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

Аграрно-технологический институт

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

Утверждена на заседании Ученого
совета РУДН протокол № 3
от « 21 » декабря 2011 г.

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№ 654
от « 09 » июля 2012 г.

**ОСНОВНАЯ ПРОФЕССИОНАЛЬНАЯ ОБРАЗОВАТЕЛЬНАЯ ПРОГРАММА
ВЫСШЕГО ОБРАЗОВАНИЯ (ОП ВО)**

Направление подготовки/специальность:

36.05.01 Veterinary / Ветеринария

(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:

Руководитель ОП ВО
Ватников Ю.А.



(подпись)

Председатель МССН
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(подпись)

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1. EDUCATIONAL PROGRAMME GOAL (MISSION)

The goal of the program is to train 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, and 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. EDUCATIONAL PROGRAMME RELEVANCE, SPECIFICITY, AND UNIQUENESS

The program implemented at training of 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" 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. LABOUR MARKET NEEDS FOR PERSONNEL TRAINING IN EDUCATIONAL PROGRAMME PROFILE

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 EDUCATIONAL PROGRAMME IMPLEMENTATION

5.1 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.

5.2. The language of implementation of the higher education program is English

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

There are conditions for training people with at the RUDN University. To organize the educational process, there is the necessary equipment; the possibility of training on an individual schedule is provided.

For people with disabilities, the RUDN University establishes a special procedure for mastering academic disciplines on the basis of observing the principles of health preservation. Comprehensive support for the educational process of people with disabilities is carried out in accordance with the recommendations of the medical and social expertise service. Support is adapted to the structure of the educational process, determined by its goals, construction, content and methods.

RUDN University provides access for people with disabilities to information systems and telecommunication networks. On the official website of RUDN University, there is a mode "For the visually impaired" (enabled by the "Eye" icon in the upper left corner of the monitor on any of the pages of the site). RUDN University has electronic educational resources adapted for use by people with disabilities.

The University as a whole and the Agrarian and Technological Institute, in particular, have created additional conditions for the development of barrier-free infrastructure, which ensures the accessibility of entrance routes and transportation routes within the university for persons with disabilities, as well as the accessibility of the adjacent territory. Training sessions with people with disabilities (if available in the contingent) are carried out in classrooms, facilities for practical training, sports facilities located on the first floors of educational buildings. Inside the educational buildings there are ramps, handrails, extended doorways. Entrances to educational buildings, health and fitness complex and other buildings are equipped with ramps. On the territory of the University there are social facilities (polyclinic, cafes and canteens, multifunctional centers, etc.) accessible people with disabilities. The premises of the University intended for mass events are equipped with sound-

amplifying equipment.

5.4. 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,
VETZdorovye 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	

5.5. The information on the planned introductory/advanced field internships and (or) research & development internships

Internship *	Internship location (name of organization, location)
Educational practice (introductory, field trip)	State Autonomous Institution of Culture "Moscow State Zoological Park" VETZdorovye 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)	VETZdorovye LLC / MedVet LLC LLC VK ZooAkademiya LLC Belyi KIGC-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 EDUCATIONAL PROGRAMME GRADUATE'S PROFESSIONAL ACTIVITIES

6.1. The field(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 education al.

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 title of occupational standard	Generalized labour functions			Labour functions		
	Code	Title	Qualification level	Type	Code	Qualification level (sublevel)
141 Veterinary worker (type of professional activity - Ensuring the veterinary	G	Providing veterinary care to all animals species	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	G/02.7	7

welfare of animals and humans code 13.012 ARCO code - 2250 Veterinarians RNCE code - Veterinary activity)				animals Management of the system of measures to prevent the occurrence of non-contagious, infectious and parasitic animal diseases	G/03.7	7
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* - the wording of labor functions is adopted from the relevant Professional Standards (if any).

7. REQUIREMENTS FOR EDUCATIONAL PROGRAMME OUTCOMES

7.1 Upon completion of the Educational Programme, the graduate is expected to acquire the following Generic Competences (GCs):

Code and descriptor of generic competence	Code and competence level indicator
GC-1 The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.	GC-1.1. Analyzes the task, highlighting its basic components; GC-1.2. Determines and ranks the information required to solve the problem; GC-1.3. Searches for information to solve the task for various types of requests; GC-1.4. Offers options for solving the problem, analyzes the possible consequences of their use; GC-1.5. Analyzes ways to solve problems of an ideological, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural context
GC-2 The ability to manage a project at all stages of its life cycle.	GC-2.1. Formulates a problem, the solution of which is directly related to the achievement of the project goal; GC-2.2. Determines the links between the tasks set and the expected results of their solution; GC-2.3. Within the framework of the tasks set, determines the available resources and restrictions, the current legal norms; GC-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; GC-2.5 Controls the progress of the project, adjusts the schedule in accordance with the results of control.
GC-3 The ability to organize and manage the work of the team, developing a team strategy to achieve the goal.	GC-3.1. Determines his role in the team, based on the strategy of cooperation to achieve the goal; GC-3.2. Formulates and takes into account in its activities the behavioral characteristics of groups of people identified depending on the goal; GC-3.3. Analyzes the possible consequences of personal actions and plans their actions to achieve a given result; GC-3.4. Carries out the exchange of information, knowledge and experience with team members; GC-3.5. Argues his point of view regarding the use of the ideas of other team members to achieve the goal; GC-3.6. Participates in team work to complete assignments.
GC-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.	GC-4.1. Chooses the style of business communication, depending on the language of communication, the purpose and conditions of the partnership; GC-4.2. Adapts speech, communication style and body language to interaction situations; GC-4.3. Searches for the necessary information to solve standard communicative tasks in Russian and foreign languages; GC-4.4. Performs translation of professional texts from a foreign language into Russian and vice versa; GC-4.5. Conducts business correspondence in Russian and foreign languages, taking into account the peculiarities of the style of official and unofficial letters and socio-cultural differences in the format of correspondence; GC-4.6. Uses dialogue for academic collaboration communication communication, taking into account the personality of the interlocutors, their communicative-speech strategy and tactics, the

	<p>degree of formality of the situation;</p> <p>GC-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>GC-5 The ability to analyze and take into account the diversity of cultures in the process of intercultural interaction.</p>	<p>GC-5.1. Interprets the history of Russia in the context of world historical development;</p> <p>GC-5.2. Finds and uses information about the cultural characteristics and traditions of various social groups in social and professional communication;</p> <p>GC-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;</p> <p>GC-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;</p> <p>GC-5.5. Substantiates the features of project and team activities with representatives of other ethnic groups and (or) confessions;</p> <p>GC-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>GC-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.</p>	<p>GC-6.1. Controls the amount of time spent on specific activities;</p> <p>GC-6.2. Develops tools and methods of time management in the performance of specific tasks, projects, goals;</p> <p>GC-6.3. Analyzes his resources and their limits (personal, situational, temporary, etc.) for the successful completion of the task;</p> <p>GC-6.4. Finds and uses sources of additional information to increase the level of general and professional knowledge;</p> <p>GC-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;</p> <p>GC-6.6. Determines the tasks of self-development, goals and priorities of professional growth;</p> <p>GC-6.7. Divides tasks into long, medium and short term</p>
<p>GC-7 The ability to maintain the proper level of physical fitness to ensure full-fledged social and professional activities.</p>	<p>GC-7.1. Chooses health-saving technologies to maintain a healthy lifestyle, taking into account the physiological characteristics of the body;</p> <p>GC-7.2. Plans his working and free time for the optimal combination of physical and mental stress and ensuring efficiency;</p> <p>GC-7.3. Observes and promotes the norms of a healthy lifestyle in various life situations and in professional activities</p>
<p>GC-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</p>	<p>GC-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);</p> <p>GC-8.2. Identifies dangerous and harmful factors within the framework of the task being performed;</p> <p>GC-8.3. Identifies and eliminates problems associated with safety violations in the workplace;</p> <p>GC-8.4. Explains measures to prevent emergency situations;</p> <p>GC-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</p>

conflicts.	conflicts; GC-8.6. Provides first aid, participates in recovery events.
GC-9 The ability to use basic defectological knowledge in social and professional areas.	GC-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; GC-9.2. Plans and carries out professional activities with persons with disabilities or disabilities. GC 9.3. Interacts with persons with disabilities or disabilities in social and professional areas.
GC-10 The ability to make informed economic decisions in various areas of life.	GC-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; GC-10.2. Applies personal economic and financial planning methods to achieve current and long-term financial goals; GC-10.3. Uses financial instruments to manage personal finances (personal budget), controls own economic and financial risks.
GC-11 The ability to form an intolerant attitude towards corrupt behavior.	GC-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; GC-11.2. Plans, organizes and conducts activities that ensure the formation of a civil position and the prevention of corruption in society; GC-11.3. Complies with the rules of social interaction based on compliance with current legislation and an intolerant attitude towards corruption.
GC-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 received from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data.	GC-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; GC-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 descriptor of general professional competence	Code and competence level indicator
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 individual body systems and draw conclusions about the presence of deviations from the normative values.

