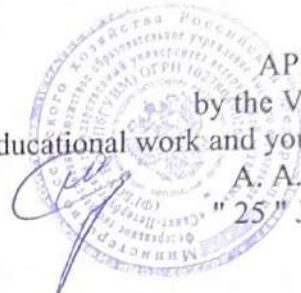


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Ministry of Agriculture of the Russian Federation
Federal State Budgetary Educational Institution
higher education
"Saint Petersburg State University
veterinary medicine"

APPROVED
by the Vice-rector
for educational work and youth Policy
A. A. Sukhinin
" 25 " June 2024

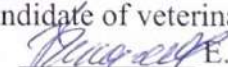


WORK PROGRAM

on educational clinical practice

Higher education level
SPECIALTY
Specialty 36.05.01 Veterinary
Full-time education
Start year of training-2024

Reviewed and accepted
at the meeting of the GEP and SIO Department
"24" June 2024
Protocol No. 10

Head of the GEP and SIO Department, Assistant,
candidate of veterinary Sciences
 E.Y. Finageev

Saint-Petersburg

2024 г.

1. GOALS AND OBJECTIVES OF THE PRACTICE

The purpose and objectives of clinical training practice include active participation of students in the work of a veterinarian:

- students master methods and methods of diagnosis and prevention of infectious and non-infectious diseases, treatment of agricultural and unproductive animals;
- study animal welfare systems and the impact of conditions on their health and productivity;
- features and organization of a veterinary pharmacy
- use of medicinal products as intended

2. TYPES OF PRACTICE, METHODS AND FORMS OF ITS IMPLEMENTATION

Academic practice forms the second block of the curriculum and is divided into general professional practice, clinical and research work (obtaining primary skills in research work).

There are stationary and on-site ways of completing internships. The practice is conducted in a discrete form according to the periods of practical training by alternating in the calendar training schedule periods of study time for practical training with periods of study time for theoretical classes.

Methods and forms of conducting practical training and research work for persons with disabilities are established taking into account the group of health restrictions and the ability to complete the internship program in full.

3. A LIST OF PLANNED RESULTS OF TRAINING DURING THE INTERNSHIP, CORRELATED WITH THE PLANNED RESULTS OF MASTERING THE EDUCATIONAL PROGRAM;

Academic practice of students who master educational programs of higher education is a mandatory part of the educational program of higher education. This type of educational work is aimed at developing practical skills and abilities, as well as forming the competencies of students in the process of performing certain types of work related to future professional activities.

Practical training is an integral part of the training of qualified specialists who are able to adapt and work successfully in specialized organizations.

The purpose of practical training is to deepen, supplement and consolidate the theoretical and practical knowledge gained in the study of disciplines, apply practical skills acquired during the course of practical training, as well as collect, process and systematize materials for performing research work of students based on the study of indicators and features of the activities of specialized organizations.

Practical training develops and strengthens practical skills and contributes to the comprehensive formation of students' competencies.

The planned results of the training practice are:

- consolidation of acquired theoretical and practical knowledge;
- systematization and deepening of the competencies formed during the development of the Veterinary Medicine program, their application in solving specific practical and scientific problems;
- acquaintance and study of the object of educational practice;
- gain experience in working in teams when dealing with professional issues;
- development of independent work skills and mastering the methodology for analyzing the main organizational performance indicators –of the practice base institution;

- collection, systematization, and processing of factual material on the organization –and practice base;
- obtaining additional information necessary for students ' research work.

These tasks of educational practice relate to the following areas of professional activity::
13 Agriculture and meet the types of tasks of professional activity provided for in the educational standard: medical, expert-control.

Implementation of the program of educational clinical practice should form the following competencies:

A) Learning competencies

UK-2 is able to manage a project at all stages of its life cycle

CC-2ID-1 Know the methods of presenting and describing the results of project activities, including those based on digital technologies; methods, criteria and parameters for evaluating the results of project implementation; principles, methods and requirements for project work.

UK-2ID-2 Be able to justify 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.

UK-2ID-3 Master project management in the field of relevant professional activities, including on the basis of digital technologies; distribution of tasks and motivation to achieve goals; management of the development of the project specification, management of the implementation of specialized project work and the process of discussing and finalizing the project; participation in the development of the project specification, development of the project implementation program in professional area; organization of professional discussion of the project, participation in the management of project documentation; design of the project implementation schedule; determination of requirements for the results of project implementation.

UK-3 is able to organize and manage the team's work, developing a team strategy to achieve the goal.

UK-3ID-1 Know the problems of selecting an effective team; basic conditions for effective teamwork; fundamentals of strategic human resource management, regulatory legal acts related to the organization and implementation of professional activities; models of organizational behavior, factors in the formation of organizational relationships; strategies and principles of teamwork, the main characteristics of the organizational climate and interaction of team members in the organization.

UK-3ID-2 Be able to determine the management style and effectiveness of team management; develop a team strategy; apply the principles and methods of organizing team activities, including using digital technologies; choose methods and methods for studying professional practical tasks.

UK-3ID-3 Master the organization and management of team interaction in solving set goals, including using digital technologies; creating a team to perform practical tasks; participating in the development of a team work strategy; ability to work in a team.

CC-5 is able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction

UK-5ID-1 Know the psychological foundations of social interaction aimed at solving professional problems; basic principles of organizing business contacts; methods of preparing for negotiations, national, ethno-cultural and confessional characteristics and folk traditions of the population; basic concepts of interaction in the organization, features of didactic interaction.

UK-5ID-2 To be able to present professional information competently and easily in the process of cross-cultural interaction, including through the use of digital technologies; to observe

ethical norms and human rights; to analyze the features of social interaction taking into account national, ethno-cultural, and confessional characteristics.

UK-5ID-3 Master the organization of productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communication, educational, ethnic, confessional and other barriers in the process of intercultural interaction; identifying the diversity of cultures in the process of intercultural interaction.

UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities

UK-7ID-1 Know the basic means and methods of physical education.

UK-7ID-2 To be able to select and apply methods and means of physical culture to improve basic physical qualities.

UK-7ID-3 Master the methods and means of physical culture to ensure full-fledged social and professional activities.

UK-8 is able to create and maintain safe living conditions, including in the event of emergencies

UK-8ID-1 Know the consequences of exposure to harmful and dangerous factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services.

UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations.

UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies.

B) General professional competencies

OPK-1 is able to determine the biological status and normative clinical indicators of animal organs and body systems

OPK-1ID-1 Know safety techniques and personal hygiene rules when examining animals, methods of fixing them; schemes of clinical research of an animal and the procedure for studying individual body systems, including using digital technologies; methodology for recognizing the pathological process.

OPK-1ID-2 is able to collect and analyze anamnestic data, conduct laboratory and functional studies using digital computer technologies necessary to determine the biological status of animals.

OPK-1ID-3 Possess practical skills in conducting an independent clinical examination of an animal using classical research methods and digital technologies.

OPK-2 is able to interpret and evaluate the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal body in its professional activity

OPK-2ID-1 Know ecological factors of the environment, their classification and nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; 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.

OPK-2ID-2 Be able to 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 for the prevention of infectious and invasive diseases and treatment of animals; use environmental monitoring methods in the environmental expertise of agricultural facilities and the production of agricultural products, including: including using digital technologies; assess the impact of anthropogenic and economic factors on the animal body.

OPK-2ID-3 Possess an idea of the origin of living organisms, the levels of organization of living matter, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of development of nature and society; the skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, in particular including using digital technologies

OPK-3 is able to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex

OPK-3ID-1 Know the basics of national and international veterinary legislation, legislation on digital technologies in the field of agriculture, specific rules and regulations governing veterinary activities at the local, national and international levels.

OPK-3ID-2 Should be able to find up-to-date, up-to-date and reliable information about veterinary legislation, including, with the use of digital technologies, rules and regulations governing veterinary activities in a particular region and/or country.

OPK-3ID-3 Possess the legal framework and ethical standards in the implementation of professional activities.

OPK-4 is able to use professional methods of problem solving using modern equipment in the development of new technologies and use modern professional methodology for conducting experimental research and interpreting their results

OPK-4ID-1 Know the technical capabilities of modern specialized equipment, methods for solving professional tasks.

OPK-4ID-2 Should be able to apply modern technologies, including digital ones, and research methods in professional activities, and interpret the results obtained.

OPK-4ID-3 Master the skills of working with specialized equipment for the implementation of tasks set during research and development of new technologies, including digital ones

OPK-5 is able to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases

OPK-5ID-1 is able to apply new information technologies to solve tasks in their professional activities, work with specialized information databases.

OPK-5ID-2 Master the skills of working with the operating system, with text and table processors, with database management systems, with information and search engines on the Internet.

OPK-5ID-3 To know new information technologies for solving tasks in their professional activities, to work with specialized information databases.

C) Professional competencies

PC-1 Collecting anamnesis of animal life and disease to identify the causes of diseases, conducting a general clinical study of animals in order to establish a preliminary diagnosis and determine the further research program

PC-1ID-1 Be able to collect and analyze information about the origin and purpose of animals, the method and conditions of keeping, feeding (animal life history), including from devices – sensors, mechanisms, sensors, tags, etc.

PC-1ID-2 should be able to collect and analyze information about the occurrence and manifestation of diseases in animals, previous illnesses, epizootological conditions (anamnesis of animal diseases), including from devices – sensors, mechanisms, sensors, tags, etc.

