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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
Protocol No. 1

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

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)

Federal State Educational Standard of Higher Education, approved by Order of the Ministry of Education and Science of Russian Federation No. _____ dated _____
(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)

Program Objective: To train highly qualified, competitive, and innovation-oriented specialists in the field of veterinary medicine.

The program is aimed at forming a modern veterinary professional capable of performing professional tasks related to ensuring veterinary welfare of animals and humans in various professional settings, including industrial or farm-based livestock production, veterinary clinics, veterinary laboratories, and scientific and research-production institutions.

Graduates of the program possess personal qualities such as responsibility for results, motivation to acquire and master professional knowledge, and a commitment to personal and professional growth and development. During their studies in a multinational environment, students develop social and communication skills, acquire the ethical and moral foundations of their future professional activities, and learn to apply general and professional knowledge for socially significant, safe, and effective activities in accordance with the legal and regulatory frameworks of their country and the global community.

The development of general professional competencies in accordance with the requirements of the RUDN University Higher Education Standard / Federal State Educational Standard of Higher Education (FSES HE) enables graduates to flexibly build their professional careers in response to labor market demands, both within their primary specialization and at the intersection of different fields of professional activity.

The formation and development of professional competencies, taking into account the student's interests and future career trajectory, allow students to become in-demand specialists in their field already during their studies.

2. EDUCATIONAL PROGRAMME RELEVANCE, SPECIFICITY, AND UNIQUENESS

The program trains veterinary specialists capable of treating both small and large animals, productive and non-productive animals (including companion animals, zoo animals, and wildlife). The fundamental knowledge acquired by students during the first three years of the program enables them to subsequently choose any direction for their professional development. Through specialized disciplines, the program establishes the foundation for the graduates' further postgraduate specialized development.

The duration of study is **5 years** in the full-time mode and **5 years and 6 months** in the part-time (evening) mode.

The total workload of the specialist degree program is **300 credit units (hereinafter – CU)** regardless of the form of study, the educational technologies used, or the implementation of the program under an individual study plan.

The workload of the program implemented within one academic year shall not exceed **70 CU**, regardless of the form of study, the educational technologies used, or the implementation of the program under an individual study plan (except for accelerated study). In the case of accelerated study, the workload shall not exceed **80 CU** per academic year.

A distinctive feature of the **36.05.01 “Veterinary Medicine” educational program at the Agrarian and Technological Institute of RUDN University** is the unique combination of profound fundamental knowledge obtained at RUDN University and

modern approaches to practical veterinary treatment, which students acquire through training sessions, internships, and placements conducted at partner enterprises.

Students have the opportunity, already from the early years of study, to choose the direction of their scientific and/or professional development and focus more on those scientific and practical areas that will become the core of their future profession. Particular attention is given to student participation in the development and testing of innovative veterinary practice methods at 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 degree program in 36.05.01 Veterinary Medicine includes:

01 Education and Science (in the field of professional training, professional education and additional professional education, as well as in the field of scientific research),

13 Agriculture (in the fields of preservation and maintenance of animal health; prevention and treatment of all types of animals, including poultry, bees, fish and aquatic organisms; improvement of productive qualities of animals; veterinary supervision; forensic veterinary examination and veterinary and sanitary inspection).

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

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

Graduates may hold a wide range of positions, including veterinary doctor; veterinary consultant; veterinary laboratory specialist; chief veterinary doctor of a veterinary clinic or veterinary enterprise; head of a veterinary pharmacy or laboratory; quality control specialist for veterinary products; sales representative for veterinary pharmaceuticals and veterinary products; sanitary service specialist; veterinary medicinal product registration specialist;

manager of the scientific communications department working with zoo-business professionals (trainer, lecturer); cynologist; research scientist, etc.

4. SPECIAL REQUIREMENTS FOR POTENTIAL APPLICANTS

A prospective applicant to the educational program must have an educational level not lower than **secondary general education**.

Characteristics of entrance examinations: a written examination in the form of the **Unified State Examination (USE)** in the following subjects: biology, Russian language, and mathematics / physics / chemistry / foreign language. The results of academic competitions (Olympiads) and other individual achievements are also taken into account.

Admission to the University for study under the specialist degree program based on entrance examinations conducted by the University is available for the following categories of applicants:

- applicants with **secondary vocational education**;
- applicants with **secondary general or vocational education obtained in educational institutions of foreign countries**.

5. FEATURES OF EDUCATIONAL PROGRAMME IMPLEMENTATION

5.1. The Educational Programme is implemented **with elements of e-learning and distance learning technologies**.

5.2. The language of the Educational Programme implementation is **English**.

5.3. The Educational Programme **may be adapted for education of persons with disabilities and persons with limited health abilities**. The elements of e-learning and distance learning technologies used in the education of persons with disabilities and persons with limited health abilities provide the possibility of receiving and transmitting information in forms accessible to them.

5.4. The Educational Programme is implemented by the Federal State Autonomous Educational Institution of Higher Education **“Peoples’ Friendship University of Russia (RUDN University)”**.

Information about partner organisations involved in the implementation of the Educational Programme:

Name of partner organisation	Interaction functionality
State Budgetary Institution of the City of Moscow “Moscow Veterinary Association”	Scientific research activities, internships and practical training, organization of joint career guidance events and professional skills competitions.
Federal State Budgetary Institution “All-Russian State Centre for Quality and Standardization of Medicinal Products for Animals and Feed”	Scientific research activities.
Federal State Budgetary Scientific Institution “V.M. Gorbatov Federal Research Center for Food Systems of the Russian Academy of Sciences”	Scientific research activities, joint educational events, practical training.
Federal State Budgetary Institution “Central Scientific and Methodological Veterinary”	Scientific research activities, joint educational events, practical training.

Name of partner organisation	Interaction functionality
Laboratory”	
Federal State Budgetary Educational Institution of Higher Education “ K.I. Skryabin Moscow State Academy of Veterinary Medicine and Biotechnology ”	Scientific research activities, joint educational events, practical training.
Federal State Budgetary Scientific Institution “ All-Russian Research Veterinary Institute of Pathology, Pharmacology and Therapy ”	Scientific research activities, joint educational events, practical training.
Federal State Budgetary Institution “ National Medical Research Center of Radiology ” of the Ministry of Health of the Russian Federation	Scientific research activities, joint educational events.
LLC “ VetZdorovye ” / MEDVET	Scientific research activities, student practical training and internships, joint educational events.
LLC “ Veterinary Clinic of the Equestrian Sports Complex ‘Novy Vek’ ”	Scientific research activities, student practical training and internships, joint educational events.
LLC “ IVC MBA Veterinary Reference Center ”	Scientific research activities, student practical training and internships, 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 (<i>organisation name and location</i>)
Practical Training (Introductory, Field-Based):	State Autonomous Cultural Institution “ Moscow State Zoological Park ” LLC “ VetZdorovye ” / LLC “ MedVet ”, Moscow and Moscow Region LLC “ Veterinary Clinic of the Equestrian Sports Complex ‘Novy Vek’ ”, Moscow Region JSC “ Lenin State Farm ”, Moscow Region LLC “ IVC MBA Veterinary Reference Center ”, Moscow LLC “ RADENIS ”, Moscow Region LLC “ AMVET ”, Moscow Federal State Budgetary Institution “ Federal Centre for Animal Health ”, Vladimir
Industrial (Professional) Practical Training (Clinical, Technological, Pre-Diploma, Field-Based):	LLC “ VetZdorovye ” / LLC “ MedVet ” LLC “ Veterinary Clinic ZooAcademy ” LLC “ Bely Klyk-M ” LLC “ Biocontrol ” LLC “ Veterinary Center ‘Otrada’ ” LLC “ Veterinary Clinic ‘Odivet’ ” ... and many others.

* The section should indicate the type (introductory/advanced field internship), the kind (orientation, technological, research, pre-graduate, etc.), and the mode (intramural/ extramural) of internship.

6. CHARACTERISTICS OF EDUCATIONAL PROGRAMME GRADUATE'S PROFESSIONAL ACTIVITIES

6.1. The field(s) of professional activities of the Educational Programme graduate, where he/she can carry out his/her professional activities include:

01 Education and Science (in the field of professional training, professional education and additional professional education, as well as in the field of scientific research),

13 Agriculture (in the fields of preservation and maintenance of animal health; prevention and treatment of all types of animals, including poultry, bees, fish and aquatic organisms; improvement of productive qualities of animals; veterinary supervision; forensic veterinary examination and veterinary and sanitary inspection).

Graduates may carry out professional activities in other fields of professional activity and/or spheres of professional activity, provided that the level of their education and the acquired competencies meet the qualification requirements for the respective positions.