	GPC 1.4. Possesses the skills of taking samples of biological fluids and tissues for research, performing laboratory tests, interpreting research results.
GPC-2 The ability to interpret and evaluate in professional activities the impact on the physiological state of the animal organism of natural, socio-economic, genetic and economic factors.	GPC-2.1. Knows the influence of natural, socio-economic, genetic and economic factors on the animal organism. GPC-2.2. Able to establish the presence and reliability of causal relationships between the impact of individual etiological factors on the animal's body and the development of diseases GPC-2.3. Knows methods of preventive and therapeutic correction of the impact of adverse environmental factors that can cause a deterioration in the health of animals
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-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 GPC-3.2. Possesses the skills of updating legal information, including in the field of agro-industrial complex 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.
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-4.1. Knows the conceptual and methodological apparatus of the basic natural sciences at a level sufficient for full-fledged professional activity at the modern level GPC-4.2. Knows methods of solving problems using modern equipment GPC-4.3. Ready to use modern methodology in the development and conduct of experimental studies GPC-4.4. Uses modern professional methodology when interpreting research results
GPC-5 The ability to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases.	GPC-5.1. Able to search for the necessary forms of documentation on official websites and specialized databases GPC-5.2. Proficient in professional terminology and skills in filling out analytical and reporting documents of a professional nature GPC-5.3. Able to use specialized software for analyzing the results of professional activity and compiling reporting documentation.
GPC-6 The ability to analyze, identify and carry out a risk assessment of the risk of the emergence and spread of diseases.	GPC-6.1. Knows the field of etiology and pathogenesis of animal diseases of different species. GPC-6.2. Knows patterns of occurrence and spread of diseases in animal populations, factors predisposing to diseases and causes of possible complications. GPC-6.3 Assesses the risks of the impact of human economic activity on the spread of animal and human diseases.
GPC-7 The ability to understand the principles of modern information technology and use them to solve problems of professional activity.	GPC-7.1. Understands the principles of operation of modern computer equipment and telecommunications and knows how to use them to solve professional problems GPC-7.2. Uses modern special software and specialized databases to solve professional problems and perform job duties GPC-7.3. Has the skills to work on modern medical diagnostic and treatment equipment with software GPC-7.4. Uses specialized databases to solve professional problems in the field of diagnostics and treatment of animals of various species GPC-7.5. Uses geographic information systems and software systems in the collection and analysis of information related to the assessment

	of the spread of infectious diseases, epizootic situations, planning and evaluating the effectiveness of anti-epizootic measures
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7.3. Upon completion of the Educational Programme, the graduate is expected to acquire the following professional competences (PCs)*

Code and descriptor of professional competence	Code and competence level indicator	Code and title of occupational standard for relevant PC
PC-1. The ability to collect an anamnesis of the life and health of an animal for further diagnosis and planning of therapeutic and preventive measures.	PC-1.1 Collects anamnesis of the animal's life, information about routine vaccinations, deworming and other preventive treatments. PC-1.2 Collects information about previous diseases, surgical interventions, current chronic diseases and ongoing therapy for these diseases. PC-1.3 Collects information about the change in the state of the animal during the course of the disease, the diagnostic and therapeutic measures taken, the medicines used and the methods of physiotherapy.	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 complete primary clinical examination of the animal to establish a preliminary clinical diagnosis (diagnoses) and repeated examinations to monitor the patient's condition.	PC-2.1. Complies with the technique and procedure for conducting a clinical examination, taking into account the type of animal and its condition. PC-2.2. Highlights signs (symptoms) of deviations from normal function, recognizes standard combinations of signs (syndromes). PC-2.3. Records the results of the examination in the patient's record / other medical documents PC-2.4. Able to assess the primary degree of manifestation of clinical symptoms and their change in the course of the patient's curaton	
PC-3. The ability to plan measures for the differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about the symptoms / syndromes of the disease in a patient, forms a set of preliminary diagnoses for their further confirmation or refutation. PC-3.2 Uses a ready-made or compiles a unique algorithm for differential diagnosis, taking into account the capabilities of a medical institution. PC-3.3 Uses the information obtained as a result of diagnostic measures to make the final diagnosis (diagnoses) and correct the diagnoses, if necessary.	
PC-4. The ability to carry out the necessary laboratory diagnostics as part of preventive or diagnostic measures.	PC-4.1 Knows modern methods of laboratory diagnostics, their purpose, features of preanalytics and interpretation of results. PC-4.2 Selects the necessary type of laboratory diagnostics to solve the task, taking into account the knowledge of basic biological disciplines. PC-4.3 Able to conduct laboratory tests using modern diagnostic equipment. PC-4.4 Interprets the diagnostic results and uses them to solve the task.	
PC-5. Ability and	PC-5.1 Knows of modern methods of instrumental	

<p>willingness to plan and conduct the necessary types of instrumental diagnostics of the patient's condition</p>	<p>diagnostics, features of their use, indications, possible complications and contraindications to their use. PC-5.2 Selects the necessary and sufficient set of instrumental diagnostic methods to solve the problem. PC-5.3 Able to carry out instrumental diagnostics of diseases in animals. PC-5.4 Interprets the diagnostic results and uses them to solve the task.</p>	
<p>PC-6. The ability, based on data from clinical, laboratory and instrumental diagnostics, as well as additional diagnostic methods, to make a diagnosis and predict the course and spread of the disease.</p>	<p>PC-6.1 Has knowledge about the features of the manifestation of infectious, parasitic, internal non-contagious, surgical, gynecological and other diseases of animals of various species. PC-6.2 Knows methods of making a complex diagnosis, taking into account the results of anamnesis, clinical, laboratory and instrumental studies. PC-6.3 Knows methods for predicting the course and outcome of treatment of the underlying disease based on a complex of concomitant diagnoses and factors complicating the patient's condition. PC-6.4 Knows methods for assessing the risks of the spread of a detected disease.</p>	
<p>PC-7. Ability to choose or develop a treatment plan for the patient based on the diagnosis</p>	<p>PC-7.1 Able to select drugs necessary for the treatment of animals, guided by the principles of evidence-based medicine, taking into account the cumulative pharmacological effect of all prescribed drugs on the body. PC-7.2 Able to choose the best way to administer the drug, calculate the dose and frequency of administration, the duration of the course of each drug. PC-7.3 Able to choose non-drug, including physiotherapeutic, methods of influencing the body of a sick animal that contribute to its recovery and apply them to treat a patient. PC-7.4 Able to draw up a treatment plan for the patient, select criteria for monitoring its effectiveness and options for changing the treatment plan in the absence of the effectiveness of the selected treatment methods.</p>	
<p>PC-8. Coordinates the treatment plan with the owner of the animal and other participants in the treatment process, if necessary, corrects it during the treatment process and coordinates the changes with the owner of the animal.</p>	<p>PC-8.1 Able to explain the selected treatment plan to the owner of the animal, obtain his consent and readiness to invest his resources in the treatment of the pet. PC-8.2 Ready to communicate with the owner of the patient about changes in his condition that occurred during treatment, about compliance with the prescribed therapy and the correspondence between the forecasts and the actual results of the patient's treatment. PC-8.3 Ready to explain to the owner and medical staff the fact of correcting the prescribed treatment in case of changes in the patient's condition.</p>	
<p>PC-9. Ability to use methods of operative surgery in the course of prevention, diagnosis and treatment of animal diseases.</p>	<p>PC-9.1 Selects the necessary method of surgical intervention, if necessary - including methods of anesthesia. PC-9.2 Plans preoperative preparation, course of surgical intervention, management of the early postoperative period, prevention of complications. PC-9.3 Able to independently perform basic preventive, diagnostic and therapeutic surgical interventions (including punctures, soft tissue necrectomy, tail amputation, castration of males and females, dehornization, diagnostic laparotomy,</p>	

	etc.) PC-9.4 Controls the result of surgery.	
PC-10. The ability to analyze and adjust the feeding of animals to improve the effectiveness of the treatment process, prescribe therapeutic diets.	PC-10.1 Able to analyze the patient's diet in order to identify factors predisposing to the development of diseases. PC-10.2 Able to justify the appointment of special feeding to an animal for therapeutic purposes in various diseases PC-10.3 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-10.4 Able to use special programs and databases for the selection of industrial therapeutic diets and dietary supplements, as well as for the preparation of individual therapeutic diets for animals of various species.	
PC-11. 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, incl. a plan for preventive immunizations (vaccinations) and therapeutic and prophylactic treatments.	PC-11.1 Able to conduct an epizootological survey of an organization, territory PC-11.2 Able to develop an annual plan for anti-epizootic and anti-parasitic measures, a plan for the prevention of non-communicable animal diseases, a plan for veterinary and sanitary measures PC-11.3 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-11.4 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 where animals are located, incl. in the conditions of agricultural production PC-11.5 Able to analyze the completeness and effectiveness of measures for the prevention of animal diseases in order to improve them	
PC-12. The ability to organize and conduct medical examinations in animals, both general and specialized.	PC-12.1 Able to draw up a plan for the medical examination of animals, general or specialized, taking into account their types and purpose PC-12.2 Able to organize and conduct medical examinations according to the plan PC-12.3 Able, based on the results of medical examination, to give recommendations on the implementation of preventive and therapeutic and therapeutic measures aimed at improving the health of a group of animals	
PC-13. The ability to perform a post-mortem diagnostic study of animals in order to establish pathological processes, diseases, causes of death.	PC-13.1 Able to conduct a general examination of animal corpses before autopsy PC-13.2 Capable of performing an autopsy of animal corpses using special tools and observing safety requirements PC-13.3 Able to establish the cause of death and pathoanatomical diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases PC-13.4 Able to document the results of the post-mortem diagnostic examination of the animal in the autopsy protocol	
PC-14. Willingness to promote veterinary knowledge, including in the field of animal disease prevention.	PC-14.1 Able to analyze problems leading to a violation of the health and welfare of animals, on the basis of this, set goals in the field of promotion of veterinary knowledge, plan a strategy and tactics for upcoming events PC-14.2 Able to use computer and telecommunication facilities for the preparation and demonstration of materials	

	used in the process of promotion of veterinary knowledge PC-14.3 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	
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* - 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 that students acquire** when mastering the Educational Programme 36.05.01 Veterinary, implemented under the RUDN University Academic Council decision dated " __ " _____ 20__ (Protocol No. _____) in the field of studies / speciality 36.05.01 Veterinary _____