PC-1ID-3 Be able to record animals to ensure safety during a clinical trial

PC-1ID-4 Should be able to perform a clinical study of animals using general methods: examination, palpation, percussion, auscultation and thermometry

PC-1ID-5 Be able to establish a preliminary diagnosis based on the analysis of anamnesis and clinical research using general methods

- PC-1ID-6 Know the methodology for collecting anamnesis of animal life and disease
- PC-1ID-7 Know the factors of animal life that contribute to the occurrence of infectious and non-communicable diseases
- PC-1ID-8 Know the forms and rules for filling out the journal for registration of sick animals and the animal's medical history, including in electronic form in accordance with the requirements of veterinary reporting
- PK-1ID-9 Know methods of fixing animals during their clinical examination
- PC-1ID-10 Know the technique of conducting a clinical study of animals using general methods in accordance with the guidelines, instructions, rules for the diagnosis, prevention and treatment of animals
- PC-2 "Development of an animal research program and conducting a clinical study of animals using special (instrumental) and laboratory methods, including for clarifying the diagnosis"
- PC-2ID-1 Should be able to perform animal studies using digital equipment and using special (instrumental) methods, including endoscopy, probing, catheterization, radiography, electrocardiography, and echography
- PC-2ID-2 Be able to interpret and analyze data from special (instrumental) methods of animal research to verify the diagnosis
- PC-2ID-3 Should be able to determine the response of the cardiovascular system of animals to various loads by the method of functional tests
- PC-2ID-4 Be able to take samples of animal biological material for laboratory research
- PC-2ID-5 Should be able to perform analytical preparation, storage of the studied biological material, transportation to the laboratory
- PC-2ID-6 Be able to interpret and analyze data from laboratory methods of animal research to establish a diagnosis
- PC-2ID-7 Know the indications for the use of digital equipment and special (instrumental) and laboratory methods of animal research in accordance with the guidelines, instructions, rules for the diagnosis, prevention and treatment of animals
- PC-2ID-8 Know the Rules for safe operation of digital equipment, tools and equipment used in conducting special (instrumental) animal studies, including when conducting X-ray studies
- PC-2ID-9 Know 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
- PK-2ID-10 To know methods and techniques of introduction of diagnostic and radiopaque substances into the animal's body
- PK-2ID-11 Know the technique of setting up functional tests in animals
- PC-2ID-12 Know the method of sampling and analytical preparation of samples of biological material for performing laboratory tests in accordance with the instructional and methodological documents regulating the sampling of biological material
- PC-3 Diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods
- PC-3ID-1 Be able to make a diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases
- PC-3ID-2 Be able to use specialized information databases for the diagnosis of animal diseases
- PC-3ID-3 Be able to process the results of clinical animal studies using digital technologies

- PC-3ID-4 Know the methods of interpretation and analysis of data from special (instrumental) methods of animal research
- PC-3ID-5 Know the norms of indicators of the state of biological material of animals of different species and the reasons that cause deviations of indicators from the norms
- PC-3ID-6 Know the etiology and pathogenesis of various animal diseases
- PC-3ID-7 Know the generally accepted criteria and classifications of animal diseases, approved lists of animal diseases
- PC-5ID-6 Know the state register of medicinal products for veterinary use
- PK-5ID-7 Know 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-7 Determination of the need to use operative and surgical methods in the treatment of animals, development of a surgical operation plan, including the choice of analgesia method
 - PC-7ID-1 Be able to perform anesthesia of animals before surgery using narcotic, antipsychotic and local anesthetic drugs
 - PC-7ID-2 To know operational methods of treatment of animals and indications for their use
 - PK-7ID-3 Know the drugs. used for analgesia of animals in veterinary surgery. doses and methods of their use, side effects
- PC-8 Performing operative surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes
 - PC-8ID-1 Be able to dissect animal tissues using surgical instruments to create operational access to the affected organ or tissues
 - PC-8ID-2 Be able to perform surgical intervention using surgical instruments on the affected organ or tissues to ensure the effectiveness of surgical intervention
 - PC-8ID-3 is able to stop bleeding using mechanical, physical, chemical and biological methods
 - PC-8ID-4 Should be able to connect the tissue in bloodless and bloody ways, drain cavities, apply bandages using dressing and frame materials.
 - PC-8ID-5 Know the rules for using special equipment in the operating room, surgical instruments and dressings
 - PC-8ID-6 Know the technique of performing surgical operations in veterinary medicine
 - PC-8ID-7 Know the types and techniques of suturing and dressing used in veterinary surgery
- PC-9 Development of recommendations for special feeding of sick animals for therapeutic purposes
 - PC-9ID-1 Know the types of dietary regimens, principles of feed selection using digital technologies, norms, feeding modes in animal diet therapy
- PC-15 Organization of organizational and technical, zootechnical and veterinary measures aimed at the prevention of non-infectious diseases in accordance with the plan for the prevention of non-infectious animal diseases, analysis of the effectiveness of measures for the prevention of animal diseases in order to improve them
 - PC-15ID-1 Be able to assess the impact of animal care and feeding conditions on their health as part of implementing action plans for the prevention of animal diseases using digital technologies
 - PC-15ID-2 Should be able to assess the effectiveness of preventive measures and methods of their implementation, including using digital technologies

PC-15ID-3 Be able to carry out veterinary quality control and preparation 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

PC-15ID-4 Be able to perform a diagnostic examination of animals within the framework of medical examination for timely detection of early preclinical and clinical signs of the disease

PC-15ID-5 Know the types of measures for the prevention of non-infectious animal diseases and metabolic disorders in animals and the requirements for their implementation in accordance with methodological guidelines, instructions, instructions, rules for diagnosis, prevention and treatment of animals

4. PLACE OF PRACTICE IN THE STRUCTURE OF OBOR

Educational clinical practice is a mandatory part of the second block of the curriculum (B2.O. 03(U)). The total labor intensity of educational clinical practice is 6 credits - 216 hours, the internship program is carried out by full-time students for 4 weeks in the 6th semester, full-time and part-time students for 4 weeks in the 8th semester, part-time students - in the 4th year for 4 weeks in accordance with the curriculum and schedule of the academic year. process in the specialty 36.05.01 Veterinary Medicine.

5. SCOPE OF EDUCATIONAL CLINICAL PRACTICE

5.1. Scope of full-time clinical training

Type of practice	Semester	TOTAL:
	6	
Training clinical practice, week/hour / ZE	4/216/6	4/216/6
Classroom work, hour, of which:	60	60
Practical training (PP)	10	10
Independent work, hour, of which:	156	156
Practical training (PP)	108	108
Type of intermediate certification	Credit-1	Credit
TOTAL, week. / hour / SE:	4/216/6	4/216/6

6. CONTENT OF EDUCATIONAL CLINICAL PRACTICE

Students ' development of the program of educational clinical practice is carried out in several stages: preparatory, production and final.

6.1. Content of educational clinical practice for full-time education

#	Stages (sections) practices	Content of the practice stage (section)	Competencies being formed	Labor intensity (hours/day)	Types of academic work, including independent work of students and labor intensity (in hours)				Seme ster	Form of current control and prom.attes tations
					Classroom work, hour., of	whi ch PP	Independe nt work, hour., of which:	PP		
1	preparatory	Obtaining and studying questions of an individual task of practical training, organizational meeting at the supervising department, familiarization with the requirements of occupational safety in the performance of work, fire safety and sanitary standards, as well as requirements for writing a diary, etc. preparation of a practice report. Arrival at the place of practice, familiarization with the organization of work and the specifics of the work of the profile organization.	A) Learning competencies CC-2 is able to manage a project at all stages of its life cycle CC-2ID-1 Knows how to present and describe the results of project activities, including on the basis of digital technologies; methods, criteria and parameters for evaluating project results; principles, methods and requirements for project work. UK-2ID-2 Be able to justify 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	1,8\0,05	0,5	0,08	1,3	0,9	6	Current (marks of the head of practice in documents and report forms)