6.2. The type(s) of professional activities tasks which the graduate is trained to solve when mastering the Educational Programme include:

- clinical (veterinary medical);
- expert and control;
- scientific and educational.

6.3. The list of generalised labour functions and labour functions related to the professional activities of the Educational Programme graduate, in accordance with which the programme has been developed*.

Code and title of occupational standard	Generalised labour functions			Labour functions		
	Code	Title	Qualification level	Type	Code	Qualification level (sublevel)
141 Worker in the field of veterinary medicine (type of professional activity – ensuring veterinary welfare of animals and humans; OKZ code – 2250 Veterinary Doctors; OKVED code – Veterinary activities)	G	Provision of veterinary care to animals of all types	7	Conducting clinical examination of animals in order to establish a diagnosis	G/01.7	7
				Carrying out measures for the treatment of sick animals	G/02.7	7
				Management of a system of measures to prevent the occurrence of contagious, infectious and invasive animal diseases in order to ensure sustainable animal health	G/03.7	7

* The wording of labour functions is taken from the relevant Occupational Standards.

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. Ability to carry out critical analysis of problem situations based on a systems approach and develop a strategy for action.	GC-1.1. Analyzes the task by identifying its basic components; GC-1.2. Determines and ranks the information required to solve the task; GC-1.3. Searches for information to solve the task using various types of queries; GC-1.4. Proposes possible solutions and analyzes the potential consequences of their implementation; GC-1.5. Analyzes ways of solving worldview, moral and personal problems using the main philosophical ideas and categories in their historical development and socio-cultural context.
GC-2. Ability to manage a project at all stages of its life cycle.	GC-2.1. Formulates a problem whose solution is directly related to achieving the project goal; GC-2.2. Determines the relationships between tasks and the expected results of their solution; GC-2.3. Identifies available resources, constraints and applicable legal regulations within the assigned tasks; GC-2.4. Analyzes the project schedule and selects the optimal way to accomplish the tasks considering legal norms, available resources and constraints; GC-2.5. Monitors project implementation and adjusts the schedule according to monitoring results.
GC-3. Ability to organize and lead a team, developing a team strategy to achieve the set goal.	GC-3.1. Determines his/her role in the team based on the cooperation strategy for achieving the goal; GC-3.2. Identifies and considers behavioral characteristics of groups depending on the set goal; GC-3.3. Analyzes possible consequences of personal actions and plans actions to achieve the required result; GC-3.4. Exchanges information, knowledge and experience with team members; GC-3.5. Substantiates his/her viewpoint regarding the use of ideas of other team members to achieve the goal; GC-3.6. Participates in teamwork to accomplish assigned tasks.
GC-4. Ability to communicate in interpersonal and intercultural interaction in Russian as a foreign language and foreign language(s) based on mastery of interconnected receptive and productive language activities (listening, speaking, reading, writing and translation) in everyday, socio-cultural, educational-	GC-4.1. Chooses the style of business communication depending on the language of communication, purpose and conditions of interaction; GC-4.2. Adapts speech, communication style and body language to interaction situations; GC-4.3. Searches for information necessary to solve standard communication tasks in Russian and foreign languages; GC-4.4. Translates 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 stylistic features of formal and informal letters and sociocultural differences; GC-4.6. Uses dialogue for cooperation in academic communication considering communicative strategies, tactics and the level of

Code and descriptor of generic competence	Code and competence level indicator
professional, official-business and scientific communication.	formality; GC-4.7. Forms and substantiates personal evaluation of key ideas expressed in dialogue (discussion) in accordance with the needs of joint activities.
GC-5. Ability to analyze and take into account cultural diversity in the process of intercultural interaction.	GC-5.1. Interprets the history of Russia in the context of global historical development; GC-5.2. Finds and uses information about cultural features and traditions of different social groups in social and professional communication; GC-5.3. Considers historical heritage and socio-cultural traditions of various social groups, ethnicities and confessions including world religions and philosophical teachings; GC-5.4. Collects information on the given topic considering ethnic and confessional diversity in research locations; GC-5.5. Justifies features of project and teamwork with representatives of other ethnic groups and/or confessions; GC-5.6. Adheres to principles of non-discriminatory interaction in personal and public communication.
GC-6. Ability to determine and implement priorities of personal activity and ways of its improvement based on self-assessment and lifelong learning.	GC-6.1. Controls the amount of time spent on specific activities; GC-6.2. Develops tools and methods of time management for tasks, projects and goals; GC-6.3. Analyzes personal resources and their limits (personal, situational, time-related, etc.); GC-6.4. Finds and uses additional information sources to improve general and professional knowledge; GC-6.5. Analyzes opportunities and tools of lifelong learning in accordance with personal interests and labour market requirements; GC-6.6. Defines self-development objectives and professional growth priorities; GC-6.7. Distributes tasks into long-, medium- and short-term.
GC-7. Ability to maintain an adequate level of physical fitness to ensure full social and professional activity.	GC-7.1. Selects health-preserving technologies considering physiological characteristics of the body; GC-7.2. Plans work and leisure time to balance physical and mental workload; GC-7.3. Observes and promotes principles of a healthy lifestyle in everyday life and professional activity.
GC-8. Ability to create and maintain safe living conditions in everyday life and professional activities to preserve the environment and ensure sustainable development of society, including in emergency situations and military conflicts.	GC-8.1. Analyzes harmful environmental factors affecting human activity; GC-8.2. Identifies hazardous and harmful factors in performed tasks; GC-8.3. Identifies and eliminates workplace safety violations; GC-8.4. Explains measures for emergency prevention; GC-8.5. Explains rules of conduct in natural, technological emergencies and military conflicts; GC-8.6. Provides first aid and participates in recovery activities.
GC-9. Ability to use basic defectology knowledge in social and professional activities.	GC-9.1. Demonstrates understanding of principles of non-discriminatory communication considering psychological characteristics of persons with disabilities; GC-9.2. Plans and carries out professional activities with persons

Code and descriptor of generic competence	Code and competence level indicator
	with disabilities; GC-9.3. Interacts with persons with disabilities in social and professional environments.
GC-10. Ability to make informed economic decisions in various areas of life.	GC-10.1. Understands basic principles of economic functioning and development and the role of the state in the economy; GC-10.2. Applies methods of personal financial planning to achieve short- and long-term goals; GC-10.3. Uses financial instruments to manage personal finances and control economic risks.
GC-11. Ability to develop intolerance towards corruption behavior.	GC-11.1. Analyzes legal regulations ensuring anti-corruption measures and prevention mechanisms; GC-11.2. Plans and implements activities promoting civic responsibility and preventing corruption; GC-11.3. Observes legal norms and principles of intolerance to corruption in social interaction.
GC-12. Ability to search for information sources and data, perceive, analyze, store and transmit information using digital tools and algorithms for effective problem solving and evaluation of information reliability.	GC-12.1. Searches, analyzes and processes information from various sources using digital technologies and algorithms; GC-12.2. Evaluates information reliability and draws logical conclusions based on incoming data.

7.2. Upon completion of the Educational Programme, the graduate is expected to acquire the following general professional competences (GPCs):

Code and descriptor of general professional competence	Code and competence level indicator
GPC-1. Ability to determine the biological status and normative clinical indicators of organs and systems of the animal organism.	GPC-1.1. Knows the structure and functions of the main body systems of animals taking into account species-specific features; GPC-1.2. Is able to predict expected disturbances of biological status when the development of diseases is suspected; GPC-1.3. Is able to determine the main indicators of the functioning of individual body systems and draw conclusions about deviations from normative values; GPC-1.4. Possesses skills in sampling biological fluids and tissues for research, conducting laboratory tests and interpreting research results.
GPC-2. Ability to interpret and assess the influence of natural, socio-economic, genetic and economic factors on the physiological state of animals in professional activities.	GPC-2.1. Possesses knowledge about the influence of natural, socio-economic, genetic and economic factors on the animal organism; GPC-2.2. Is able to establish the presence and reliability of cause-and-effect relationships between the impact of individual etiological factors on the animal organism and the development of diseases; GPC-2.3. Possesses methods of preventive and therapeutic correction of adverse environmental factors that may cause deterioration of animal health.
GPC-3. Ability to carry out and improve	GPC-3.1. Knows modern legal regulations, both national and international, governing activities in veterinary medicine, veterinary