Code	Courses/modules that form students' competences	UNIVERSAL COMPETENCES					
		GC-1 The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.	GC-2 The ability to manage a project at all stages of its life cycle.	GC-3 The ability to organize and manage the work of the team, developing a team strategy to achieve the goal.	GC-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.	GC-5 The ability to analyze and take into account the diversity of cultures in the process of intercultural interaction.	GC-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	Core component						
B1.O.01.01	Animal anatomy						
B1.O.01.02	History					GC-5.1, GC-5.2, GC-5.3., GC-5.4	

B1.O.01.03	Latin language						
B1.O.01.04	Inorganic and Analytical Chemistry						
B1.O.01.05	Organic chemistry						
B1.O.01.05	Law science		GC-2.3				
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	GC-1.3					
B1.O.01.11	Physical and colloidal chemistry						
B1.O.01.12	Philosophy	GC-1.1, GC-1.2, GC-1.4, GC-1.5					
B1.O.01.13	Cytology, histology and embryology						
B1.O.01.14	Life safety						
B1.O.01.15	Biological chemistry						
B1.O.01.16	Veterinary microbiology and mycology						
B1.O.01.17	Virology and Biotechnology						
B1.O.01.18	Physiology and ethology of animals						
B1.O.01.19	Breeding with the basics of private zootechnics						
B1.O.01.20	Animal health and welfare		GC-2.4, GC-2.5				
B1.O.01.21	Feeding animals with the basics of feed						

	production						
B1.O.01.22	Pathological physiology						
B1.O.01.23	Veterinary pharmacology						
B1.O.01.24	Veterinary radiobiology						
B1.O.01.25	Clinical diagnostics						
B1.O.01.26	Pathological anatomy						
B1.O.01.27	Operative surgery with topographic anatomy						
B1.O.01.28	Instrumental diagnostic methods						
B1.O.01.29	Toxicology						
B1.O.01.30	Obstetrics, gynecology and andrology						
B1.O.01.31	Internal diseases						
B1.O.01.32	General surgery						
B1.O.01.33	Private Veterinary Surgery						
B1.O.01.34	Parasitology and invasive diseases						
B1.O.01.35	Epizootology and infectious diseases						
B1.O.01.36	Veterinary and sanitary examination						
B1.O.01.37	Organization of veterinary business						
B1.O.01.38	Forensic veterinary examination and autopsy of animals						
B1.O.01.39	Physical Culture						
B1.O.02	Variable component						
B1.O.02.01	Maths	GC-1.1, GC-1.2, GC-1.3					
B1.O.02.02	Russian language and culture of speech			GC-3.4, GC-3.5			
B1.O.02.03	Introduction to the specialty		GC-2.1, GC-2.2, GC-2.3	GC-3.1, GC-3.2., GC-3.3, GC-3.6		GC-6.1, GC-6.2, GC-6.3, GC-6.4, GC-6.5, GC-6.6, GC-6.7	
B1.O.02.04	Basics of Economics and Management						
B1.O.02.05	Immunology						

B1.O.02.06	General and veterinary ecology						
B1.O.02.07	Veterinary sanitary						
B1.O.02.08	Technology of livestock products processing						
B1.O.02.09	Veterinary deontology					GC-5.5, GC-5.6	
B1.O.02.10	Economics and organization of agricultural production						
B1.O.ДВ.01	Foreign language				GC-4.1, GC-4.2, GC-4.3		
B1.O.ДВ.01.01	Foreign language 1				GC-4.1, GC-4.2, GC-4.3		
B1.O.ДВ.01.02	Russian as a foreign language 2				GC-4.1, GC-4.2, GC-4.3		
	Part formed by participants in educational relations						
B1.B.ДВ.01	Elective disciplines (modules) 1 (DV.1)						
B1.B.ДВ.01.01	Interdisciplinary module						GC-6.1, GC-6.2, GC-6.3, GC-6.4
B1.B.ДВ.02	Applied physical culture						
B1.B.ДВ.02.01	Applied physical education						
B1.B.ДВ.03	Elective disciplines (modules) 3 (DV.3)						
B1.B.ДВ.03.01	Medicinal and poisonous plants						
B1.B.ДВ.03.02	Fodder plants						
B1.B.ДВ.03.03	Basics of professional ethics				GC-3.4, GC-3.5		
B1.B.ДВ.04	Elective disciplines (modules) 4 (DV.4)						
B1.B.ДВ.04.01	Zoopsychology						
B1.B.ДВ.04.02	Animal health						
B1.B.ДВ.04.03	Psychology of personality and professional self-determination						
B1.B.ДВ.05	Elective disciplines (modules) 5 (EC.5)						

B 1.B.ДВ.05.01	Clinical laboratory diagnostics						
B 1.B.ДВ.05.02	Laboratory diagnostics of infectious and parasitic diseases						
B 1.B.ДВ.06	Elective disciplines (modules) 6 (DV.6)						
B 1.B.ДВ.06.01	Organization of state veterinary supervision						
B 1.B.ДВ.06.02	Veterinary and manufacturing laboratories with design basics						
B 1.B.ДВ.07	Elective disciplines (modules) 7 (DV.7)						
B 1.B.ДВ.07.01	Biometrics in veterinary medicine						
B 1.B.ДВ.07.02	Career Management						GC-6.5, GC-6.6, GC-6.7
B 1.B.ДВ.07.03	Basics of social and legal knowledge					GC-5.4, GC-5.5, GC-5.6	
B 1.B.ДВ.07.04	Space technologies in the service of the agro-industrial complex						
B 1.B.ДВ.08	Elective disciplines (modules) 8 (DV.8)						
B 1.B.ДВ.08.01	Equine diseases						
B 1.B.ДВ.08.02	Diseases of productive animals						
B 1.B.ДВ.08.03	Communication workshop				GC-3.4, GC-3.5		
B 1.B.ДВ.09	Elective disciplines (modules) 9 (DV.9)						
B 1.B.ДВ.09.01	Diseases of pets						
B 1.B.ДВ.09.02	Diseases of bees and entomophages						
B 1.B.ДВ.09.03	Fish pathology and aquaculture						
B 1.B.ДВ.09.04	Diseases of exotic animals						
B 1.B.ДВ.10	Elective disciplines (modules) 10 (EC.10)						
B 1.B.ДВ.10.01	Anesthesiology, resuscitation and intensive care						

B1.B.ДВ.10.02	Dermatology						
B1.B.ДВ.10.03	Cardiology						
B1.B.ДВ.10.04	Endocrinology						
B1.B.ДВ.10.05	Nephrology						
B1.B.ДВ.11	Elective disciplines (modules) 11 (DV.11)						
B1.B.ДВ.11.01	Reconstructive and restorative surgery						
B1.B.ДВ.11.02	Veterinary ophthalmology						
B1.B.ДВ.11.03	Animal Dentistry						
B1.B.ДВ.12	Foreign language for special purposes				GC-4.1, GC-4.2, GC-4.5		
B1.B.ДВ.12.01	Foreign language for special purposes				GC-4.1, GC-4.2, GC-4.5		
B1.B.ДВ.12.02	Russian language for special purposes						
B1.B.ДВ.13	Foreign language. Translation of special texts				GC-4.4		
B1.B.ДВ.13.01	Foreign language. Translation of special texts				GC-4.4		
B1.B.ДВ.13.02	Russian language. Translation of special texts				GC-4.4		
B1.B.ДВ.14	Foreign language. Professional communications				GC-4.6, GC-4.7		
B1.B.ДВ.14.01	Foreign language. Professional communications				GC-4.6, GC-4.7		
B1.B.ДВ.14.02	Russian language. Professional communications				GC-4.6, GC-4.7		
BLOCK 2.	Practice						
	Mandatory part						
B2.O.01	Core component						
B2.O.01.01(Y)	Educational practice	GC-1.1, GC-1.2, GC-1.3, GC-1.4, GC-1.5			GC-4.6, GC-4.7		GC-6.1, GC-6.2, GC-6.3, GC-6.4, GC-6.5, GC-6.6, GC-6.7
B2.O.02	Variable component						
B2.O.02.01 (P)	Internship	GC-1.1,	GC-2.1, GC-	GC-3.1,	GC-4.1, GC-4.2, GC-4.3,	GC-5.1,	GC-6.1,