			<p>quantitative results, deadlines for project work.</p> <p>UK-2ID-3 Master project management in the field of relevant professional activities, including on the basis of digital technologies; distribution of tasks and motivation to achieve goals; management of the development of the project specification, management of the implementation of specialized project work and the process of discussing and finalizing the project; participation in the development of the project specification, development of the project implementation program in professional area; organization of professional discussion of the project, participation in the management of project documentation; design of the project implementation schedule; determination of requirements for the results of project implementation.</p> <p>UK-3 is able to organize and manage the work of a team, developing a team strategy to achieve the set goal</p> <p>UK-3ID-1 Know the problems of selecting an effective team; the main 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</p>								
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			<p>behavior, factors in the formation of organizational relations; strategies and principles of teamwork, the main characteristics of the organizational climate and interaction of team members in the organization.</p> <p>UK-3ID-2 Be able to determine the management style and effectiveness of team management; develop a team strategy; apply the principles and methods of organizing team activities, including using digital technologies; choose methods and methods for studying professional practical tasks.</p> <p>UK-3ID-3 Master the organization and management of team interaction in solving set goals, including the use of digital technologies; creating a team to perform practical tasks; participating in the development of a team work strategy; ability to work in a team.</p> <p>UK-5 is able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction</p> <p>UK-5ID-1 Know the psychological foundations of social interaction aimed at solving professional problems; basic principles of organizing business contacts; methods of preparing for negotiations, national, ethno-cultural and confessional characteristics and folk traditions of the population; basic concepts of</p>								
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			<p>interaction in the organization, features of didactic interactions.</p> <p>UK-5ID-2 To be able to present professional information competently and easily in the process of cross-cultural interaction, including through the use of digital technologies; to observe ethical norms and human rights; to analyze the features of social interaction taking into account national, ethno-cultural, and confessional characteristics.</p> <p>UK-5ID-3 Master the organization of productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communication, educational, ethnic, confessional and other barriers in the process of intercultural interaction; identifying the diversity of cultures in the process of intercultural interaction.</p> <p>UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities</p> <p>UK-7ID-1 Know the basic means and methods of physical education.</p> <p>UK-7ID-2 To be able to select and apply methods and means of physical culture to improve basic physical qualities.</p> <p>UK-7ID-3 Master the methods and means of physical culture to ensure full-fledged social and professional activities.</p>								
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			<p>UK-8 is able to create and maintain safe living conditions, including in the event of emergencies</p> <p>UK-8ID-1 Knows the consequences of exposure to harmful and dangerous factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services.</p> <p>UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations.</p> <p>UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies.</p> <p>B) General professional competencies</p> <p>of OPK-1 Able to determine the biological status and regulatory clinical indicators of animal organs and body systems</p> <p>OPK-1ID-1 Know safety and personal hygiene rules when examining animals, methods of fixing them; schemes of clinical</p>								
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			<p>research of an animal and the procedure for studying individual body systems, including using digital technologies; methodology for recognizing the pathological process.</p> <p>OPK-1ID-2 is able to collect and analyze anamnestic data, conduct laboratory and functional studies using digital computer technologies necessary to determine the biological status of animals.</p> <p>OPK-1ID-3 Possess practical skills in conducting an independent clinical examination of an animal using classical research methods and digital technologies.</p> <p>OPK-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 body</p> <p>OPK-2ID-1 Know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; interspecific relations of animals and plants species of pathogenic microorganisms; mechanisms of influence of anthropogenic and economic factors on the animal body.</p> <p>OPK-2ID-2 Be able to use environmental factors and environmental laws in agricultural production; apply the achievements</p>								
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			<p>of modern microbiology and ecology of microorganisms in animal husbandry and veterinary medicine for the prevention of infectious and invasive diseases and treatment of animals; use environmental monitoring methods in the environmental expertise of agricultural facilities and the production of agricultural products, including: including using digital technologies; assess the impact of anthropogenic and economic factors on the animal body.</p> <p>OPK-2ID-3 Possess an idea of the origin of living organisms, the levels of organization of living matter, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of development of nature and society; the skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, in particular including, with the use of digital technologies</p> <p>, OPK-3 is able to carry out and improve professional activities in accordance with regulatory legal acts in the field of the agro-industrial complex</p> <p>OPK-3ID-1 Knows the basics of national and international veterinary legislation, legislation on digital technologies in the field of the agro-industrial complex,</p>								
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			<p>specific rules and regulations governing veterinary activities at the local, national and internationally.</p> <p>OPK-3ID-2 Should be able to find up-to-date, up-to-date and reliable information about veterinary legislation, including, with the use of digital technologies, rules and regulations governing veterinary activities in a particular region and/or country.</p> <p>OPK-3ID-3 Possess the legal framework and ethical standards when carrying out professional activities.</p> <p>OPK-4 is able to use in professional activity methods of problem solving using modern equipment in the development of new technologies and use modern professional methodology for conducting experimental research and interpreting their results</p> <p>OPK-4ID-1 Know the technical capabilities of modern specialized equipment, methods for solving problems of professional activity.</p> <p>OPK-4ID-2 Should be able to apply modern technologies, including digital ones, and research methods in professional activities, and interpret the results obtained.</p> <p>OPK-4ID-3 Possess the skills of working with specialized equipment for the implementation of tasks set during research and</p>							
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		<p>development of new technologies, including digital</p> <p>OPK-5 is able to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases</p> <p>OPK-5ID-1 Is able to apply new information technologies to solve the following tasks: perform tasks set in their professional activities, work with specialized information databases.</p> <p>OPK-5ID-2 Master the skills of working with the operating system, with text and table processors, with database management systems, with information and search engines on the Internet.</p> <p>OPK-5ID-3 To know new information technologies for solving tasks in their professional activities, to work with specialized information databases.</p> <p>C) Professional competencies</p> <p>PC-1 Collecting anamnesis of animal life and disease to identify the causes of diseases, conducting a general clinical study of animals in order to establish a preliminary diagnosis and determine the further research program</p> <p>PC-1ID-1 Be able to collect and analyze information about the origin and purpose of animals, the method and conditions of keeping, feeding (life history</p> <p>PC-1ID-2 Be able to collect and analyze information about the</p>								
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			<p>occurrence and manifestation of diseases in animals, previous illnesses, epizootological conditions (anamnesis of animal diseases), including from devices – sensors, mechanisms, tags, etc</p> <p>PC-1ID-3 Be able to record animals to ensure safety during the clinical study</p> <p>PC-1ID-4 Be able to conduct a clinical study of animals using general methods: examination, palpation, percussion, auscultation and thermometry</p> <p>PC-1ID-5 Be able to establish a preliminary diagnosis based on the analysis of anamnesis and general methods of clinical research</p> <p>PC-1ID-6 Know the methodology for collecting anamnesis of animal life and disease</p> <p>PC-1ID-7 Know the factors of animal life that contribute to the occurrence of infectious and non-communicable diseases</p> <p>PC-1ID-8 Know the forms and rules for filling out the journal for registration of sick animals and the animal's medical history, including in electronic form in accordance with the requirements of veterinary reporting</p> <p>PC-1ID-9 Know methods of fixation of animals in the conduct of their clinical examinations</p>								
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			<p>PC-1ID-10 to Know the technique of conducting a clinical pet study using the General methods in accordance with the guidelines, instructions, rules, diagnosis, prevention and treatment of animals</p> <p>ПК-2 "development of a program of studies in animals and clinical studies of animals with the use of special (instrumental) and laboratory methods, including diagnosis"</p> <p>PC-2ИД-1 to be Able to research animals with the help of digital equipment and with the use of special (instrumental) methods including endoscopy, intubation, catheterization, radiography, electrocardiography, echocardiography</p> <p>PC-2ИД-2 be able to carry out the interpretation and analysis of data special (instrumental) methods animal study to verify the diagnosis of</p> <p>PC-2ИД-3 to be able to determine the reaction of the cardiovascular system of animals at various load method of functional tests</p> <p>PC-2ИД-4 to be Able to take samples of the biological material of animals for laboratory studies of</p> <p>PC-2ИД-5 to be able to perform analytical preparing, storing the studied biological material transportation to the laboratory</p>								
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			<p>РС-2ИД-6 to be able to carry the interpretation and analysis of data from laboratory studies of animals , the diagnosis of</p> <p>РС-2ИД-7 to Know the indications for the use of digital equipment and special (instrumental) and laboratory studies of animals in accordance with the guidelines, instructions, rules, diagnosis, prevention and treatment of animals</p> <p>ПК-2ИД-8 to Know the Rules of safe operation with digital equipment, tools and equipment used when carrying out special (instrumental) studies of animals, including when carrying out x-ray studies of</p> <p>РС-2ИД-9 to Know the technique of conducting animal research using digital equipment and special (instrumental) methods in accordance with the guidelines, instructions, rules, diagnosis, the prevention and treatment of animal</p> <p>ПК-2ИД-10 to Know the methods and technique of introducing diagnostic and radiopaque material into the animal</p> <p>ПК-2ИД-11 to Know the technique of production of functional tests in animals</p> <p>ПК-2ИД-12 to Know the methods of sampling and analytical sample preparation of biological material for laboratory analysis in accordance with the</p>								
