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Ministry of Agriculture of the Russian Federation  
Federal State Budgetary Educational Institution of Higher Education  
"Saint Petersburg State University of Veterinary Medicine"  
FSBEI HI SPBGUVM

«COORDINATED»  
Chief specialist of the measures  
organization department for the  
prevention and elimination of animal  
diseases, laboratory monitoring and  
veterinary and sanitary expertise of  
the Veterinary Department of the  
Leningrad region  
Kizmina O.G.  
April 10, 2026



«APPROVED»  
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April 10, 2026



**MAIN PROFESSIONAL  
EDUCATIONAL PROGRAM  
OF HIGHER EDUCATION  
(MPEP HI)**

**The level of higher education  
SPECIALIST COURSE**

**Specialty 36.05.01  
Veterinary Medicine  
Profile: General clinical veterinary medicine**

Saint Petersburg  
2026

## **1. GENERAL STATEMENTS**

### **1.1. Principals of the main professional educational program**

The main professional educational program of higher education (MPEP HE) in the specialty 36.05.01 "Veterinary Medicine", implemented by the Federal state educational institution of Higher Education "St. Petersburg State University of Veterinary Medicine" is a system of educational and methodological documents formed on the basis of the Federal State Educational Standard of Higher Education (FSES HE) for this profession, approved by the law of the Ministry of Education and Science of the Russian Federation on September 22, 2017 No. 974, with amendments No. 1456 dated by November 26, 2020..

MPEP regulates the goals, expected results, content, conditions and technologies for the implementation of the educational process, assessment of the quality of graduates and includes curriculum, work programs of academic disciplines, as well as programs of educational and industrial practices, calendar training schedule, information about teaching staff.

### **1.2. Regulatory documents for the development of MPEP in the specialty 36.05.01 "Veterinary medicine".**

The regulatory legal documents for the development of MPEP HE are:

Federal Law of the Russian Federation: "Of Education" (dated December 29, 2012 No. 273-FL);

The Federal State Educational Standard of Higher Education (FSES HE) in the specialty 36.05.01 "Veterinary Medicine" approved by order No. 939 of the Ministry of Education and Science of the Russian Federation, dated September 19, 2017;

The procedure for organizing and carrying out educational activities in higher education programs – bachelor's degree programs, specialty programs, master's degree programs, approved by order No. 301 of the Ministry of Education and Science of the Russian Federation, dated April 06, 2021;

The procedure for conducting the state final certification of educational programs of higher education – bachelor's degree programs, specialty programs and master's degree programs, approved by Order No. 636 of the Ministry of Education and Science of the Russian Federation dated June 29, 2015;

The Regulation on the practice of students, mastering the basic professional educational programs of higher education, approved by Order No. 885/390 of the Ministry of Education and Science of the Russian Federation, dated August 27, 2020;

Professional standard "Employee in the field of veterinary medicine", approved by Order of the Ministry of Labor and Social Protection of the Russian Federation dated 12.10.2021 No. 712n (registered with the Ministry of Justice of the Russian Federation on 16.11.2021 No. 65842);

The Charter of the Federal State budgetary educational institution of higher education "St. Petersburg State University of Veterinary Medicine".

### **1.3. The list of abbreviations used in the text of the MPEP HE:**

1. GPC - is the general professional competence
2. MPEP - is the main professional educational program
3. PC - professional competence
4. PS - is the professional standard
5. UC - is the universal competence
6. FSES HE - The Federal State Educational Standard for Higher Education
7. z.u. - credit unit.

## **2. CHARACTERISTICS OF PROFESSIONAL ACTIVITY OF GRADUATES**

### **2.1. General description of graduates' professional activities**

#### **2.1. General description of graduates' professional activities**

Areas of professional activity and (or) areas of professional activity in which graduates, who have mastered the specialty program can carry out professional activities:

13 Agriculture (in the field of preserving and ensuring animal health, prevention and treatment of all types of animals, including birds, bees, fish and aquatic organisms, improving the productive qualities of animals, veterinary control, forensic veterinary and veterinary-sanitary expertise).

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

Types of tasks of professional activity of graduates:

- Medical;
- Expert control;
- Scientific and educational.

A list of the main objects (or areas of knowledge) of graduates' professional activities: agricultural, domestic, laboratory, exotic, wild and commercial animals, birds, bees, fish, aquatic organisms and other objects of marine and river fisheries, cell cultures, microbiological and viral strains, raw materials and finished products of animal and plant origin, beekeeping products, feed and feed additives, places of their preparation and storage, medicines and biological preparations, technological lines for the production of drugs, products and feeds, premises for animal husbandry, pastures, reservoirs, slaughterhouses, animal burial grounds, vehicles for transporting animals, products of animal and vegetable origin, as well as enterprises for the production, processing, storage, sale of food products and animal and vegetable feeds, regulatory, accompanying and scientific and technical documentation, indexed databases, educational programs and the educational process in the HE, SPE and AE system.

## **2.2. List of professional standards related to the Federal State Budget**

A list of professional standards correlated with the federal state educational standard in the field of training, is given in Appendix 6. A list of generalized labor functions and labor functions related to the professional activity of a graduate of specialty programs in the specialty 05.36.01 Veterinary Medicine is presented in Appendix 7.

### 2.3. List of the main tasks of graduates' professional activity (by types)

#### Schedule 2.1

Field of professional activity (according to the register of the Ministry of Labor)	Types of tasks of professional activity	Tasks of professional activity	Objects of professional activity (or fields of knowledge) (if necessary)
13 Agriculture	Medical	1. Prevention, diagnosis of diseases of various etiologies and treatment of animals	Agricultural, small domestic, laboratory, exotic, wild and hunting animals, birds, bees, fish, aquatic organisms and other objects of marine and river fisheries
		2. Protection of the population from diseases common to humans and animals	Agricultural, small domestic, laboratory, exotic, wild and commercial animals, birds, bees, fish, aquatic organisms and other objects of marine and river fisheries; premises for animal husbandry, pastures, reservoirs, slaughterhouses, animal burial grounds; vehicles for the transportation of animals, products of animal and vegetable origin; enterprises for the production, processing, storage, sale of food products and animal and vegetable feed
		3. Effective use of medicinal raw materials, drugs, biologically active additives; participation in the development of new methods, methods and techniques for the manufacture and quality control of remedies.	Medical drugs and biological remedies, technological lines for the production of drugs.
	Expert control	4. Consulting activity and development of plans in the field of prevention, diagnosis of diseases and treatment of animals, veterinary and sanitary control, forensic veterinary	Agricultural, small domestic, laboratory, exotic, wild and commercial animals, birds, bees, fish, aquatic organisms and other objects of marine and river fisheries; regulatory, accompanying

	<p>examination, organization of veterinary business.</p> <p>5. Veterinary and sanitary examination and sanitary control of products and raw materials of animal and vegetable origin, bee products and aquatic fisherie</p>	<p>and scientific and technical documentation</p>
	<p>Agricultural, small domestic, laboratory, exotic, wild and commercial animals, birds, bees, fish, aquatic organisms and other objects of marine and river fisheries; cell cultures, microbiological and viral strains, raw materials and finished products of animal and vegetable origin; bee products, feed and feed additives, places of their harvesting and storage; animal housing, pastures, reservoirs, slaughterhouses, animal burial grounds; vehicles for the transportation of animals, products of animal and vegetable origin, technological lines for food and feed production; enterprises for the production, processing, storage, sale of food products and animal and vegetable feed</p>	<p>Regulatory, accompanying, scientific and technical documentation (labor legislation, regulatory legal acts on labor protection, job descriptions for middle and junior staff)</p>
<p>01 Education and Science</p>	<p>6. Management in veterinary field</p> <p>7. Introduction of innovative technologies in the field of veterinary medicine and animal husbandry</p> <p>8. Training and retraining of specialists</p>	<p>Scientific and technical documentation (guidelines, recommendations), indexed databases</p> <p>Educational programs and educational process in the HE, SPE and AE system</p>

### **Section 3. GENERAL CHARACTERISTICS OF EDUCATIONAL PROGRAMS IMPLEMENTED WITHIN THE FRAMEWORK OF THE SPECIALTY 36.05.01 VETERINARY MEDICINE**

#### **3.1. Directions (profiles), mission, goals and objectives of the MPEP within the framework of the field of study (specialty):**

The goals of the educational program are set within the requirements of the Federal State Educational Standard, accreditation criteria and requests from employers' requests.