		GC-1.2, GC-1.3, GC-1.4, GC-1.5	2.2, GC-2.3, GC-2.4, GC-2.5	GC-3.2., GC-3.3, GC-3.4, GC-3.5., GC-3.6	GC-4.4, GC-4.5, GC-4.6, GC-4.7	GC-5.2, GC-5.3., GC-5.4, GC-5.5., GC-5.6	GC-6.2, GC-6.3, GC-6.4, GC-6.5, GC-6.6, GC-6.7
	Part formed by participants in educational relations						
B2.B.ДВ.01	Elective practices (modules) 1 (DV.1)						
B2.B.ДВ.01.01	Internship	GC-1.1, GC-1.2, GC-1.3, GC-1.4, GC-1.5	GC-2.1, GC-2.2, GC-2.3, GC-2.4, GC-2.5	GC-3.1, GC-3.2., GC-3.3, GC-3.4, GC-3.5., GC-3.6	GC-4.1, GC-4.2, GC-4.3, GC-4.4, GC-4.5, GC-4.6, GC-4.7	GC-5.1, GC-5.2, GC-5.3., GC-5.4, GC-5.5., GC-5.6	GC-6.1, GC-6.2, GC-6.3, GC-6.4, GC-6.5, GC-6.6, GC-6.7
B2.B.ДВ.01.02 (II)	Academic research practice with the preparation of a scientific qualification project	GC-1.1, GC-1.2, GC-1.3, GC-1.4, GC-1.5	GC-2.1, GC-2.2, GC-2.3, GC-2.4, GC-2.5	GC-3.1, GC-3.2., GC-3.3, GC-3.4, GC-3.5., GC-3.6	GC-4.1, GC-4.2, GC-4.3, GC-4.4, GC-4.5, GC-4.6, GC-4.7	GC-5.1, GC-5.2, GC-5.3., GC-5.4, GC-5.5., GC-5.6	GC-6.1, GC-6.2, GC-6.3, GC-6.4, GC-6.5, GC-6.6, GC-6.7
BLOCK 3	State final certification						
	Mandatory part						
B3.B.01	Preparation for passing and passing the state exam	GC-1.1, GC-1.2, GC-1.3, GC-1.4, GC-1.5	GC-2.1, GC-2.2, GC-2.3, GC-2.4, GC-2.5	GC-3.1, GC-3.2., GC-3.3, GC-3.4, GC-3.5., GC-3.6	GC-4.1, GC-4.2, GC-4.3, GC-4.4, GC-4.5, GC-4.6, GC-4.7	GC-5.1, GC-5.2, GC-5.3., GC-5.4, GC-5.5., GC-5.6	GC-6.1, GC-6.2, GC-6.3, GC-6.4, GC-6.5, GC-6.6, GC-6.7
OC.	Electives						
	Part formed by participants in educational relations						

OC.E.01	Russian language						
OC.E.02	Technologies and practice of programming in the Python language for the humanities						

Code	Courses/modules that form students' competences	GENERIC COMPETENCES					
		GC-7 The ability to maintain the proper level of physical fitness to ensure full-fledged social and professional activities.	GC-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.	GC-9 The ability to use basic defectological knowledge in social and professional areas.	GC-10 The ability to make informed economic decisions in various areas of life.	GC-11 The ability to form an intolerant attitude towards corrupt behavior.	GC-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 received from various sources in order to effectively use the information received to solve problems; evaluate information, its reliability, build logical conclusions based on incoming information and data.
Block 1.	Disciplines (modules)						
B1.0	Mandatory part						
B1.0.01	Core component						
B1.O.01.01	Animal anatomy						
B1.O.01.02	History						
B1.O.01.03	Latin language						
B1.O.01.04	Inorganic and Analytical Chemistry		GC-8.1, GC-8.2				
B1.O.01.05	Organic chemistry		GC-8.1, GC-8,2				

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

			GC-8.3				
B1.O.01.25	Clinical diagnostics						
B1.O.01.26	Pathological anatomy						
B1.O.01.27	Operative surgery with topographic anatomy						
B1.O.01.28	Instrumental diagnostic methods						
B1.O.01.29	Toxicology						
B1.O.01.30	Obstetrics, gynecology and andrology						
B1.O.01.31	Internal diseases						
B1.O.01.32	General surgery						
B1.O.01.33	Private Veterinary Surgery						
B1.O.01.34	Parasitology and invasive diseases						
B1.O.01.35	Epizootology and infectious diseases						
B1.O.01.36	Veterinary and sanitary examination						
B1.O.01.37	Organization of veterinary business						
B1.O.01.38	Forensic veterinary examination and autopsy of animals						
B1.O.01.39	Physical Culture	GC-7.1, GC-7.2, GC-7.3					
B1.O.02	Variable component						
B1.O.02.01	Maths						GC-12.2
B1.O.02.02	Russian language and culture of speech						
B1.O.02.03	Introduction to the specialty						
B1.O.02.04	Basics of Economics and Management				GC-10.1, GC-10.2, GC-10.3		
B1.O.02.05	Immunology						
B1.O.02.06	General and veterinary ecology		GC-8.1				

B1.O.02.07	Veterinary sanitary						
B1.O.02.08	Technology of livestock products processing						
B1.O.02.09	Veterinary deontology			GC-9.2, GC-9.3			
B1.O.02.10	Economics and organization of agricultural production				GC-10.1		
B1.O.ДВ.01	Foreign language						
B1.O.ДВ.01.01	Foreign language						
B1.O.ДВ.01.02	Russian as a foreign language						
	Part formed by participants in educational relations						
B1.B.ДВ.01	Elective disciplines (modules) 1 (DV.1)						
B1.B.ДВ.01.01	Interdisciplinary module						
B1.B.ДВ.02	Applied physical culture						
B1.B.ДВ.02.01	Applied physical education	GC-7.1, GC-7.2, GC-7.3					
B1.B.ДВ.03	Elective disciplines (modules) 3 (DV.3)						
B1.B.ДВ.03.01	Medicinal and poisonous plants						
B1.B.ДВ.03.02	Fodder plants						
B1.B.ДВ.03.03	Basics of professional ethics			GC-9.2, GC-9.3			
B1.B.ДВ.04	Elective disciplines (modules) 4 (DV.4)						
B1.B.ДВ.04.01	Zoopsychology						
B1.B.ДВ.04.02	Animal health						
B1.B.ДВ.04.03	Psychology of personality and professional self-determination						
B1.B.ДВ.05	Elective disciplines (modules) 5 (EC.5)						

B1.B.ДВ.05.01	Clinical laboratory diagnostics						
B1.B.ДВ.05.02	Laboratory diagnostics of infectious and parasitic diseases						
B1.B.ДВ.06	Elective disciplines (modules) 6 (DV.6)						
B1.B.ДВ.06.01	Organization of state veterinary supervision						
B1.B.ДВ.06.02	Veterinary and manufacturing laboratories with design basics						
B1.B.ДВ.07	Elective disciplines (modules) 7 (DV.7)						
B1.B.ДВ.07.01	Biometrics in veterinary medicine						GC-12.2
B1.B.ДВ.07.02	Career Management						
B1.B.ДВ.07.03	Basics of social and legal knowledge				GC-9.1, GC-9.2, GC-9.3		
B1.B.ДВ.07.04	Space technologies in the service of the agro-industrial complex						
B1.B.ДВ.08	Elective disciplines (modules) 8 (DV.8)						
B1.B.ДВ.08.01	Equine diseases						
B1.B.ДВ.08.02	Diseases of productive animals						
B1.B.ДВ.08.03	Communication workshop						
B1.B.ДВ.09	Elective disciplines (modules) 9 (DV.9)						
B1.B.ДВ.09.01	Diseases of pets						
B1.B.ДВ.09.02	Diseases of bees and entomophages						
B1.B.ДВ.09.03	Fish pathology and aquaculture						
B1.B.ДВ.09.04	Diseases of exotic animals						
B1.B.ДВ.10	Elective disciplines (modules) 10 (EC.10)						
B1.B.ДВ.10.01	Anesthesiology, resuscitation and						

	intensive care						
B1.B.ДВ.10.02	Dermatology						
B1.B.ДВ.10.03	Cardiology						
B1.B.ДВ.10.04	Endocrinology						
B1.B.ДВ.10.05	Nephrology						
B1.B.ДВ.11	Elective disciplines (modules) 11 (DV.11)						
B1.B.ДВ.11.01	Reconstructive and restorative surgery						
B1.B.ДВ.11.02	Veterinary ophthalmology						
B1.B.ДВ.11.03	Animal Dentistry						
B1.B.ДВ.12	Foreign language for special purposes						
B1.B.ДВ.12.01	Foreign language for special purposes						
B1.B.ДВ.12.02	Russian language for special purposes						
B1.B.ДВ.13	Foreign language. Translation of special texts						
B1.B.ДВ.13.01	Foreign language. Translation of special texts						
B1.B.ДВ.13.02	Russian language. Translation of special texts						
B1.B.ДВ.14	Foreign language. Professional communications						
B1.B.ДВ.14.01	Foreign language. Professional communications						
B1.B.ДВ.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
	Mandatory part						
B2.O.01	Core component						
B2.O.01.01(Y)	Educational practice		GC-8.1, GC-8.2				GC-12.1, GC-12.2

B2.O.02	Variable component						
B2.O.02.01 (P)	Internship	GC-7.1, GC-7.2, GC-7.3	GC-8.1, GC-8.2, GC-8.3, GC-8.4, GC-8.5, GC-8.6	GC-9.1, GC-9.2, GC-9.3	GC-10.1, GC-10.2, GC-10.3	GC-11.1, GC-11.2, GC-11.3	GC-12.1, GC-12.2
	Part formed by participants in educational relations						
B2.B.ДВ.01	Elective practices (modules) 1 (DV.1)						
B2.B.ДВ.01.01	Internship	GC-7.1, GC-7.2, GC-7.3	GC-8.1, GC-8.2, GC-8.3, GC-8.4, GC-8.5, GC-8.6	GC-9.1, GC-9.2, GC-9.3	GC-10.1, GC-10.2, GC-10.3	GC-11.1, GC-11.2, GC-11.3	GC-12.1, GC-12.2
B2.B.ДВ.01.02(П)	Academic research practice with the preparation of a scientific qualification project	GC-7.1, GC-7.2, GC-7.3	GC-8.1, GC-8.2, GC-8.3, GC-8.4, GC-8.5, GC-8.6	GC-9.1, GC-9.2, GC-9.3	GC-10.1, GC-10.2, GC-10.3	GC-11.1, GC-11.2, GC-11.3	GC-12.1, GC-12.2
BLOCK 3	State final certification						
	Mandatory part						
B3.B.01	Preparation for passing and passing the state exam	GC-7.1, GC-7.2, GC-7.3	GC-8.1, GC-8.2, GC-8.3, GC-8.4, GC-8.5, GC-8.6	GC-9.1, GC-9.2, GC-9.3	GC-10.1, GC-10.2, GC-10.3	GC-11.1, GC-11.2, GC-11.3	GC-12.1, GC-12.2
OC.	Electives						
	Part formed by participants in educational relations						
OC.E.01	Russian language						