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			<p>methodological documents regulating the sampling of biological material</p> <p>ПК-3 diagnosis based on the analysis of anamnesis, General, special (instrumental) and laboratory studies of ПК-3ИД-1 to be able to carry out the diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases</p> <p>ПК-3ИД-2 be able to use specialized information databases for the diagnosis of animal diseases</p> <p>ПК-3ИД-3 to be Able to issue the results of clinical studies of animals with the use of digital technologies</p> <p>ПК-3ИД-4 to Know the interpretation and analysis of data special (instrumental) methods for the study of animal</p> <p>ПК-3ИД-5 Know the norms of indicators of the state of biological material of animals of different species and the reasons that cause deviations of indicators from the norms</p> <p>of ПК-3ИД-6 Know the etiology and pathogenesis of animal diseases of various types</p> <p>ПК-3ИД-7 Know generally accepted criteria and classifications of animal diseases, approved lists of animal diseases</p> <p>ПК-5ИД-6 Know the state register of medicines for veterinary</p>							
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			<p>use</p> <p>PK-5ID-7 Know the pharmacological and toxicological characteristics of medicinal raw materials, chemical and biological medicines, biologically active additives for the prevention and treatment of animal diseases of various etiologies</p> <p>PK-7 Determine the need to use surgical methods in the treatment of animals, develop a surgical operation plan, including the choice of analgesia method</p> <p>PK-7ID-1 Be able to perform anesthesia of animals before surgery using narcotic, antipsychotic and local anesthetic drugs</p> <p>PC-7ID-2 Know the operational methods of treatment of animals and indications for their use</p> <p>PC-7ID-3 Know the drugs. used for analgesia of animals in veterinary surgery. doses and methods of their use, side effects</p> <p>PK-8 prompt surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes</p> <p>PK-8ИД-1 to be able to make a dissection of the animal's tissues, using surgical tools to create operational access to the affected organ or tissue</p> <p>PK-8ИД-2 be able to carry out surgery using surgical tools to the affected organ or tissue to</p>							
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			<p>ensure the effectiveness of the operational impact</p> <p>PC-8ИД-3 to be able to stop the bleeding with the use of mechanical, physical, chemical and biological methods</p> <p>PC-8ИД-4 to be able to produce fabric connection bloodless and bloody ways of the cavity drainage, dressing, using the dressing and frame material</p> <p>PC-8ИД-5 to Know the rules of use of special equipment in the operating room, surgical instruments and dressings</p> <p>PC-8ИД-6 to Know the technique of surgery in veterinary medicine</p> <p>PC-8ИД-7 to Know the types and techniques of sutures and dressings used in veterinary surgery</p> <p>PC-9 Development of recommendations for the special feeding of sick animals for therapeutic purposes</p> <p>ПК-9ИД-1 Know the types of dietary regimes, the principles of the selection of food with the use of digital technologies, norms, modes of feeding in the diet of animals</p> <p>ПК-15 Organization organizational, technical, zootechnical and veterinary measures aimed at prevention of non-communicable diseases in accordance with the terms of prevention of non-communicable diseases of animals, analysis of the</p>								
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			<p>effectiveness of interventions for the prevention of animal diseases with the aim of improving</p> <p>PC-15ИД-1 to be able to evaluate the influence of the conditions of keeping and feeding animals on their state of health in the framework of the implementation of action plans for the prevention of animal diseases with the use of digital technologies</p> <p>PC-15ИД-2 Be able to assess the effectiveness of preventive measures and methods of their implementation, including the use of digital technologies</p> <p>PC-15ID-3 Be able to carry out veterinary quality control and preparation of animal feed in order to ensure their veterinary and sanitary safety in the framework of the implementation of action plans for the prevention of animal diseases</p> <p>PC-15ID-4 Be able to clinical examination diagnostic examination of animals for timely detection of early preclinical and clinical signs of the disease</p> <p>PK-15ID-5 Know the types of measures for the prevention of non-infectious diseases of animals and metabolic disorders in animals and the requirements for their implementation in accordance with the guidelines, instructions, instructions, rules for diagnosis, prevention and treatment of animals</p>							
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2	production	. Performing the work provided for in the internship program and individual assignment.	<p>A) Learning competencies CC-2 is able to manage a project at all stages of its life cycle CC-2ID-1 Knows how to present and describe the results of project activities, including on the basis of digital technologies; methods, criteria and parameters for evaluating project results; principles, methods and requirements for project work. UK-2ID-2 Be able to justify 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>UK-2ID-3 Master project management in the field of relevant professional activities, including on the basis of digital technologies; distribution of tasks and motivation to achieve goals; management of the development of the project specification, management of the implementation of specialized project work and the process of discussing and finalizing the project; participation in the development of the project specification, development of the project implementation program in</p>	of 178.2\4,9 5	49,5	8,25	128,7	89,1	6	Current (a journal of practice students)
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			<p>professional area; organization of professional discussion of the project, participation in the management of project documentation; design of the project implementation schedule; determination of requirements for the results of project implementation.</p> <p>UK-3 is able to organize and manage the work of a team, developing a team strategy to achieve the set goal</p> <p>UK-3ID-1 Know the problems of selecting an effective team; the main 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 in the formation of organizational relations; strategies and principles of teamwork, the main characteristics of the organizational climate and interaction of team members in the organization.</p> <p>UK-3ID-2 Be able to determine the management style and effectiveness of team management; develop a team strategy; apply the principles and methods of organizing team activities, including using digital technologies; choose methods and methods for studying professional practical tasks.</p> <p>UK-3ID-3 Master the</p>								
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			<p>organization and management of team interaction in solving set goals, including using digital technologies; creating a team to perform practical tasks; participating in the development of a team work strategy; ability to work in a team.</p> <p>UK-5 is able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction</p> <p>UK-5ID-1 Know the psychological foundations of social interaction aimed at solving professional problems; basic principles of organizing business contacts; methods of preparing for negotiations, national, ethno-cultural and confessional characteristics and folk traditions of the population; basic concepts of interaction in the organization, features of didactic interactions.</p> <p>UK-5ID-2 To be able to present professional information competently and easily in the process of cross-cultural interaction, including through the use of digital technologies; to observe ethical norms and human rights; to analyze the features of social interaction taking into account national, ethno-cultural, and confessional characteristics.</p> <p>UK-5ID-3 Master the organization of productive interaction in a professional environment, taking into account national, ethno-cultural,</p>							
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			<p>confessional characteristics; overcoming communication, educational, ethnic, confessional and other barriers in the process of intercultural interaction; identifying the diversity of cultures in the process of intercultural interaction.</p> <p>UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities</p> <p>UK-7ID-1 Know the basic means and methods of physical education.</p> <p>UK-7ID-2 To be able to select and apply methods and means of physical culture to improve basic physical qualities.</p> <p>UK-7ID-3 Master the methods and means of physical culture to ensure full-fledged social and professional activities.</p> <p>UK-8 Able to create and maintain safe living conditions, including in the event of emergencies</p> <p>UK-8ID-1 Know the consequences of exposure to harmful and dangerous factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services.</p> <p>UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to</p>								
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			<p>the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations.</p> <p>UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies.</p> <p>B) General professional competencies</p> <p>OPK-1 is able to determine the biological status and regulatory clinical indicators of animal organs and body systems</p> <p>OPK-1ID-1 Knows safety techniques and personal hygiene rules when examining animals, how to fix them; schemes for clinical research of an animal and the procedure for studying individual body systems, including using digital technologies; methodology recognition of a pathological process.</p> <p>OPK-1ID-2 is able to collect and analyze anamnestic data, conduct laboratory and functional studies using digital computer technologies necessary to determine the biological status of animals.</p> <p>OPK-1ID-3 Possess practical skills in conducting an independent clinical examination of an animal using classical research methods and digital technologies.</p> <p>OPK-2 Able to interpret and</p>								
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			<p>evaluate in professional activity the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal body</p> <p>OPK-2ID-1 To know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; interspecific relations of animals and plants, predator, etc. victims, 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>OPK-2ID-2 Be able to 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 for the prevention of infectious and invasive diseases and treatment of animals; use environmental monitoring methods in the environmental expertise of agricultural facilities and the production of agricultural products, including: including using digital technologies; assess the impact of anthropogenic and economic factors on the animal body.</p> <p>OPK-2ID-3 Possess an idea of the origin of living organisms, the levels of organization of living</p>								
