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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University**

Agrarian and Technological Institute

educational division (faculty/institute/academy) as higher education programme developer

Approved at the meeting of the Academic Council of RUDN University

Opened by order of the Rector of RUDN University No. 44-1

Protocol No. 1

December 21, 2011

(date, month, year)

July 09, 2012

(date, month, year)

PROFESSIONAL EDUCATION PROGRAMME OF HIGHER EDUCATION

Field of Studies/ Speciality:

36.05.01 Veterinary

field of studies / speciality code and title

Profile/Specialisation:

Veterinary

higher education programme title

The Educational Programme is developed in compliance with:

Educational Standard of RUDN University, approved by Order of the Rector No. 371

dated May 21, 2021

(day, month, year)

Level of education:

Specialist

(bachelor's / specialist's / master's – to fill in the required)

Graduate's Qualification:

Veterinarian

(graduate's qualification in compliance with the order of the Ministry of Education and Science of Russian Federation dated September 12, 2013, No. 1061)

Length of Educational Programme:

5 years

(full-time education)

-

(part-time education)

-

(correspondence education)

AGREED by:

Head
of Educational Programme

J.A. Vatnikov

(signature)

(day, month, year)

Chairperson
of Didactic Council

J.A. Vatnikov

(signature)

(day, month, year)

Head
of Educational
Department
E.A. Dovletyarova

(signature)

(day, month, year)

1. EDUCATIONAL PROGRAMME GOAL (MISSION)

Study objective: training of highly qualified, competitive, innovation-oriented specialists in the field of veterinary medicine.

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

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

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

Formation and development of professional competencies taking into account the student's interests and his/her future career development trajectory allows students to become a sought-after specialist in their field even at the stage of education.

2. EDUCATIONAL PROGRAMME RELEVANCE, SPECIFICITY, AND UNIQUENESS

The program prepares veterinary specialists capable of treating small and large, productive and non-productive animals (companion animals, zoo animals and wild animals). The basic knowledge obtained by students in the first three courses of the program allows them to choose any direction of their professional development in the future. In the course of the program, the specialization disciplines lay the foundation for further postgraduate specialized development of graduates.

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

The volume of the specialist program is 300 credit units (hereinafter - s.e.) regardless of the form of study, applied educational technologies, implementation of the specialist program on an individual curriculum.

The volume of a specialist program, implemented in one academic year, is not more than 70 s.f., regardless of the form of study, applied educational technologies, implementation of a specialist program on an individual curriculum (except for accelerated learning), and in case of accelerated learning - not more than 80 credits.

The specific difference of the educational program 36.05.01 "Veterinary Medicine" of ATI RUDN can be called a unique combination of deep basic knowledge, which students receive on the basis of RUDN, and modern approaches to practical activity in animal

treatment, acquired by students on the basis of partner enterprises during field studies, practical training and internships.

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

3. THE LABOR MARKET'S NEED FOR TRAINING IN OP WO PROFILE

The area of professional activity of graduates of specialty programs on specialty 36.05.01 Veterinary medicine includes:

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

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

List of organizations in which the graduate can carry out professional activities:

- public administration
- animal disease control stations
- public and private veterinary clinics
- agricultural holdings
- customs structures
- higher education institutions
- Research and production associations and research institutes
- foreign and domestic food industry enterprises
- animal feed companies
- trade structures
- accredited and production laboratories
- biomanufacturers
- veterinary pharmacies
- veterinary laboratories
- pet stores
- stud farms and equestrian clubs
- zoos
- markets, etc.

A graduate may hold the following wide range of positions: veterinary surgeon; veterinary consultant; veterinary laboratory technician; chief veterinary surgeon of a veterinary clinic or veterinary enterprise; head of a veterinary pharmacy or laboratory; specialist in quality control of veterinary goods; sales representative for the sale of veterinary drugs and products; sanitary service specialist; veterinary registration specialist; manager of scientific communications department for work with

4. SPECIAL REQUIREMENTS FOR POTENTIAL APPLICANTS

A potential applicant to the educational program must have at least secondary general education.

Characteristics of entrance tests: written examination in the form of USE in the following disciplines: biology, Russian language, mathematics/physics/chemistry/foreign language; the results of Olympiads and other individual achievements are taken into account.

Admission to the university for training in a specialist program according to the results of entrance tests formed by the university is carried out for the following categories of citizens:

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

5. FEATURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

5.1. *The Program* is implemented with elements of e-learning / distance education technologies. E-learning, distance education technologies used in the education of disabled persons and persons with disabilities (hereinafter - disabled persons and persons with disabilities), must provide the possibility of receiving and transmitting information in accessible forms.

5.2. The language of implementation of the educational program is Russian

5.3. The program is adapted for the education of persons with disabilities and persons with disabilities.

RUDN has conditions for education of persons with disabilities and (or) persons with disabilities. The necessary equipment is available for the organization of the educational process, there is a possibility to study on an individual schedule.

For disabled people and persons with disabilities a special procedure of studying academic disciplines based on the principles of health saving is established at RUDN. Comprehensive support of the educational process for disabled people and persons with disabilities is provided in accordance with the recommendations of the medical and social expertise service. The support is adapted to the structure of the educational process, determined by its goals, structure, content and methods.

PFUR provides access to information systems and information and telecommunication networks for disabled people and persons with disabilities. RUDN official website has a "For the Visually Impaired" mode (enabled by the "Eye" icon in the upper left corner of the monitor on any page of the website). RUDN has electronic educational resources adapted for use by disabled people and persons with disabilities.

The University as a whole and the Agrarian Institute of Technology, in particular, have created additional conditions for the development of barrier-free infrastructure, which ensures the accessibility of entrance ways and ways of movement within the university for persons with disabilities and disabilities, as well as the accessibility of the surrounding area. Training sessions with persons with disabilities and persons with disabilities (if there are any in the contingent) are carried out in classrooms, practical training facilities, sports facilities located on the first floors of the academic buildings. Inside the educational buildings there are ramps, handrails, widened doorways. The entrances to the academic buildings, Sports and Recreation Center and other buildings are equipped with ramps. Social facilities (polyclinic, cafes and canteens, MFC, etc.) accessible for disabled people and persons with disabilities are located

on the territory of the University. The University premises intended for public events are equipped with sound amplifying equipment.

5.4. The Program is implemented by the Federal State Educational Institution of Higher Education "Peoples' Friendship University of Russia named after Patrice Lumumba".

Information about partner organizations involved in the implementation of the EP:

Name of partner organization	Interaction functionality
State Budgetary Institution of the City of Moscow "Moscow Veterinary Association"	Scientific work, internships, internships, organization of joint career guidance events and professional skills contests
Federal State Budgetary Institution "All-Russian State Center for Quality and Standardization of Medicines for Animals and Feeds"	Scientific work
Federal State Budgetary Scientific Institution "Federal Scientific Center of Food Systems named after V.M. GorbatoV" RAS. V.M. GorbatoV Federal Scientific Center for Food Systems" RAS	Scientific work, internships and practicums of students
Federal State Budgetary Institution "Central Scientific and Methodological Veterinary Laboratory"	Scientific work, joint educational activities, training practices
Federal State Budgetary Educational Institution of Higher Education "K.I. Skryabin Moscow State Academy of Veterinary Medicine and Biotechnology - MVA".	Scientific work, joint educational activities, training practices
Federal State Budgetary Scientific Institution "All-Russian Research Veterinary Institute of Pathology, Pharmacology and Therapy"	Scientific work, joint educational activities, training practices
Federal State Budgetary Institution "National Medical Research Center of Radiology" of the Ministry of Health of the Russian Federation	Scientific work, joint educational activities, training practices
Federal State Budgetary Institution "Federal Center for Animal Health Protection"	Scientific work, joint educational activities,
OOO VETZdorovyе/MEDVET	Scientific work, student internships and practicums, joint educational activities
New Century Veterinary Clinic of KSC "Novy Vek" LLC	Scientific work, student internships and practicums, joint educational activities
IVC MVA Veterinary Reference Center LLC	Scientific work, student internships and practicums, joint educational activities
...and many others	

5.5. Information on planned bases of educational/industrial practices

Practice*	Base of practice <i>(name of the organization, location)</i>
Training practice (introductory, on-site)	State Autonomous Cultural Institution Moscow State Zoological Park OOO VETZdorovyе / OOO MedVet, Moscow and MO LLC Veterinary Clinic KSC Novy Vek, MO CJSC Lenin State Farm, MO

	OOO IVC MVA Veterinary Reference Center, Moscow, Russia OOO "RADENIS", MO LLC "AMVET", Moscow Federal State Budgetary Institution "Federal Center for Animal Health Protection", Vladimir, Russia
Industrial practice (medical, technological, pre-diploma, field practice)	OOO VETZdorovye / OOO MedVet VK ZooAcademy Ltd. Bely Klyk-M Ltd. Biocontrol LLC Otrada Veterinary Center LLC LLC Veterinary Clinic "Odinvet" IP Bokarev A.N. ...and many others

* - the type of practice (educational/production), type of practice - its name (introductory, technological, research and development, pre-diploma, e t c .), method of conducting (stationary/field).

6. CHARACTERIZATION OF PROFESSIONAL ACTIVITY OF THE OP GRADUATE

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

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

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

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

6.2. Type(s) of professional activity tasks, for which the graduate is prepared to solve within the framework of mastering the educational program:

medical;
 expert-control;
 scientific and educational.