The mission of the MPEP is to create and develop a modern system for ensuring the quality of education and training highly qualified personnel for animal husbandry and veterinary medicine in accordance with the requirements of the agro-industrial complex.

The main purpose of the MPEP is the formation of a harmoniously developed personality of a graduate specialist with high professional qualifications, the development of personal qualities among students, as well as the formation of general cultural (universal) and professional competencies in accordance with the requirements of the Federal State Educational Standard of Higher Education, the level of higher education - specialty, specialty 36. 05.01 Veterinary Medicine.

The objectives of the MPEP are:

- formation of personal qualities: personal responsibility, self-management, motivation for learning;
- formation of normative and ethical guidelines;
- formation of social and communication skills;
- formation of universal, general professional and professional competencies;
- formation of a practical result orientation.

In the field of education, the purpose of the MPEP HE (higher education level – specialty, specialty – 36.05.01 Veterinary Medicine) is education in the field of humanities, socio-economic, mathematical, natural scientific and professional knowledge, providing educational services of higher education that allows graduates to successfully work in their chosen field of activity, possess professional competencies that contribute to their social mobility and relevance in the labor market.

#### **3.2. Qualification assigned to graduates of educational programs**

Qualification given to graduates of educational programs: veterinarian.

### 3.3. Scope of the program

The scope of the program is 300 c.u.

The labor intensity of the student's mastering the MPEP HE through the whole period of study in accordance with the Federal State Educational Standard in this area is 300 credits. Includes all types of classroom and self -study work, practice and time devoted to quality control of the student's mastering the MPEP, regardless of the form of study, educational technologies used, implementation specialty programs using a network form, the implementation of a specialty program according to an individual curriculum, including accelerated learning.

### 3.4. Forms of education

Forms of study: full-time, part-time (evening) and correspondence forms.

### 3.5. Term of education

The term of education:

- full-time education for 5 years,

## Part 4. PLANNED RESULTS OF THE EDUCATIONAL PROGRAM

### 4.1. Requirements for the planned results of the educational program provided by the disciplines (modules) and practices of the mandatory part

#### 4.1.1. *Universal competencies of graduates and indicators of Achievements*

Schedule 4.1.1

Category of universal competencies	Code and title of the universal competence	Code and indicator title of the universal competence achievement
Systemic and critical view	UC-1- Is able to carry out a critical analysis of problematic situations based on a systematic approach, to develop a strategy for manipulation	UC-1 ID-1 <b>To know</b> methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis UC-1 ID-2 <b>To be able to</b> gain new knowledge based on analysis, synthesis, etc.; collect and summarize data on current scientific problems related to the professional field; search for information and solutions based on actions, experiment, experience, information and communication technologies. UC-1 ID-3

		<p><b>To possess skills</b> of evaluation of the problem of professional activity with the analyze of synthesis and other methods of intellectual activity, including the use of information and communication technologies; identification of problems and the use of adequate methods to solve them; demonstration of value judgments in solving problematic professional situations.</p>
Development and management of projects	UC-2. Is able to manage the project at all stages of its life cycle	<p>UC-2 ID-1  <b>To know</b> methods of presenting and describing the results of project activities; methods, criteria and parameters for evaluating the results of project implementation; principles, methods and requirements for project work</p> <p>UC-2 ID-2  <b>To be able to:</b> substantiate the theoretical and practical significance of the results obtained; check and analyze project documentation; predict the development of processes in the project professional field; put forward innovative ideas and non-standard approaches to their solution in order to implement the project; calculate qualitative and quantitative results, deadlines for project work.</p> <p>UC-2 ID-3  <b>To possess skills of:</b> project management in the field of relevant professional activity: assignment of tasks and motivation to achieve goals; management of the development of the project's terms of reference, management of the implementation of specialized project work, its negotiation and finalizing the project; participation in the development of the project's terms of reference. Development of the project implementation program in the professional field; organization of professional discussion of the project, participation in the management of project documentation; design of the project implementation schedule; definition of the requirements for the results of the project.</p>
Teamwork and leadership	UC-3. Is able to organize and manage the work of the team, developing a team strategy to achieve the set goal	<p>UC-3 ID-1  <b>To know</b> the ways of selecting an effective team; the basic conditions for effective teamwork; the basics of strategic human resource management, regulatory legal acts related to the organization and implementation of professional activities; models of organizational behavior; factors of formation of organizational relations; strategies and principles of teamwork, the main characteristics of the organizational behavior and interaction of team members in the organization.</p> <p>UC-3 ID-2</p>

		<p><b>To be able to:</b> determine the management style and effectiveness of team management; develop a team strategy; apply the principles and methods of organizing team activities; choose methods and techniques for researching professional practical tasks.</p> <p>UC-3 ID-3</p> <p><b>To possess skills</b> to use team building in solving set goals; creation of a team to perform practical tasks; participation in the development of a teamwork strategy; ability to work in a team.</p>
Communication	UC-4. Is able to apply modern communication technologies, also in a foreign language(s), for academic and professional interaction	<p><b>UC-4 ID-1</b></p> <p><b>To know:</b> computer technologies and information media in the organization; communication in professional ethics; factors for improving team communication, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional interaction; methods of research of the communicative potential of the individual; modern means of information and communication technologies</p> <p>UC-4 ID-2</p> <p><b>To be able to:</b> create written texts of scientific and official business speech styles on professional issues in Russian and foreign languages; explore the passage of information on management communications; determine internal communications in the organization, including using digital technologies.</p> <p>UC-4 ID-3</p> <p><b>To possess skills of</b> the principles of forming a communication system; analyze the system of communication links in the organization by carrying out oral and written communications, including in a foreign language: presentation of plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional skills in information and telecommunication networks; use of modern means of information and communication technologies</p>
Inter-cultural interaction	UC-5. Is able to analyze and take into account the diversity of cultures in the process of intercultural interaction.	<p>UC-5 ID-1</p> <p><b>To know:</b> the psychological foundations of social interaction aimed at solving professional tasks; the basic principles of organizing business contacts; methods of preparation for negotiations, national, ethno-cultural and confessional characteristics and folk traditions of the population; the basic concepts of interaction in the organization, the features of didactic interaction.</p> <p>UC-5 ID-2</p> <p><b>To be able to:</b> present professional information competently and in an accessible manner in the</p>