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			<p>matter, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of development of nature and society; the skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, in particular including, with the use of digital technologies</p> <p>, OPK-3 is able to carry out and improve professional activities in accordance with regulatory legal acts in the field of the agro-industrial complex</p> <p>OPK-3ID-1 Knows the basics of national and international veterinary legislation, legislation on digital technologies in the field of the agro-industrial complex, specific rules and regulations governing veterinary activities at the local, national and internationally.</p> <p>OPK-3ID-2 Should be able to find up-to-date, up-to-date and reliable information about veterinary legislation, including, with the use of digital technologies, rules and regulations governing veterinary activities in a particular region and/or country.</p> <p>OPK-3ID-3 Possess the legal framework and ethical standards in the implementation of professional activities.</p>							
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			<p>OPK-4 is able to use in professional activity methods of problem solving using modern equipment in the development of new technologies and use modern professional methodology for conducting experimental research and interpreting their results</p> <p>OPK-4ID-1 Know the technical capabilities of modern specialized equipment, methods for solving problems of professional activity.</p> <p>OPK-4ID-2 Should be able to apply modern technologies, including digital ones, and research methods in professional activities, and interpret the results obtained.</p> <p>OPK-4ID-3 Master the skills of working with specialized equipment for the implementation of tasks set during research and development of new technologies, including digital</p> <p>OPK-5 He is able to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases of OPK-5ID-1 . He is able to apply new information technologies to solve tasks in his professional activities, work with specialized information databases.</p> <p>OPK-5ID-2 Master the skills of working with the operating system, with text and table processors, with database management systems, with information and search</p>								
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			<p>engines on the Internet.</p> <p>OPK-5ID-3 To know new information technologies for solving tasks in their professional activities, to work with specialized information databases.</p> <p>C) Professional competence</p> <p>PK-1 Collection of an anamnesis of life and disease of animals to identify the causes of diseases, the holding of the General clinical pet study with the aim of establishing a preliminary diagnosis and follow-up research program</p> <p>PC-1ID-1 to be able to collect and analyse information about the origin and destination of the animals, the method and conditions, feeding (history of animals), including devices, sensors, mechanisms, sensors, labels, etc.</p> <p>PC-1ID-2 to be able to collect and analyse information about the origin and manifestation of the disease in animals previously transferred diseases, epizootic situation (the clinical history of animals), including devices, sensors, mechanisms, sensors, labels, etc.</p> <p>PC-1ID-3 to be able to capture animals for safety during clinical trials of</p> <p>PC-1ID-4 to be able to produce a clinical study of the animals using the General methods: inspection, palpation, percussion, auscultation and</p>							
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			<p>thermometry</p> <p>PC-1ID-5 be able to establish a preliminary diagnosis based on the analysis of anamnesis and clinical studies General methods</p> <p>PC-1ID-6 to Know the methods of collecting anamnesis of life and disease animal</p> <p>PC-1ID-7 to Know the factors of life, contributing to the emergence of infectious and non-infectious diseases</p> <p>PC-1ID-8 to Know the forms and rules of filling of the journal for sick animals and medical history of the animal, including the electronic form in accordance with the requirements of veterinary reporting</p> <p>PC-1ID-9 to Know the methods of fixation of animals in the conduct of their clinical examinations</p> <p>PC-1ID-10 to Know the technique of conducting a clinical pet study using the General methods in accordance with the guidelines, instructions, rules, diagnosis, prevention and treatment of animals</p> <p>PK-2 "development of a program of studies in animals and clinical studies of animals with the use of special (instrumental) and laboratory methods including diagnosis"</p> <p>PC-2ИД-1 to be Able to research animals with the help of</p>							
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			<p>digital equipment and with the use of special (instrumental) techniques, including endoscopy, intubation, catheterization, radiography, electrocardiography, echocardiography</p> <p>PC-2ИД-2 be able to carry out the interpretation and analysis of data special (instrumental) methods animal study to verify the diagnosis of</p> <p>PC-2ИД-3 To be able to determine the reaction of the cardiovascular system of animals at various load method of functional tests</p> <p>PC-2ИД-4 to be Able to take samples of the biological material of animals for laboratory studies of</p> <p>PC-2ИД-5 to be able to perform analytical preparing, storing the studied biological material, transportation to the laboratory</p> <p>PC-2ИД-6 to be able to carry the interpretation and analysis of data from laboratory studies of animals, the diagnosis of</p> <p>PC-2ИД-7 to Know the indications for the use of digital equipment and special (instrumental) and laboratory animal research in accordance with the guidelines, instructions, rules, diagnosis, prevention and treatment of animals</p> <p>ПК-2ИД-8 to Know the Rules of safe operation with digital equipment, tools and equipment</p>							
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			<p>used when carrying out special (instrumental) studies of animals, including when carrying out x-ray studies of</p> <p>ПК-2ИД-9 to Know the technique of conducting animal research using digital equipment and special (instrumental) methods in accordance with the guidelines, instructions, rules, diagnosis, the prevention and treatment of animal</p> <p>ПК-2ИД-10 to Know the methods and technique of introducing diagnostic and radiopaque material into the animal</p> <p>ПК-2ИД-11 to Know the technique of production of functional tests in animals</p> <p>ПК-2ИД-12 to Know the methods of sampling and analytical sample preparation of biological material to perform laboratory tests in accordance with methodological documents regulating the sampling of biological material</p> <p>ПК-3 diagnosis based on the analysis of anamnesis, General, special (instrumental) and laboratory studies</p> <p>of ПК-3ИД-1 to be able to carry out the diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases</p> <p>ПК-3ИД-2 be able to use specialized information databases for the diagnosis of animal</p>								
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			<p>diseases</p> <p>ПК-3ИД-3 to be Able to issue the results of clinical studies of animals with the use of digital technologies</p> <p>РС-3ИД-4 to Know the interpretation and analysis of data special (instrumental) methods for the study of animal</p> <p>ПК-3ИД-5 rules to Know indicators of the status of biological material of animals of different types and causes, causes of deviations from norms</p> <p>РС-3ИД-6 to Know the etiology and pathogenesis of diseases of animals of various types of</p> <p>РС-3ИД-7 to Know the current criteria and classification of diseases of animals, approved lists of animal diseases</p> <p>ПК-5ИД-6 Know the state register of medicinal products for veterinary use</p> <p>РС-5ИД-7 to Know the pharmacological and Toxicological characteristics of pharmaceutical raw materials, medicines, chemical and biological nature, dietary supplements for the prevention and treatment of animal diseases of various etiologies</p> <p>РС-7 determine whether the use of operative-surgical methods in treatment of animals, the development plan for the surgery, including the choice of the method of anesthesia</p> <p>РС-7ИД-1 Be able to</p>							
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			<p>perform anesthesia of animals before surgery using narcotic, antipsychotic and local anesthetic drugs</p> <p>PC-7ID-2 Know the operational methods of treatment of animals and indications for their use</p> <p>PC-7ID-3 Know the drugs. used for analgesia of animals in veterinary surgery. doses and methods of their use, side effects</p> <p>PK-8 prompt surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, for cosmetic purposes</p> <p>PK-8ИД-1 to be able to make a dissection of the animal's tissues, using surgical tools to create operational access to the affected organ or tissue</p> <p>PK-8ИД-2 be able to carry out surgery using surgical tools to the affected organ or tissue to ensure the effectiveness of the operational impact</p> <p>PC-8ИД-3 to be able to stop the bleeding with the use of mechanical, physical, chemical and biological methods</p> <p>PC-8ИД-4 to be able to produce fabric connection bloodless and bloody ways of the cavity drainage dressing with dressing and using frame material</p> <p>PC-8ИД-5 to Know the rules of use of special equipment in the operating room, surgical instruments and dressings</p>							
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			<p>PC-8ИД-6 to Know the technique of surgery in veterinary medicine</p> <p>PC-8ИД-7 to Know the types and techniques of sutures and dressings used in veterinary surgery</p> <p>PC-9 Development of recommendations for the special feeding of sick animals for therapeutic purposes</p> <p>ПК-9ИД-1 Know the types of dietary regimes, the principles of the selection of food with the use of digital technologies, norms, modes of feeding in the diet of animals</p> <p>ПК-15 Organization organizational, technical, zootechnical and veterinary measures aimed at prevention of non-communicable diseases in accordance with the terms of prevention of non-communicable diseases of animals, analysis of the effectiveness of interventions for the prevention of animal diseases with the aim of improving</p> <p>PC-15ИД-1 to be able to evaluate the influence of the conditions of keeping and feeding animals on their state of health in the framework of the implementation of action plans for the prevention of animal diseases with the use of digital technologies</p> <p>PC-15ИД-2 be able to assess the effectiveness of preventive measures and their implementation, including with the</p>								
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			<p>use of digital technologies</p> <p>PC-15ИД-3 be able to carry out veterinary quality control and fodder for the animals to ensure their veterinary and sanitary safety in the framework of the implementation of action plans for the prevention of animal diseases</p> <p>PK-15ИД-4 to be able to produce through clinical examination, diagnostic testing of animals for the timely detection of early preclinical and clinical signs of illness</p> <p>PC-15ИД-5 to Know the types of interventions for the prevention of non-communicable diseases and metabolic disorders in animals, and requirements to conduct them in accordance with the guidelines, regulations, instructions, rules, diagnosis, the prevention and treatment of the animals</p>							
3	final	Preparation of the practice report	<p>A) Training competencies of the CC-2 Able to manage a project at all stages of its life cycle</p> <p>UK-2ID-1 Know how to present and describe the results of project activities, including on the basis of digital technologies; methods, criteria and parameters for evaluating the results of project implementation; principles, methods and requirements for project work.</p> <p>UK-2ID-2 Be able to justify the theoretical and practical significance of the results obtained; check and analyze</p>	36\1	10	1,67	26	18	6	interim assessment (protection practice report; offset)