6.3. List of generalized labor functions and labor functions relevant to the professional activity of the graduate of the program of study, in accordance with which the program was developed*

Code and name of the Prof. standards	Generalized labor functions			Labor functions		
	code	appellation	qualification level	Name	code	level (sub-level) of qualification
141 Employee in the field of	G	Providing veterinary care to	7	Conducting clinical examination of	G/01.7	7

veterinary medicine (type of professional activity - Ensuring veterinary welfare of animals and humans code 13.012) OKZ code - 2250 Veterinary doctors OKVED code - Veterinary activities)		animals of all species		animals in order to establish a diagnosis		
				Carrying out measures to treat sick animals	G/02.7	7
				Management of the system of measures to prevent the emergence of non-communicable, infectious and invasive animal diseases to ensure sustainable animal health	G/03.7	7

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

7. REQUIREMENTS TO THE RESULTS OF MASTERING THE OPTION

7.1. Upon completion of the OP The graduate must possess the following Generic Competences (GC):

Code and name of GC	Code and name of the competence achievement indicator
GC-1 Ability to critically analyze problem situations on the basis of a systematic approach, to develop a strategy of action.	GC-1.1. Analyzes a task by identifying its basic components; GC-1.2. Identifies and ranks the information required to solve the task at hand; GC-1.3. searches for information to solve a given problem using various types of queries; GC-1.4 Proposes variants of problem solving, analyzes possible consequences of their use; GC-1.5. Analyzes ways of solving problems of world outlook, moral and personal character on the basis of using the main philosophical ideas and categories in their historical development and socio-cultural context.
GC-2 Ability to manage the 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 Identify connections between tasks and expected results of their solution; GC-2.3 Identify available resources and constraints, applicable legal regulations, within the scope of assigned tasks; GC-2.4 Analyze the project implementation plan-schedule as a whole and choose the best way to solve the set tasks, based on current legal regulations and available resources and constraints; GC-2.5 Controls the progress of the project, adjusts the plan-schedule according to the results of control.
GC-3 Ability to organize and lead a team, developing a team strategy to achieve the set goal.	GC-3.1 Identifies his/her role in a team based on a collaborative strategy to achieve a goal; GC-3.2 Formulates and takes into account in his/her activity the peculiarities of behavior of groups of people singled out depending on the goal set; GC-3.3 Analyze the possible consequences of personal actions and plan their actions to achieve a given result; GC-3.4 Shares information, knowledge and experience with team members; GC-3.5. Argues his/her point of view regarding the use of other team members' ideas to achieve the set goal; GC-3.6 Participates in teamwork to complete assignments.
GC-4 Ability to communicate in interpersonal and intercultural interaction in Russian as a foreign language and foreign language(s) on the basis of mastery of interrelated and interdependent types of reproductive and productive foreign language speech activities, such as listening,	GC-4.1 Selects a style of business communication, depending on the language of communication, purpose and conditions of partnership; GC-4.2 Adapts speech, communication style, and sign language to situations of interaction; GC-4.3 Search for necessary information to solve standard communicative tasks in Russian and foreign languages; GC-4.4 Translate professional texts from a foreign language into Russian and vice versa; GC-4.5 Conduct business correspondence in Russian and foreign languages, taking into account stylistic features of official and unofficial letters and sociocultural differences in the format of

<p>speaking, reading, writing and translation in everyday life, sociocultural, educational and professional, official business and scientific spheres of communication.</p>	<p>correspondence; GC-4.6. Uses dialog to collaborate in academic communication of communication, taking into account the personality of interlocutors, their communicative-speech strategy and tactics, the degree of formality of the situation; GC-4.7 Forms and argues his/her own assessment of the main ideas of dialog (discussion) participants in accordance with the needs of joint activity.</p>
<p>GC-5 Ability to analyze and take into account the diversity of cultures in the process of intercultural interaction.</p>	<p>GC-5.1 Interpret Russian history in the context of world historical development; GC-5.2 Finds and uses information about cultural characteristics and traditions of different social groups in social and professional communication; GC-5.3. takes into account the historical heritage and socio-cultural traditions of different social and professional communities in social and professional communication on a given topic. groups, ethnicities and faiths, including world religions, philosophical and ethical teachings; GC-5.4 Gather information on a given topic, taking into account the ethnicities and faiths most widely represented in the study sites; GC-5.5. Justifies the peculiarities of project and team activities with representatives of other ethnicities and (or) confessions; GC-5.6 Adheres to the principles of non-discriminatory interaction in personal and mass communication in order to fulfill professional tasks and enhance social integration.</p>
<p>GC-6 Ability to identify and implement priorities of own activity and ways to improve it on the basis of self-assessment and lifelong learning.</p>	<p>GC-6.1 Control the amount of time spent on specific activities; GC-6.2 Develops tools and methods of time management in accomplishing specific tasks, projects, and goals; GC-6.3 Analyzes his/her resources and their limits (personal, situational, time, etc.) to successfully complete the task at hand; GC-6.4 Finds and uses sources of additional information to improve general and professional knowledge; GC-6.5 Analyze the main opportunities and tools of continuing education in relation to own interests and needs, taking into account conditions, means, personal opportunities, stages of career development, time perspective of activity development and labor market requirements; GC-6.6 Identifies self-development tasks, goals and priorities for professional growth; GC-6.7. categorize tasks into long-, medium-, and short-term tasks</p>
<p>GC-7 Ability to maintain an adequate level of physical fitness to ensure full social and professional activity.</p>	<p>GC-7.1 Selects health-saving technologies to maintain a healthy lifestyle, taking into account the physiological characteristics of the body; GC-7.2 Plan his/her working and free time to optimize the combination of physical and mental workload and ensure efficiency; GC-7.3 Observes and promotes healthy lifestyle norms in various life situations and professional activities</p>
<p>GC-8 Ability to create and maintain safe living conditions in everyday life and in professional activities to preserve the natural environment, to ensure sustainable development of</p>	<p>GC-8.1 Analyze the factors of harmful influence on life activity of elements of the environment (technical means, technological processes, materials, buildings and structures, natural and social phenomena); GC-8.2 Identify hazards and harmful factors within the framework of the task at hand; GC-8.3 Identifies and corrects problems associated with safety</p>

society, including at the threat and occurrence of emergencies and military conflicts.	violations in the workplace; GC-8.4 Explain emergency prevention activities; GC-8.5 Explain rules of behavior in natural and man-made emergencies and military conflicts; GC-8.6. Provides first aid, participates in restorative care events.
GC-9 Ability to use basic defectological knowledge in social and professional spheres.	GC-9.1 Possesses an understanding of 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 implements professional activities with individuals who have disabilities or disabilities. GC-9.3. Interacts with persons with disabilities in social and professional spheres.
GC-10 Ability to make informed economic decisions in various spheres of life.	GC-10.1 Understands basic principles of economic functioning and economic development, goals of the form of government participation in the economy; GC-10.2 Apply personal economic and financial planning techniques to achieve current and long-term financial goals; GC-10.3. uses financial tools to manage personal finances (personal budget), controls own economic and financial risks.
GC-11 Ability to form an intolerant attitude towards corrupt behavior.	GC-11.1 Analyze 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 Plan, organize and conduct activities to ensure the formation of a civic position and prevention of corruption in society; GC-11.3 Observe the rules of social interaction based on compliance with applicable laws and intolerant attitude towards corruption.
GC-12 Ability to search for the necessary sources of information and data, to perceive, analyze, remember and transfer information using digital means, as well as with the help of algorithms when working with data obtained from various sources in order to effectively use the obtained information to solve problems; Evaluate information, its reliability, draw logical inferences based on incoming information and data.	GC-12.1 Finds appropriate sources of information and data, perceives, analyzes, remembers and communicates information using digital tools and algorithms when working with data obtained from various sources in order to effectively use the information obtained to solve problems; GC-12.2 Evaluate information, its reliability, draw logical inferences based on incoming information and data.

7.2. At the end of the mastering of the educational program the graduate should possess the following general professional competences (GPC):

Code and name of the GPC	Code and name of the competence achievement indicator
GPC-1 Ability to determine the biological status and normative clinical indicators of organs	GPC-1.1. Knows the structure and functions of the main systems of animal organism taking into account species specifics GPC-1.2. Able to predict the expected violations of biological status in suspected disease development