OC.E.02	Technologies and practice of programming in the Python language for the humanities						
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Code	Courses/modules that form students' competences	GENERAL PROFESSIONAL COMPETENCES						
		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.O	Mandatory part							
B1.O.01	Core component							
B1.O.01.01	Animal anatomy	GPC-1.1						
B1.O.01.02	History							
B1.O.01.03	Latin language					GPC-5.2		

B1.O.01.04	Inorganic and Analytical Chemistry				GPC-4.1, GPC-4.3, GPC-4.4			
B1.O.01.05	Organic chemistry				GPC-4.1, GPC-4.3, GPC-4.4			
B1.O.01.05	Law science			GPC-3.1, GPC-3.2, GPC-3.3				
B1.O.01.07	Biology with the basics of ecology		GPC-2.1					
B1.O.01.08	Veterinary genetics		GPC-2.1				GPC-6.1., GPC 6.2	
B1.O.01.09	Biological physics				GPC-4.1, GPC-4.3, GPC-4.4			
B1.O.01.10	Computer science							GPC-7.1
B1.O.01.11	Physical and colloidal chemistry				GPC-4.1, GPC-4.3, GPC-4.4			
B1.O.01.12	Philosophy							
B1.O.01.13	Cytology, histology and embryology							
B1.O.01.14	Life safety							
B1.O.01.15	Biological chemistry				GPC-4.1, GPC-4.3, GPC-4.4			
B1.O.01.16	Veterinary microbiology and mycology							
B1.O.01.17	Virology and Biotechnology							
B1.O.01.18	Physiology and ethology of animals	GPC-1.1						
B1.O.01.19	Breeding with the basics of private zootechnics		GPC-2.1				GPC-6.1., GPC 6.2	
B1.O.01.20	Animal health and welfare		GPC-2.1,				GPC-	

			GPC-2.2, GPC-2.3				6.1., GPC 6.2	
B1.O.01.21	Feeding animals with the basics of feed production		GPC-2.1, GPC-2.2, GPC-2.3					
B1.O.01.22	Pathological physiology	GPC-1.2					GPC-6.1	
B1.O.01.23	Veterinary pharmacology							
B1.O.01.24	Veterinary radiobiology							
B1.O.01.25	Clinical diagnostics	GPC-1.3, GPC-1.4						
B1.O.01.26	Pathological anatomy							
B1.O.01.27	Operative surgery with topographic anatomy	GPC-1.4						
B1.O.01.28	Instrumental diagnostic methods							GPC-7.3
B1.O.01.29	Toxicology							
B1.O.01.30	Obstetrics, gynecology and andrology							
B1.O.01.31	Internal diseases							
B1.O.01.32	General surgery							
B1.O.01.33	Private Veterinary Surgery							
B1.O.01.34	Parasitology and invasive diseases							
B1.O.01.35	Epizootology and infectious diseases						GPC-6.1., GPC 6.2	
B1.O.01.36	Veterinary and sanitary examination						GPC-6.3	
B1.O.01.37	Organization of veterinary business			GPC-3.1, GPC-3.2, GPC-3.3		GPC-5.1, GPC-5.2, GPC-5.3		
B1.O.01.38	Forensic veterinary examination and autopsy of animals							

B1.O.01.39	Physical Culture							
B1.O.02	Variable component							
B1.O.02.01	Maths				GPC-4.1, GPC-4.2			
B1.O.02.02	Russian language and culture of speech							
B1.O.02.03	Introduction to the specialty							
B1.O.02.04	Basics of Economics and Management							
B1.O.02.05	Immunology				GPC-4.1, GPC-4.3, GPC-4.4			
B1.O.02.06	General and veterinary ecology		GPC-2.1					
B1.O.02.07	Veterinary sanitary							
B1.O.02.08	Technology of livestock products processing						GPC-6.3	
B1.O.02.09	Veterinary deontology							
B1.O.02.10	Economics and organization of agricultural production							
B1.O.ДВ.01	Foreign language							
B1.O.ДВ.01.01	Foreign language							
B1.O.ДВ.01.02	Russian as a foreign language							
	Part formed by participants in educational relations							
B1.B.ДВ.01	Elective disciplines (modules) 1 (DV.1)							
B1.B.ДВ.01.01	Interdisciplinary module							
B1.B.ДВ.02	Applied physical culture							
B1.B.ДВ.02.01	Applied physical education							
B1.B.ДВ.03	Elective disciplines (modules) 3 (DV.3)							
B1.B.ДВ.03.01	Medicinal and poisonous plants							
B1.B.ДВ.03.02	Fodder plants							
B1.B.ДВ.03.03	Basics of professional ethics							
B1.B.ДВ.04	Elective disciplines							

	(modules) 4 (DV.4)							
B1.B.ДВ.04.01	Zoopsychology							
B1.B.ДВ.04.02	Animal health		GPC-2.1, GPC-2.2, GPC-2.3				GPC-6.1., GPC 6.2	
B1.B.ДВ.04.03	Psychology of personality and professional self-determination							
B1.B.ДВ.05	Elective disciplines (modules) 5 (EC.5)							
B1.B.ДВ.05.01	Clinical laboratory diagnostics	GPC-1.3, GPC-1.4						
B1.B.ДВ.05.02	Laboratory diagnostics of infectious and parasitic diseases	GPC-1.3, GPC-1.4						
B1.B.ДВ.06	Elective disciplines (modules) 6 (DV.6)							
B1.B.ДВ.06.01	Organization of state veterinary supervision							GPC-7.4 GPC-7.5)
B1.B.ДВ.06.02	Veterinary and manufacturing laboratories with design basics				GPC-4.1, GPC-4.2			
B1.B.ДВ.07	Elective disciplines (modules) 7 (DV.7)							
B1.B.ДВ.07.01	Biometrics in veterinary medicine					GPC-5.2, GPC-5.3		GPC-7.2
B1.B.ДВ.07.02	Career Management							
B1.B.ДВ.07.03	Basics of social and legal knowledge							
B1.B.ДВ.07.04	Space technologies in the service of the agro-industrial complex		GPC-2.2					
B1.B.ДВ.08	Elective disciplines (modules) 8 (DV.8)							
B1.B.ДВ.08.01	Equine diseases							
B1.B.ДВ.08.02	Diseases of productive animals							
B1.B.ДВ.08.03	Communication workshop							

B1.B.ДВ.09	Elective disciplines (modules) 9 (DV.9)							
B1.B.ДВ.09.01	Diseases of pets							
B1.B.ДВ.09.02	Diseases of bees and entomophages							
B1.B.ДВ.09.03	Fish pathology and aquaculture							
B1.B.ДВ.09.04	Diseases of exotic animals							
B1.B.ДВ.10	Elective disciplines (modules) 10 (EC.10)							
B1.B.ДВ.10.01	Anesthesiology, resuscitation and intensive care							
B1.B.ДВ.10.02	Dermatology							
B1.B.ДВ.10.03	Cardiology							
B1.B.ДВ.10.04	Endocrinology							
B1.B.ДВ.10.05	Nephrology							
B1.B.ДВ.11	Elective disciplines (modules) 11 (DV.11)							
B1.B.ДВ.11.01	Reconstructive and restorative surgery							
B1.B.ДВ.11.02	Veterinary ophthalmology							
B1.B.ДВ.11.03	Animal Dentistry							
B1.B.ДВ.12	Foreign language for special purposes							
B1.B.ДВ.12.01	Foreign language for special purposes							
B1.B.ДВ.12.02	Russian language for special purposes							
B1.B.ДВ.13	Foreign language. Translation of special texts							
B1.B.ДВ.13.01	Foreign language. Translation of special texts							
B1.B.ДВ.13.02	Russian language. Translation of special texts							
B1.B.ДВ.14	Foreign language. Professional communications							
B1.B.ДВ.14.01	Foreign language. Professional communications							

B1.B.ДВ.14.02	Russian language. Professional communications							
BLOCK 2.	Practice							
	Mandatory part							
B2.O.01	Core component							
B2.O.01.01(Y)	Educational practice	GPC-1.1, GPC-1.2, GPC-1.3, GPC-1.4	GPC-2.1, GPC-2.2, GPC-2.3					
B2.O.02	Variable component							
B2.O.02.01 (P)	Internship	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
	Part formed by participants in educational relations							
B2.B.ДВ.01	Elective practices (modules) 1 (DV.1)							
B2.B.ДВ.01.01	Internship	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.B.ДВ.01.02(П)	Academic research practice with the preparation of a scientific qualification project	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
BLOCK 3	State final certification							
	Mandatory part							
B3.B.01	Preparation for passing and passing the state exam	GPC-1.1, GPC-1.2, GPC-1.3,	GPC-2.1, GPC-2.2, GPC-2.3	GPC-3.1, GPC-	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	GPC-7.1 GPC-7.2, GPC-7.3,