		<p>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>UK-2ID-3 Master project management in the field of relevant professional activities, including on the basis of digital technologies; distribution of tasks and motivation to achieve goals; management of the development of the project specification, management of the implementation of specialized project work and the process of discussing and finalizing the project; participation in the development of the project specification, development of the project implementation program in professional area; organization of professional discussion of the project, participation in the management of project documentation; design of the project implementation schedule; determination of requirements for the results of project implementation.</p> <p>UK-3 is able to organize and manage the work of a team, developing a team strategy to achieve the set goal</p> <p>UK-3ID-1 Know the problems of selecting an effective</p>								
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			<p>team; the main 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 in the formation of organizational relations; strategies and principles of teamwork, the main characteristics of the organizational climate and interaction of team members in the organization.</p> <p>UK-3ID-2 Be able to determine the management style and effectiveness of team management; develop a team strategy; apply the principles and methods of organizing team activities, including using digital technologies; choose methods and methods for studying professional practical tasks.</p> <p>UK-3ID-3 Master the organization and management of team interaction in solving set goals, including using digital technologies; creating a team to perform practical tasks; participating in the development of a team work strategy; ability to work in a team.</p> <p>UK-5 is able to analyze and take into account the diversity of cultures in the process of cross-cultural interaction</p> <p>UK-5ID-1 Know the psychological foundations of social interaction aimed at solving</p>							
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			<p>professional problems; basic principles of organizing business contacts; methods of preparing for negotiations, national, ethno-cultural and confessional characteristics and folk traditions of the population; basic concepts of interaction in the organization, features of didactic interactions.</p> <p>UK-5ID-2 Be able to present professional information competently and easily in the process of cross-cultural interaction, including through the use of digital technologies; observe ethical norms and human rights; analyze the features of social interaction taking into account national, ethno-cultural, and confessional characteristics.</p> <p>UK-5ID-3 Master the organization of productive interaction in a professional environment, taking into account national, ethno-cultural, confessional characteristics; overcoming communication, educational, ethnic, confessional and other barriers in the process of intercultural interaction; identifying the diversity of cultures in the process of intercultural interaction.</p> <p>UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities</p> <p>UK-7ID-1 Know the basic means and methods of physical education.</p> <p>UK-7ID-2 To be able to</p>							
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			<p>select and apply methods and means of physical culture to improve basic physical qualities.</p> <p>UK-7ID-3 Master the methods and means of physical culture to ensure full-fledged social and professional activities.</p> <p>UK-8 is able to create and maintain safe living conditions, including in the event of emergencies</p> <p>UK-8ID-1 Knows the consequences of exposure to harmful and dangerous factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services.</p> <p>UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations.</p> <p>UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies.</p> <p>B) General professional competencies</p> <p>OPK-1 is able to determine the</p>								
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			<p>biological status and regulatory clinical indicators of animal organs and body systems</p> <p>OPK-1ID-1 Knows safety techniques and personal hygiene rules when examining animals, how to fix them; schemes for clinical research of an animal and the procedure for studying individual body systems, including using digital technologies; methodology recognition of a pathological process.</p> <p>OPK-1ID-2 is able to collect and analyze anamnestic data, conduct laboratory and functional studies using digital computer technologies necessary to determine the biological status of animals.</p> <p>OPK-1ID-3 Possess practical skills in conducting an independent clinical examination of an animal using classical research methods and digital technologies.</p> <p>OPK-2 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 body</p> <p>OPK-2ID-1 To know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; interspecific relations of animals and plants, predator, etc. victims, parasites and hosts; ecological features of some types of</p>									
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			<p>pathogenic microorganisms; mechanisms of influence of anthropogenic and economic factors on the animal body.</p> <p>OPK-2ID-2 Be able to 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 for the prevention of infectious and invasive diseases and treatment of animals; use environmental monitoring methods in the environmental expertise of agricultural facilities and the production of agricultural products, including: including using digital technologies; assess the impact of anthropogenic and economic factors on the animal body.</p> <p>OPK-2ID-3 Possess an idea of the origin of living organisms, the levels of organization of living matter, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of development of nature and society; the skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, in particular including, with the use of digital technologies</p> <p>, OPK-3 is able to carry out and improve professional activities in</p>								
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			<p>accordance with regulatory legal acts in the field of the agro-industrial complex</p> <p>OPK-3ID-1 Knows the basics of national and international veterinary legislation, legislation on digital technologies in the field of the agro-industrial complex, specific rules and regulations governing veterinary activities at the local, national and internationally.</p> <p>OPK-3ID-2 Should be able to find up-to-date, up-to-date and reliable information about veterinary legislation, including, with the use of digital technologies, rules and regulations governing veterinary activities in a particular region and/or country.</p> <p>OPK-3ID-3 Possess the legal framework and ethical standards in the implementation of professional activities.</p> <p>OPK-4 is able to use in professional activity methods of problem solving using modern equipment in the development of new technologies and use modern professional methodology for conducting experimental research and interpreting their results</p> <p>OPK-4ID-1 Know the technical capabilities of modern specialized equipment, methods for solving problems of professional activity.</p> <p>OPK-4ID-2 Should be able to apply modern technologies,</p>							
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			<p>including digital ones, and research methods in professional activities, and interpret the results obtained.</p> <p>OPK-4ID-3 Master the skills of working with specialized equipment for the implementation of tasks set during research and development of new technologies, including digital</p> <p>OPK-5 He is able to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases of OPK-5ID-1 . He is able to apply new information technologies to solve tasks in his professional activities, work with specialized information databases.</p> <p>OPK-5ID-2 Master the skills of working with the operating system, with text and table processors, with database management systems, with information and search engines on the Internet.</p> <p>OPK-5ID-3 To know new information technologies for solving tasks in their professional activities, to work with specialized information databases.</p> <p>C) Professional competence</p> <p>PK-1 Collection of an anamnesis of life and disease of animals to identify the causes of diseases, the holding of the General clinical pet study with the aim of establishing a preliminary diagnosis and follow-up research program</p>							
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			<p>PC-1ID-1 to be able to collect and analyse information about the origin and destination of the animals, the method and conditions, feeding (history of animals), including devices, sensors, mechanisms, sensors, labels, etc.</p> <p>PC-1ID-2 to be able to collect and analyse information about the origin and manifestation of the disease in animals previously transferred diseases, epizootic situation (the clinical history of animals), including devices, sensors, mechanisms, sensors, labels, etc.</p> <p>PC-1ID-3 to be able to capture animals for safety during clinical trials of</p> <p>PC-1ID-4 to be able to produce a clinical study of the animals using the General methods: inspection, palpation, percussion, auscultation and thermometry</p> <p>PC-1ID-5 be able to establish a preliminary diagnosis based on the analysis of anamnesis and clinical studies General methods</p> <p>PC-1ID-6 to Know the methods of collecting anamnesis of life and disease animal</p> <p>PC-1ID-7 to Know the factors of life, contributing to the emergence of infectious and non-infectious diseases</p> <p>PC-1ID-8 to Know the forms and rules of filling of the</p>							
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			<p>journal for sick animals and medical history of the animal, including the electronic form in accordance with the requirements of veterinary reporting</p> <p>PC-1ID-9 to Know the methods of fixation of animals in the conduct of their clinical examinations</p> <p>PC-1ID-10 to Know the technique of conducting a clinical pet study using the General methods in accordance with the guidelines, instructions, rules, diagnosis, prevention and treatment of animals</p> <p>PK-2 "development of a program of studies in animals and clinical studies of animals with the use of special (instrumental) and laboratory methods including diagnosis"</p> <p>PC-2ИД-1 to be Able to research animals with the help of digital equipment and with the use of special (instrumental) techniques, including endoscopy, intubation, catheterization, radiography, electrocardiography, echocardiography</p> <p>PC-2ИД-2 be able to carry out the interpretation and analysis of data special (instrumental) methods animal study to verify the diagnosis of</p> <p>PC-2ИД-3 To be able to determine the reaction of the cardiovascular system of animals at various load method of</p>								
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			<p>functional tests</p> <p>PC-2ИД-4 to be Able to take samples of the biological material of animals for laboratory studies of</p> <p>PC-2ИД-5 to be able to perform analytical preparing, storing the studied biological material, transportation to the laboratory</p> <p>PC-2ИД-6 to be able to carry the interpretation and analysis of data from laboratory studies of animals, the diagnosis of</p> <p>PC-2ИД-7 to Know the indications for the use of digital equipment and special (instrumental) and laboratory studies of animals in accordance with the guidelines instructions, rules, diagnosis, prevention and treatment of animals</p> <p>ПК-2ИД-8 to Know the Rules of safe operation with digital equipment, tools and equipment used when carrying out special (instrumental) studies of animals, including when carrying out x-ray studies of</p> <p>PC-2ИД-9 to Know the technique of conducting animal research using digital equipment and special (instrumental) methods in accordance with the guidelines, instructions, rules, diagnosis, the prevention and treatment of animal</p> <p>ПК-2ИД-10 to Know the methods and technique of introducing diagnostic and radiopaque material into the</p>								
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			<p>animal</p> <p>ПК-2ИД-11 to Know the technique of production of functional tests in animals</p> <p>ПК-2ИД-12 to Know the methods of sampling and analytical sample preparation of biological material for laboratory analysis in accordance with the methodological documents regulating the sampling of biological material</p> <p>РС-3 diagnosis based on the analysis of anamnesis, General, special (instrumental) and laboratory studies</p> <p>of РС-3ИД-1 to be Able to carry out the diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases</p> <p>ПК-3ИД-2 be able to use specialized information databases for the diagnosis of animal diseases</p> <p>ПК-3ИД-3 to be Able to issue the results of clinical studies of animals with the use of digital technologies</p> <p>РС-3ИД-4 to Know the interpretation and analysis of data special (instrumental) methods for the study of animal</p> <p>ПК-3ИД-5 rules to Know indicators of the status of biological material of animals of different types and causes, causes of deviations from norms</p> <p>РС-3ИД-6 to Know the</p>							
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			<p>etiology and pathogenesis of diseases of animals of various types of</p> <p>PC-3ИД-7 to Know the current criteria and classification of diseases of animals, approved lists of animal diseases</p> <p>PK-5ИД-6 Know the state register of medicinal products for veterinary use</p> <p>PC-5ИД-7 to Know the pharmacological and Toxicological characteristics of pharmaceutical raw materials, medicines, chemical and biological nature, dietary supplements for the prevention and treatment of animal diseases of various etiologies</p> <p>PC-7 determine whether the use of operative-surgical methods in treatment of animals, the development plan for the surgery, including the choice of the method of anesthesia</p> <p>PC-7ИД-1 Be able to perform anesthesia of animals before surgery using narcotic, antipsychotic and local anesthetic drugs</p> <p>PC-7ИД-2 Know the operational methods of treatment of animals and indications for their use</p> <p>PC-7ИД-3 Know the drugs. used for analgesia of animals in veterinary surgery. doses and methods of their use, side effects</p> <p>PK-8 prompt surgical intervention in the body of animals in the treatment of various</p>							
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			<p>diseases, castration, sterilization, for cosmetic purposes</p> <p>ПК-8ИД-1 to be able to make a dissection of the animal's tissues, using surgical tools to create operational access to the affected organ or tissue</p> <p>ПК-8ИД-2 be able to carry out surgery using surgical tools to the affected organ or tissue to ensure the effectiveness of the operational impact</p> <p>РС-8ИД-3 to be able to stop the bleeding with the use of mechanical, physical, chemical and biological methods</p> <p>РС-8ИД-4 to be able to produce fabric connection bloodless and bloody ways of the cavity drainage, dressing, using the dressing and frame material</p> <p>РС-8ИД-5 to Know the rules of use of special equipment in the operating room, surgical instruments and dressings</p> <p>РС-8ИД-6 to Know the technique of surgery in veterinary medicine</p> <p>РС-8ИД-7 to Know the types and techniques of sutures and dressings used in veterinary surgery</p> <p>РС-9 Development of recommendations for the special feeding of sick animals for therapeutic purposes</p> <p>ПК-9ИД-1 Know the types of dietary regimes, the principles of the selection of food with the use of digital</p>								
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			<p>technologies, norms, modes of feeding in the diet of animals</p> <p>PK-15 Organization</p> <p>organizational, technical, zootechnical and veterinary measures aimed at prevention of non-communicable diseases in accordance with the terms of prevention of non-communicable diseases of animals, analysis of the effectiveness of interventions for the prevention of animal diseases with the aim of improving</p> <p>PC-15ИД-1 to be able to evaluate the influence of the conditions of keeping and feeding animals on their state of health in the framework of the implementation of action plans for the prevention of animal diseases with the use of digital technologies</p> <p>PC-15ИД-2 be able to assess the effectiveness of preventive measures and their implementation, including with the use of digital technologies</p> <p>PC-15ИД-3 be able to carry out veterinary quality control and fodder for the animals to ensure their veterinary and sanitary safety in the framework of the implementation of action plans for the prevention of animal diseases</p> <p>PK-15ИД-4 to be able to produce through clinical examination, diagnostic testing of animals for the timely detection of early preclinical and clinical signs of illness</p> <p>PC-15ИД-5 to Know the types of</p>								
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			interventions for the prevention of non-communicable diseases and metabolic disorders in animals, and requirements to conduct them in accordance with the guidelines, regulations, instructions, rules, diagnosis, the prevention and treatment of animal							
TOTAL:				216\6	60	10	156	108		