Code and descriptor of general professional competence	Code and competence level indicator
professional activities in accordance with regulatory legal acts in the field of the agro-industrial complex.	and sanitary expertise and the agro-industrial complex; GPC-3.2. Possesses skills in updating legal information, including in the agro-industrial complex; GPC-3.3. Carries out activities in accordance with regulatory legal acts in the agro-industrial complex, as well as in the field of veterinary medicine and veterinary and sanitary expertise.
GPC-4. Ability to use methods for solving professional tasks with modern equipment when developing new technologies and to apply modern professional methodology for conducting experimental research and interpreting its results.	GPC-4.1. Possesses the conceptual and methodological apparatus of basic natural sciences sufficient for professional activity at a modern level; GPC-4.2. Possesses methods for solving tasks using modern equipment; GPC-4.3. Is ready to apply modern methodology in the development and implementation of experimental research; GPC-4.4. Uses modern professional methodology in the interpretation of research results.
GPC-5. Ability to prepare professional documentation, analyze the results of professional activity and present reporting documents using specialized databases.	GPC-5.1. Possesses skills for searching necessary documentation forms on official websites and in specialized databases; GPC-5.2. Possesses professional terminology and skills in preparing analytical and reporting documentation of a professional nature; GPC-5.3. Is able to use specialized software for analyzing the results of professional activity and preparing reporting documentation.
GPC-6. Ability to analyze, identify and assess the risk of occurrence and spread of diseases.	GPC-6.1. Possesses knowledge in the field of etiology and pathogenesis of diseases in animals of different species; GPC-6.2. Knows the patterns of occurrence and spread of diseases in animal populations, predisposing factors and causes of possible complications; GPC-6.3. Assesses risks of the influence of human economic activity on the spread of animal and human diseases.
GPC-7. Ability to understand the principles of operation of modern information technologies and use them to solve professional tasks.	GPC-7.1. Understands the principles of operation of modern computer equipment and telecommunications tools and is able to use them to solve professional tasks; GPC-7.2. Uses modern specialized software and databases to solve professional tasks and perform professional duties; GPC-7.3. Possesses skills in operating modern medical diagnostic and therapeutic equipment with software support; GPC-7.4. Uses specialized databases for solving professional tasks in the field of diagnosis and treatment of animals of different species; GPC-7.5. Uses geographic information systems and software tools when collecting and analyzing information related to the spread of infectious diseases, epizootic situations and planning and evaluating anti-epizootic measures.

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. Ability to collect the life and medical history of an animal for further diagnosis and planning of therapeutic and preventive measures.	<p>PC-1.1. Collects information on the animal's life history, including scheduled vaccinations, deworming and other preventive treatments.</p> <p>PC-1.2. Collects information on previous diseases, surgical interventions, existing chronic diseases and ongoing therapy.</p> <p>PC-1.3. Collects information on changes in the animal's condition during the course of disease, diagnostic and therapeutic procedures performed, medications used and physiotherapy methods.</p>	<p>Occupational Standard 141 — Veterinary Specialist (Type of professional activity — Ensuring veterinary welfare of animals and humans, code 13.012) OKZ code — 2250 Veterinary Doctors</p>
PC-2. Ability to perform a complete primary clinical examination of an animal to establish a preliminary clinical diagnosis and repeated examinations to monitor the patient's condition.	<p>PC-2.1. Complies with the techniques and procedures of clinical examination taking into account the animal species and its condition.</p> <p>PC-2.2. Identifies signs (symptoms) of deviations from normal function and recognizes standard combinations of signs (syndromes).</p> <p>PC-2.3. Records examination results in the patient's medical record or other medical documentation.</p> <p>PC-2.4. Assesses the initial degree of clinical symptom manifestation and its changes during patient supervision.</p>	
PC-3. Ability to plan differential diagnostic procedures for diseases in a patient.	<p>PC-3.1. Systematizes information on symptoms/syndromes of the disease and forms a list of preliminary diagnoses for confirmation or exclusion.</p> <p>PC-3.2. Uses ready-made or develops a specific differential diagnostic algorithm considering the capabilities of the medical institution.</p> <p>PC-3.3. Uses diagnostic results to establish a final diagnosis and adjust previously established diagnoses if necessary.</p>	
PC-4. Ability to perform necessary laboratory diagnostics within preventive or diagnostic procedures.	<p>PC-4.1. Knows modern laboratory diagnostic methods, their purpose, pre-analytical features and interpretation of results.</p> <p>PC-4.2. Selects the necessary type of laboratory diagnostics based on knowledge of basic biological disciplines.</p> <p>PC-4.3. Performs laboratory tests using modern diagnostic equipment.</p> <p>PC-4.4. Interprets diagnostic results and applies them to solve professional tasks.</p>	
PC-5. Ability and readiness to plan and perform	PC-5.1. Possesses knowledge of modern instrumental diagnostic methods, their application, indications, possible complications and contraindications.	

Code and descriptor of professional competence	Code and competence level indicator	Code and title of occupational standard for relevant PC
necessary instrumental diagnostic procedures.	PC-5.2. Selects an appropriate and sufficient set of instrumental diagnostic methods for solving professional tasks. PC-5.3. Performs instrumental diagnostics of animal diseases. PC-5.4. Interprets diagnostic results and applies them to professional tasks.	
PC-6. Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	PC-6.1. Possesses knowledge of manifestations of infectious, parasitic, internal non-infectious, surgical, gynecological and other animal diseases. PC-6.2. Uses methods for establishing a comprehensive diagnosis based on medical history, clinical examination and diagnostic studies. PC-6.3. Applies methods for predicting the course and outcome of treatment considering accompanying diagnoses and complicating factors. PC-6.4. Assesses risks of disease spread.	
PC-7. Ability to select or develop a treatment plan for a patient based on the established diagnosis.	PC-7.1. Selects necessary veterinary medicinal products according to evidence-based medicine principles and pharmacological effects. PC-7.2. Determines optimal route of administration, dosage, frequency and duration of treatment. PC-7.3. Selects non-drug treatment methods, including physiotherapy. PC-7.4. Develops a treatment plan and criteria for monitoring treatment effectiveness.	
PC-8. Ability to coordinate the treatment plan with the animal owner and other participants in the treatment process and adjust it if necessary.	PC-8.1. Explains the selected treatment plan to the animal owner and obtains consent for treatment. PC-8.2. Communicates with the owner regarding changes in the patient's condition and treatment outcomes. PC-8.3. Explains treatment adjustments to the owner and medical personnel when changes occur.	
PC-9. Ability to apply surgical methods in the prevention, diagnosis and treatment of animal diseases.	PC-9.1. Selects the necessary surgical method, including anesthesia methods if required. PC-9.2. Plans preoperative preparation, surgical procedure and postoperative management. PC-9.3. Performs basic preventive, diagnostic and therapeutic surgical procedures independently. PC-9.4. Monitors surgical outcomes.	
PC-10. Ability to analyze and adjust animal feeding to improve treatment effectiveness and prescribe	PC-10.1. Analyzes the animal's diet to identify factors contributing to disease development. PC-10.2. Justifies the use of therapeutic feeding for different diseases. PC-10.3. Recommends composition of therapeutic diets and nutrient balance.	

Code and descriptor of professional competence	Code and competence level indicator	Code and title of occupational standard for relevant PC
therapeutic diets.	PC-10.4. Uses specialized software and databases for diet formulation.	
PC-11. Ability to develop annual anti-epizootic, preventive and veterinary-sanitary plans.	PC-11.1. Conducts epizootological assessment of enterprises or territories. PC-11.2. Develops annual anti-epizootic and preventive programs. PC-11.3. Develops vaccination plans considering epizootic conditions. PC-11.4. Organizes preventive treatments according to epizootic control plans. PC-11.5. Evaluates the effectiveness of preventive measures.	
PC-12. Ability to organize and conduct veterinary health monitoring (dispensary observation) of animals.	PC-12.1. Develops a veterinary health monitoring plan. PC-12.2. Organizes and conducts veterinary health monitoring procedures. PC-12.3. Provides recommendations for preventive and therapeutic measures.	
PC-13. Ability to conduct post-mortem diagnostic examination of animals.	PC-13.1. Conducts external examination of animal carcasses before necropsy. PC-13.2. Performs necropsy using appropriate instruments and safety procedures. PC-13.3. Establishes the cause of death and pathological diagnosis. PC-13.4. Documents necropsy results in a post-mortem examination report.	
PC-14. Readiness to promote veterinary knowledge, including prevention of animal diseases.	PC-14.1. Analyzes problems affecting animal health and welfare and defines educational goals. PC-14.2. Uses computer and telecommunication technologies for educational materials. PC-14.3. Conducts lectures, seminars and educational discussions.	
PC-15. Ability to organize preventive measures aimed at counteracting the spread of extremist ideologies, including terrorism and neo-Nazism.	PC-15.1. Defines forms and content of preventive work according to regulatory acts. PC-15.2. Organizes and conducts preventive activities in educational and social environments.	