and systems of the animal body.	<p>GPC 1.3. Is able to determine the main indicators of the activity of individual body systems and draw conclusions about the presence of deviations from the normative values.</p> <p>GPC 1.4. Possesses the skills of sampling biological fluids and tissues for research, performing laboratory research, interpretation of research results.</p>
GPC-2 Ability to interpret and evaluate in professional activity the influence of natural, socio- economic, genetic and economic factors on the physiological state of the animal organism.	<p>GPC-2.1. Possesses knowledge of the influence of natural, socio-economic, genetic and economic factors on animal organism.</p> <p>GPC-2.2. able to establish the presence and reliability of cause-and-effect relationships between the impact of certain etiological factors on the animal's body and the development of diseases.</p> <p>GPC-2.3 Possesses methods of preventive and therapeutic correction of the impact of unfavorable environmental factors that can cause deterioration of animal health status</p>
GPC-3 Ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex.	<p>GPC-3.1 Knowledge of modern legal norms, both state and international, regulating activities in the field of veterinary medicine, veterinary and sanitary expertise and agro-industrial complexes</p> <p>GPC-3.2 Possesses the skills of updating legal information, including in the sphere of agro-industrial complex.</p> <p>GPC-3.3 Performs activities in accordance with regulatory and legal acts in the sphere of agro-industrial complex, as well as in the field of veterinary medicine and veterinary and sanitary expertise.</p>
GPC-4 Ability to use in professional activity methods of problem solving with the use of modern equipment in the development of new technologies and use modern professional methodology to conduct experimental research and interpretation of their results.	<p>GPC-4.1 Possesses the conceptual and methodological apparatus of basic natural sciences at a level sufficient for full-fledged professional activity at the modern level</p> <p>GPC-4.2 Possesses methods of problem solving using modern equipment</p> <p>GPC-4.3 Ready to use modern methodology in designing and conducting experimental research</p> <p>GPC-4.4 Utilizes modern professional methodology in interpreting research results</p>
GPC-5 Ability to draw up special documentation, analyze the results of professional activity and present reporting documents using specialized databases.	<p>GPC-5.1. possesses the skills of searching for necessary forms of documentation on official websites and in specialized databases</p> <p>GPC-5.2 Possesses professional terminology and skills of completing analytical and reporting documents of professional orientation</p> <p>GPC-5.3 Able to use specialized software to analyze the results of professional activities and prepare reporting documentation.</p>
GPC-6 Ability to analyze, identify and perform hazard assessment of the risk of disease emergence and spread.	<p>GPC-6.1 Possesses knowledge in the field of etiology and pathogenesis of diseases of animals of different species.</p> <p>GPC-6.2 Know the patterns of occurrence and spread of diseases in animal populations, factors predisposing to diseases and causes of possible complications.</p> <p>GPC-6.3 Assess the risks of the impact of human economic activity on the spread of animal and human diseases.</p>
GPC-7 Ability to understand the principles of modern information technologies and use them to solve the problems of professional activity.	<p>GPC-7.1 Understands the principles of modern computer and telecommunication equipment and is able to use them to solve professional problems.</p> <p>GPC-7.2 Use modern special software and specialized databases to solve professional tasks and perform job duties</p> <p>GPC-7.3 Possesses skills of working on modern medical diagnostic and therapeutic equipment with the software</p> <p>GPC-7.4 Use specialized databases to solve professional tasks in the</p>

	field of diagnostics and treatment of animals of various species GPC-7.5 Use geographic information systems and software packages in collecting and analyzing information related to the assessment of the spread of contagious diseases, epizootic situations, planning and evaluating the effectiveness of anti-epizootic measures.
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7.3. The list of professional competencies (PC)*, which a graduate who has fully mastered the program should possess:

Code and name of the competence achievement indicator		Code and name of the professional standard on the basis of which the PC is formulated
PC-1. Ability to collect anamnesis of life and health of the animal for further diagnosis and planning of therapeutic and preventive measures.	PC-1.1 Collects the animal's life history, information on routine vaccinations, deworming and other preventive treatments. PC-1.2 Collects information on past illnesses, surgical interventions, current chronic diseases and ongoing therapy for these diseases. PC-1.3 Collects information on changes in the animal's condition during the course of the disease, diagnostic and therapeutic measures taken, medicines and physiotherapy methods used.	Professional Standard 141 Employee in the field of veterinary medicine (type of professional activity - Ensuring veterinary welfare of animals and humans code 13.012) OKZ code - 2250 Veterinary doctors
PC-2. Ability to perform a complete initial clinical examination of an animal to make a preliminary clinical diagnosis(s) and repeat examinations to monitor the patient's condition.	PC-2.1. Follows technique and procedure for clinical examination, taking into account the type of animal and its condition. PC-2.2. Identifies 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 chart/other medical documents PC-2.4. Able to assess the initial degree of clinical symptoms and their change during the course of patient management	
PC-3. Ability to plan measures for differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about a patient's symptoms/syndromes of disease, forms a set of preliminary diagnoses for their further confirmation or refutation. PC-3.2 Uses off-the-shelf or creates a unique algorithm for differential diagnosis, taking into account the capabilities of the treatment facility. PC-3.3 Utilizes information obtained as a result of diagnostic measures to make a final diagnosis(s) and correct diagnoses when necessary.	
PC-4. Ability to perform necessary laboratory diagnostics	PC-4.1 Knows modern methods of laboratory diagnostics, their purpose, peculiarities of pre-analytics and interpretation of results.	

<p>as part of preventive or diagnostic measures.</p>	<p>PC-4.2 Selects the appropriate type of laboratory diagnosis for the task at hand, taking into account knowledge of basic biological disciplines. PC-4.3 Knows how to perform laboratory tests using modern diagnostic equipment. PC4.4 Interprets diagnostic results and uses them to solve the problem at hand.</p>	
<p>PC-5. Ability and readiness to plan and conduct the necessary types of instrumental diagnostics of the patient's condition</p>	<p>PC-5.1 Possesses knowledge of modern methods of instrumental diagnostics, peculiarities of their application, indications, possible complications and contraindications to their use. PC-5.2 Selects a necessary and sufficient set of instrumental diagnostic methods to solve the task at hand. PC-5.3 Knows how to perform instrumental diagnosis of diseases in animals. PC-5.4 Interprets diagnostic results and uses them to solve the problem at hand.</p>	
<p>PC-6. Ability to diagnose and give a prognosis of the course and spread of the disease on the basis of clinical, laboratory and instrumental diagnostics data, as well as additional diagnostic methods.</p>	<p>PC-6.1 Possesses knowledge of the peculiarities of manifestation of infectious, parasitic, internal non-communicable, surgical, gynecological and other diseases of animals of various species. PC-6.2 Possesses the methods of making a complex diagnosis, taking into account the results of anamnesis, clinical, laboratory and instrumental studies. PC-6.3 Possesses methods of predicting the course and outcome of treatment of the main disease based on a set of concomitant diagnoses and factors complicating the patient's condition. PC-6.4 Possesses techniques for assessing the risk of spread of an identified disease.</p>	
<p>PC-7. Ability to choose or develop a treatment plan for a patient based on the diagnosis made</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 optimal method of drug administration, calculate the dose and frequency of administration, duration of the course of each drug. PC-7.3 Able to select non-medication, including physiotherapy, methods of influence on the body of a sick animal, contributing to its recovery and apply them to the treatment of the patient. PC-7.4 Able to draw up a treatment plan for a patient, select criteria for monitoring its effectiveness and options for changing the treatment plan if the selected treatment methods are not</p>	

	effective.	
PC-8. Coordinates the treatment plan with the owner of the animal and other participants of the treatment process, if necessary, adjusts it in the course of treatment and coordinates changes with the owner of the animal.	<p>PC-8.1 Able to explain the chosen treatment plan to the pet owner, obtain their consent and willingness to invest their resources in the pet's treatment.</p> <p>PC-8.2 Willing to communicate with the patient's owner about changes in the patient's condition that have occurred during treatment, compliance with prescribed therapy, and consistency between prognosis and actual patient outcomes.</p> <p>PC-8.3 Ready to explain to the owner and treatment staff the fact of correction of the prescribed treatment in case of changes in the patient's condition.</p>	
PC-9. Ability to use methods of operative surgery in the prevention, diagnosis and treatment of animal diseases.	<p>PC-9.1 Selects the appropriate method of surgical intervention, including methods of anesthesia if necessary.</p> <p>PC-9.2 Plans preoperative preparation, course of surgical intervention, management of early postoperative period, prevention of complications.</p> <p>PC-9.3 Able to independently perform basic preventive, diagnostic and therapeutic surgical interventions (including punctures, soft tissue neurectomy, tail amputation, castration of males and females, dehorning, diagnostic laparotomy, etc.).</p> <p>PC-9.4 Monitors the outcome of the surgical intervention.</p>	
PC-10. Ability to analyze and adjust animal feeding to improve the effectiveness of the treatment process, prescribe therapeutic diets.	<p>PC-10.1 Able to analyze a patient's diet to identify factors predisposing to disease development.</p> <p>PC-10.2 Able to justify the prescription of special feeding to an animal for therapeutic purposes in various diseases</p> <p>PC-10.3 Able to recommend the approximate composition of therapeutic diets, the desirable ratio of nutrients, the presence of special additives and components that enhance the therapeutic effect of the diet</p> <p>PC-10.4 Able to use special programs and databases to select industrial therapeutic diets and bioadditives, as well as to prepare individual therapeutic diets for animals of different species.</p>	
PC-11. Ability to develop an annual plan of anti-epizootic measures, a plan of prevention of non-communicable animal	<p>PC-11.1 Able to conduct epizootological survey of the organization, territory</p> <p>PC-11.2 Able to develop an annual plan of anti-epizootic and anti-parasitic measures, a plan of prevention of non-communicable animal diseases, a plan of veterinary and sanitary measures</p>	

<p>diseases, a plan of veterinary and sanitary measures, including a plan of preventive immunizations (vaccinations) and therapeutic and preventive treatments.</p>	<p>PC-11.3 Able to draw up individual and group plans of preventive immunizations (vaccinations) taking into account the epizootic situation in the territory where the animals stay, 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, as well as, if necessary, taking into account the real epizootic situation in places where animals stay, including in agricultural production conditions PC-11.5 Able to analyze the completeness and effectiveness of measures to prevent animal diseases in order to improve them</p>	
<p>PC-12. Ability to organize and conduct dispensary in animals, both general and specialized.</p>	<p>PC-12.1 Able to draw up a plan for the dispensation of animals, general or specialized, taking into account their species and purpose PC-12.2 Able to organize and conduct medical check-ups according to the drawn up plan PC-12.3 Able, based on the results of the dispensary, to give recommendations for therapeutic and preventive measures aimed at improving the health of the group of animals</p>	
<p>PC-13. Ability to perform postmortem diagnostic examination of animals in order to establish pathological processes, diseases, cause of death.</p>	<p>PC-13.1 Able to perform general inspection of animal carcasses prior to autopsy ПК-13.2 Able to perform autopsy of animal carcasses using special tools and observing safety requirements PC-13.3 Able to establish the cause of death and pathologoanatomical diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases PC-13.4 Able to formalize the results of postmortem diagnostic examination of the animal in the autopsy report</p>	
<p>PC-14. Readiness to promote veterinary knowledge, including in the field of animal disease prevention.</p>	<p>PC-14.1 Able to analyze the problems leading to disruption of animal health and welfare, based on this to set goals in the field of promotion of veterinary knowledge, to plan strategy and tactics of upcoming activities PC-14.2 Able to use computer and telecommunication tools to prepare and demonstrate materials used in the process of promoting veterinary knowledge PC-14.3 Able to conduct talks, lectures, seminars for employees of the organization in order to explain the principles of work on prevention of animal diseases</p>	

* - The PC is formulated by the program developer taking into account the

requirements of professional standards and the focus of the program.