		<p>process of intercultural interaction; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, and confessional characteristics.</p> <p>UC-5 ID-3</p> <p><b>To possess skills of:</b> the organization of productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communicative, educational, ethnic, confessional and other barriers in the process of intercultural interaction; identification of cultural diversity in the process of intercultural interaction.</p>
Self-organization and self - development (including health care)	UC-6. Is able to determine and implement the priorities of his own activities and ways to improve them based on self-assessment and lifelong education	<p>UC-6 ID-1</p> <p><b>To know:</b> the content of the processes of self-organization and self-education, their features and technologies of implementation, based on the goals of improving professional activity.</p> <p>UC-6 ID-2</p> <p><b>To be able to</b> build the process of mastering selected and structured information independently, including digital technologies.</p> <p>UC-6 ID-3</p> <p><b>To possess skills of:</b> techniques of self-regulation of psycho-emotional and functional states.</p>
	UC-7. Is able to maintain an adequate level of physical fitness to ensure full-fledged social and professional activities	<p>UC-7 ID-1</p> <p><b>To know:</b> basic means and methods of physical education.</p> <p>UC-7 ID-2</p> <p><b>To be able to:</b> select and apply methods and means of physical culture to improve basic physical qualities.</p> <p>UC-7 ID-3</p> <p><b>To possess skills of:</b> methods and means of physical culture to ensure full-fledged social and professional activities.</p>
Life safety	UC-8. Is able to create and maintain safe living conditions, including cases of emergency situations	<p>UC-8 ID-1</p> <p><b>To know:</b> the consequences of harmful and dangerous factors exposure on the body of animals, humans and the natural environment, methods of protection from emergencies and military conflicts; fundamentals of life safety, telephone numbers of rescue services.</p> <p>UC-8 ID-2</p> <p><b>To be able to:</b> identify the signs, causes and conditions of emergencies and military conflicts; assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; provide first aid in emergency situations.</p> <p>UC-8 ID-3</p> <p><b>To possess skills of:</b> the ways to ensure safety in the human-animal-habitat system. Possess methods of forecasting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including those based on digital technologies.</p>
Economic	UC-9. Is able to make	UC-9 ID-1

culture, including financial management	informed economic decisions in various areas of life	<p><b>To know:</b> the conceptual apparatus of economic science, the basic principles of the functioning of the economy, the goals and mechanisms of the main types of social economic policy. UC-9 ID-2</p> <p><b>To be able to:</b> use methods of economic and financial planning to achieve the set goal, including digital technologies. UC-9 ID-3</p> <p><b>To possess skills of:</b> the use of economic tools for financial management, with the use of digital technologies as well, taking into account economic and financial risks in various areas of life.</p>
Civic position	UC-10. Is able to form an intolerant attitude towards manifestations of extremism, terrorism, and corrupt behavior and counteract them in his professional activities.	<p>UC-10 ID-1</p> <p><b>To know:</b> the basic terms and concepts of civil law used in anti-corruption legislation, the current anti-corruption legislation and the practice of its application, the legal framework for countering terrorism and extremism UC-10 ID-2</p> <p><b>To be able to:</b> correctly interpret civil law terms with the use of digital technologies as well , used in anti-corruption legislation; assess corrupt behavior and apply anti-corruption legislation in practice, analyze factors contributing to extremism, terrorism as a particularly dangerous socio-legal phenomenon UC-10 ID-3</p> <p><b>To possess skills of:</b> correct behavior interpretation with the use of digital technologies as well, civil law terms used in anti-corruption legislation, basics of applying anti-corruption legislation in practice, the skills to assess various phenomena of public life in order to identify signs of extremism and terrorism.</p>

#### 4.1.2. General professional competencies of graduates and their achievements

Category of general professional competencies	Code and title of the general professional competence	Code and indicator title of the achievement of general professional competence
General professional skills	GPC-1. Is able to determine the biological status, normative clinical signs of organs and systems of the animal body.	<p>GPC-1 ID-1</p> <p><b>To know:</b> safety precautions and personal hygiene rules during the examination of animals, methods of their fixation; schemes of clinical examination of an animal and the procedure for examining individual body systems; methodology for recognizing the pathological process GPC-1 ID-2</p> <p><b>To be able to:</b> collect and analyze anamnestic data, conduct laboratory and functional studies necessary to determine the biological status of animals. GPC-1 ID-3</p>

		<p><b>To possess:</b> practical skills for self-conducting a clinical examination of an animal using classical research methods and digital technologies.</p>
Analyze of environmental factors	<p>GPC-2. Is able 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>	<p>GPC-2 ID-1</p> <p><b>To know:</b> environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bio-ecology; interspecific relations of animals and plants, predator and prey, parasites and hosts; ecological features of some types of pathogenic microorganisms; mechanisms of influence of anthropogenic and economic factors on the animal body.</p> <p>GPC-2 ID-2</p> <p><b>To be able to:</b> use environmental factors and environmental laws in agricultural production; apply the achievements of modern microbiology and ecology of microorganisms in animal husbandry and veterinary medicine in order to prevent infectious and invasive diseases and treat animals; use environmental monitoring methods in the environmental assessment of agricultural facilities and the production of agricultural products; assess the impact on the animal body anthropogenic and economic factors.</p> <p>GPC-2 ID-3</p> <p><b>To possess skills of:</b> the knowledge of the origin of living organisms, the levels of organization of living matter, favorable and unfavorable factors affecting the body; the basis for studying environmental knowledge of the surrounding world, the laws of development of nature and society; skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, including the use of digital technologies</p>
The legal basis of professional activity	<p>GPC-3. Is able to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-</p>	<p>GPC-3 ID-1</p> <p><b>To know:</b> the basics of national and international veterinary legislation, specific rules and regulations governing veterinary activities at the local,</p>

	industrial complex	national and international levels. GPC-3 ID-2 <b>To be able to:</b> find up-to-date, relevant and reliable information about veterinary legislation, rules and regulations governing veterinary activities in a particular region and/or country. GPC-3 ID-3 <b>To possess skills of :</b> the legal framework and ethical standards in the implementation of professional activities.
Modern technologies, equipment and scientific foundations of professional activity	GPC-4. Is able to use methods of solving problems using modern equipment in the development of new technologies in his professional activity and use modern professional methodology to conduct experimental research and interpret their results.	GPC-4 ID-1 <b>To know:</b> the technical capabilities of modern specialized equipment, methods of solving problems of professional activity. GPC-4 ID-2 <b>To be able to:</b> apply modern technologies and research methods in professional activities, interpret the results obtained. GPC-4 ID-3 <b>To possess skills of:</b> the work with specialized equipment for implementation of the tasks, set during research and the development of new technologies, digital ones as well.
Presentation of the results of professional activity	GPC-5. Is able to draw up special documentation, analyze the results of professional activity and submit accounting documents using specialized databases	GPC-5 ID-1 <b>To know:</b> modern software, basic system software products and application software packages; technical means of implementing information processes GPC-5 ID-2 <b>To be able to:</b> apply new information technologies to solve tasks in their professional activities, work with specialized information databases GPC-5 ID-3 <b>To possess skills of:</b> the work with the operating system, text and table processors, database management systems, information search systems on the Internet.
Human and animal health risk analysis	GPC-6. Is able to analyze, identify and assess the danger of the risk of the occurrence and spread of diseases	GPC-6 ID-1 <b>To know:</b> existing programs for the prevention and control of zoonosis, contagious diseases, emergent or newly emerging infections, the use of animal identification systems, tracing and