*The Educational Programme's developer formulates the PC, taking into account the requirements of occupational standards and the Educational Programme field of study.

8. MATRIX OF COMPETENCES that students acquire when mastering the Educational Programme in the speciality 36.05.01 Veterinary Medicine

Code	Courses/modules that form students' competences	GENERIC COMPETENCES					
		GC-1. Ability to carry out critical analysis of problem situations based on a systems approach and develop a strategy for action.	GC-2. Ability to manage a project at all stages of its life cycle.	GC-3. Ability to organize and lead a team, developing a team strategy to achieve the set goal.	GC-4. Ability to communicate in interpersonal and intercultural interaction in Russian as a foreign language and foreign language(s) based on mastery of interconnected receptive and productive language activities (listening, speaking, reading, writing and translation) in everyday, socio-cultural, educational-professional, official-business and scientific communication.	GC-5. Ability to analyze and take into account cultural diversity in the process of intercultural interaction.	GC-6. Ability to determine and implement priorities of personal activity and ways of its improvement based on self-assessment and lifelong learning.
Block 1.	Disciplines (modules)						
B1.O	Mandatory part						
B1.O.01	Core component						
B1.O.01.01	History of Russia					GC-5.1; GC-5.2;	

						GC-5.3; GC-5.4	
B1.O.01.02	Maths	GC-1.1; GC-1.2; GC-1.3					
B1.O.01.03	History of Religions in Russia					GC-5.1; GC-5.2; GC-5.3; GC-5.4	
B1.O.01.04	Fundamentals of Russian Statehood					GC-5.1; GC-5.2; GC-5.3; GC-5.4	
B1.O.01.05	Basic Military Training. Life Safety						
B1.O.01.06	Digital Literacy	GC-1.3					
B1.O.01.07	Law Science	GC-2.3					
B1.O.01.08	Philosophy	GC-1.1; GC-1.2; GC-1.4; GC-1.5					
B1.O.01.09	Physical Education						
B1.O.01.10	Inorganic and Analytical Chemistry						
B1.O.01.11	Organic Chemistry						
B1.O.01.12	Biology with Basic Ecology						
B1.O.01.13	Biophysics						
B1.O.01.14	Physical and Colloidal Chemistry						
B1.O.01.15	Biological Chemistry						
B1.O.01.16	Anatomy of Animals						
B1.O.01.17	Latin language						
B1.O.01.18	Cytology, Histology and Embryology						
B1.O.01.19	Veterinary Microbiology and Mycology						
B1.O.01.20	Virology and Biotechnology						
B1.O.01.21	Physiology and Ethology of Animals						
B1.O.01.22	Animal Breeding with Basics of Private Husbandry						

B1.O.01.23	Animal Health and Welfare						
B1.O.01.24	Animal Nutrition and Feeding with Basics of Feed Production						
B1.O.01.25	Pathologic Physiology						
B1.O.01.26	Veterinary Pharmacology						
B1.O.01.27	Clinical Diagnostics						
B1.O.01.28	Pathological Anatomy						
B1.O.01.29	Operative Surgery with Topographic Anatomy						
B1.O.01.30	Instrumental Diagnostic Methods with Elements of Artificial Intelligence Technology						
B1.O.01.31	Toxicology						
B1.O.01.32	Obstetrics, Gynecology and Andrology						
B1.O.01.33	Internal Diseases						
B1.O.01.34	General Surgery						
B1.O.01.35	Private Surgery						
B1.O.01.36	Parasitology and Invasive Diseases						
B1.O.01.37	Epidemiology and Infectious Diseases						
B1.O.01.38	Veterinary and Sanitary Expertise						
B1.O.01.39	Organization of Veterinary Management with the Basics of Project Activities						
B1.O.01.DV.01	Foreign Language				GC-4.1; GC-4.2; GC-4.3		
B1.O.01.DV.01.01	Foreign Language				GC-4.1; GC-4.2; GC-4.3		
B1.O.01.DV.01.02	Russian as a Foreign Language				GC-4.1; GC-4.2; GC-4.3		
B1.O.02	Variable component						
B1.O.02.01	Russian Language and Culture of Speech			GC-3.4; GC-3.5			
B1.O.02.02	Introduction to Specialty		GC-2.1;	GC-3.1;			GC-6.1;

			GC-2.2; GC-2.3	GC-3.2; GC-3.3; GC-3.6			GC-6.2; GC-6.3; GC-6.4; GC-6.5; GC-6.6; GC-6.7
B1.O.02.03	Political science			GC-3.1; GC-3.2; GC-3.3			
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					GC-5.5; GC-5.6	
B1.O.02.08	Laboratory Diagnostics with Elements of Artificial Intelligence Technology						
B1.O.02.09	Organization of State Veterinary Supervision						
B1.O.02.10	Veterinary Genetics						
B1.O.02.11	Veterinary Radiobiology						
B1.O.02.12	Forensic Veterinary Examination and Necropsy						
B1.O.02.13	Biometrics, Biostatistics and Data Analysis in Veterinary Medicine						
B1.O.02.14	Агроэкология						
B1.O.02.DV.01	Professional Foreign Language				GC-4.1; GC-4.2; GC-4.4; GC-4.5; GC-4.6; GC-4.7		
B1.O.02.DV.01.01	Professional Foreign Language				GC-4.1; GC-4.2; GC-4.4; GC-4.5; GC-4.6; GC-4.7		

B1.O.02.DV.01.02	Professional Russian Language				GC-4.1; GC-4.2; GC-4.5		
Part formed by participants of educational relations							
B1.V.DV.01	Applied Physical Education						
B1.V.DV.01.01	Applied Physical Education						
B1.V.DV.02	Interdisciplinary Module	GC-1.1; GC-1.2; GC-1.3; GC-1.4; GC-1.5					GC-6.1; GC-6.2; GC-6.3; GC-6.4; GC-6.5; GC-6.6; GC-6.7
B1.V.DV.02.01	Disciplines of the Interdisciplinary Module	GC-1.1; GC-1.2; GC-1.3; GC-1.4; GC-1.5					GC-6.1; GC-6.2; GC-6.3; GC-6.4; GC-6.5; GC-6.6; GC-6.7
B1.V.DV.03	Elective disciplines 1 (1 из 2)						
B1.V.DV.03.01	Medicinal and Poisonous Plants						
B1.V.DV.03.02	Fodder Plants						
B1.V.DV.04	Elective disciplines 2 (1 из 2)						
B1.V.DV.04.01	Zoopsychology						
B1.V.DV.04.02	Здоровье и благополучие животных / Animal Health and Welfare						
B1.V.DV.05	Elective disciplines 3 (1 из 2)						
B1.V.DV.05.01	Veterinary Assistant Skills						
B1.V.DV.05.02	Fish Pathology and Aquaculture						
B1.V.DV.06	Elective disciplines 4 (1 из 2)						
B1.V.DV.06.01	Equine Diseases						
B1.V.DV.06.02	Diseases of Farm Animals						
B1.V.DV.07	Elective disciplines 5 (1 из 3)						
B1.V.DV.07.01	Small Animal Diseases						

B1.V.DV.07.02	Bee Diseases and Entomophages						
B1.V.DV.07.03	Exotic Animal Diseases						
B1.V.DV.08	Elective disciplines 6 (1 из 6)						
B1.V.DV.08.01	Dermatology						
B1.V.DV.08.02	Cardiology						
B1.V.DV.08.03	Endocrinology						
B1.V.DV.08.04	Oncology						
B1.V.DV.08.05	Neurology						
B1.V.DV.08.06	Nephrology						
B1.V.DV.09	Elective disciplines 7 (1 из 2)						
B1.V.DV.09.01	Anesthesiology, Resuscitation And Intensive Therapy						
B1.V.DV.09.02	Reconstructive Surgery						
B1.V.DV.10	Elective disciplines 8 (1 из 3)						
B1.V.DV.10.01	Veterinary Ophthalmology						
B1.V.DV.10.02	Behavioral Medicine						
B1.V.DV.10.03	Animal Dentistry						
Block 2. Practical Training							
Mandatory part							
B2.O.01	Core component	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.O.01.01 (E)	Educational Practice	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.O.02	Variable component						
B2.O.02.01 (P)	Clinical Industrial Practice						
Part formed by participants of educational relations							
B2.V.DV.01	Elective practices						