8. MATRIX OF COMPETENCIES to be formed in students during the mastering of the educational program for specialty 36.05.01 "Veterinary medicine"

code	Name of disciplines/modules forming competencies of students	UNIVERSAL COMPETENCIES					
		UK-1 Ability to critically analyze problem situations on the basis of a systematic approach, to develop a strategy of action.	UK-2 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 limitations.	UK-3 Ability to carry out social interaction and realize their role in a team.	UK-4 Ability to communicate in interpersonal and intercultural interaction in Russian as a foreign language and foreign language(s) on the basis of mastery of interrelated and interdependent types of reproductive and productive foreign language speech activities, such as listening, speaking, reading, writing and translation in everyday life, sociocultural, educational and professional, official business and scientific spheres of communication.	UK-5 Ability to analyze and take into account the diversity of cultures in the process of intercultural interaction.	UK-6 Ability to identify and implement priorities of own activity and ways to improve it on the basis of self-assessment and lifelong learning.
BLOCK 1.	Disciplines (modules)						
B1.0	Mandatory part						
B1.0.01.	Base component						
B1.0.01.01	Foundations of Russian statehood		GPC-2.3				
B1.0.01.02	History of Russia					GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4	

B1.O.01.03	History of Religions of Russia					GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4	
B1.O.01.04	Philosophy	GPC-1.1; GPC-1.2; GPC-1.4; GPC-1.5					
B1.O.01.05	Fundamentals of military training. Life safety						
B1.O.01.06	Physical Education						
B1.O.01.07	Animal anatomy						
B1.O.01.08	Latin						
B1.O.01.09	Inorganic and analytical chemistry						
B1.O.01.10	Organic chemistry						
B1.O.01.11	Jurisprudence		GPC-2.3				
B1.O.01.12	Biology with the basics of ecology						
B1.O.01.13.	Biological physics						
B1.O.01.14	Informatics	GPC-1.3					
B1.O.01.15	Physical and colloidal chemistry						
B1.O.01.16	Cytology, histology and embryology						
B1.O.01.17	Biological chemistry						
B1.O.01.18	Veterinary microbiology and mycology						
B1.O.01.19	Virology and biotechnology						
B1.O.01.20	Animal physiology and ethology						

B1.O.01.21	Animal breeding with the basics of private zootechnics						
B1.O.01.22	Animal health and welfare						
B1.O.01.23.	Animal feeding with the basics of fodder production						
B1.O.01.24	Pathologic physiology						
B1.O.01.25	Veterinary pharmacology						
B1.O.01.26	Clinical diagnosis						
B1.O.01.27	Pathologic anatomy						
B1.O.01.28.	Operative surgery with topographical anatomy						
B1.O.01.29.	Instrumental diagnostic methods / Instrumental diagnostic methods						
B1.O.01.30.	Toxicology						
B1.O.01.31.	Obstetrics, gynecology and andrology						
B1.O.01.32.	Internal non-communicable diseases						
B1.O.01.33.	General Surgery						
B1.O.01.34.	Private veterinary surgery						
B1.O.01.35.	Parasitology and invasive diseases						
B1.O.01.36	Epizootology and infectious diseases						
B1.O.01.37	Veterinary and sanitary expertise						
B1.O.01.38	Organization of veterinary affairs						
B1.O.01.01.DV.01	Foreign language				GPC-4.1; GPC-4.2; GPC-4.3		
B1.O.01.DV.01.01.01	Foreign language				GPC-4.1; GPC-4.2; GPC-4.3		
B1.O.01.DV.01.02	Russian language (as a foreign language)				GPC-4.1; GPC-4.2; GPC-4.3		
B1.O.02.	Variable component						
B1.O.02.01	Russian language and culture of speech			GPC-3.4; GPC-3.5			
B1.O.02.02	Math	GPC-1.1; GPC-1.2; GPC-1.3;					
B1.O.02.03	Introduction to the specialty		GPC-2.1; GPC-	GPC-3.1;			GPC-6.1;

			2.2; GPC-2.3	GPC-3.2; GPC-3.3; GPC-3.6			GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.6; GPC-6.7.
B1.O.02.04	Immunology						
B1.O.02.05	Veterinary sanitation						
B1.O.02.06	Technology of animal products processing						
B1.O.02.07	Veterinary deontology					GPC5.5 GPC 5.6	
B1.O.02.08	Veterinary genetics						
B1.O.02.09	Veterinary radiobiology						
B1.O.02.10	Forensic veterinary examination and post-mortem examination of animals						
B1.O.02.DV.01.	Foreign language for special purposes						
B1.O.02.DV.01.01	Foreign language in professional activities					GPC-4.1; GPC-4.2; GPC-4.5	
B1.O.02.DV.01.02	Russian language (as a foreign language) in professional activities					GPC-4.1; GPC-4.2; GPC-4.5	
B1.V.	Elective disciplines						
B1.V.DV.01	Interdisciplinary module	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4; GPC-1.5					GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.6; GPC-6.7.
B1.B.ДВ.01.01.	Disciplines of the interdisciplinary module	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4; GPC-1.5					GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.6; UK-6.7.

B1.V.DV.02	Applied Physical Education						
B1.V.DV.02.01.	Applied Physical Education						
B1.V.DV.03	Elective disciplines (modules) 3 (DV.3)						
B1.V.DV.03.01	Medicinal and poisonous plants						
B1.V.DV.03.02	Forage plants						
B1.V.DV.03.03.	Fundamentals of professional ethics			GPC 3.4. GPC 3.5			
B1.V.DV.04	Elective disciplines (modules) 4 (DV.4)						
B1.V.DV.04.01	Zoopsychology						
B1.V.DV.04.02	Animal health and welfare / Animal health and welfare						
B1.V.DV.05	Elective disciplines (modules) 5 (DV.5)						
B1.V.DV.05.01	Laboratory diagnostics						
B1.V.DV.05.02.	Laboratory diagnostics of infectious and invasive diseases						
B1.V.DV.06	Elective disciplines (modules) 6 (DV.6)						
B1.B.ДB.06.01	Organization of state veterinary supervision						
B1.V.DV.06.02.	Veterinary and production laboratories with the basics of design						
B1.V.DV.07	Elective disciplines (modules) 7 (DV.7)						
B1.B.ДB.07.01	Biometrics in veterinary medicine						
B1.V.DV.07.02.	Career management						GPC-6.5; GPC-6.6; GPC-6.7
B1.V.DV.07.03.	Basics of social and legal knowledge						GPC-5.4; GPC-5.5; GPC-5.6
B1.V.DV.07.04	Space technologies at the service of agro-industrial complex		GPC-2.2				
B1.V.DV.08	Elective disciplines (modules) 8						

	(DV.8)						
B1.B.DB.08.01	Diseases of horses						
B1.V.DV.08.02.	Diseases of productive animals						
B1.V.DV.08.03.	Communication workshop			GPC 3.4 GPC 3.5			
B1.V.DV.09	Elective disciplines (modules) 9 (DV.9)						
B1.V.DV.09.01	Diseases of small pets						
B1.V.DV.09.02.	Bee diseases and entomophages						
B1.V.DV.09.03.	Fish pathology and aquaculture						
B1.V.DV.09.04	Diseases of exotic animals						
B1.V.DV.10	Elective disciplines (modules) 10 (DV.10)						
B1.V.DV.10.01	Anesthesiology, resuscitation and intensive therapy						
B1.V.DV.10.02.	Dermatology						
B1.V.DV.10.03.	Cardiology						
B1.V.DV.10.04	Endocrinology						
B1.V.DV.10.05.	Nephrology						
B1.V.DV.11	Elective disciplines (modules) 11 (DV.11)						
B1.V.DV.11.01.	Reconstructive and reconstructive surgery						
B1.V.DV.11.02.	Veterinary ophthalmology						
B1.V.DV.11.03.	Animal dentistry						
BLOCK 2.	Practice						
B2.O.01.	Base component	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4; GPC-1.5	GPC-2.1; GPC- 2.2; GPC-2.3; GPC-2.4; GPC- 2.5	GPC-3.1; GPC-3.2; GPC-3.3; GPC-3.4; GPC-3.5; GPC-3.6	UK-4.1; UK-4.2; UK-4.3; UK-4.4; UK-4.5; UK-4.6; UK-4.7.	GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6	GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.6; GPC-6.7.
B2.O.01.01.01(U)	Training practice	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4; GPC-1.5	GPC-2.1; GPC- 2.2; GPC-2.3; GPC-2.4; GPC- 2.5	GPC-3.1; GPC-3.2; GPC-3.3; GPC-3.4; GPC-3.5;	GPC-4.1; GPC-4.2; GPC-4.3; GPC-4.4; GPC-4.5; GPC-4.6; GPC-4.7.	GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5;	GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5;