		<p>control by the relevant veterinary services.  GPC-6 ID-2  <b>To be able to:</b> assess the risk of animal diseases, including the import of animals and animal products and other measures of veterinary services, control prohibited substances in the body of animals, animal products and feed  GPC-6 ID-3  <b>To possess skills to:</b> conduct identification procedures, select and implement measures that can be used to reduce the level of risk.</p>
<p>Information and communication technologies for professional activities.</p>	<p>GPC-7. Is able to understand the principles of modern information technologies and use them to solve professional tasks.</p>	<p>GPC-7 ID-1  <b>To know:</b> modern technical means and information technologies.  GPC-7 ID-2  <b>To be able to:</b> use modern technical means and information technologies, including elements of machine learning and artificial intelligence, to solve analytical and research problems  GPC-7 ID-3  <b>To possess skills to:</b> use modern technical means and information technologies to solve analytical and research problems.</p>

### 4.1.3. Professional abilities of graduates and indicators of achievement

Labor function	Code and title of professional competence	Code and indicator title of achievement of professional competence
<p>Conducting a clinical examination of animals in order to set a diagnosis</p>	<p>PC-1. Anamnesis of animal life and disease to identify the cause of disease, conducting a general clinical study of animals in order to establish a preliminary diagnosis and determine the further research program</p>	<p>PC-1 ID-1  <b>To be able to:</b> collect and analyze information about the origin and purpose of animals, the method and conditions of keeping, feeding (anamnesis of animal life), including from sensor devices, mechanisms, sensors, tags, etc.</p> <p>PC-1 ID-2  <b>To be able to:</b> collect and analyze information about the occurrence and manifestation of diseases in animals, previously transmitted diseases, epizootological conditions (anamnesis of animal disease), including from sensor devices, mechanisms, sensors, tags, etc.</p> <p>PC-1 ID-3  <b>To be able to:</b> fix animals to ensure safety during a clinical trial</p> <p><b>To be able to:</b> perform a clinical examination of animals using common methods: examination, palpation, percussion, auscultation and thermometry.</p> <p>PC-1 ID-5  <b>To be able to:</b> establish a preliminary diagnosis based on anamnesis analysis and clinical research using general methods.</p> <p>PC-1 ID-6  <b>To know:</b> the method of collecting anamnesis of life and disease of animals.</p> <p>PC-1 ID-7  <b>To know:</b> the factors of animal life that contribute to the occurrence of infectious and non-communicable diseases.</p> <p>PC-1 ID-8  <b>To know:</b> the forms and rules for filling out the journal for the registration of sick animals and the animal's medical history, including in electronic form in accordance with the requirements of veterinary rules.</p> <p>PC-1 ID-9  <b>To know</b> the methods of fixation of animals during their clinical examination.</p> <p>PC-1 ID-10  <b>To know</b> the technique of conducting a clinical study of animals using general methods in</p>

		<p>accordance with the guidelines, instructions, rules for the diagnosis, prevention and treatment of animals.</p>
	<p>PC-2. Development of an animal research program and conducting a clinical study of animals, using special (instrumental) and laboratory methods to clarify the diagnosis</p>	<p>PC-2 ID-1  <b>To be able to:</b> study animals using digital equipment and special (instrumental) methods, including endoscopy, probing, catheterization, radiography, electro cardiography, echography.</p> <p>PC-2 ID-2  <b>To be able to:</b> interpret and analyze data from special (instrumental) animal research methods to verify the diagnosis.</p> <p>PC-2 ID-3  <b>To be able to:</b> determine the reaction of the cardiovascular system of animals to various loads by the method of functional tests.</p> <p>PC-2 ID-4  <b>To be able to:</b> take samples of animal biological material for laboratory research.</p> <p>PC-2 ID-5  <b>To be able to:</b> perform analytical preparation, storage of the studied biological material, transportation to the laboratory.</p> <p>PC-2 ID-6  <b>To be able to:</b> interpret and analyze data from laboratory animal research methods for diagnosis.</p> <p>PC-2 ID-7  <b>To know:</b> the indication for the use of digital equipment, special (instrumental) and laboratory methods of animal research in accordance with the guidelines, instructions, rules for the diagnosis, prevention and treatment of animals</p> <p>PC-2 ID-8  <b>To know:</b> the rules of safe operation with digital equipment, tools and equipment used in special (instrumental) animal studies, including X-ray examinations.</p> <p>PC-2 ID-9  <b>To possess skills of:</b> the technique of conducting animal research using digital equipment and special (instrumental) methods in accordance with methodological guidelines, instructions, rules for the diagnosis, prevention and treatment of animals.</p> <p>PC-2 ID-10  <b>To know:</b> the methods and techniques of introducing diagnostic and radiopaque substances into the animal's body.</p> <p>PC-2 ID-11  <b>To possess skills of:</b> the technique of setting functional tests in animals.</p>

		<p>PC-2 ID-12</p> <p><b>To know:</b> the methodology of sampling and analytical fulfillment of biological material samples for performing laboratory analyses in accordance with the instructional and methodological documents regulating the sampling of biological material</p>
	<p>PC-3. To set the diagnose based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods</p>	<p>PC-3 ID-1</p> <p><b>To possess skills to</b> make a diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases.</p> <p>PC-3 ID-2</p> <p><b>To possess skills to</b> use specialized information databases for the diagnosis of animal diseases.</p> <p>PC-3 ID-3</p> <p><b>To possess skills to</b> document the results of clinical animal studies using digital technologies.</p> <p>PC-3 ID-4</p> <p><b>To know:</b> the methods of interpretation and data analysis of special (instrumental) methods of animal research.</p> <p>PC-3 ID-5</p> <p><b>To know:</b> the norms of indicators of the state of biological material of animals of different species and the reasons that cause deviations from the norms.</p> <p>PC-3 ID-6</p> <p><b>To know:</b> the etiology and pathogenesis of animal diseases of various species.</p> <p>PC-3 ID-7</p> <p><b>To know</b> the generally accepted criteria and classifications of animal diseases, approved lists of animal disease.</p>
	<p>PC-4. Performing postmortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death</p>	<p>PC-4 ID-1</p> <p><b>To be able to</b> collect the anamnesis of the life and illness of the examined animals after death.</p> <p>PC-4 ID-2</p> <p><b>To be able to</b> perform a general examination of animal cadaver before autopsy.</p> <p>PC-4 ID-3</p> <p><b>To be able to</b> perform autopsies of animal corpses using special tools and compliance with safety requirements.</p> <p>PC-4 ID-4</p> <p><b>To be able to</b> carry out the selection and fixation of samples of pathological material for laboratory research using digital technologies.</p> <p>PC-4 ID-5</p> <p><b>To be able to</b> establish the cause of death and a patho-anatomical diagnosis in accordance with generally accepted criteria and classifications,</p>