		GPC-1.4		3.2, GPC-3.3			6.2, GPC- 6.3	GPC-7.4, GPC-7.5
OC.	Electives							
	Part formed by participants in educational relations							
OC.E.01	Russian language							
OC.E.02	Technologies and practice of programming in the Python language for the humanities							

Code	Courses/modules that form students' competences	PROFESSIONAL COMPETENCES					
		PC-1. The ability to collect an anamnesis of the life and health of an animal for further diagnosis and planning of therapeutic and preventive measures.	PC-2. The ability to conduct a complete primary clinical examination of the animal to establish a preliminary clinical diagnosis (diagnoses) and repeated examinations to monitor the patient's condition.	PC-3. The ability to plan measures for the differential diagnosis of diseases in a patient.	PC-4. The ability to carry out the necessary laboratory diagnostics as part of preventive or diagnostic measures.	PC-5. Ability and willingness to plan and conduct the necessary types of instrumental diagnostics of the patient's condition	PC-6. The ability, based on data from clinical, laboratory and instrumental diagnostics, as well as additional diagnostic methods, to make a diagnosis and predict the course and spread of the disease.
Block 1.	Disciplines (modules)						
B1.0	Mandatory part						
B1.0.01	Core component						
B1.O.01.01	Animal anatomy					PC-5.4	
B1.O.01.02	History						
B1.O.01.03	Latin language						
B1.O.01.04	Inorganic and Analytical Chemistry						

B1.O.01.05	Organic chemistry						
B1.O.01.05	Law science						
B1.O.01.07	Biology with the basics of ecology				PC-4.2., PC-4.4		
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						
B1.O.01.13	Cytology, histology and embryology				PC-4.2., PC-4.4.		
B1.O.01.14	Life safety						
B1.O.01.15	Biological chemistry						
B1.O.01.16	Veterinary microbiology and mycology						
B1.O.01.17	Virology and Biotechnology						
B1.O.01.18	Physiology and ethology of animals						
B1.O.01.19	Breeding with the basics of private zootechnics						
B1.O.01.20	Animal health and welfare						
B1.O.01.21	Feeding animals with the basics of feed production						
B1.O.01.22	Pathological physiology						
B1.O.01.23	Veterinary pharmacology						
B1.O.01.24	Veterinary radiobiology						

B1.O.01.25	Clinical diagnostics	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				
B1.O.01.26	Pathological anatomy						PC-6.1
B1.O.01.27	Operative surgery with topographic anatomy						
B1.O.01.28	Instrumental diagnostic methods					PC-5.1, PC- 5.2, PC-5.3, PC-5.4	
B1.O.01.29	Toxicology						
B1.O.01.30	Obstetrics, gynecology and andrology			PC-3.1, PC- 3.2, PC-3.3			PC-6.1, PC-6.2, PC-6.3, PC-6.4
B1.O.01.31	Internal diseases			PC-3.1, PC- 3.2, PC-3.3			PC-6.1, PC-6.2, PC-6.3, PC-6.4
B1.O.01.32	General surgery			PC-3.1, PC- 3.2, PC-3.3			PC-6.1, PC-6.2, PC-6.3, PC-6.4
B1.O.01.33	Private Veterinary Surgery			PC-3.1, PC- 3.2, PC-3.3			PC-6.1, PC-6.2, PC-6.3, PC-6.4
B1.O.01.34	Parasitology and invasive diseases			PC-3.1, PC- 3.2, PC-3.3			PC-6.1, PC-6.2, PC-6.3, PC-6.4
B1.O.01.35	Epizootology and infectious diseases						PC-6.1, PC-6.2, PC-6.3, PC-6.4
B1.O.01.36	Veterinary and sanitary examination						
B1.O.01.37	Organization of veterinary business						
B1.O.01.38	Forensic veterinary examination and autopsy of animals						
B1.O.01.39	Physical Culture						
B1.O.02	Variable component						
B1.O.02.01	Maths						
B1.O.02.02	Russian language and culture of speech						
B1.O.02.03	Introduction to the specialty						

B1.O.02.04	Basics of Economics and Management						
B1.O.02.05	Immunology						
B1.O.02.06	General and veterinary ecology						
B1.O.02.07	Veterinary sanitary						
B1.O.02.08	Technology of livestock products processing						
B1.O.02.09	Veterinary deontology						
B1.O.02.10	Economics and organization of agricultural production						
B1.O.ДВ.01	Foreign language						
B1.O.ДВ.01.01	Foreign language 1						
B1.O.ДВ.01.02	Russian as a foreign language 2						
	Part formed by participants in educational relations						
B1.B.ДВ.01	Elective disciplines (modules) 1 (DV.1)						
B1.B.ДВ.01.01	Interdisciplinary module						
B1.B.ДВ.02	Applied physical culture						
B1.B.ДВ.02.01	Applied physical education						
B1.B.ДВ.03	Elective disciplines (modules) 3 (DV.3)						
B1.B.ДВ.03.01	Medicinal and poisonous plants						
B1.B.ДВ.03.02	Fodder plants						
B1.B.ДВ.03.03	Basics of professional ethics						
B1.B.ДВ.04	Elective disciplines (modules) 4 (DV.4)						
B1.B.ДВ.04.01	Zoopsychology						
B1.B.ДВ.04.02	Animal health						
B1.B.ДВ.04.03	Psychology of personality and						

	professional self-determination						
B 1.B.ДВ.05	Elective disciplines (modules) 5 (EC.5)						
B 1.B.ДВ.05.01	Clinical laboratory diagnostics				PC-4.1, PC-4.2, PC-4.3, PC-4.4		
B 1.B.ДВ.05.02	Laboratory diagnostics of infectious and parasitic diseases				PC-4.1, PC-4.2, PC-4.3, PC-4.4		
B 1.B.ДВ.06	Elective disciplines (modules) 6 (DV.6)						
B 1.B.ДВ.06.01	Organization of state veterinary supervision						
B 1.B.ДВ.06.02	Veterinary and manufacturing laboratories with design basics						
B 1.B.ДВ.07	Elective disciplines (modules) 7 (DV.7)						
B 1.B.ДВ.07.01	Biometrics in veterinary medicine						
B 1.B.ДВ.07.02	Career Management						
B 1.B.ДВ.07.03	Basics of social and legal knowledge						
B 1.B.ДВ.07.04	Space technologies in the service of the agro-industrial complex						
B 1.B.ДВ.08	Elective disciplines (modules) 8 (DV.8)						
B 1.B.ДВ.08.01	Equine diseases	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				
B 1.B.ДВ.08.02	Diseases of productive animals	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				
B 1.B.ДВ.08.03	Communication workshop						
B 1.B.ДВ.09	Elective disciplines (modules) 9 (DV.9)						
B 1.B.ДВ.09.01	Diseases of pets	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				
B 1.B.ДВ.09.02	Diseases of bees and entomophages	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				
B 1.B.ДВ.09.03	Fish pathology and aquaculture	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				

B 1.В.ДВ.09.04	Diseases of exotic animals	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3				
B 1.В.ДВ.10	Elective disciplines (modules) 10 (EC.10)						
B 1.В.ДВ.10.01	Anesthesiology, resuscitation and intensive care			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.10.02	Dermatology			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.10.03	Cardiology			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.10.04	Endocrinology			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.10.05	Nephrology			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.11	Elective disciplines (modules) 11 (DV.11)						
B 1.В.ДВ.11.01	Reconstructive and restorative surgery			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.11.02	Veterinary ophthalmology			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.11.03	Animal Dentistry			PC-3.1, PC-3.2, PC-3.3		PC-5.2, PC-5.3, PC-5.4	
B 1.В.ДВ.12	Foreign language for special purposes						
B 1.В.ДВ.12.01	Foreign language for special purposes						
B 1.В.ДВ.12.02	Russian language for special purposes						
B 1.В.ДВ.13	Foreign language. Translation of special texts						
B 1.В.ДВ.13.01	Foreign language. Translation of special texts						
B 1.В.ДВ.13.02	Russian language. Translation of special texts						

B1.B.ДВ.14	Foreign language. Professional communications						
B1.B.ДВ.14.01	Foreign language. Professional communications						
B1.B.ДВ.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
	Mandatory part						
B2.O.01	Core component						
B2.O.01.01(Y)	Educational practice	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3, PC-2.4				
B2.O.02	Variable component						
B2.O.02.01 (P)	Internship	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3, PC-2.4	PC-3.1, PC-3.2, PC-3.3	PC-4.1, PC-4.2, PC-4.3, PC-4.4	PC-5.1, PC-5.2, PC-5.3, PC-5.4	PC-6.1, PC-6.2, PC-6.3, PC-6.4
	Part formed by participants in educational relations						
B2.B.ДВ.01	Elective practices (modules) 1 (DV.1)						
B2.B.ДВ.01.01	Internship	PC-1.1, PC-1.2, PC-1.3	PC-2.1, PC-2.2, PC-2.3, PC-2.4	PC-3.1, PC-3.2, PC-3.3	PC-4.1, PC-4.2, PC-4.3, PC-4.4	PC-5.1, PC-5.2, PC-5.3, PC-5.4	PC-6.1, PC-6.2, PC-6.3, PC-6.4
B2.B.ДВ.01.02 (II)	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-2.3, PC-2.4	PC-3.1, PC-3.2, PC-3.3	PC-4.1, PC-4.2, PC-4.3, PC-4.4	PC-5.1, PC-5.2, PC-5.3, PC-5.4	PC-6.1, PC-6.2, PC-6.3, PC-6.4
BLOCK 3	State final certification						
	Mandatory part						
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-2.3, PC-2.4	PC-3.1, PC-3.2, PC-3.3	PC-4.1, PC-4.2, PC-4.3, PC-4.4	PC-5.1, PC-5.2, PC-5.3, PC-5.4	PC-6.1, PC-6.2, PC-6.3, PC-6.4
OC.	Electives						
	Part formed by participants in						

	educational relations						
OC.E.01	Russian language						
OC.E.02	Technologies and practice of programming in the Python language for the humanities						