B2.V.DV.01.01 (P)	Clinical Internship						
B2.V.DV.01.02 (P)	Industrial Research Practice						
Block 3. Final State Examination							
B3.O.DV.01.01.01 (G)	State Final Certification						
B3.O.DV.01.02	Block 1						
B3.O.DV.01.02.01 (G)	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
B3.O.DV.01.02.02 (D)	Block 2						
B3.O.DV.01.01.01 (G)	Preparing 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
B3.O.DV.01.02	Design, Preparation for Defense Procedure and Defense of the Graduation Thesis	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
FTD. Elective Courses							
Part formed by participants of educational relations							
FTD.V.01	Russian Language for Foreign Students				GC-4.1; GC-4.2; GC-4.3		

Code	Courses/modules that form students' competences	GENERIC COMPETENCES					
		GC-7. Ability to maintain an adequate level of physical fitness to ensure full social and professional activity.	GC-8. Ability to create and maintain safe living conditions in everyday life and professional activities to preserve the environment and ensure sustainable development of society, including in emergency situations and military conflicts.	GC-9. Ability to use basic defectology knowledge in social and professional activities.	GC-10. Ability to make informed economic decisions in various areas of life.	GC-11. Ability to develop intolerance towards corruption behavior.	GC-12. Ability to search for information sources and data, perceive, analyze, store and transmit information using digital tools and algorithms for effective problem solving and evaluation of information reliability.
Block 1.	Disciplines (modules)						
B1.O	Mandatory part						
B1.O.01	Core component						
B1.O.01.01	History of Russia						
B1.O.01.02	Maths						GC-12.1
B1.O.01.03	History of Religions in Russia						
B1.O.01.04	Fundamentals of Russian Statehood						

B1.O.01.05	Basic Military Training. Life Safety		GC-8.1; GC-8.2; GC-8.3; GC-8.4; GC-8.5; GC-8.6				
B1.O.01.06	Digital Literacy						GC-12.2
B1.O.01.07	Law Science					GC-11.1; GC-11.2; GC-11.3	
B1.O.01.08	Philosophy						
B1.O.01.09	Physical Education	GC-7.1; GC-7.2; GC-7.3					
B1.O.01.10	Inorganic and Analytical Chemistry		GC-8.1; GC-8.2				
B1.O.01.11	Organic Chemistry		GC-8.1; GC-8.2				
B1.O.01.12	Biology with Basic Ecology						
B1.O.01.13	Biophysics		GC-8.1; GC-8.2				
B1.O.01.14	Physical and Colloidal Chemistry						
B1.O.01.15	Biological Chemistry						
B1.O.01.16	Anatomy of Animals						
B1.O.01.17	Latin language						
B1.O.01.18	Cytology, Histology and Embryology						
B1.O.01.19	Veterinary Microbiology and Mycology		GC-8.1; GC-8.2; GC-8.3				
B1.O.01.20	Virology and Biotechnology		GC-8.1; GC-8.2; GC-8.3				
B1.O.01.21	Physiology and Ethology of Animals						
B1.O.01.22	Animal Breeding with Basics of Private Husbandry						
B1.O.01.23	Animal Health and Welfare						
B1.O.01.24	Animal Nutrition and Feeding with Basics of Feed Production						
B1.O.01.25	Pathologic Physiology						
B1.O.01.26	Veterinary Pharmacology						
B1.O.01.27	Clinical Diagnostics						

B1.O.01.28	Pathological Anatomy						
B1.O.01.29	Operative Surgery with Topographic Anatomy						
B1.O.01.30	Instrumental Diagnostic Methods with Elements of Artificial Intelligence Technology						
B1.O.01.31	Toxicology						
B1.O.01.32	Obstetrics, Gynecology and Andrology						
B1.O.01.33	Internal Diseases						
B1.O.01.34	General Surgery						
B1.O.01.35	Private Surgery						
B1.O.01.36	Parasitology and Invasive Diseases						
B1.O.01.37	Epidemiology and Infectious Diseases						
B1.O.01.38	Veterinary and Sanitary Expertise						
B1.O.01.39	Organization of Veterinary Management with the Basics of Project Activities						
B1.O.01.DV.01	Foreign Language						
B1.O.01.DV.01.01	Foreign Language						
B1.O.01.DV.01.02	Russian as a Foreign Language						
B1.O.02	Variable component						
B1.O.02.01	Russian Language and Culture of Speech						
B1.O.02.02	Introduction to Specialty						
B1.O.02.03	Political science						
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			GC-9.2; GC-9.3			
B1.O.02.08	Laboratory Diagnostics with Elements of Artificial Intelligence Technology						
B1.O.02.09	Organization of State Veterinary Supervision						
B1.O.02.10	Veterinary Genetics						
B1.O.02.11	Veterinary Radiobiology		GC-8.1; GC-8.2; GC-8.3				
B1.O.02.12	Forensic Veterinary Examination and						

	Necropsy						
B1.O.02.13	Biometrics, Biostatistics and Data Analysis in Veterinary Medicine						GC-12.2
B1.O.02.14	Агроэкология						
B1.O.02.DV.01	Professional Foreign Language						
B1.O.02.DV.01.01	Professional Foreign Language						
B1.O.02.DV.01.02	Professional Russian Language						
Part formed by participants of educational relations							
B1.V.DV.01	Applied Physical Education						
B1.V.DV.01.01	Applied Physical Education						
B1.V.DV.02	Interdisciplinary Module						
B1.V.DV.02.01	Disciplines of the Interdisciplinary Module						
B1.V.DV.03	Elective disciplines 1 (1 из 2)						
B1.V.DV.03.01	Medicinal and Poisonous Plants						
B1.V.DV.03.02	Fodder Plants						
B1.V.DV.04	Elective disciplines 2 (1 из 2)						
B1.V.DV.04.01	Zoopsychology						
B1.V.DV.04.02	Здоровье и благополучие животных / Animal Health and Welfare						
B1.V.DV.05	Elective disciplines 3 (1 из 2)						
B1.V.DV.05.01	Veterinary Assistant Skills						
B1.V.DV.05.02	Fish Pathology and Aquaculture						
B1.V.DV.06	Elective disciplines 4 (1 из 2)						
B1.V.DV.06.01	Equine Diseases						
B1.V.DV.06.02	Diseases of Farm Animals						
B1.V.DV.07	Elective disciplines 5 (1 из 3)						
B1.V.DV.07.01	Small Animal Diseases						
B1.V.DV.07.02	Bee Diseases and Entomophages						
B1.V.DV.07.03	Exotic Animal Diseases						
B1.V.DV.08	Elective disciplines 6 (1 из 6)						
B1.V.DV.08.01	Dermatology						
B1.V.DV.08.02	Cardiology						
B1.V.DV.08.03	Endocrinology						
B1.V.DV.08.04	Oncology						

B1.V.DV.08.05	Neurology						
B1.V.DV.08.06	Nephrology						
B1.V.DV.09	Elective disciplines 7 (1 из 2)						
B1.V.DV.09.01	Anesthesiology, Resuscitation And Intensive Therapy						
B1.V.DV.09.02	Reconstructive Surgery						
B1.V.DV.10	Elective disciplines 8 (1 из 3)						
B1.V.DV.10.01	Veterinary Ophthalmology						
B1.V.DV.10.02	Behavioral Medicine						
B1.V.DV.10.03	Animal Dentistry						
Block 2. Practical Training							
Mandatory part							
B2.O.01	Core component		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.O.01.01 (E)	Educational Practice		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.O.02	Variable component						
B2.O.02.01 (P)	Clinical Industrial Practice						
Part formed by participants of educational relations							
B2.V.DV.01	Elective practices						
B2.V.DV.01.01 (P)	Clinical Internship						
B2.V.DV.01.02 (P)	Industrial Research Practice						
Block 3. Final State Examination							
B3.O.DV.01.01.01 (G)	State Final Certification						
B3.O.DV.01.02	Block 1						
B3.O.DV.01.02.01 (G)	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-	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

			8.5; GC-8.6				
B3.O.DV.01.02.02 (D)	Block 2						
B3.O.DV.01.01.01 (G)	Preparing 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
B3.O.DV.01.02	Design, Preparation for Defense Procedure and Defense of the Graduation Thesis	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
FTD. Elective Courses							
Part formed by participants of educational relations							
FTD.V.01	Russian Language for Foreign Students						