		<p>lists of animal diseases. PC-4 ID-6 <b>To be able to</b> document the results of a postmortem diagnostic examination of an animal in the autopsy protocol, including digital technologies. PC-4 ID-7 <b>To know</b> the veterinary and sanitary requirements for the process of animals dissection in accordance with the legislation of the Russian Federation in the field of veterinary medicine. PC-4 ID-8 <b>To know</b> the rules of working with special tools when dissecting animal corpses. PC-4 ID-9 <b>To know</b> the methods and techniques of autopsy of animal corpses of various species. PC-4 ID-10 <b>To know</b> the methodology of sampling and fixation of samples of pathological material for laboratory research in accordance with the rules in this field. PC-4 ID-11 <b>To know</b> the forms and procedure for fulfillment of an autopsy protocol for an animal, including digital technologies.</p>
<p>Carrying out measures for the treatment of sick animals</p>	<p>PC-5. Carrying out of an animal treatment plan based on the established diagnosis and individual characteristics of animals, selection of necessary medicines of chemical and biological nature for the treatment of animals, taking into account their combined pharmacological effect on the body</p>	<p>PC-5 ID-1 <b>To be able to</b> use specialized information databases when choosing animal treatment methods. PC-5 ID-2 <b>To be able to</b> calculate the amount of medicines for the treatment of animals and the prevention of diseases with the calculation of prescriptions for a certain period. PC-5 ID-3 <b>To be able to</b> calculate the amount of medicines for the treatment of animals and the prevention of diseases with the calculation of prescriptions for a certain period, using digital technologies as well. PC-5 ID-4 <b>To be able to</b> administer drugs into the body of animals in various ways of injection. PC-5 ID-5 <b>To know</b> the methods of pharmacological treatment of sick animals and indications for its use in accordance with the guidelines, instructions, manuals, rules of diagnosis, prevention and treatment of animals. PC-5 ID-6</p>

		<p><b>To know</b> the state register of medicines for veterinary use. PC-5 ID-7</p> <p><b>To know</b> the pharmacological and toxicological characteristics of medicinal raw materials, medicinal products of chemical and biological nature, biologically active additives for the prevention and treatment of animal diseases of various etiologies. PC-5 ID-8</p> <p><b>To know</b> ways of drug injections used for animals both enteral (oral, sublingual and rectal administration) and parenteral (injections, inhalations and skin applications) methods.</p>
	<p>PC-6. Selection of the variety of methods of non-drug therapy, including physiotherapy methods for the treatment of animals, carrying out therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules</p>	<p>PC-6 ID-1 <b>To be able to:</b> use special, both digital therapeutic equipment and physiotherapy procedures in accordance with its instructions. PC-6 ID-2 <b>To be able to:</b> fix animals to ensure safety during medical procedures PC-6 ID-3 <b>To be able to:</b> maintain patients documentation on diseases and treatment of animals using digital technologies PC-6 ID-4 <b>To know</b> the types of non-drug therapy, including physiotherapy, used in veterinary medicine, and the clinical signs for its use PC-6 ID-5 <b>To know</b> the safety rules of manipulation with special equipment during non-drug instrumentation on the animals body. PC-6 ID-6 <b>To know</b> the methods and techniques of non-drug instrumentation on the animal body PC-6 ID-7 <b>To know</b> the methods of fixation of animals during their treatment PC-6 ID-8 <b>To know</b> forms and rules for filling out the journal for the registration of sick animals and the animal's medical history in accordance with the requirements of veterinary legislation, in digital format as well</p>
	<p>PC-7. Statement of the necessity of surgical techniques application in the treatment of animals, development of a surgical operation plan, including the method of</p>	<p>PC-7 ID-1 <b>To be able to</b> anesthetize animals before surgery using narcotic, neuroleptic and local anesthetic drugs PC-7 ID-2 <b>To know</b> the surgical methods of animal treatment and indications for its appliance.</p>

	anesthesia	PC-7 ID-3 <b>To know</b> drugs used to anesthetize animals in veterinary surgery. doses and methods of its administration, side effects
	PC-8. Application of surgical manipulations for the treatment of various animals diseases, castration, sterilization, for cosmetic indications	PC-8 ID-1 <b>To be able to</b> dissect animal tissues using surgical instruments in order to create operative access to the affected organ or tissues PC-8 ID-2 <b>To be able to</b> perform surgical manipulation, using surgical instruments, over the affected organ or tissues, thus ensure the effectiveness of surgical treatment. PC-8 ID-3 <b>To be able to</b> stop bleeding using mechanical, physical, chemical and biological methods PC-8 ID-4 <b>To be able to</b> treat tissue in bloodless and bloody ways, drain cavities, apply bandages using dressings and frame materials PC-8 ID-5 <b>To know</b> the rules of special equipment application at the operating room, surgical instruments and dressings PC-8 ID-6 <b>To know</b> the technique of performing surgical operations in veterinary medicine PC-8 ID-7 <b>To know</b> the types and techniques of sutures and bandages used in veterinary surgery
	PC-9. Development of recommendations for special feeding of sick animals for therapeutic purposes	PC-9 ID-1 <b>To know</b> the types of dietary regimes, the principles of feed selection using digital technologies, norms, feeding regimes in animal diet therapy
	PC-10. Application of follow-up examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment, detalisation of the animal treatment plan (if necessary) based on the results of the evaluation of the effectiveness of treatment	PC-10 ID-1 <b>To be able to</b> evaluate the effectiveness of treatment PC-10 ID-2 <b>To be able to</b> use specialized information databases when choosing ways to treat animal diseases PC-10 ID-3 <b>To know</b> the methods of drug treatment of sick animals and indications for its use in accordance with the guidelines, instructions, manuals, rules of diagnosis, prevention and treatment of animals
System measures management to prevent the occurrence of	PC-11. Design of an annual plan of antiepzootic measures, a plan for the prevention of	PC-11 ID-1 <b>To be able to</b> collect and analyze information, including veterinary statistics data, necessary for planning preventive antiepzootic measures,

<p>non-contagious, infectious and invasive animal diseases to ensure animal health</p>	<p>non-contagious animal diseases, a plan of veterinary and sanitary measures</p>	<p>prevention of non-contagious animal diseases, veterinary and sanitary measures PC-11 ID-2 <b>To know</b> the methods of collecting and analyzing information for veterinary planning, using information databases as well</p>
	<p>PC-12. Organization of the preventive clinical studies of animals, control of the veterinary and sanitary conditions and microclimate of livestock premises in accordance with the plan of antiepidemiological measures, planning of the prevention of non-contagious animal diseases. planning of veterinary and sanitary measures</p>	<p>PC-12 ID-1 <b>To be able to</b> carry out clinical studies of animals using digital technologies as part of the implementation of action plans for the prevention of animal diseases PK-12 ID-2 <b>To be able to</b> assess the impact of animal welfare and feeding conditions on health parameters as part of the implementation of action plans for the prevention of animal diseases PK-12 ID-3 <b>To be able to</b> carry out veterinary quality control over the procurement of animal feed in order to ensure its veterinary and sanitary safety as part of the implementation of action plans for the prevention of animal diseases PC-12 ID-4 <b>To know</b> the recommended forms of the plan of antiepidemiological measures, the plan of prevention of non-contagious animal diseases, the plan of veterinary and sanitary measures PC-12 ID-5 <b>To know</b> the procedure for conducting internal control of the veterinary and sanitary conditions of the facilities and the microclimate of livestock premises, using digital equipment PC-12 ID-6 <b>To know</b> the normative indicators of microclimate parameters in livestock premises</p>
	<p>PC-13. Development of the companies protection measures from the introduction of infectious and invasive diseases in accordance with the plan of antiepidemiological measures</p>	<p>PC-13 ID-1 <b>To know</b> the types of measures to ensure veterinary and sanitary safety and the requirements for their implementation in accordance with the legislation of the Russian Federation in the field of veterinary medicine</p>
	<p>PC-14. Development of preventive immunization (vaccination), therapeutic and preventive treatments of animals in accordance with the plan of antiepidemiological measures, analysis of the effectiveness of the</p>	<p>PC-14 ID-1 <b>To be able to</b> evaluate the effectiveness of preventive measures and ways to implement them, using digital technologies as well. PC-14 ID-2 <b>To know</b> the procedure for conducting a clinical study of animals when planning preventive measures PC-14 ID-3</p>