				GPC-3.6		GPC-5.6	GPC-6.6; GPC-6.7.
B2.O.02.	Variable component						
B2.O.02.01(P).	Medical practice						
B2.V.DV.01	Elective practices (modules) 1 (DV.1)						
B2.V.DV.01.01.01(N)	Industrial practice						
B2.V.DV.01.02(N)	Academic research practice with preparation of scientific qualification project						
Block 3	State final attestation	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4; GPC-1.5	GPC-2.1; GPC- 2.2; GPC-2.3; GPC-2.4; GPC- 2.5	GPC-3.1; GPC-3.2; GPC-3.3; GPC-3.4; GPC-3.5; GPC-3.6	GPC-4.1; GPC-4.2; GPC-4.3; GPC-4.4; GPC-4.5; GPC-4.6; GPC-4.7.	GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6.	GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.6; GPC-6.7.
B3.O.01.	Preparing for and passing the state examination	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4; GPC-1.5	GPC-2.1; GPC- 2.2; GPC-2.3; GPC-2.4; GPC- 2.5	GPC-3.1; GPC-3.2; GPC-3.3; GPC-3.4; GPC-3.5; GPC-3.6	GPC-4.1; GPC-4.2; GPC-4.3; GPC-4.4; GPC-4.5; GPC-4.6; GPC-4.7.	GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6.	GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.6; GPC-6.7.
FTD.	Electives				GPC-4.1; GPC-4.2; GPC-4.3		
FTD.B.01	Russian language for foreign students				GPC-4.1; GPC-4.2; GPC-4.3		
FTD.B.02	Technologies and practice of Python programming for humanities specialties						

code	Name of disciplines/modules forming competencies of students	UNIVERSAL COMPETENCIES					
		UK-7 Ability to maintain an adequate level of physical fitness to ensure full social and professional activity.	UK-8 Ability to create and maintain safe living conditions in everyday life and in professional activities to preserve the natural environment, to ensure sustainable development of society, including at the threat and occurrence of emergencies and military conflicts.	UK-9 Ability to use basic defectological knowledge in social and professional spheres.	UK-10 Ability to make informed economic decisions in various spheres of life.	UK-11 Ability to form an intolerant attitude towards corrupt behavior.	UK-12 Ability to search for the necessary sources of information and data, to perceive, analyze, remember and transfer information using digital means, as well as with the help of algorithms when working with data obtained from various sources in order to effectively use the obtained information to solve problems; Evaluate information, its reliability, draw logical inferences based on incoming information and data.
BLOCK 1.	Disciplines (modules)						
B1.0	Mandatory part						
B1.0.01.	Base component						
B1.O.01.01	Foundations of Russian statehood						
B1.O.01.02	History of Russia						
B1.O.01.03	History of Religions of Russia						
B1.O.01.04	Philosophy						
B1.O.01.05	Fundamentals of military training.		GPC-8.1; GPC-8.2;				

	Life safety		GPC-8.3; GPC-8.4; GPC-8.5; GPC-8.6				
B1.O.01.06	Physical Education	GPC-7.1; GPC-7.2; GPC-7.3					
B1.O.01.07	Animal anatomy						
B1.O.01.08	Latin						
B1.O.01.09	Inorganic and analytical chemistry		GPC-8.1; GPC-8.2				
B1.O.01.10	Organic chemistry		GPC-8.1; GPC-8.2				
B1.O.01.11	Jurisprudence					GPC-11.1; GPC-11.2; GPC-11.3	
B1.O.01.12	Biology with the basics of ecology						
B1.O.01.13.	Biological physics		GPC-8.1; GPC-8.2				
B1.O.01.14	Informatics						GPC-12.2.
B1.O.01.15	Physical and colloidal chemistry						
B1.O.01.16	Cytology, histology and embryology						
B1.O.01.17	Biological chemistry						
B1.O.01.18	Veterinary microbiology and mycology		GPC-8.1; GPC-8.2; GPC-8.3				
B1.O.01.19	Virology and biotechnology		GPC 8.1 GPC 8.2 GPC8.3				
B1.O.01.20	Animal physiology and ethology						
B1.O.01.21	Animal breeding with the basics of private zootechnics						
B1.O.01.22	Animal health and welfare						
B1.O.01.23.	Animal feeding with the basics of fodder production						
B1.O.01.24	Pathologic physiology						
B1.O.01.25	Veterinary pharmacology						
B1.O.01.26	Clinical diagnosis						

B1.O.01.27	Pathologic anatomy						
B1.O.01.28.	Operative surgery with topographical anatomy						
B1.O.01.29.	Instrumental diagnostic methods / Instrumental diagnostic methods						
B1.O.01.30.	Toxicology						
B1.O.01.31.	Obstetrics, gynecology and andrology						
B1.O.01.32.	Internal non-communicable diseases						
B1.O.01.33.	General Surgery						
B1.O.01.34.	Private veterinary surgery						
B1.O.01.35.	Parasitology and invasive diseases						
B1.O.01.36	Epizootology and infectious diseases						
B1.O.01.37	Veterinary and sanitary expertise						
B1.O.01.38	Organization of veterinary affairs						
B1.O.01.01.DV.01	Foreign language						
B1.O.01.DV.01.01.01	Foreign language						
B1.O.01.DV.01.02	Russian language (as a foreign language)						
B1.O.02.	Variable component						
B1.O.02.01	Russian language and culture of speech						
B1.O.02.02	Math						
B1.O.02.03	Introduction to the specialty						
B1.O.02.04	Immunology						
B1.O.02.05	Veterinary sanitation						
B1.O.02.06	Technology of animal products processing						
B1.O.02.07	Veterinary deontology				GPC-9.2; GPC-9.3		
B1.O.02.08	Veterinary genetics						
B1.O.02.09	Veterinary radiobiology		GPC-8.1; GPC-8.2;				

			GPC-8.3				
B1.O.02.10	Forensic veterinary examination and post-mortem examination of animals						
B1.O.02.DV.01.	Foreign language for special purposes						
B1.O.02.DV.01.01.01	Foreign language in professional activity						
B1.O.02.DV.01.02	Russian language (as a foreign language) in professional activities						
B1.V.	Elective disciplines						
B1.V.DV.01	Interdisciplinary module						
B1.B.ДB.01.01.01	Disciplines of the interdisciplinary module						
B1.V.DV.02	Applied Physical Education	GPC-7.1; GPC-7.2; GPC-7.3					
B1.V.DV.02.01.	Applied Physical Education	GPC-7.1; GPC-7.2; GPC-7.3					
B1.V.DV.03	Elective disciplines (modules) 3 (DV.3)						
B1.V.DV.03.01	Medicinal and poisonous plants						
B1.V.DV.03.02	Fodder plants						
B1.V.DV.03.03.	Fundamentals of professional ethics				GPC-9.2; GPC-9.3		
B1.V.DV.04	Elective disciplines (modules) 4 (DV.4)						
B1.V.DV.04.01	Zoopsychology						
B1.V.DV.04.02	Animal health and welfare / Animal health and welfare						
B1.V.DV.05	Elective disciplines (modules) 5 (DV.5)						
B1.V.DV.05.01	Laboratory diagnostics						
B1.V.DV.05.02.	Laboratory diagnostics of infectious and invasive diseases						
B1.V.DV.06	Elective disciplines (modules) 6 (DV.6)						
B1.B.ДB.06.01	Organization of state veterinary						

	supervision						
B1.V.DV.06.02.	Veterinary and production laboratories with the basics of design						
B1.V.DV.07	Elective disciplines (modules) 7 (DV.7)						
B1.V.DV.07.01.	Biometrics in veterinary medicine						GPC-12.2.
B1.V.DV.07.02.	Career management						
B1.V.DV.07.03.	Basics of social and legal knowledge				GPC-9.1; GPC-9.2; GPC-9.3		
B1.V.DV.07.04	Space technologies at the service of agro-industrial complex						
B1.V.DV.08	Elective disciplines (modules) 8 (DV.8)						
B1.B.ДB.08.01	Diseases of horses						
B1.V.DV.08.02.	Diseases of productive animals						
B1.V.DV.08.03.	Communication workshop						
B1.V.DV.09	Elective disciplines (modules) 9 (DV.9)						
B1.V.DV.09.01	Diseases of small pets						
B1.V.DV.09.02.	Bee diseases and entomophages						
B1.V.DV.09.03.	Fish pathology and aquaculture						
B1.V.DV.09.04	Diseases of exotic animals						
B1.V.DV.10	Elective disciplines (modules) 10 (DV.10)						
B1.V.DV.10.01	Anesthesiology, resuscitation and intensive therapy						
B1.V.DV.10.02.	Dermatology						
B1.V.DV.10.03.	Cardiology						
B1.V.DV.10.04	Endocrinology						
B1.V.DV.10.05.	Nephrology						
B1.V.DV.11	Elective disciplines (modules) 11 (DV.11)						
B1.V.DV.11.01.	Reconstructive and reconstructive surgery						
B1.V.DV.11.02.	Veterinary ophthalmology						