Code	Courses/modules that form students' competences	GENERAL PROFESSIONAL COMPETENCES						
		GPC-1. Ability to determine the biological status and normative clinical indicators of organs and systems of the animal organism.	GPC-2. Ability to interpret and assess the influence of natural, socio-economic, genetic and economic factors on the physiological state of animals in professional activities.	GPC-3. Ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of the agro-industrial complex.	GPC-4. Ability to use methods for solving professional tasks with modern equipment when developing new technologies and to apply modern professional methodology for conducting experimental research and interpreting its results.	GPC-5. Ability to prepare professional documentation, analyze the results of professional activity and present reporting documents using specialized databases.	GPC-6. Ability to analyze, identify and assess the risk of occurrence and spread of diseases.	GPC-7. Ability to understand the principles of operation of modern information technologies and use them to solve professional tasks.
Block 1.	Disciplines (modules)							
B1.O	Mandatory part							
B1.O.01	Core component							
B1.O.01.01	History of Russia							

B1.O.01.02	Maths				GPC-4.1; GPC-4.2			
B1.O.01.03	History of Religions in Russia							
B1.O.01.04	Fundamentals of Russian Statehood							
B1.O.01.05	Basic Military Training. Life Safety							
B1.O.01.06	Digital Literacy							GPC-7.1
B1.O.01.07	Law Science			GPC-3.1; GPC-3.2; GPC-3.3				
B1.O.01.08	Philosophy							
B1.O.01.09	Physical Education							
B1.O.01.10	Inorganic and Analytical Chemistry				GPC-4.1; GPC-4.3; GPC-4.4			
B1.O.01.11	Organic Chemistry				GPC-4.1; GPC-4.3; GPC-4.4			
B1.O.01.12	Biology with Basic Ecology				GPC-2.1; GPC-4.2; GPC-4.4			
B1.O.01.13	Biophysics				GPC-4.1; GPC-4.3; GPC-4.4			
B1.O.01.14	Physical and Colloidal Chemistry				GPC-4.1; GPC-4.3; GPC-4.4			
B1.O.01.15	Biological Chemistry				GPC-4.1; GPC-4.3; GPC-4.4			
B1.O.01.16	Anatomy of Animals	GPC-1.1						
B1.O.01.17	Latin language					GPC-5.2		
B1.O.01.18	Cytology, Histology and Embryology							
B1.O.01.19	Veterinary Microbiology and Mycology							
B1.O.01.20	Virology and Biotechnology							
B1.O.01.21	Physiology and Ethology of Animals	GPC-1.1						
B1.O.01.22	Animal Breeding with Basics of Private Husbandry		GPC-2.1					
B1.O.01.23	Animal Health and Welfare		GPC-2.1; GPC-2.2; GPC-2.3					GPC-6.1; GPC-

							6.2	
B1.O.01.24	Animal Nutrition and Feeding with Basics of Feed Production		GPC-2.1; GPC-2.2; GPC-2.3					
B1.O.01.25	Pathologic Physiology	GPC-1.2					GPC-6.1	
B1.O.01.26	Veterinary Pharmacology							
B1.O.01.27	Clinical Diagnostics	GPC-1.3; GPC-1.4						
B1.O.01.28	Pathological Anatomy							
B1.O.01.29	Operative Surgery with Topographic Anatomy	GPC-1.4						
B1.O.01.30	Instrumental Diagnostic Methods with Elements of Artificial Intelligence Technology							GPC-7.3
B1.O.01.31	Toxicology							
B1.O.01.32	Obstetrics, Gynecology and Andrology							
B1.O.01.33	Internal Diseases							
B1.O.01.34	General Surgery							
B1.O.01.35	Private Surgery							
B1.O.01.36	Parasitology and Invasive Diseases							
B1.O.01.37	Epidemiology and Infectious Diseases						GPC-6.1; GPC-6.2	
B1.O.01.38	Veterinary and Sanitary Expertise						GPC-6.3	
B1.O.01.39	Organization of Veterinary Management with the Basics of Project Activities			GPC-3.1; GPC-3.2; GPC-3.3;		GPC-5.1; GPC-5.2; GPC-5.3;		GPC-7.2; GPC-7.4; GPC-7.5
B1.O.01.DV.01	Foreign Language							
B1.O.01.DV.01.01	Foreign Language							

B1.O.01.DV.01.02	Russian as a Foreign Language							
B1.O.02	Variable component							
B1.O.02.01	Russian Language and Culture of Speech							
B1.O.02.02	Introduction to Specialty							
B1.O.02.03	Political science							
B1.O.02.04	Immunology				GPC-4.1; GPC-4.3; GPC-4.4			
B1.O.02.05	Veterinary Sanitation							
B1.O.02.06	Technology of Animal Products Processing						GPC-6.3	
B1.O.02.07	Veterinary Deontology							
B1.O.02.08	Laboratory Diagnostics with Elements of Artificial Intelligence Technology	GPC-1.3; GPC-1.4						
B1.O.02.09	Organization of State Veterinary Supervision							
B1.O.02.10	Veterinary Genetics		GPC-2.1				GPC-6.1; GPC-6.2	
B1.O.02.11	Veterinary Radiobiology							
B1.O.02.12	Forensic Veterinary Examination and Necropsy							
B1.O.02.13	Biometrics, Biostatistics and Data Analysis in Veterinary Medicine					GPC-5.2; GPC-5.3		GPC-7.2
B1.O.02.14	Агрэкологія		GPC-2.1					
B1.O.02.DV.01	Professional Foreign Language							
B1.O.02.DV.01.01	Professional Foreign Language							
B1.O.02.DV.01.02	Professional Russian Language							
Part formed by participants of educational relations								
B1.V.DV.01	Applied Physical Education							
B1.V.DV.01.01	Applied Physical Education							
B1.V.DV.02	Interdisciplinary Module							
B1.V.DV.02.01	Disciplines of the Interdisciplinary Module							
B1.V.DV.03	Elective disciplines 1 (1 из 2)							
B1.V.DV.03.01	Medicinal and Poisonous Plants							
B1.V.DV.03.02	Fodder Plants							

B1.V.DV.04	Elective disciplines 2 (1 из 2)							
B1.V.DV.04.01	Zoopsychology							
B1.V.DV.04.02	Здоровье и благополучие животных / Animal Health and Welfare		GPC-2.1; GPC-2.2; GPC-2.3				GPC-6.1; GPC-6.2	
B1.V.DV.05	Elective disciplines 3 (1 из 2)							
B1.V.DV.05.01	Veterinary Assistant Skills	GPC-1.3; GPC-1.4						
B1.V.DV.05.02	Fish Pathology and Aquaculture							
B1.V.DV.06	Elective disciplines 4 (1 из 2)							
B1.V.DV.06.01	Equine Diseases							
B1.V.DV.06.02	Diseases of Farm Animals							
B1.V.DV.07	Elective disciplines 5 (1 из 3)							
B1.V.DV.07.01	Small Animal Diseases							
B1.V.DV.07.02	Bee Diseases and Entomophages							
B1.V.DV.07.03	Exotic Animal Diseases							
B1.V.DV.08	Elective disciplines 6 (1 из 6)							
B1.V.DV.08.01	Dermatology							
B1.V.DV.08.02	Cardiology							
B1.V.DV.08.03	Endocrinology							
B1.V.DV.08.04	Oncology							
B1.V.DV.08.05	Neurology							
B1.V.DV.08.06	Nephrology							
B1.V.DV.09	Elective disciplines 7 (1 из 2)							
B1.V.DV.09.01	Anesthesiology, Resuscitation And Intensive Therapy							
B1.V.DV.09.02	Reconstructive Surgery							
B1.V.DV.10	Elective disciplines 8 (1 из 3)							
B1.V.DV.10.01	Veterinary Ophthalmology							
B1.V.DV.10.02	Behavioral Medicine							
B1.V.DV.10.03	Animal Dentistry							
Block 2. Practical Training								
Mandatory part								
B2.O.01	Core component							

B2.O.01.01 (E)	Educational Practice	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4	GPC-2.1; GPC-2.2; GPC-2.3	GPC-3.1; GPC-3.2; GPC-3.3	GPC-4.1; GPC-4.2; GPC-4.3; GPC-4.4			GPC-7.1; GPC-7.2; GPC-7.3; GPC-7.4; GPC-7.5
B2.O.02	Variable component							
B2.O.02.01 (P)	Clinical Industrial Practice	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4	GPC-2.1; GPC-2.2; GPC-2.3	GPC-3.1; GPC-3.2; GPC-3.3	GPC-4.1; GPC-4.2; GPC-4.3; GPC-4.4	GPC-5.1; GPC-5.2; GPC-5.3	GPC-6.1; GPC-6.2; GPC-6.3	GPC-7.1; GPC-7.2; GPC-7.3; GPC-7.4; GPC-7.5
Part formed by participants of educational relations								
B2.V.DV.01	Elective practices							
B2.V.DV.01.01 (P)	Clinical Internship							
B2.V.DV.01.02 (P)	Industrial Research Practice							
Block 3. Final State Examination								
B3.O.DV.01.01.01 (G)	State Final Certification							
B3.O.DV.01.02	Block 1							
B3.O.DV.01.02.01 (G)	Preparation for Passing and Passing the State Exam	GPC-1.1; GPC-1.2; GPC-1.3; GPC-1.4	GPC-2.1; GPC-2.2; GPC-2.3	GPC-3.1; GPC-3.2; GPC-3.3	GPC-4.1; GPC-4.2; GPC-4.3; GPC-4.4	GPC-5.1; GPC-5.2; GPC-5.3	GPC-6.1; GPC-6.2; GPC-	GPC-7.1; GPC-7.2; GPC-