Code	Courses/modules that form students' competences	PROFESSIONAL COMPETENCIES					
		PC-7. Ability to choose or develop a treatment plan for the patient based on the diagnosis	PC-8. Coordinates the treatment plan with the owner of the animal and other participants in the treatment process, if necessary, corrects it during the treatment process and coordinates the changes with the owner of the animal.	PC-9. Ability to use methods of operative surgery in the course of prevention, diagnosis and treatment of animal diseases.	PC-10. The ability to analyze and adjust the feeding of animals to improve the effectiveness of the treatment process, prescribe therapeutic diets.	PC-11. 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, incl. a plan for preventive immunizations (vaccinations) and therapeutic and prophylactic treatments.	PC-12. The ability to organize and conduct medical examinations in animals, both general and specialized.
Block 1.	Disciplines (modules)						
B1.O	Mandatory part						
B1.O.01	Core component						
B1.O.01.01	Animal anatomy						
B1.O.01.02	History						
B1.O.01.03	Latin language						
B1.O.01.04	Inorganic and Analytical Chemistry						
B1.O.01.05	Organic chemistry						
B1.O.01.05	Law science						
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						
B1.O.01.13	Cytology, histology and embryology						
B1.O.01.14	Life safety						
B1.O.01.15	Biological chemistry						
B1.O.01.16	Veterinary microbiology and mycology						
B1.O.01.17	Virology and Biotechnology						
B1.O.01.18	Physiology and ethology of animals						
B1.O.01.19	Breeding with the basics of private zootechnics						
B1.O.01.20	Animal health and welfare						
B1.O.01.21	Feeding animals with the basics of feed production				PC-10.1, PC-10.2, PC-10.3, PC-10.4		
B1.O.01.22	Pathological physiology						
B1.O.01.23	Veterinary pharmacology	PC-7.1, PC-7.2					
B1.O.01.24	Veterinary radiobiology						
B1.O.01.25	Clinical diagnostics						
B1.O.01.26	Pathological anatomy						
B1.O.01.27	Operative surgery with topographic anatomy						
B1.O.01.28	Instrumental diagnostic methods						
B1.O.01.29	Toxicology	PC-7.1, PC-7.2					

B1.O.01.30	Obstetrics, gynecology and andrology						PC-12.1, PC-12.2, PC-12.3
B1.O.01.31	Internal diseases						PC-12.1, PC-12.2, PC-12.3
B1.O.01.32	General surgery					PC-9.1, PC-9.2, PC-9.3, PC-9.4	PC-12.1, PC-12.2, PC-12.3
B1.O.01.33	Private Veterinary Surgery					PC-9.1	PC-12.1, PC-12.2, PC-12.3
B1.O.01.34	Parasitology and invasive diseases						PC-12.1, PC-12.2, PC-12.3
B1.O.01.35	Epizootology and infectious diseases						PC-11.1, PC-11.2, PC-11.3, PC-11.4, PC-11.5
B1.O.01.36	Veterinary and sanitary examination						
B1.O.01.37	Organization of veterinary business						PC-11.1, PC-11.2, PC-11.3, PC-11.4, PC-11.5

B1.O.01.38	Forensic veterinary examination and autopsy of animals						
B1.O.01.39	Physical Culture						
B1.O.02	Variable component						
B1.O.02.01	Maths						
B1.O.02.02	Russian language and culture of speech						
B1.O.02.03	Introduction to the specialty						
B1.O.02.04	Basics of Economics and Management						
B1.O.02.05	Immunology						
B1.O.02.06	General and veterinary ecology						
B1.O.02.07	Veterinary sanitary					PC-11.2, PC-11.4, PC-11.5	
B1.O.02.08	Technology of livestock products processing						
B1.O.02.09	Veterinary deontology		PC-8.1, PC-8.2, PC-8.3				
B1.O.02.10	Economics and organization of agricultural production						
B1.O.ДВ.01	Foreign language						
B1.O.ДВ.01.01	Foreign language 1						
B1.O.ДВ.01.02	Russian as a foreign language 2						
	Part formed by participants in educational relations						
B1.B.ДВ.01	Elective disciplines (modules) 1 (DV.1)						
B1.B.ДВ.01.01	Interdisciplinary module						
B1.B.ДВ.02	Applied physical culture						
B1.B.ДВ.02.01	Applied physical education						

B 1.Б.ДВ.03	Elective disciplines (modules) 3 (DV.3)						
B 1.Б.ДВ.03.01	Medicinal and poisonous plants				PC-10.1		
B 1.Б.ДВ.03.02	Fodder plants				PC-10.1		
B 1.Б.ДВ.03.03	Basics of professional ethics						
B 1.Б.ДВ.04	Elective disciplines (modules) 4 (DV.4)						
B 1.Б.ДВ.04.01	Zoopsychology						
B 1.Б.ДВ.04.02	Animal health						
B 1.Б.ДВ.04.03	Psychology of personality and professional self-determination						
B 1.Б.ДВ.05	Elective disciplines (modules) 5 (EC.5)						
B 1.Б.ДВ.05.01	Clinical laboratory diagnostics						
B 1.Б.ДВ.05.02	Laboratory diagnostics of infectious and parasitic diseases						
B 1.Б.ДВ.06	Elective disciplines (modules) 6 (DV.6)						
B 1.Б.ДВ.06.01	Organization of state veterinary supervision					PC-11.5	
B 1.Б.ДВ.06.02	Veterinary and manufacturing laboratories with design basics						
B 1.Б.ДВ.07	Elective disciplines (modules) 7 (DV.7)						
B 1.Б.ДВ.07.01	Biometrics in veterinary medicine						
B 1.Б.ДВ.07.02	Career Management						
B 1.Б.ДВ.07.03	Basics of social and legal knowledge						
B 1.Б.ДВ.07.04	Space technologies in the service of the agro-industrial complex						
B 1.Б.ДВ.08	Elective disciplines (modules) 8 (DV.8)						
B 1.Б.ДВ.08.01	Equine diseases				PC-10.1,		

					PC-10.2, PC-10.3, PC-10.4		
B1.B.ДВ.08.02	Diseases of productive animals				PC-10.1, PC-10.2, PC-10.3		
B1.B.ДВ.08.03	Communication workshop						
B1.B.ДВ.09	Elective disciplines (modules) 9 (DV.9)						
B1.B.ДВ.09.01	Diseases of pets				PC-10.1, PC-10.2, PC-10.3		
B1.B.ДВ.09.02	Diseases of bees and entomophages				PC-10.1, PC-10.2, PC-10.3		
B1.B.ДВ.09.03	Fish pathology and aquaculture				PC-10.1, PC-10.2, PC-10.3		
B1.B.ДВ.09.04	Diseases of exotic animals				PC-10.1, PC-10.2, PC-10.3		
B1.B.ДВ.10	Elective disciplines (modules) 10 (EC.10)						
B1.B.ДВ.10.01	Anesthesiology, resuscitation and intensive care			PC-9.1			
B1.B.ДВ.10.02	Dermatology	PC-7.1, PC-7.2, PC-7.3, PC-7.4					
B1.B.ДВ.10.03	Cardiology	PC-7.1, PC-7.2, PC-7.3, PC-7.4					

B 1.Б.ДВ.10.04	Endocrinology	PC-7.1, PC-7.2, PC-7.3, PC-7.4					
B 1.Б.ДВ.10.05	Nephrology	PC-7.1, PC-7.2, PC-7.3, PC-7.4					
B 1.Б.ДВ.11	Elective disciplines (modules) 11 (DV.11)						
B 1.Б.ДВ.11.01	Reconstructive and restorative surgery			PC-9.1			
B 1.Б.ДВ.11.02	Veterinary ophthalmology			PC-9.1			
B 1.Б.ДВ.11.03	Animal Dentistry			PC-9.1			
B 1.Б.ДВ.12	Foreign language for special purposes						
B 1.Б.ДВ.12.01	Foreign language for special purposes						
B 1.Б.ДВ.12.02	Russian language for special purposes						
B 1.Б.ДВ.13	Foreign language. Translation of special texts						
B 1.Б.ДВ.13.01	Foreign language. Translation of special texts						
B 1.Б.ДВ.13.02	Russian language. Translation of special texts						
B 1.Б.ДВ.14	Foreign language. Professional communications						
B 1.Б.ДВ.14.01	Foreign language. Professional communications						
B 1.Б.ДВ.14.02	Russian language. Professional communications						
BLOCK 2.	Practice						
	Mandatory part						
B2.O.01	Core component						
B2.O.01.01(Y)	Educational practice						