B1.V.DV.11.03.	Animal dentistry						
BLOCK 2.	Practice						
B2.O.01.	Base component		GPC-8.1; GPC-8.2; GPC-8.3; GPC-8.4; GPC-8.5; GPC-8.6	GPC-9.1 ; GPC-9.2 ; GPC-9.3	GPC-9.1; GPC-9.2; GPC-9.3	GPC-11.1; GPC-11.2; GPC-11.3	GPC-12.1; GPC-12.2
B2.O.01.01.01(U)	Training practice		GPC-8.1; GPC-8.2; GPC-8.3; GPC-8.4 GPC-8.5; GPC-8.6;	GPC-9.1 GPC-9.2 GPC-9.3	GPC-9.1; GPC-9.2; GPC-9.3	GPC-11.1; GPC-11.2;GP C-11.3	GPC-12.1; GPC-12.2
B2.O.02.	Variable component						
B2.O.02.01(P).	Medical practice						
B2.V.DV.01	Elective practices (modules) 1 (DV.1)						
B2.V.DV.01.01.01(N)	Industrial practice						
B2.V.DV.01.02(N)	Academic research practice with preparation of scientific qualification project						
Block 3	State final attestation	GPC-7.1; GPC- 7.2; GPC-7.3	GPC-8.1; GPC-8.2 GPC-8.3; GPC-8.4 GPC-8.5; GPC-8.6	GPC-9.1 ; GPC-9.2 ; GPC-9.3	GPC-9.1; GPC-9.2; GPC-9.3	GPC-11.1; GPC-11.2;GP C-11.3	GPC-12.1; GPC-12.2
B3.O.01.	Preparing for and passing the state examination	GPC-7.1; GPC- 7.2; GPC-7.3	GPC-8.1; GPC-8.2; GPC-8.3; GPC-8.4 GPC-8.5; GPC-8.6;	GPC-9.1 GPC-9.2 GPC-9.3	GPC-9.1; GPC-9.2; GPC-9.3	GPC-11.1; GPC-11.2;GP C-11.3	GPC-12.1; GPC-12.2
FTD.	Electives						
FTD.B.01	Russian language for foreign students						
FTD.B.02	Technologies and practice of Python programming for humanities specialties						

Code	Name of disciplines/modules forming competencies of students	GENERAL PROFESSIONAL COMPETENCES						
		OPK-1 Ability to determine the biological status and normative clinical indicators of organs and systems of the animal body.	OPK-2 Ability to interpret and evaluate in professional activity the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal organism.	OPK-3 Ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex.	OPK-4 Ability to use in professional activity methods of problem solving with the use of modern equipment in the development of new technologies and use modern professional methodology to conduct experimental research and interpretation of their results.	OPK-5 Ability to draw up special documentation, analyze the results of professional activity and present reporting documents using specialized databases.	OPK-6 Ability to analyze, identify and perform hazard assessment of the risk of disease emergence and spread.	OPK-7 Able to understand the principles of modern information technologies and use them to solve the problems of professional activity.
BLOCK 1.	Disciplines (modules)							
B1.O	Mandatory part							
B1.O.01.	Base component							
B1.O.01.01	Foundations of Russian statehood							
B1.O.01.02	History of Russia							

B1.O.01.03	History of Religions of Russia							
B1.O.01.04	Philosophy							
B1.O.01.05	Fundamentals of military training. Life safety							
B1.O.01.06	Physical Education							
B1.O.01.07	Animal anatomy	PC-1.1						
B1.O.01.08	Latin					PC-5.2		
B1.O.01.09	Inorganic and analytical chemistry				PC-4.1; PC- 4.3; PC-4.4			
B1.O.01.10	Organic chemistry				PC-4.1; PC- 4.3; PC-4.4			
B1.O.01.11	Jurisprudence			PC-3.1; PC-3.2; PC-3.3				
B1.O.01.12	Biology with the basics of ecology		PC-2.1		PC-4.2; PC- 4.4			
B1.O.01.13.	Biological physics				PC-4.1; PC- 4.3; PC-4.4			
B1.O.01.14	Informatics							PC-7.1
B1.O.01.15	Physical and colloidal chemistry				PC-4.1; PC- 4.3; PC-4.4			
B1.O.01.16	Cytology, histology and embryology							
B1.O.01.17	Biological chemistry				PC-4.1; PC- 4.3; PC-4.4			
B1.O.01.18	Veterinary microbiology and mycology							
B1.O.01.19	Virology and biotechnology							
B1.O.01.20	Animal physiology and ethology	PC-1.1						
B1.O.01.21	Animal breeding with the basics of private zootechnics		PC-2.1					
B1.O.01.22	Animal health and welfare		PC-2.1				PC-	

			PC-2.2; PC-2.3				6.1; PC-6.2	
B1.O.01.23.	Animal feeding with the basics of fodder production		PC-2.1; PC-2.2; PC-2.3					
B1.O.01.24	Pathologic physiology	PC-1.2	PC-6.1					
B1.O.01.25	Veterinary pharmacology							
B1.O.01.26	Clinical diagnosis	PC-3.1, PC-3.4						
B1.O.01.27	Pathologic anatomy							
B1.O.01.28.	Operative surgery with topographical anatomy	PC-1.4						
B1.O.01.29.	Instrumental diagnostic methods / Instrumental diagnostic methods							PC-7.3
B1.O.01.30.	Toxicology							
B1.O.01.31.	Obstetrics, gynecology and andrology							
B1.O.01.32.	Internal non-communicable diseases							
B1.O.01.33.	General Surgery							
B1.O.01.34.	Private veterinary surgery							
B1.O.01.35.	Parasitology and invasive diseases							
B1.O.01.36	Epizootology and infectious diseases						PC- 6.1; PC-6.2	
B1.O.01.37	Veterinary and sanitary expertise						PC-6.3	
B1.O.01.38	Organization of veterinary affairs			PC-3.1; PC-3.2; PC-3.3		PC-5.1; PC-5.2; PC-5.3		PC-7.2; PC-7.4; PC-7.5
B1.O.01.01.DV.01	Foreign language							
B1.O.01.DV.01.01.01	Foreign language							
B1.O.01.DV.01.02	Russian language (as a foreign language)							
B1.O.02.	Variable component							

B1.O.02.01	Russian language and culture of speech							
B1.O.02.02	Math				PC-4.1; PC- 4.2;			
B1.O.02.03	Introduction to the specialty							
B1.O.02.04	Immunology				PC-4.1; PC- 4.3; PC-4.4 -			
B1.O.02.05	Veterinary sanitation							
B1.O.02.06	Technology of animal products processing						PC-6.3	
B1.O.02.07	Veterinary deontology							
B1.O.02.08	Veterinary genetics		PC-2.1				PC- 6.1; PC-6.2	
B1.O.02.09	Veterinary radiobiology							
B1.O.02.10	Forensic veterinary examination and post-mortem examination of animals							
B1.O.02.DV.01.	Foreign language for special purposes							
B1.O.02.DV.01.01.01	Foreign language in professional activity							
B1.O.02.DV.01.02	Russian language (as a foreign language) in professional activities							
B1.V.	Elective disciplines							
B1.V.DV.01	Interdisciplinary module							
B1.B.ДВ.01.01.01.	Disciplines of the interdisciplinary module							
B1.V.DV.02	Applied Physical Education							
B1.V.DV.02.01.	Applied Physical Education							
B1.V.DV.03	Elective disciplines (modules) 3 (DV.3)							
B1.V.DV.03.01	Medicinal and poisonous plants							
B1.V.DV.03.02	Forage plants							

B1.V.DV.03.03.	Fundamentals of professional ethics							
B1.V.DV.04	Elective disciplines (modules) 4 (DV.4)							
B1.V.DV.04.01	Zoopsychology							
B1.V.DV.04.02	Animal health and welfare / Animal health and welfare		PC-2.1; PC-2.2; PC-2.3				PC- 6.1; PC-6.2	
B1.V.DV.05	Elective disciplines (modules) 5 (DV.5)							
B1.V.DV.05.01	Laboratory diagnostics	PC-1.3, PC-1.4						
B1.V.DV.05.02.	Laboratory diagnostics of infectious and invasive diseases	PC-1.3, PC-1.4						
B1.V.DV.06	Elective disciplines (modules) 6 (DV.6)							
B1.B.ДB.06.01	Organization of state veterinary supervision							
B1.V.DV.06.02.	Veterinary and production laboratories with the basics of design				PC-4.1; PC- 4.2			
B1.V.DV.07	Elective disciplines (modules) 7 (DV.7)					PC-5.2; PC-5.3		PC-7.2
B1.B.ДB.07.01	Biometrics in veterinary medicine					PC-5.2; PC-5.3		PC-7.2
B1.V.DV.07.02.	Career management							
B1.V.DV.07.03.	Basics of social and legal knowledge							
B1.V.DV.07.04	Space technologies at the service of agro-industrial complex							
B1.V.DV.08	Elective disciplines (modules) 8 (DV.8)							
B1.B.ДB.08.01	Diseases of horses							
B1.V.DV.08.02.	Diseases of productive animals							
B1.V.DV.08.03.	Communication workshop							

B1.V.DV.09	Elective disciplines (modules) 9 (DV.9)							
B1.V.DV.09.01	Diseases of small pets							
B1.V.DV.09.02.	Bee diseases and entomophages							
B1.V.DV.09.03.	Fish pathology and aquaculture							
B1.V.DV.09.04	Diseases of exotic animals							
B1.V.DV.10	Elective disciplines (modules) 10 (DV.10)							
B1.V.DV.10.01	Anesthesiology, resuscitation and intensive therapy							
B1.V.DV.10.02.	Dermatology							
B1.V.DV.10.03.	Cardiology							
B1.V.DV.10.04	Endocrinology							
B1.V.DV.10.05.	Nephrology							
B1.V.DV.11	Elective disciplines (modules) 11 (DV.11)							
B1.V.DV.11.01.	Reconstructive and reconstructive surgery							
B1.V.DV.11.02.	Veterinary ophthalmology							
B1.V.DV.11.03.	Animal dentistry							
BLOCK 2.	Practice							
B2.O.01.	Base component	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC- 4.2; PC-4.3; PC-4.4			PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
B2.O.01.01.01(U)	Training practice	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC- 4.2; PC-4.3; PC-4.4			PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
B2.O.02.	Variable component	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	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- 6.1; PC- 6.2; PC-6.3	PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
B2.O.02.01(P).	Medical practice	PC-1.1;	PC-2.1;	PC-3.1;	PC-4.1; PC-4.2;	PC-5.1;	PC-6.1;	PC-7.1;