							6.3	7.3; GPC- 7.4; GPC- 7.5
B3.O.DV.01.02.02 (D)	Block 2							
B3.O.DV.01.01.01 (G)	Preparing and Passing the State Exam	GPC-1.1; GPC- 1.2; GPC-1.3; GPC-1.4	GPC-2.1; GPC-2.2; GPC-2.3	GPC-3.1; GPC-3.2; GPC-3.3	GPC-4.1; GPC- 4.2; GPC-4.3; GPC-4.4	GPC-5.1; GPC-5.2; GPC-5.3	GPC- 6.1; GPC- 6.2; GPC- 6.3	GPC- 7.1; GPC- 7.2; GPC- 7.3; GPC- 7.4; GPC- 7.5
B3.O.DV.01.02	Design, Preparation for Defense Procedure and Defense of the Graduation Thesis	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
FTD. Elective Courses								
Part formed by participants of educational relations								
FTD.V.01	Russian Language for Foreign Students							

Code	Courses/modules that form students' competences	PROFESSIONAL COMPETENCES						
		PC-1. Ability to collect the life and medical history of an animal for further diagnosis and planning of therapeutic and preventive measures.	PC-2. Ability to perform a complete primary clinical examination of an animal to establish a preliminary clinical diagnosis and repeated examinations to monitor the patient's condition.	PC-3. Ability to plan differential diagnostic procedures for diseases in a patient.	PC-4. Ability to perform necessary laboratory diagnostics within preventive or diagnostic procedures.	PC-5. Ability and readiness to plan and perform necessary instrumental diagnostic procedures.	PC-6. Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	PC-7. Ability to select or develop a treatment plan for a patient based on the established diagnosis.
Block 1.	Disciplines (modules)							
B1.O	Mandatory part							
B1.O.01	Core component							
B1.O.01.01	History of Russia							
B1.O.01.02	Maths							
B1.O.01.03	History of Religions in Russia							
B1.O.01.04	Fundamentals of Russian Statehood							
B1.O.01.05	Basic Military Training. Life Safety							
B1.O.01.06	Digital Literacy							
B1.O.01.07	Law Science							
B1.O.01.08	Philosophy							
B1.O.01.09	Physical Education							

B1.O.01.10	Inorganic and Analytical Chemistry							
B1.O.01.11	Organic Chemistry							
B1.O.01.12	Biology with Basic Ecology							
B1.O.01.13	Biophysics							
B1.O.01.14	Physical and Colloidal Chemistry							
B1.O.01.15	Biological Chemistry							
B1.O.01.16	Anatomy of Animals					PC-5.4		
B1.O.01.17	Latin language							
B1.O.01.18	Cytology, Histology and Embryology					PC-4.2; PC-4.4		
B1.O.01.19	Veterinary Microbiology and Mycology							
B1.O.01.20	Virology and Biotechnology							
B1.O.01.21	Physiology and Ethology of Animals							
B1.O.01.22	Animal Breeding with Basics of Private Husbandry							
B1.O.01.23	Animal Health and Welfare							
B1.O.01.24	Animal Nutrition and Feeding with Basics of Feed Production							
B1.O.01.25	Pathologic Physiology							
B1.O.01.26	Veterinary Pharmacology							PC-7.1; PC-7.2
B1.O.01.27	Clinical Diagnostics	PC-1.1; PC-1.2; PC-1.3	PC-2.2; PC-2.3					
B1.O.01.28	Pathological Anatomy						PC-6.1	
B1.O.01.29	Operative Surgery with Topographic Anatomy							
B1.O.01.30	Instrumental Diagnostic Methods with Elements of Artificial Intelligence Technology					PC-5.1; PC-5.2; PC-5.3; PC-5.4		
B1.O.01.31	Toxicology							PC-7.1; PC-7.2
B1.O.01.32	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.01.33	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.01.34	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.01.35	Private Surgery			PC-3.1; PC-3.2; PC-3.3			PC-6.1; PC-6.2; PC-6.3; PC-6.4	
B1.O.01.36	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.01.37	Epidemiology and Infectious Diseases						PC-6.1; PC-6.2; PC-6.3; PC-6.4	
B1.O.01.38	Veterinary and Sanitary Expertise							
B1.O.01.39	Organization of Veterinary Management with the Basics of Project Activities							
B1.O.01.DV.01	Foreign Language							
B1.O.01.DV.01.01	Foreign Language							
B1.O.01.DV.01.02	Russian as a Foreign Language							
B1.O.02	Variable component							
B1.O.02.01	Russian Language and Culture of Speech							
B1.O.02.02	Introduction to Specialty							
B1.O.02.03	Political science							
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	Laboratory Diagnostics with Elements of					PC-4.1; PC-4.2;		

	Artificial Intelligence Technology				PC-4.3; PC-4.4			
B1.O.02.09	Organization of State Veterinary Supervision							
B1.O.02.10	Veterinary Genetics							
B1.O.02.11	Veterinary Radiobiology							
B1.O.02.12	Forensic Veterinary Examination and Necropsy							
B1.O.02.13	Biometrics, Biostatistics and Data Analysis in Veterinary Medicine							
B1.O.02.14	Агроэкология							
B1.O.02.DV.01	Professional Foreign Language							
B1.O.02.DV.01.01	Professional Foreign Language							
B1.O.02.DV.01.02	Professional Russian Language							
Part formed by participants of educational relations								
B1.V.DV.01	Applied Physical Education							
B1.V.DV.01.01	Applied Physical Education							
B1.V.DV.02	Interdisciplinary Module							
B1.V.DV.02.01	Disciplines of the Interdisciplinary Module							
B1.V.DV.03	Elective disciplines 1 (1 из 2)							
B1.V.DV.03.01	Medicinal and Poisonous Plants							
B1.V.DV.03.02	Fodder Plants							
B1.V.DV.04	Elective disciplines 2 (1 из 2)							
B1.V.DV.04.01	Zoopsychology							
B1.V.DV.04.02	Здоровье и благополучие животных / Animal Health and Welfare							
B1.V.DV.05	Elective disciplines 3 (1 из 2)	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3; PC-2.4			PC-5.3		
B1.V.DV.05.01	Veterinary Assistant Skills					PC-5.3		
B1.V.DV.05.02	Fish Pathology and Aquaculture	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3; PC-2.4					
B1.V.DV.06	Elective disciplines 4 (1 из 2)	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.06.01	Equine Diseases	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3					

B1.V.DV.06.02	Diseases of Farm Animals	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.07	Elective disciplines 5 (1 из 3)	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.07.01	Small Animal Diseases	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.07.02	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.07.03	Exotic Animal Diseases	PC-1.1; PC-1.2; PC-1.3	PC-2.1; PC-2.2; PC-2.3					
B1.V.DV.08	Elective disciplines 6 (1 из 6)			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.08.01	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.08.02	Cardiology			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.08.03	Endocrinology			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.08.04	Oncology			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.08.05	Neurology			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.08.06	Nephrology			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3;		PC-7.1; PC-7.2;

						PC-5.4		PC-7.3; PC-7.4
B1.V.DV.09	Elective disciplines 7 (1 из 2)			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.09.01	Anesthesiology, Resuscitation And Intensive Therapy			PC-3.1; PC-3.2; PC-3.3				PC-7.1; PC-7.2; PC-7.3; PC-7.4
B1.V.DV.09.02	Reconstructive Surgery			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
B1.V.DV.10	Elective disciplines 8 (1 из 3)			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.10.01	Veterinary Ophthalmology			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
B1.V.DV.10.02	Behavioral Medicine			PC-3.1; PC-3.2; PC-3.3				PC-7.1; PC-7.2; PC-7.3; PC-7.4
B1.V.DV.10.03	Animal Dentistry			PC-3.1; PC-3.2; PC-3.3		PC-5.2; PC-5.3; PC-5.4		
Block 2. Practical Training								
Mandatory part								
B2.O.01	Core component							
B2.O.01.01 (E)	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)	Clinical Industrial Practice							
Part formed by participants of educational relations								