6.1. Content of educational clinical practice in the discipline "Animal hygiene"

1. *Analysis of the state of livestock farms.*

Direction and specialization of farms. Structure of farm premises (complex), technology of animal husbandry. Methods and systems of animal husbandry. Sanitary gaps between buildings. Paddocks, playgrounds and courtyards. Cubic capacity and indoor area per animal. Dimensions of stalls, machines, cages, feeders, manure and feed passages number of windows, their size.

Installation of ventilation, heating, and manure harvesting systems for forage distribution. The presence and nature of litter, its consumption rates.

Use of UV and IR lamps.

Hygiene of rearing young animals, compliance with sanitary and hygienic requirements for the care of the mother's body and newborn animals.

Care for the skin, limbs and hooves of animals.

Hygiene of milk production. Milking methods, udder care, primary milk processing and transportation. Washing and disinfection of milking machines, washing dishes, and milk lines.

Complex of sanitary and hygienic measures: compliance with preventive breaks and their duration, sanitation of premises, disinfection, deratization.

Completing the herd, observing the principle "everything is empty – everything is occupied". Quarantine of animals.

Based on the results of the conducted research, provide in the report an act of zoohygienic examination of one animal husbandry premises (see appendix) or *prepare* a photo album or video. passport of one animal husbandry premises (see appendix) or prepare a photo album or video.

Certification of water sources and sanitary and topographical description of the water source (according to the room you selected for analysis).

Sources of water supply for livestock farms, the amount of water in them; the volume of water consumed by the farm per day; organoleptic assessment of water and laboratory data on chemical and bacteriological analysis of water. Sanitary and hygienic condition of water sources. Organization of water supply and watering of animals during stable and pasture periods. Cleaning and disinfection of drinking water carried out on farms. Analysis of the morbidity of animals and poultry when using poor-quality water.

State of veterinary and veterinary-sanitary facilities and structures.

a) The availability of veterinary clinics and pharmacies, the operating mode of veterinary and sanitary checkpoints, dezblok, sanitary slaughterhouses.

b) *Manure storage facilities.* Methods of manure removal, transportation of manure to the manure storage facility. Manure storage device. Methods of manure storage, biothermal disinfection. Availability and arrangement of liquid collectors.

c) *Sewage treatment plants.* Installation of sewage treatment plants. Methods of wastewater treatment and disinfection.

2. *Feed shop equipment. Sanitary and hygienic assessment of feed quality.*

Availability, arrangement of the feed shop and technology of feed preparation for feeding.

Silage harvesting, laying, tamping, silage shelter in trenches (pay special attention to the location and arrangement of silage trenches!). Harvesting and storage of other feed (haylage, hay).

Take feed samples and send them to the laboratory for research. Organoleptic evaluation of feed. Toxicomycological laboratory analysis of feed. Diseases of animals when using poor quality feed.

3. *Pasture keeping of animals.*

Formation of droves. Inspection and veterinary and sanitary assessment of pastures. Preparation of pastures for grazing animals. Poisonous plants found in pasture and the presence of cases of poisoning of animals. Build a herbarium.

Choosing a place to set up a summer camp. Setting up a summer camp for dairy cattle and pigs.

Mode and organization of pasture maintenance of various animal species and groups (number of pens, duration of grazing, distances between farms and pastures, duration and distance of runs).

Certificate of zoohygienic examination

- 1) The name of the farm, the direction of its specialization.
- 2) Brief description of natural conditions (climate, soil, topography).
- 3) The main composition of the livestock and its age, productivity, method of maintenance.
- 4) Location of the farm (distance from other farms, localities, roads, veterinary buildings, pastures, etc.).
- 5) Characteristics of the farm site (area, soil, topography, ground water level, direction of prevailing winds).
- 6) Organization of pasture, pasture-camp, and stable-camp animal husbandry.
- 7) Availability of manure storage facilities and treatment facilities (technology of their operation).
- 8) Standard project number, availability of project documentation when the building was built.
- 9) The size of sanitary protection zones for a given livestock (poultry) enterprise.
- 10) The size of zoo-veterinary gaps in relation to other livestock (poultry) buildings.
- 11) Placement of farm buildings (master plan).
- 12) Dimensions of the room (area, cubic capacity).
- 13) The area of the stall, machine, group cage, box. Construction material, sanitary condition.
- 14) Size of feeders.
- 15) Feeding front and feed distribution mechanization.
- 16) Sanitary condition of feeders and feed shops.
- 17) Water supply (type of drinkers, sanitary condition of drinkers).
- 18) passageways in the room - manure, feed, forage manure, evacuation (dimensions, construction material, sanitary condition).
- 19) The type of tether.
- 20) The system of ventilation structures (mechanical or natural supply and exhaust, the cross-sectional area of exhaust pipes and their number, the cross-sectional area of supply channels and their number, the presence of heaters, the location of elements of ventilation equipment in the room, the sanitary condition of ventilation structures).
- 21) Illumination (number of windows, size of window frames, single or double glazing, light coefficient-SC, height of windows above the floor, presence of artificial infrared and ultraviolet radiation sources).
- 22) The number of gates or doors, their size. Availability of vestibules.
- 23) The presence of an attic room or a combined roof.
- 24) manure removal system and mechanisms (mobile manure removal facilities, stationary manure removal facilities, other manure removal systems, sanitary condition of the manure removal system).
- 25) Manure storage method. Method of decontamination of manure. Disposal of manure (manure).
- 26) Disinfection, disinsection, deratization, control of stray animals (by whom it is performed,

quality of work, regularity, availability of documents).

27) Staffing of service personnel and veterinary specialists(according to the staffing table, in fact).

28) The state of organization of veterinary training for farm workers.

29) Organization of a sanitary day on the farm. The role of the veterinary service in conducting the sanitary day.

30) Determination and evaluation of indoor microclimatic parameters (air temperature, relative humidity in%, air mobility in m / s, air cooling capacity in mcal / cm sq./sec, natural illumination in lux, specific power of electric lighting in w/sq. m., gas concentration (ammonia- in mg/m.carbon dioxide in%, hydrogen sulfide in mg / cubic meter, carbon monoxide in mg/cubic meter).

31) Conclusion on the survey of the farm premises.

32) Suggestions and recommendations for eliminating deficiencies and improving the veterinary and sanitary condition on the farm.

6.2. Content of educational clinical practice in the discipline "Clinical diagnostics"

General diagnostics

In the course of practice, the student conducts a clinical examination of animals using basic research methods (examination, palpation, percussion, auscultation, thermometry), learns the ability to correctly use medical, technical and veterinary equipment (sounding, ECG, ultrasound, X-ray and other research methods), tools and equipment for laboratory and diagnostic purposes. Master the rules for collecting blood, urine, and other substrates for laboratory analysis.

1. General animal research.

Clinical study plan, patient registration, and anamnestic data collection. Definition of habitus. Examination of the skin, superficial lymph nodes and mucous membranes. Thermometry.

2. Research of the cardiovascular system.

Study of the heartbeat. Practicing techniques of percussion and auscultation of the heart in different animal species, recognizing changes in the boundaries of cardiac dullness and heart tones, the presence of heart murmurs. Determination of the frequency, rhythm, quality of arterial pulse and blood pressure. Venous pulse examination. Development of methods of functional diagnostics of the cardiovascular system.

3. Examination of the respiratory system.

Development of methods and techniques for studying nasal discharge, nasal cavity and adnexal cavities, larynx, trachea, and thyroid gland. The technique of percussion and chest auscultation in different animal species is normal and pathological. Functional methods of respiratory research.

4. Study of the digestive system.

Research of food and drink intake, oral cavity, pharynx, esophagus (in birds – goiter), probing of esophagus, pre-pancreas and abomasum in cattle and small cattle, stomach in horses, pigs, dogs and cats. Study of the intestines, bowel movements, liver and spleen in different animal species.

5. Examination of the urinary system.

Examination of the act of urination, kidneys, bladder, urethra. Laboratory examination of urine.

6. Research of the nervous system.

Development of techniques for clinical research of animal behavior, skull, spine, surface and deep sensitivity, analyzers, motor sphere, reflexes, and the autonomic nervous system.

7. Additional research.

a) laboratory tests

Blood testing (methods for obtaining blood from different animal species, blood stabilization, determination of the morphological and chemical composition of blood).

Urine testing (receiving, storing, studying the physical and chemical properties of urine, microscopy of urine sediment).

Fecal examination (sample collection, physical properties, chemical examination of fecal matter, microscopy).

b) special research methods

Mastering the methods of probing, catheterization, biopsy, electrocardiography, X-ray and ultrasound examinations and other methods. It is performed only under the supervision of teachers or veterinarians.

The intern should evaluate the effectiveness of dispensary monitoring of healthy and sick animals, organize and monitor the implementation of mass diagnostic and therapeutic measures aimed at previously identifying sick animals. Correct use of clinical documentation, management of medical history.

6.3. Content of educational clinical practice in the discipline "Veterinary pharmacology. Toxicology"

1. Introduction to the veterinary pharmacy:

- a) placement, equipment and maintenance of a veterinary pharmacy;
- b) a list of the nomenclature of medicinal substances available in the pharmacy and used on the farm;
- c) storage of medicinal substances and biologics, the presence of warehouses for storing biologics, deodorants, cabinets and specially equipped places for storing strong and toxic substances;
- d) accounting of medicines;
- e) availability of veterinary first-aid kits in livestock farms, their equipment.

2. Work in a veterinary pharmacy:

prescribing various dosage forms: powders, tablets, ointments, liniments, potions, solutions. Preparation of dosage forms according to prescriptions. Preparation of disinfection solutions.

3. Mastering the following methods:

applications of various medicinal and poisonous plants that grow in the field of practice, and a description of the danger of toxic plants.

The report must include:

1. The organization of the pharmacy and its material support (dishes, cabinets, tools, dressings). Medication accounting and documentation.
2. Storage conditions for medicinal products (toxic and potent), as well as vaccines, serums, dezsredstv, etc.).
3. Methods of sterilization of dosage forms for injection.
4. What dosage forms had to be prepared during the practice and describe the methods of preparing liquid dosage forms.
5. Methods of drug administration (which methods were mastered during practice).
6. List of medicines available in the pharmacy. Present by groups (depressing CNS, excitatory CNS, laxatives, diuretics, etc.) with the form of release and annotations to them.
7. Note in your diary what medicinal plants were used to treat various diseases in animals. In what dosage form they were at the same time and indicate the method of its preparation. Submit a herbarium of 5-10 medicinal and poisonous plants (well designed).