		PC-1.2; PC-1.3; PC-1.4	PC-2.2; PC-2.3	PC-3.2; PC-3.3	PC-4.3; PC-4.4	PC-5.2; PC-5.3	PC- 6.2; PC-6.3	PC-7.2; PC-7.3; PC-7.4; PC-7.5
B2.V.DV.01	Elective practices (modules) 1 (DV.1)	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	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- 6.1; PC- 6.2; PC-6.3	PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
B2.V.DV.01.01.01(N)	Industrial practice	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	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- 6.1; PC- 6.2; PC-6.3	PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
B2.V.DV.01.02(N)	Academic research practice with preparation of scientific qualification project	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	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- 6.1; PC- 6.2; PC-6.3	PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
Block 3	State final attestation		PC-2.1; PC-2.2; PC-2.3	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- 6.1; PC- 6.2; PC-6.3	PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
B3.O.01.	Preparing for and passing the state examination	PC-1.1; PC-1.2; PC-1.3; PC-1.4	PC-2.1; PC-2.2; PC-2.3	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- 6.1; PC- 6.2; PC-6.3	PC-7.1; PC-7.2; PC-7.3; PC-7.4; PC-7.5
FTD.	Electives							
FTD.B.01	Russian language for foreign students							
FTD.B.02	Technologies and practice of Python programming for humanities specialties							

code	Name of disciplines/modules forming competencies of students	PROFESSIONAL COMPETENCIES						
		PC-1 Ability to collect anamnesis of life and health of an animal for further diagnosis and planning of therapeutic and preventive measures.	PC-2 Ability to perform a complete initial clinical examination of an animal to make a preliminary clinical diagnosis(s) and repeat examinations to monitor the patient's condition.	PC-3 Ability to plan measures for differential diagnosis of diseases in a patient.	PC-4 Ability to perform necessary laboratory diagnostics as part of preventive or diagnostic measures	PC-5 Ability and readiness to plan and conduct necessary types of instrumental diagnostics of the patient's condition	PC-6 Ability to make a diagnosis and give a prognosis of the course and spread of the disease based on the data of clinical, laboratory and instrumental diagnostics, as well as additional diagnostic methods.	PC-7 Ability to choose or develop a treatment plan for a patient based on the diagnosis made
BLOCK 1.	Disciplines (modules)							
B1.0	Mandatory part							
B1.0.01.	Base component							
B1.0.01.01	Foundations of Russian statehood							
B1.0.01.02	History of Russia							
B1.0.01.03	History of Religions of Russia							

B1.O.01.04	Philosophy							
B1.O.01.05	Fundamentals of military training. Life safety							
B1.O.01.06	Physical Education							
B1.O.01.07	Animal anatomy					PC-5.4		
B1.O.01.08	Latin							
B1.O.01.09	Inorganic and analytical chemistry							
B1.O.01.10	Organic chemistry							
B1.O.01.11	Jurisprudence							
B1.O.01.12	Biology with the basics of ecology							
B1.O.01.13.	Biological physics							
B1.O.01.14	Informatics							
B1.O.01.15	Physical and colloidal chemistry							
B1.O.01.16	Cytology, histology and embryology					PC-4.2; PC-4.4		
B1.O.01.17	Biological chemistry							
B1.O.01.18	Veterinary microbiology and mycology							
B1.O.01.19	Virology and biotechnology							
B1.O.01.20	Animal physiology and ethology							
B1.O.01.21	Animal breeding with the basics of private zootechnics							

B1.O.01.22	Animal health and welfare							
B1.O.01.23.	Animal feeding with the basics of fodder production							
B1.O.01.24	Pathologic physiology							
B1.O.01.25	Veterinary pharmacology							PC-7.1; PC-7.2
B1.O.01.26	Clinical diagnosis	PC-1.1; PC-1.2; PC-1.3;	PC-2.2; PC-2.3					
B1.O.01.27	Pathologic anatomy						PC-6.1	
B1.O.01.28.	Operative surgery with topographical anatomy							
B1.O.01.29.	Instrumental diagnostic methods / Instrumental diagnostic methods					PC-5.1; PC-5.2; PC-5.3; PC-5.4		
B1.O.01.30.	Toxicology							PC-7.1; PC-7.2
B1.O.01.31.	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.01.32.	Internal non-communicable diseases			PC-3.1; PC-3.2; PC-3.3			PC-6.1; PC-6.2; PC-6.3; PC-6.4	
B1.O.01.33.	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.01.34.	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.01.35.	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.01.36	Epizootology and infectious diseases						PC-6.1; PC-6.2; PC-6.3; PC-6.4	
B1.O.01.37	Veterinary and sanitary expertise							
B1.O.01.38	Organization of veterinary affairs							
B1.O.01.01.D V.01	Foreign language							
B1.O.01.DV.0	Foreign language							

1.01.01								
B1.O.01.DV.01.02	Russian language (as a foreign language)							
B1.O.02.	Variable component							
B1.O.02.01	Russian language and culture of speech							
B1.O.02.02	Math							
B1.O.02.03	Introduction to the specialty							
B1.O.02.04	Immunology							
B1.O.02.05	Veterinary sanitation							
B1.O.02.06	Technology of animal products processing							
B1.O.02.07	Veterinary deontology							
B1.O.02.08	Veterinary genetics							
B1.O.02.09	Veterinary radiobiology							
B1.O.02.10	Forensic veterinary examination and post-mortem examination of animals							
B1.O.02.DV.01.	Foreign language for special purposes							
B1.O.02.DV.01.01.01	Foreign language in professional activity							
B1.O.02.DV.01.02	Russian language (as a foreign language) in professional activities							
B1.V.	Elective disciplines							
B1.V.DV.01	Interdisciplinary module							
B1.B.ДB.01.01.01.	Disciplines of the interdisciplinary module							
B1.V.DV.02	Applied Physical Education							
B1.V.DV.02.01.	Applied Physical Education							
B1.V.DV.03	Elective disciplines (modules) 3							

	(DV.3)							
B1.V.DV.03.01	Medicinal and poisonous plants							
B1.V.DV.03.02	Forage plants							
B1.V.DV.03.03.	Fundamentals of professional ethics							
B1.V.DV.04	Elective disciplines (modules) 4 (DV.4)							
B1.V.DV.04.01	Zoopsychology							
B1.V.DV.04.02	Animal health and welfare / Animal health and welfare							
B1.V.DV.05	Elective disciplines (modules) 5 (DV.5)				PC-4.1; PC-4.2; PC-4.3; PC-4.4			
B1.V.DV.05.01	Laboratory diagnostics				PC-4.1; PC-4.2; PC-4.3; PC-4.4			
B1.V.DV.05.02.	Laboratory diagnostics of infectious and invasive diseases				PC-4.1; PC-4.2; PC-4.3; PC-4.4			
B1.V.DV.06	Elective disciplines (modules) 6 (DV.6)							
B1.B.ДБ.06.01	Organization of state veterinary supervision							
B1.V.DV.06.02.	Veterinary and production laboratories with the basics of design							
B1.V.DV.07	Elective disciplines (modules) 7 (DV.7)							
B1.B.ДБ.07.01	Biometrics in veterinary medicine							
B1.V.DV.07.02.	Career management							
B1.V.DV.07.03.	Basics of social and legal knowledge							

B1.V.DV.07.04	Space technologies at the service of agro-industrial complex							
B1.V.DV.08	Elective disciplines (modules) 8 (DV.8)							
B1.B.ДB.08.01	Diseases of horses	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.08.02.	Diseases of productive animals	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.08.03.	Communicative workshop	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.09	Elective disciplines (modules) 9 (DV.9)							
B1.V.DV.09.01	Diseases of small pets	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.09.02.	Bee diseases and entomophages	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.09.03.	Fish pathology and aquaculture	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.09.04	Diseases of exotic animals	PC-1.1; PC-1.2 PC-1.3;	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.10	Elective disciplines (modules) 10 (DV.10)			PC-3.1; PC-3.2; PC-3.3		PC- 5.2; PC-5.3; PC-5.4		
B1.V.DV.10.01	Anesthesiology, resuscitation and intensive therapy			PC-3.1; PC-3.2; PC-3.3		PC- 5.2; PC-5.3; PC-5.4		
B1.V.DV.10.02.	Dermatology			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4	
B1.V.DV.10.03.	Cardiology			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4	PC-7.2; PC-7.3; PC-7.4	
B1.V.DV.10.04	Endocrinology			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4	PC-7.2; PC-7.3; PC-7.4	
B1.V.DV.10.0	Nephrology			PC-3.1;		PC-5.2; PC-	PC-7.2; PC-7.3;	

5.				PC-3.2; PC-3.3		5.3; PC-5.4		PC-7.4
B1.V.DV.11	Elective disciplines (modules) 11 (DV.11)			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
B1.V.DV.11.01	Reconstructive and reconstructive surgery			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
B1.V.DV.11.02	Veterinary ophthalmology			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
B1.V.DV.11.03	Animal dentistry			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
BLOCK 2.	Practice							
B2.O.01.	Base component	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4			
B2.O.01.01.01 (U)	Training practice	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4			
B2.O.02.	Variable component	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	
B2.O.02.01(P)	Medical practice	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4
B2.V.DV.01	Elective practices (modules) 1 (DV.1)	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4
B2.V.DV.01.01.01(N)	Industrial practice	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4