B2.V.DV.01	Elective practices							
B2.V.DV.01.01 (P)	Clinical 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	PC-7.1; PC-7.2; PC-7.3; PC-7.4
B2.V.DV.01.02 (P)	Industrial Research Practice	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	PC-7.1; PC-7.2; PC-7.3; PC-7.4
Block 3. Final State Examination								
B3.O.DV.01.01.01 (G)	State Final Certification							
B3.O.DV.01.02	Block 1							
B3.O.DV.01.02.01 (G)	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	PC-7.1; PC-7.2; PC-7.3; PC-7.4
B3.O.DV.01.02.02 (D)	Block 2							
B3.O.DV.01.01.01 (G)	Preparing 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	PC-7.1; PC-7.2; PC-7.3; PC-7.4
B3.O.DV.01.02	Design, Preparation for Defense Procedure and Defense of the Graduation Thesis	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	PC-7.1; PC-7.2; PC-7.3; PC-7.4
FTD. Elective Courses								
Part formed by participants of educational relations								
FTD.V.01	Russian Language for Foreign Students							

B1.O.01.02	Maths								
B1.O.01.03	History of Religions in Russia								
B1.O.01.04	Fundamentals of Russian Statehood								
B1.O.01.05	Basic Military Training. Life Safety								PC-15.1; PC-15.2
B1.O.01.06	Digital Literacy								
B1.O.01.07	Law Science								
B1.O.01.08	Philosophy								
B1.O.01.09	Physical Education								
B1.O.01.10	Inorganic and Analytical Chemistry								
B1.O.01.11	Organic Chemistry								
B1.O.01.12	Biology with Basic Ecology								
B1.O.01.13	Biophysics								
B1.O.01.14	Physical and Colloidal Chemistry								
B1.O.01.15	Biological Chemistry								
B1.O.01.16	Anatomy of Animals								
B1.O.01.17	Latin language								
B1.O.01.18	Cytology, Histology and Embryology								
B1.O.01.19	Veterinary Microbiology and Mycology								
B1.O.01.20	Virology and Biotechnology								
B1.O.01.21	Physiology and Ethology of Animals								
B1.O.01.22	Animal Breeding with Basics of Private Husbandry								
B1.O.01.23	Animal Health and Welfare								PC-14.3
B1.O.01.24	Animal Nutrition and Feeding with Basics of Feed Production				PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.O.01.25	Pathologic Physiology								
B1.O.01.26	Veterinary Pharmacology								
B1.O.01.27	Clinical Diagnostics								
B1.O.01.28	Pathological Anatomy								PC-14.1; PC-14.2; PC-14.3
B1.O.01.29	Operative Surgery with Topographic			PC-9.1;					

	Anatomy		PC-9.2; PC-9.3; PC-9.4						
B1.O.01.30	Instrumental Diagnostic Methods with Elements of Artificial Intelligence Technology								
B1.O.01.31	Toxicology								
B1.O.01.32	Obstetrics, Gynecology and Andrology					PC-12.1; PC-12.2; PC-12.3			
B1.O.01.33	Internal Diseases					PC-12.1; PC-12.2; PC-12.3			
B1.O.01.34	General Surgery						PC-13.1; PC-13.2; PC-13.3		
B1.O.01.35	Private Surgery					PC-12.1; PC-12.2; PC-12.3			
B1.O.01.36	Parasitology and Invasive Diseases					PC-12.1; PC-12.2; PC-12.3			
B1.O.01.37	Epidemiology and Infectious Diseases					PC-11.1; PC-11.2; PC-11.3			
B1.O.01.38	Veterinary and Sanitary Expertise								
B1.O.01.39	Organization of Veterinary Management with the Basics of Project Activities								
B1.O.01.DV.01	Foreign Language								
B1.O.01.DV.01.01	Foreign Language								
B1.O.01.DV.01.02	Russian as a Foreign Language								
B1.O.02	Variable component								
B1.O.02.01	Russian Language and Culture of Speech								
B1.O.02.02	Introduction to Specialty								
B1.O.02.03	Political science								
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	Laboratory Diagnostics with Elements of Artificial Intelligence Technology								
B1.O.02.09	Organization of State Veterinary Supervision				PC-11.5				
B1.O.02.10	Veterinary Genetics								
B1.O.02.11	Veterinary Radiobiology								
B1.O.02.12	Forensic Veterinary Examination and Necropsy						PC-13.3; PC-13.4		
B1.O.02.13	Biometrics, Biostatistics and Data Analysis in Veterinary Medicine								
B1.O.02.14	Агроэкология								
B1.O.02.DV.01	Professional Foreign Language								
B1.O.02.DV.01.01	Professional Foreign Language								
B1.O.02.DV.01.02	Professional Russian Language								
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B1.V.DV.01	Applied Physical Education								
B1.V.DV.01.01	Applied Physical Education								
B1.V.DV.02	Interdisciplinary Module								
B1.V.DV.02.01	Disciplines of the Interdisciplinary Module								
B1.V.DV.03	Elective disciplines 1 (1 из 2)				PC-10.1				
B1.V.DV.03.01	Medicinal and Poisonous Plants				PC-10.1				
B1.V.DV.03.02	Fodder Plants				PC-10.1				
B1.V.DV.04	Elective disciplines 2 (1 из 2)							PC-14.1; PC-14.3	
B1.V.DV.04.01	Zoopsychology							PC-14.1	
B1.V.DV.04.02	Здоровье и благополучие животных / Animal Health and Welfare							PC-14.3	
B1.V.DV.05	Elective disciplines 3 (1 из 2)		PC-9.2; PC-9.3		PC-10.1; PC-10.2; PC-10.3; PC-10.4				
B1.V.DV.05.01	Veterinary Assistant Skills		PC-9.2; PC-9.3						
B1.V.DV.05.02	Fish Pathology and Aquaculture				PC-10.1; PC-10.2; PC-				

				10.3; PC-10.4					
B1.V.DV.06	Elective disciplines 4 (1 из 2)			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.06.01	Equine Diseases			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.06.02	Diseases of Farm Animals			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.07	Elective disciplines 5 (1 из 3)			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.07.01	Small Animal Diseases			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.07.02	Bee Diseases and Entomophages			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.07.03	Exotic Animal Diseases			PC-10.1; PC-10.2; PC-10.3; PC-10.4					
B1.V.DV.08	Elective disciplines 6 (1 из 6)								
B1.V.DV.08.01	Dermatology								
B1.V.DV.08.02	Cardiology								
B1.V.DV.08.03	Endocrinology								
B1.V.DV.08.04	Oncology								
B1.V.DV.08.05	Neurology								
B1.V.DV.08.06	Nephrology								
B1.V.DV.09	Elective disciplines 7 (1 из 2)		PC-9.1; PC-9.2						
B1.V.DV.09.01	Anesthesiology, Resuscitation And Intensive Therapy		PC-9.2						
B1.V.DV.09.02	Reconstructive Surgery		PC-9.1						
B1.V.DV.10	Elective disciplines 8 (1 из 3)	PC-8.1;	PC-9.1						

		PC-8.2; PC-8.3							
B1.V.DV.10.01	Veterinary Ophthalmology		PC-9.1						
B1.V.DV.10.02	Behavioral Medicine	PC-8.1; PC-8.2; PC-8.3							
B1.V.DV.10.03	Animal Dentistry		PC-9.1						
Block 2. Practical Training									
Mandatory part									
B2.O.01	Core component								
B2.O.01.01 (E)	Educational Practice								
B2.O.02	Variable component								
B2.O.02.01 (P)	Clinical 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	
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B2.V.DV.01	Elective practices								
B2.V.DV.01.01 (P)	Clinical Internship	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.01.02 (P)	Industrial Research 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	
Block 3. Final State Examination									
B3.O.DV.01.01.01 (G)	State Final Certification								
B3.O.DV.01.02	Block 1								
B3.O.DV.01.02.01 (G)	Preparation for Passing and Passing the State Exam	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	PC-15.1; PC-15.2
B3.O.DV.01.02.02	Block 2								

(D)									
B3.O.DV.01.01.01 (G)	Preparing and Passing the State Exam	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	PC- 15.1; PC-15.2
B3.O.DV.01.02	Design, Preparation for Defense Procedure and Defense of the Graduation Thesis	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	PC- 15.1; PC-15.2
FTD. Elective Courses									
Part formed by participants of educational relations									
FTD.V.01	Russian Language for Foreign Students								