC-21.1., PC-21.2., PC-21.3.	PC-22.1., PC-22.2., PC-22.3.	PC-23.1., PC-23.2., PC-23.3.	PC-24.1., PC-24.3.
BLOCK 3	State final certification						
B3.B.01	Preparation for passing and passing the state exam	PC-19.1., PC-19.2., PC-19.3., PC-19.4.	PC-20.1., PC-20.2., PC-20.3.	PC-21.1., PC-21.2., PC-21.3.	PC-22.1., PC-22.2., PC-22.3.	PC-23.1., PC-23.2., PC-23.3.	PC-24.1., PC-24.3.
OC.	Optional course						
OC.E.01	Russian language						