	measures for the prevention of animal diseases and its improvement	<b>To know</b> the types of antiepidemiological measures and the requirements for their implementation in accordance with the guidelines, instructions, manuals, rules of diagnosis, prevention and treatment of animals
	PC-15. Management of organizational, technical, zootechnical and veterinary measures for the prevention of non-contagious diseases in accordance with the preventive plan of such diseases, analysis of the effectiveness of measures for the prevention of animal diseases for its improvement	<p>PC-15 ID-1 <b>To be able to</b> assess the impact of animal welfare and feeding conditions on their health as part of the implementation of action plans for the prevention of animal diseases using digital technologies</p> <p>PC-15 ID-2 <b>To be able to</b> evaluate the effectiveness of preventive measures and ways to implement them, using digital technologies as well.</p> <p>PC-15 ID-3 <b>To be able to</b> carry out veterinary quality control and procurement of animal feed in order to ensure their veterinary and sanitary safety as part of the implementation of action plans for the prevention of animal diseases</p> <p>PC-15 ID-4 <b>To be able to</b> perform diagnostic examination of animals within the framework of medical examination for early detection of disease preclinical and clinical signs.</p> <p>PK-15 ID-5 <b>To know</b> the types of measures for the prevention of non-contagious animal diseases and metabolic disorders in animals and the requirements for its implementation in accordance with methodological guidelines, instructions, manuals, rules for the diagnosis, prevention and treatment of animals</p>
	PC-16. Organization of disinfection measures of livestock premises to ensure veterinary and sanitary well-being in accordance with the plan of veterinary and sanitary measures, analysis of the effectiveness of measures for the prevention of animal diseases in order to improve them	<p>PC-16 ID-1 <b>To be able to</b> assess the effectiveness of preventive measures and ways to implement them, including digital technologies</p> <p>PC-16 ID-2 <b>To know</b> the types of measures to ensure veterinary and sanitary safety and the requirements for their implementation in accordance with the legislation of the Russian Federation in the field of veterinary medicine</p>
	PC-17. Drawing up a plan for the medical examination of animals, taking into account its types and goals,	<p>PC-17 ID-1 <b>To be able to</b> perform diagnostic examination of animals within the framework of veterinary examination with the use of digital equipment, for early detection of preclinical and clinical</p>

	<p>conducting veterinary examinations in order to preserve the health of animals and increase its productivity, developing recommendations for conducting preventive and treatment measures based on the results of animal examinations conducted as part of the veterinary examination</p>	<p>signs of the disease PC-17 ID-2 <b>To know</b> the methodology of carrying out the veterinary examination of animals in accordance with the actual methodological guidelines PC-17 ID-3 <b>To know</b> the types of preventive measures of non-contagious animal diseases and metabolic disorders and the requirements for its implementation in accordance with methodological guidelines, instructions, manuals, rules for the diagnosis, prevention and treatment of animals</p>
	<p>PC-18. Is able to carry out veterinary and sanitary expertise, manage the production and certification of livestock products, beekeeping, aquatic fisheries and feed, as well as transport rules of animals and goods during export and import operations to ensure food safety, carry out a sanitary assessment of livestock facilities and structures</p>	<p>PC-18 ID-1 <b>To be able to</b> carry out veterinary and sanitary pre-slaughter inspection of animals and poultry, post-slaughter veterinary and sanitary examination of carcasses and organs; correctly assess the quality and control of agricultural output; assess the condition of controlled products according to organoleptic properties and laboratory results using digital technologies, control the operating parameters of all links in the processing of livestock raw materials; organize and control transportation of slaughtered animals, raw materials, products of animal and vegetable origin; to determine the species of animal meat; to carry out bacteriological analysis of meat and its products; to use methods of technochemical control of canned products of animal and vegetable origin PC-18 ID-2 <b>To know</b> the government standards in the field of veterinary and sanitary expertise and control of the production of safe livestock products, keeping, aquatic fisheries and feed, as well as plant products; rules for veterinary and sanitary examination and quality control of food of animal origin; preventive measures of zoonoses; modern means and methods of disinfection, disinsection and deratization of slaughterhouses and meat processing enterprises; norms and rules for the organization and control of transportation of animals, raw materials, products of animal origin, bee products and aquatic fisheries; biology and life cycles of animals that cause zoonoses, as well as factors of its infection; basic concepts and terms in the field of controlling the quality of animal slaughter products, its chemical composition, nutritional value, quality factors.</p>

	<p>PC-19. Is able to organize monitoring studies using big data processing systems and artificial intelligence in professional activities.</p>	<p>PC-19 ID-1  <b>To know</b> the software packages for automatic management of veterinary documentation.  PC-19 ID-2  <b>To have the skills</b> to work with large amounts of veterinary documentation.  PC-19 ID-3  <b>To possess knowledge</b> in the field of artificial intelligence and data analysis.</p>
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## **Section 5. THE STRUCTURE AND CONTENT OF THE MPEP**

### **5.1. The scope of the mandatory part of the MPEP**

The mandatory part of the specialty program includes disciplines and practices that ensure the formation of all universal competencies, all general professional competencies, as well as professional competencies established by the MPEP as mandatory.

The mandatory part of the specialty program includes:

disciplines (modules) specified in paragraph 2.2 of the Federal State Educational Standard;

disciplines (modules) in physical culture and sports (physical training), implemented within the block 1 "Disciplines (modules)".

The volume of the mandatory part, excluding the volume of the state final certification, should be at least 70 percent of the total volume of the specialty program.

### **The structure and scope of the specialty program**

Schedule 5.1

The structure of the specialty program		The scope of the specialty program and its blocks in c.u.
Block 1	Disciplines (modules)	264
Block 2	Practice	30
Block 3	State final certification	6
The scope of the specialty program		300

Block 3 "State final certification" includes preparation for and pass of the state exam.

When developing a specialty program, students are provided with the opportunity to master the disciplines of their choice. The number of hours allocated to lecture-type classes in general for Block 1 "Disciplines" should not exceed 40 percent of the total number of classroom hours, given for the implementation of this Block.

### **5.2. Types of practice**

The following types of practices are established in the specialty program within the framework of educational and industrial practice:

a) Educational practice:

- General professional practice;

- Clinical practice;

- Research work (obtaining primary skills of research work).

- b) Industrial practice:  
- Medical and industrial practice;  
- Research work.

### **5.3. Curriculum, academic calendar, work programs, fund of evaluation tools, annotations of work programs.**

Curriculum, schedule of the educational process with summary data (Appendix 1);

The program on educational and industrial practices (Appendix 2);

Annotations of work programs of academic disciplines (Appendix 3);

Information about the teaching staff (Appendix 4);

Methodological guidelines for preparing for and passing the state exam (Appendix 5).