CONCLUSION: all the positive and negative aspects in the work of the pharmacy (in your opinion) should be reflected in the diary or report.

6.4. Content of educational clinical practice in the discipline "Operative surgery with topographic anatomy"

1. To study the conditions of performing surgical operations in the conditions of providing assistance to animals with surgical diseases.
2. Get acquainted with the operating room equipment and preparation of the operating room, instruments, dressings, medicines and preparations for anesthesia and immobilization during operations on animals.
3. To study ways of preparing the surgeon's hands and the operating field in animals during operations and medical procedures in surgically ill animals.
4. Work out ways to fix animals during surgical operations and medical procedures.
5. Participate in performing operations on animals, in providing surgical care.
6. Get acquainted with the instructions and instructions for drugs that are used in the provision of surgical care to animals. with the establishment of surgical work in veterinary institutions and livestock farms, with the organization of mass economic operations of farm animals.

6.5. Content of educational clinical practice in the discipline "Veterinary microbiology and mycology"

Familiarization with the diagnostic laboratory, safety techniques, general principles and methods of microbiological and virological diagnostics.

Preparation and forwarding of the research material. Familiarization with the preparation of accompanying documents.

Study of the basic basic techniques that allow conducting bacteriological and virological research.

Statement and accounting of the results of the main serological reactions (RA, RID, RSC, ELISA, etc.).

Participation in mass events aimed at preventing and controlling infectious diseases.

Get acquainted with biologics used for the diagnosis and specific prevention of infectious diseases of animals.

7. FORMS OF REPORTING ON EDUCATIONAL CLINICAL PRACTICE

The completed work on mastering the program of educational clinical practice should be presented in detail to students in the diary and practice report. The diary is filled out by the student every day with a detailed description of the work done in the appropriate form.

Diary form

Date	Completed work	Results of the work done	Notes (marks of the head of the practice)
1	2	3	4

In the practice report, the student should submit materials on such disciplines as animal hygiene, clinical diagnostics, veterinary pharmacology, toxicology, operative surgery with topographic anatomy, veterinary microbiology and mycology on issues in accordance with the content of the practice.

The practice report should be issued in electronic format and then printed out or filled out by hand, on A4 sheets., in accordance with the established requirements(Size and font type: Font size 14, font type Times New Roman, underline, use of bold is not recommended. Page margins: Left indent – 3 cm, Right indent - 2 cm, Top and bottom indent-2 cm. Paragraph indent – 1.25 cm.)

Protection of diaries and reports on practice is carried out at a meeting of the supervising department.. Based on the results of defending the practice report, students are certified in the form of an undifferentiated test. Implementation of the internship program, keeping a diary, preparation and protection of the internship report can be carried out using distance learning technologies.

8. LIST OF EDUCATIONAL LITERATURE AND INTERNET RESOURCES REQUIRED FOR MASTERING THE INTERNSHIP PROGRAM

8.1. Basic literature

1. 10. Kuznetsov A. F., Nikitin G. S. Modern technologies and hygiene of poultry keeping: A textbook. - St. Petersburg: Lan PublishingHouse, 2022-352 p. <https://e.lanbook.com/book/3737> (date of request: June 24, 2024).
2. 12. Kuznetsov A. F., Hygiene of animal husbandry: textbook; edited by A. F. Kuznetsov. St. Petersburg: Lan Publ., 2020, 380 p <https://e.lanbook.com/book/92947>. <https://e.lanbook.com/book/92947> .(date of request: June 24, 2024).
3. 7. Kuznetsov A. F., Rodin V. I. et al. Praktikum po veterinarnoi sanitarii, zoohygiene i bioekologi – Lan', 2017. 512 p. (in Russian) <https://e.lanbook.com/reader/book/121299> (date of request: June 24, 2024).
4. 9. Kuznetsov A. F., Tyurin V. G., Semenov V. G. [et al.] Private zoohygiena. Praktikum : uchebnoe posobie St. Petersburg: Lan Publ., 2019, 460 p. (in Russian) <https://e.lanbook.com/book/118635> (date of request: June 24, 2024).
5. Vasiliev, V. K. General surgery : a textbook / V. K. Vasiliev, A. P. Popov, A.D. Tsybikzhapov. Saint-Petersburg: Lan, 2022. - 272 p. - ISBN 978-5-8114-1686-8. - Text: electronic / / Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/51936> (date of request: June 24, 2024).
6. Vasiliev Yu. G., Troshin E. I., Lyubimov A. I. Veterinary clinical hematology : a textbook. Saint-Petersburg: Lan, 2022. - 656 p. - ISBN 978-5-8114-1811-4. - Text: electronic / / Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/60226> (date of request: June 24, 2024).

7. Vashchekin E. P., Malovastyi K. S. Veterinary prescription : a textbook. - 2nd ed., ster. Saint-Petersburg: Lan, 2022. 240 p. ISBN 978-5-8114-1040-8. Text: electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/91907> (date of request: June 24, 2024).
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8.3. Internet resources

Students can use the following online resources for training:

1. <https://meduniver.com//meduniver.com> -Medical information site.
2. <http://studvet.ru/> Veterinary portal.
3. [Veterinary medicine. rf](#)
4. [Main Veteran portal of Russia](#)
5. [Veterinary medicine](#)
6. [Encyclopedia of medicines and pharmacy products](#)
7. [Vidal Vet Reference Book](#)

8.4. Electronic library systems

1. [EBS "SPBGUVM"](#)
2. [EBS "Lan Publishing House"](#)
3. [EBS "Student's consultant"](#)
4. [ConsultantPlus Legal Reference System](#)
5. [University information system "RUSSIA"](#)
6. [Full-text database POLPRED.COM](#)
7. [Scientific Electronic Library ELIBRARY.RU](#)
8. [Russian Scientific Network](#)
9. [IQlib Electronic Library System](#)
10. [Database of International Science Citation Indexes Web of Science](#)
11. ProQuest AGRICULTURAL AND ENVIRONMENTAL SCIENCE DATABASE, a full-text interdisciplinary database for agricultural and environmental sciences [ProQuest AGRICULTURAL AND ENVIRONMENTAL SCIENCE DATABASE](#)
12. Electronic books published by Prospekt Nauki Publishing House <http://prospektnauki.ru/ebooks/>
13. Collection " Agriculture. Veterinary Medicine" by Kvadro Publishing House <http://www.iprbookshop.ru/586.html>

9. LIST OF INFORMATION TECHNOLOGIES USED IN THE PRACTICE, INCLUDING A LIST OF SOFTWARE AND INFORMATION REFERENCE SYSTEMS

9.1. Information technologies:

When performing the internship program, it is planned to use information technologies:

- ✓ interactive technologies (conducting dialogues, collective discussion of various approaches to solving a particular educational and professional task);
- ✓ interaction with students via e-mail;
- ✓ joint work in the Electronic information and Educational environment of St. Petersburg State University of Internal Affairs: <https://spbguvvm.ru/academy/eios>

9.2. Software:

n /	a Name of technical and computer training tools recommended by sections and topics	License
1	MS PowerPoint	67580828
2	LibreOffice	free software
3	OS Alt Education 8	AAO. 0022. 00
4	ABIS "MARK-SQL"	02102014155

5	MS Windows 10	67580828
6	System ConsultantPlus	503 /KL
7	Android OS	free software

10. EDUCATIONAL WORK

As part of the implementation of the discipline, educational work is carried out to form a modern scientific worldview and a system of basic values, to form and develop spiritual and moral, civil and patriotic values, a system of aesthetic and ethical knowledge and values, attitudes of tolerant consciousness in society, to form students' needs for work as the first vital necessity, the highest value and the main success in life, to realize the social significance of your future profession.

11. MATERIAL AND TECHNICAL BASE NECESSARY FOR CONDUCTING EDUCATIONAL CLINICAL PRACTICE

Educational clinical practice for students is conducted on the basis of state and non-state veterinary and scientific institutions, enterprises of the agro-industrial complex of the city. St. Petersburg and Leningrad region, in other regions of the Russian Federation, as well as in the university's structural divisions.

For an integrated approach and development of the internship program, the university has the material and technical base and resources:

Name of the discipline (module), practices in accordance with the curriculum	Name of special rooms and rooms for independent work	Equipment of special rooms and rooms for independent work
Educational clinical practice	206 Large reading room (196084, St. Petersburg, Chernihiv str., 5) Room for independent work	<i>Specialized furniture:</i> tables, chairs <i>Technical training facilities:</i> computers with Internet connection and access to electronic information and educational environment
	214 Small reading room (5 Chernigovskaya Street, Saint Petersburg, 196084) Self-study room	<i>Specialized furniture:</i> tables, chairs <i>Technical training facilities:</i> computers with Internet connection and Internet connection access to the electronic information and educational environment
	324 Department of Information Technologies (5 Chernigovskaya Street, Saint Petersburg, 196084) Room for storage and preventive maintenance of educational equipment	<i>Specialized furniture:</i> tables, chairs, special equipment, materials and spare parts for preventive maintenance of technical training equipment
	Box No. 3 Carpentry workshop (196084 5, Chernihiv str., Saint Petersburg) Premises for storage and preventive maintenance of educational equipment	<i>Specialized furniture:</i> tables, chairs, special equipment, materials for preventive maintenance of specialized furniture

The working program was compiled by:

Head of the GEP and SIO Department, Assistant,
candidate of veterinary Sciences

 Y. Finageev