B2.V.DV.01.0 2(N)	Academic research practice with preparation of scientific qualification project	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4
Block 3	State final attestation	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4
B3.O.01.	Preparing for and passing the state examination	PC-1.1; PC-1.2; PC-1.3;	PC-2.1; PC-2.2; PC-2.3	PC-3.1; PC-3.2; PC-3.3	PC-4.1; PC-4.2; PC-4.3; PC-4.4	PC-5.2; PC-5.2; PC-5.3; PC-5.4	PC-6.1; PC-6.2; PC-6.3; PC-6.4	PC-7.1; PC-7.2; PC-7.3; PC-7.4
FTD.	Electives							
FTD.B.01	Russian language for foreign students							
FTD.B.02	Technologies and practice of programming in Python language for humanities specialties							

code	Name of disciplines/modules forming competencies of students	PROFESSIONAL COMPETENCIES						
		PC-8 Coordinate the treatment plan with the owner of the animal and other participants of the treatment process, adjust it in the course of treatment if necessary, and coordinate changes with the owner of	PC-9 Ability to use methods of operative surgery in the course of prevention, diagnosis and treatment of animal diseases.	PC-10 Ability to analyze and adjust animal feeding to improve the effectiveness of the treatment process, prescribe therapeutic diets.	PC-11 Ability to develop an annual plan of anti-epizootic measures, a plan of prevention of non-communicable animal diseases, a plan of veterinary and sanitary measures, including a plan of preventive immunizations (vaccinations) and	PC-12 Ability to organize and conduct dispensary in animals, both general and specialized.	PC-13 Ability to perform postmortem diagnostic examination of animals in order to establish pathological processes, diseases, cause of death.	PC-14 Readiness to promote veterinary knowledge, including in the field of animal disease prevention
BLOCK 1.	Disciplines (modules)							
B1.0	Mandatory part							
B1.0.01.	Base component							
B1.O.01.01	Foundations of Russian statehood							
B1.O.01.02	History of Russia							
B1.O.01.03	History of Religions of Russia							
B1.O.01.04	Philosophy							
B1.O.01.05	Fundamentals of military training. Life safety							
B1.O.01.06	Physical Education							

B1.O.01.07	Animal anatomy							
B1.O.01.08	Latin							
B1.O.01.09	Inorganic and analytical chemistry							
B1.O.01.10	Organic chemistry							
B1.O.01.11	Jurisprudence							
B1.O.01.12	Biology with the basics of ecology							
B1.O.01.13.	Biological physics							
B1.O.01.14	Informatics							
B1.O.01.15	Physical and colloidal chemistry							
B1.O.01.16	Cytology, histology and embryology							
B1.O.01.17	Biological chemistry							
B1.O.01.18	Veterinary microbiology and mycology							
B1.O.01.19	Virology and biotechnology							
B1.O.01.20	Animal physiology and ethology							
B1.O.01.21	Animal breeding with the basics of private zootechnics							
B1.O.01.22	Animal health and welfare							PC-14.3
B1.O.01.23.	Animal feeding with the basics of fodder production			PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.O.01.24	Pathologic physiology							
B1.O.01.25	Veterinary pharmacology							
B1.O.01.26	Clinical diagnosis							
B1.O.01.27	Pathologic anatomy							PC-14.3
B1.O.01.28.	Operative surgery with topographical anatomy		PC-9.1; PC-9.2; PC-9.3; PC-9.4					

B1.O.01.29.	Instrumental diagnostic methods / Instrumental diagnostic methods							
B1.O.01.30.	Toxicology							
B1.O.01.31.	Obstetrics, gynecology and andrology					PC-12.1; PC- 12.2; PC- 12.3		
B1.O.01.32.	Internal non-communicable diseases					PC-12.1; PC- 12.2; PC- 12.3		
B1.O.01.33.	General Surgery						PC-13.1; PC- 13.2; PC- 13.3	
B1.O.01.34.	Private veterinary surgery					PC-12.1; PC- 12.2; PC- 12.3		
B1.O.01.35.	Parasitology and invasive diseases					PC-12.1; PC- 12.2; PC- 12.3		
B1.O.01.36	Epizootology and infectious diseases					PC-11.1; PC- 11.2; PC- 11.3		
B1.O.01.37	Veterinary and sanitary expertise							
B1.O.01.38	Organization of veterinary affairs							
B1.O.01.01.D V.01	Foreign language							
B1.O.01.DV.0 1.01.01	Foreign language							
B1.O.01.DV.0 1.02	Russian language (as a foreign language)							
B1.O.02.	Variable component							
B1.O.02.01	Russian language and culture of speech							
B1.O.02.02	Math							
B1.O.02.03	Introduction to the specialty							
B1.O.02.04	Immunology							
B1.O.02.05	Veterinary sanitation					PC-11.2;PC-11.3		
B1.O.02.06	Technology of animal products							

	processing							
B1.O.02.07	Veterinary deontology	PC-8.1; PC-8.2; PC- 8.3						
B1.O.02.08	Veterinary genetics							
B1.O.02.09	Veterinary radiobiology							
B1.O.02.10	Forensic veterinary examination and post-mortem examination of animals						PC-13.3; PC-13.4	
B1.O.02.DV.01.	Foreign language for special purposes							
B1.O.02.DV.01.01.01	Foreign language in professional activity							
B1.O.02.DV.01.02	Russian language (as a foreign language) in professional activities							
B1.V.	Elective disciplines							
B1.V.DV.01	Interdisciplinary module							
B1.B.ДB.01.01.01.	Disciplines of the interdisciplinary module							
B1.V.DV.02	Applied Physical Education							
B1.V.DV.02.01.	Applied Physical Education							
B1.V.DV.03	Elective disciplines (modules) 3 (DV.3)			PC-10.1				
B1.V.DV.03.01	Medicinal and poisonous plants			PC-10.1				
B1.V.DV.03.02	Forage plants			PC-10.1				
B1.V.DV.03.03.	Fundamentals of professional ethics							
B1.V.DV.04	Elective disciplines (modules) 4 (DV.4)							PC-14.1
B1.V.DV.04.01	Zoopsychology							PC-14.1
B1.V.DV.04.02	Animal health and welfare / Animal health and welfare							PC-14.3

B1.V.DV.05	Elective disciplines (modules) 5 (DV.5)							
B1.V.DV.05.01	Laboratory diagnostics							
B1.V.DV.05.02.	Laboratory diagnostics of infectious and invasive diseases							
B1.V.DV.06	Elective disciplines (modules) 6 (DV.6)				PC-11.5			
B1.B.ДB.06.01	Organization of state veterinary supervision				PC-11.5			
B1.V.DV.06.02.	Veterinary and production laboratories with the basics of design							
B1.V.DV.07	Elective disciplines (modules) 7 (DV.7)							
B1.V.DV.07.01.	Biometrics in veterinary medicine							
B1.V.DV.07.02.	Career management							
B1.V.DV.07.03.	Basics of social and legal knowledge							
B1.V.DV.07.04	Space technologies at the service of agro-industrial complex							
B1.V.DV.08	Elective disciplines (modules) 8 (DV.8)				PC-10.1; PC-10.2; PC-10.3; PC-10.4			
B1.V.DV.08.01	Diseases of horses				PC-10.1; PC-10.2; PC-10.3; PC-10.4			
B1.V.DV.08.02.	Diseases of productive animals				PC-10.1; PC-10.2; PC-10.3; PC-10.4			
B1.V.DV.08.03.	Communication workshop							
B1.V.DV.09	Elective disciplines (modules) 9 (DV.9)				PC-10.1; PC-10.2; PC-10.3; PC-10.4			

B1.V.DV.09.01	Diseases of small pets			PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.V.DV.09.02.	Bee diseases and entomophages			PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.V.DV.09.03.	Fish pathology and aquaculture			PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.V.DV.09.04	Diseases of exotic animals			PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.V.DV.10	Elective disciplines (modules) 10 (DV.10)		PC-9.1					
B1.B.ДВ.10.01	Anesthesiology, resuscitation and intensive therapy		PC-9.1					
B1.V.DV.10.02.	Dermatology							
B1.V.DV.10.03.	Cardiology							
B1.V.DV.10.04	Endocrinology							
B1.V.DV.10.05.	Nephrology							
B1.V.DV.11	Elective disciplines (modules) 11 (DV.11)		PC-9.1					
B1.V.DV.11.01.	Reconstructive and reconstructive surgery		PC-9.1					
B1.V.DV.11.02.	Veterinary ophthalmology		PC-9.1					
B1.V.DV.11.03.	Animal dentistry		PC-9.1					
BLOCK 2.	Practice							
B2.O.01.	Base component							
B2.O.01.01.01 (U)	Training practice							

B2.O.02.	Variable component						PC-13.1; PC-13.2; PC-13.3; PC-13.4;	PC-14.1; PC- 14.2; PC-14.3
B2.O.02.01(P).	Medical practice	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	PC-13.1; PC-13.2; PC-13.3; PC-13.4	PC-14.1; PC- 14.2; PC-14.3
B2.V.DV.01	Elective practices (modules) 1 (DV.1)	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	PC-13.1; PC-13.2; PC-13.3; PC-13.4	PC-14.1; PC- 14.2; PC-14.3
B2.V.DV.01.0 1.01(N)	Industrial practice	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	PC-13.1; PC-13.2; PC-13.3; PC-13.4	PC-14.1; PC- 14.2; PC-14.3
B2.V.DV.01.0 2(N)	Academic research practice with preparation of scientific qualification project	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	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 attestation	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	PC-13.1; PC-13.2; PC-13.3; PC-13.4	PC-14.1; PC- 14.2; PC-14.3
B3.O.01.	Preparing for and passing the state examination	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	PC-13.1; PC-13.2; PC-13.3; PC-13.4	PC-14.1; PC- 14.2; PC-14.3
FTD.	Electives							
FTD.B.01	Russian language for foreign students							
FTD.B.02	Technologies and practice of Python programming for humanities specialties							