## **6. THE ACTUAL STAFF OF THE MPEP THE LEVEL OF HIGHER EDUCATION - SPECIALTY, SPECIALTY 36.05.01 VETERINARY MEDICINE IN THE FEDERAL STATE BUDGETARY EDUCATIONAL INSTITUTION OF HIGHER EDUCATION**

The resource provision of the MPEP of the university is formed on the basis of the requirements for the conditions of the implementation of the main programs determined by the Federal State Educational Standard of Higher Education.

The implementation of the main professional educational programs is provided by scientific and pedagogical personnel, who have a basic education, corresponding to the profile of the discipline taught and are systematically engaged in scientific and methodological activities.

The share of teachers with an academic degree and/or academic title in the total number of teachers providing the educational process for this basic educational program is 98.0%

100% of the teachers of the general professional cycle and the cycle of special disciplines have a basic education and/or an academic degree corresponding to the profile of the discipline taught. The level of human resources in accordance with the current regulatory framework is characterized by the fulfillment of the following requirements:

- the basic education of all teachers corresponds to the profiles of the taught modular disciplines
- all teachers are systematically engaged in scientific and methodological activities in the profile of the taught modular disciplines, as

well as have practical experience in the field of information and consulting services for agriculture (see appendix 4).

## **7. NORMATIVE AND METHODOLOGICAL SUPPORT OF THE SYSTEM FOR ASSESSING THE QUALITY OF MASTERING THE MPEP BY STUDENTS THE LEVEL OF HIGHER EDUCATION - SPECIALTY, SPECIALTY 36.05.01 VETERINARY MEDICINE**

In accordance with the Federal State Educational Standard for Higher Education - specialty, specialty 36.05.01 Veterinary Medicine, assessment of the quality of students' development of basic educational programs include ongoing monitoring of academic performance, intermediate and final state certification of students.

### **7.1. Ongoing academic performance monitoring and intermediate certification**

The quality of training of specialists is determined by a set of control measures, which includes the current control of knowledge according to the schedule of control measures, which is compiled for each semester in all disciplines of the course. The quality control of students' knowledge provides tests and exams.

Intermediate certification takes place in the form of credits, accreditation of term papers and projects, practice reports in accordance with the approved regulations.

To do this, questions of exam tickets and credits have been developed for each subject, which are compiled in accordance with the work program and the requirements of the current Federal State Educational Standard of Higher Education. Their content includes all disciplines, including questions submitted for independent study. During the inter-session period, students, according to the thematic plan, take control tasks, colloquiums.

In accordance with the requirements of the Federal State Educational Standard for the certification of students for compliance of their personal achievements with the phased requirements of the relevant MPEP, tests for ongoing monitoring of academic performance and intermediate certification have been created and approved. These tests include control questions and standard tasks for practical exercises, laboratory and control work, colloquiums, tests and exams.

### **7.2. Final state certification of graduates of the MPEP**

The final state certification of a veterinarian consists of preparation for and passing a state exam.

## **8. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL PROVISION**

Work programs in all academic disciplines provide the main professional educational program.

The curriculum and annotations for work programs are available on the Internet and on the local network of the educational institution <https://spbguvvm.ru/sveden/education/eduop/>

The library fund has a sufficient number of modern sources of educational information in all disciplines of the curriculum. The implementation of the basic educational program for the training of a certified specialist is ensured by each student's access to databases and library collections, formed according to the full list of disciplines of the basic educational program. That is based by the provision of textbooks and teaching books of at least 0.5 copies per student.

The library fund contains the following specialized journals: Antibiotics and chemotherapy, Biology of farm animals, Veterinary Medicine, Bulletin of Russian Agricultural Science, All about meat, Veterinary pathology, Topical issues of veterinary biology, Veterinarian. Animal husbandry of Russia, Animal husbandry, Horse breeding and equestrian sports, feeding of farm animals and forage production, Rabbit breeding and animal husbandry, Dairy and meat cattle breeding, Meat industry, Poultry and poultry products, Poultry farming, Fish farming and fisheries, Pig breeding, Agricultural biology, Morphology, Hippology and veterinary medicine, Veterinary medicine and feeding, Zoological Journal. Veterinary Medicine Today, Veterinary Petersburg, Tierarztliche Praxis, Journal of the American Veterinary Medical Association (JAVMA), American Journal of Veterinary Research and others.

Each student has access to the following resources:

- access to modern information databases in accordance with the training profile. For students enrolled in senior courses, the opportunity is provided for the prompt receipt and exchange of information with domestic and foreign universities, enterprises and organizations;
- to the basic educational and methodical literature, methodological manuals necessary for the implementation of the educational process in all disciplines of the MPEP in accordance with the standards established by the Federal State Educational Standard;
- to control copies of basic and additional educational literature in the library fund of the University;
- to the electronic catalog, which contains more than 80 thousand bibliographic records (the formation of the electronic catalog continues).

There is an access to external electronic educational resources: electronic catalogs of libraries of Russia, national libraries and libraries of agricultural universities of the world.

The fund of additional literature includes official and referative abstract periodicals, including branch publications on veterinary medicine, as well as mass central and local socio-political publications.

The electronic library system provides the possibility of individual access for each student from any point where there is access to the Internet.

The SPbGUVMLibrary has the following electronic resources:

- The electronic catalog of the SPbGUVMLibrary (EC SPbGUVMLibrary) (NPO Inform-system Per. No. 100920080902 dated 08.10.2008). The number of entries of 14.10.2025 is 10577. It includes bibliographic databases (books, articles, electronic publications, unpublished documents, WRC, rare books), a full-text database of electronic documents - 6355 copies.

- ELS "Publishing House "Prospect of Science", which presents modern educational and methodological literature on agriculture, ecology, aquaculture, and foreign languages.

- ELS of the publishing house "Quadro" (Elibrica), the package "Agriculture" of the publishing house, including educational and methodological literature on veterinary medicine, biology, economics. There is a mobile application.

- Scientific electronic library eLibrary.RU is the largest Russian information portal in the field of science, technology, medicine and education, containing abstracts and full texts of more than 38 million scientific articles and publications. On the eLibrary platform. Electronic versions of more than 6,000 Russian scientific and technical journals are available.

For students, there is an opportunity to quickly access modern professional databases, information reference and search systems: electronic catalogs and libraries, dictionaries, national language databases, electronic versions of literary and scientific journals in the main studied language(s).

## **9. MATERIAL AND TECHNICAL PROVISION**

For the implementation of the MPEP EN the higher education level - specialty, specialty 36.05.01 Veterinary Medicine, a material and technical support is used to ensure all types of laboratory, practical, disciplinary and interdisciplinary training and research work of students provided for the curriculum, and in accordance with actual sanitary and fire safety rules and regulations.

The material and technical base includes:

- buildings and premises owned by the University on the rights of operational management (independent disposal), designed in accordance with current requirements. The provision of one full-time student with common study areas fulfills the regulatory criterion of Rosobrnadzor;
- computer, telecommunication equipment and software necessary for the implementation of MPEP, thus providing physical access to information networks used in the educational process and research activities;
- intellectual property rights necessary for the implementation of the educational process and research activities;
- Other material and technical resources.

The university is provided with the necessary set of licensed software, in particular Windows and MS Office operating systems.

The library structure includes 2 reading rooms, 2 divisions of educational and scientific literature, division of fiction, a rare book fund, the department of acquisition and scientific processing literature, a reference and bibliographic department, an electronic reading room, 3 unique museums.