B2.O.02	Variable component						
B2.O.02.01 (P)	Internship	PC-7.1, PC-7.2, PC-7.3, PC-7.4	PC-8.1, PC-8.2, PC-8.3	PC-9.1, PC-9.2, PC-9.3, PC-9.4	PC-10.1, PC-10.2, PC-10.3, PC-10.4	PC-11.1, PC-11.2, PC-11.3, PC-11.4, PC-11.5	PC-12.1, PC-12.2, PC-12.3
	Part formed by participants in educational relations						
B2.B.ДВ.01	Elective practices (modules) 1 (DV.1)						
B2.B.ДВ.01.01	Internship	PC-7.1, PC-7.2, PC-7.3, PC-7.4	PC-8.1, PC-8.2, PC-8.3	PC-9.1, PC-9.2, PC-9.3, PC-9.4	PC-10.1, PC-10.2, PC-10.3, PC-10.4	PC-11.1, PC-11.2, PC-11.3, PC-11.4, PC-11.5	PC-12.1, PC-12.2, PC-12.3
B2.B.ДВ.01.02 (II)	Academic research practice with the preparation of a scientific qualification project	PC-7.1, PC-7.2, PC-7.3, PC-7.4	PC-8.1, PC-8.2, PC-8.3	PC-9.1, PC-9.2, PC-9.3, PC-9.4	PC-10.1, PC-10.2, PC-10.3, PC-10.4	PC-11.1, PC-11.2, PC-11.3, PC-11.4, PC-11.5	PC-12.1, PC-12.2, PC-12.3
BLOCK 3	State final certification						
	Mandatory part						
B3.B.01	Preparation for passing and passing the state exam	PC-7.1, PC-7.2, PC-7.3, PC-7.4	PC-8.1, PC-8.2, PC-8.3	PC-9.1, PC-9.2, PC-9.3, PC-9.4	PC-10.1, PC-10.2, PC-10.3, PC-10.4	PC-11.1, PC-11.2, PC-11.3, PC-11.4, PC-11.5	PC-12.1, PC-12.2, PC-12.3
OC.	Electives						
	Part formed by participants in educational relations						
OC.E.01	Russian language						
OC.E.02	Technologies and practice of						

	programming in the Python language for the humanities						

Code	Courses/modules that form students' competences	PROFESSIONAL COMPETENCIES	
		PC-13. The ability to perform a post-mortem diagnostic study of animals in order to establish pathological processes, diseases, causes of death.	PC-14. Willingness to promote veterinary knowledge, including in the field of animal disease prevention.
Block 1.	Disciplines (modules)		
B1.O	Mandatory part		
B1.O.01	Core component		
B1.O.01.01	Animal anatomy		
B1.O.01.02	History		
B1.O.01.03	Latin language		

B1.O.01.04	Inorganic and Analytical Chemistry		
B1.O.01.05	Organic chemistry		
B1.O.01.05	Law science		
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		
B1.O.01.13	Cytology, histology and embryology		
B1.O.01.14	Life safety		
B1.O.01.15	Biological chemistry		
B1.O.01.16	Veterinary microbiology and mycology		
B1.O.01.17	Virology and Biotechnology		
B1.O.01.18	Physiology and ethology of animals		
B1.O.01.19	Breeding with the basics of private zootechnics		
B1.O.01.20	Animal health and welfare		PC-14.1, PC-14.2, PC-14.3
B1.O.01.21	Feeding animals with the basics of feed production		
B1.O.01.22	Pathological physiology		
B1.O.01.23	Veterinary pharmacology		
B1.O.01.24	Veterinary radiobiology		
B1.O.01.25	Clinical diagnostics		
B1.O.01.26	Pathological anatomy	PC-13.1, PC-13.2, PC-13.3, PC-13.4	

B1.O.01.27	Operative surgery with topographic anatomy		
B1.O.01.28	Instrumental diagnostic methods		
B1.O.01.29	Toxicology		
B1.O.01.30	Obstetrics, gynecology and andrology		
B1.O.01.31	Internal diseases		
B1.O.01.32	General surgery		
B1.O.01.33	Private Veterinary Surgery		
B1.O.01.34	Parasitology and invasive diseases		
B1.O.01.35	Epizootology and infectious diseases		
B1.O.01.36	Veterinary and sanitary examination		
B1.O.01.37	Organization of veterinary business		
B1.O.01.38	Forensic veterinary examination and autopsy of animals	PC-13.3, PC-13.4	
B1.O.01.39	Physical Culture		
B1.O.02	Variable component		
B1.O.02.01	Maths		
B1.O.02.02	Russian language and culture of speech		
B1.O.02.03	Introduction to the specialty		
B1.O.02.04	Basics of Economics and Management		
B1.O.02.05	Immunology		
B1.O.02.06	General and veterinary ecology		
B1.O.02.07	Veterinary sanitary		
B1.O.02.08	Technology of livestock products processing		
B1.O.02.09	Veterinary deontology		PC-14.1
B1.O.02.10	Economics and organization of agricultural production		
B1.O.ДВ.01	Foreign language		
B1.O.ДВ.01.01	Foreign language		
B1.O.ДВ.01.0	Russian as a foreign language		

2			
	Part formed by participants in educational relations		
B 1.B.ДВ.01	Elective disciplines (modules) 1 (DV.1)		
B 1.B.ДВ.01.01	Interdisciplinary module		
B 1.B.ДВ.02	Applied physical culture		
B 1.B.ДВ.02.01	Applied physical education		
B 1.B.ДВ.03	Elective disciplines (modules) 3 (DV.3)		
B 1.B.ДВ.03.01	Medicinal and poisonous plants		
B 1.B.ДВ.03.02	Fodder plants		
B 1.B.ДВ.03.03	Basics of professional ethics		
B 1.B.ДВ.04	Elective disciplines (modules) 4 (DV.4)		
B 1.B.ДВ.04.01	Zoopsychology		PC-14.1
B 1.B.ДВ.04.02	Animal health		
B 1.B.ДВ.04.03	Psychology of personality and professional self-determination		
B 1.B.ДВ.05	Elective disciplines (modules) 5 (EC.5)		
B 1.B.ДВ.05.01	Clinical laboratory diagnostics		
B 1.B.ДВ.05.02	Laboratory diagnostics of infectious and parasitic diseases		
B 1.B.ДВ.06	Elective disciplines (modules) 6 (DV.6)		
B 1.B.ДВ.06.01	Organization of state veterinary supervision		
B 1.B.ДВ.06.02	Veterinary and manufacturing laboratories with design basics		
B 1.B.ДВ.07	Elective disciplines (modules) 7 (DV.7)		
B 1.B.ДВ.07.01	Biometrics in veterinary medicine		
B 1.B.ДВ.07.02	Career Management		
B 1.B.ДВ.07.03	Basics of social and legal knowledge		

B 1.B.ДB.07.04	Space technologies in the service of the agro-industrial complex		
B 1.B.ДB.08	Elective disciplines (modules) 8 (DV.8)		
B 1.B.ДB.08.01	Equine diseases		
B 1.B.ДB.08.02	Diseases of productive animals		
B 1.B.ДB.08.03	Communication workshop		
B 1.B.ДB.09	Elective disciplines (modules) 9 (DV.9)		
B 1.B.ДB.09.01	Diseases of pets		
B 1.B.ДB.09.02	Diseases of bees and entomophages		
B 1.B.ДB.09.03	Fish pathology and aquaculture		
B 1.B.ДB.09.04	Diseases of exotic animals		
B 1.B.ДB.10	Elective disciplines (modules) 10 (EC.10)		
B 1.B.ДB.10.01	Anesthesiology, resuscitation and intensive care		
B 1.B.ДB.10.02	Dermatology		
B 1.B.ДB.10.03	Cardiology		
B 1.B.ДB.10.04	Endocrinology		
B 1.B.ДB.10.05	Nephrology		
B 1.B.ДB.11	Elective disciplines (modules) 11 (DV.11)		
B 1.B.ДB.11.01	Reconstructive and restorative surgery		
B 1.B.ДB.11.02	Veterinary ophthalmology		
B 1.B.ДB.11.03	Animal Dentistry		
B 1.B.ДB.12	Foreign language for special purposes		
B 1.B.ДB.12.01	Foreign language for special purposes		
B 1.B.ДB.12.02	Russian language for special purposes		
B 1.B.ДB.13	Foreign language. Translation of special texts		
B 1.B.ДB.13.01	Foreign language. Translation of special texts		
B 1.B.ДB.13.02	Russian language. Translation of		

	special texts		
B1.B.ДВ.14	Foreign language. Professional communications		
B1.B.ДВ.14.01	Foreign language. Professional communications		
B1.B.ДВ.14.02	Russian language. Professional communications		
BLOCK 2.	Practice		
	Mandatory part		
B2.O.01	Core component		
B2.O.01.01(Y)	Educational practice	PC-13.1, PC-13.2, PC-13.3, PC-13.4	
B2.O.02	Variable component		
B2.O.02.01 (P)	Internship	PC-13.1, PC-13.2, PC-13.3, PC-13.4	PC-14.1, PC-14.2, PC-14.3
	Part formed by participants in educational relations		
B2.B.ДВ.01	Elective practices (modules) 1 (DV.1)		
B2.B.ДВ.01.01	Internship	PC-13.1, PC-13.2, PC-13.3, PC-13.4	PC-14.1, PC-14.2, PC-14.3
B2.B.ДВ.01.02 (II)	Academic research practice with the preparation of a scientific qualification project	PC-13.1, PC-13.2, PC-13.3, PC-13.4	PC-14.1, PC-14.2, PC-14.3
BLOCK 3	State final certification		
	Mandatory part		
B3.B.01	Preparation for passing and passing the state exam	PC-13.1, PC-13.2, PC-13.3, PC-13.4	PC-14.1, PC-14.2, PC-14.3
OC.	Electives		
	Part formed by participants in		

	educational relations		
OC.E.01	Russian language		
OC.E.02	Technologies and practice of programming in the Python language for the humanities		