The material and technical condition of the departments is placed in the work programs of the disciplines.

## **10. CHARACTERISTICS OF EDUCATIONAL WORK**

The structure of educational work at in St. Petersburg State University of veterinary medicine is carried out under the guidance of the first vice-rector (vice-rector for educational work). The dean of the faculty, deputy deans, heads of graduate departments, curators of student groups, and the Student Council of the University are responsible for organizing and conducting educational work.

A calendar plan has been developed for the educational work of the University of the Faculty of Veterinary Medicine, the main directions of which are:

- Formation of a modern scientific worldview and a system of basic values;
- Formation and development of spiritual and moral values, a system of aesthetic and ethical knowledge and values, attitudes of tolerant consciousness in society;
- Formation of students' need for work as the first vital necessity, the highest value and the main way to achieve success in life, in order to realize the social significance of their future profession. Creating conditions for awareness and appropriation of the essence and significance of civic and patriotic values for a person (meetings with veterans of armed conflicts, assistance to veterans of the Second World War and veterans of university labor);
- Realization of knowledge related to the norms of morality and professional ethics in educational, industrial and social activities through meetings with university graduates, agricultural workers;
- Creation of conditions for creative self-realization of the individual, organization of leisure time for students outside of school hours;
- Strengthening and development of the student body, the university's self-government bodies.

For the purpose of self-development and self-realization of the individual, the university has established a Student Council, one of the main tasks of which is to develop student initiatives in the life of the university, increase the social, political and creative activity of the university students; formation of an active life position among students.

The technology of education assumes both a direct impact on the student's personality in order to achieve the tasks set, and an indirect impact on the student environment to create optimal conditions for mastering the competencies acquired by the graduates, that is, his ability to apply knowledge, skills and personal qualities for practice in accordance with the tasks of professional activity.

For each group of first-year students a curator from among the teaching staff is assigned, whose main functions are carried out on the basis of the "Regulations of the Curator" approved by the university. Various student associations play a great role in cultural and educational work: dance, choreography and vocal groups, student research associations, student creative teams of the University, sports sections, etc.

Due to the need to assist in the employment of graduates, the University Rector's office is working closely with the Administration of St. Petersburg and the Leningrad region, with the heads of small farms, directors of agricultural enterprises.

The basis of information support for students is the official website of the St. Petersburg State University, various information stands of the university, departments and the student council.

## **11. CHARACTERISTICS OF THE SOCIO-CULTURAL ENVIRONMENT**

The university has three well-equipped sectional dormitories located at the address: St. Petersburg, O. Dundicha str., 5 and 9, as well as Zakharyevskaya str., 11. The provision of nonresident students with accommodation in the dormitory is 100%. There are sports rooms in the dormitories. The hostel has living rooms equipped for cooking and eating, for washing, drying and ironing clothes.

The university has a canteen; students are provided with seats in the dining room. There are automatic feeding machines in the academic buildings.

Medical care for students is provided by polyclinic No. 75 (student department), a health center located on the territory of the university. Medical examinations of students, vaccinations and medical consultations are regularly carried out.

In order to promote physical culture and a healthy lifestyle, lectures, curatorial hours, and conversations (with the involvement of specialists) on the dangers of smoking, alcoholism, drug addiction, and HIV infection are held. Many university students go to the university's and cities sports sections (volleyball, basketball, athletics, orienteering, weight-lifting). The most popular sports events in which university students participate are student "Spartakiads" in team sports.

To develop the ability to process information, to understand the essence and importance of information in the development of modern information society, student editorial boards and the poets club have been created and are developing at the university.

The university provides a system of rewarding students for success in sports, social and cultural life.

**Appendix 6****The list of professional standards correlated with the federal state educational standard in the specialty 36.05.01 Veterinary Medicine**

Order #	Code Professional standard	Title of the professional standard
13 Agriculture		
1.	13.012	Professional standard "Employee in the field of veterinary medicine", approved by Order of the Ministry of Labor and Social Protection of the Russian Federation No. 712n dated 12.10.2021 (registered by the Ministry of Justice of the Russian Federation on 16.11.2021, registration No. 65842)

The list of generalized labor functions and labor functions related to the professional activities of graduates of specialty programs in the specialty 36.05.01 Veterinary Medicine

Code and title of Professional Standart	Generalized labor functions		Labour functions		Qualification level (sublevel)	
	Код Code	Title	Title	Code		
13.012 «An employee in the field of veterinary medicine»	G	Providing veterinary care to animals of all kinds	7	Conducting a clinical examination of animals in order to establish a diagnosis	G/01.7.	7
				Carrying out measures for the treatment of sick animals	G/02.7.	7
				Management of the measures system to prevent the occurrence of non-contagious, infectious and invasive animal diseases to ensure sustainable animal health	G/03.7.	7


## LIST OF MPEP DEVELOPERS

Dean of the faculty of veterinary medicine  
Dr. Vet. Med., Ass. Prof.



A.N. Tokarev

Head of the department of internal diseases  
of animals named after A.V. Sinev  
Dr. Vet. Med., Ass. Prof.



A.V. Prusakov

Head of the department of epizootology  
named after V.P. Urban  
Ph.D., Ass. Prof.



L.S. Fogel

## MPEP COORDINATED BY

Vice-Rector for educational  
work and youth policy,  
Dr of Vet. Sc., Prof.



A.A. Sukhinin

Head of the educational department  
PhD, Ass. Prof.



I.V. Suyazova

Head of the education  
quality department



K.N. Yakunchikova

## REVIEW

of the main professional educational program of higher education, the level of higher education – specialist course, specialty – 36.05.01 Veterinary Medicine, profile – General clinical veterinary medicine, developed by the St. Petersburg State University of Veterinary Medicine

The reviewed main professional educational program (MPEP) is a system of documents developed on the basis of the federal state educational standard of higher education at the level of higher education – specialist course, specialty – 36.05.01 Veterinary Medicine, approved by Order of the Ministry of Education and Science of the Russian Federation dated 09/22/2017 No. 974.

The general characteristics of the educational program contain the following information: graduate qualifications, form and duration of study, a brief description of the direction and characteristics of graduates is given, a complete list of unique, general professional and professional competencies that a graduate should possess as a result of mastering the educational program is given.

The disciplines of the curriculum according to the reviewed educational program form the entire necessary list of unique, general professional and professional competencies provided for by the federal state educational standard of higher education.

The quality of the content component of the curriculum is beyond doubt. The disciplines included in the plan reveal the essence of the current problems.

The structure of the plan is generally logical and consistent. An assessment of the work programs of academic disciplines presented on the university's website allows us to conclude that the content of the disciplines corresponds to the graduate's competence model.

Work programs clearly demonstrate the use of active and interactive forms of classes, including discussions, business games, analysis of specific situations, etc.

The developed educational program provides for professional and practical training of students in the form of practical training, educational and industrial. The content of the practice programs testifies to their ability to form students' practical skills.

The analysis of the programs of disciplines and practices has shown that various forms and procedures of current and final performance monitoring are used in the implementation of the program:

- control questions for practical exercises, tests, tests and exams;
- tests;
- approximate topics of term papers, abstracts.

As specific advantages of the reviewed educational program, it should be noted:

- relevance of the MPEP;
- involvement of experienced teaching staff, as well as leading practitioners, for the implementation of the MPEP;
- taking into account the requirements of employers in the formation of disciplines;
- in-depth study of individual fields of knowledge;

