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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

Clinical internship

Higher education level SPECIALTY Specialty 36.05.01 Veterinary Full форма-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

Saint-Petersburg 2024 Γ.

1. GOALS AND OBJECTIVES OF THE PRACTICE

- 1. Consolidation of theoretical knowledge and acquisition of practical skills in special disciplines through direct participation of students in the production process.
- 2. Carrying out organizational and preventive and health-improving measures in livestock farms and veterinary institutions (clinical and diagnostic studies, preventive treatments, medical examinations, quarantine of animals, preparation of reports, certificates and other documentation).
 - 3. Study of the organization of state veterinary supervision.
- 4. Acquisition of skills in organizational work and practical training in rationing and planning of work.
- 5. Study of the latest production experience and working methods in animal husbandry and veterinary institutions.
- 6. Study of rational methods of searching and using scientific and technical information based on modern computer technology

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

Industrial practice forms the second block of the curriculum and is implemented in the form of medical and industrialoŭ practices..

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 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;

Medical andprofessional 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.

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

The purpose of industrial practice 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 industrial practice, 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 production practice are:

- consolidation of acquired theoretical and practical knowledge;

- systematization and deepening of the competencies formed during the development of the program in the specialty "Veterinary Medicine", their application in solving specific practical and scientific problems;
- acquaintance and study of the object of industrial 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 industrial 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: in the medical school of higher education, in the laboratoryomy, and controls chool of higher education.

The implementation of the program of medical and industrial practice should form the following competencies:

- A) Learning competencies
- 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-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.

UK-9 is able to make informed economic decisions in various areas of life

UK-9ID-1 Know the conceptual framework of economic science, basic principles of economic functioning, goals and mechanisms of the main types of social economic policy.

UK-9ID-2 To be able to use methods of economic and financial planning to achieve the set goal, including using digital technologies.

UK-9ID-3 Master the skills of applying economic tools for financial management, including using digital technologies, taking into account economic and financial risks in various areas of life.

UK-10 Is capable of forming an intolerant attitude to corrupt behavior

UK-10ID-1 Know the basic terms and concepts of civil law used in anti-corruption legislation, current anti-corruption legislation and the practice of its application.

CC-10ID-2 : Be able to correctly interpret civil law terms, including those using digital technologies, used in anti-corruption legislation; assess corruption behavior and apply anti-corruption legislation in practice.

UK-10ID-3 Possess the skills of correct interpretation, including with the use of digital technologies, of civil law terms used in anti-corruption legislation, as well as the basics of applying anti-corruption legislation in practice.

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.

OPK-6 is able to analyze, identify and assess the risk of the occurrence and spread of diseases

OPK-6ID-1 Know existing programs for the prevention and control of zoonoses, contagious diseases, emerging or newly emerging infections, the use of animal identification systems, tracing and control by the relevant veterinary services.

OPK-6ID-2 should be able to assess the risk of animal diseases, including the import of animals and animal products and other measures taken by veterinary services, and control prohibited substances in the body of animals, animal products and feed, including using digital technologies.

OPK-6ID-3 Master the skills of conducting procedures for identifying, selecting and implementing measures that can be used to reduce the level of risk

OPK-7 is able to understand the principles of modern information technologies and use them to solve professional tasks

OPK-7ID-1 To know modern technical means and information technologies.

OPK-7ID-2 should be able to use modern technical tools and information technologies that include elements of machine learning and artificial intelligence to solve analytical and research problems.

OPK-7ID-3 Master the skills of using modern technical means and information technologies to solve analytical and research problems.

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, B Tincluding 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-4 Performing a post-mortem diagnostic study of animals in order to establish pathological processes, diseases, and the cause of death
- PC-4ID-1 Be able to collect anamnesis of life and illness of the examined animals after death
- PC-4ID-2 Be able to perform a general examination of animal corpses before autopsy
- PC-4ID-3 Should be able to perform autopsies of animal corpses using special tools and comply with safety requirements
- PC-4ID-4 Should be able to select and record samples of pathological material for laboratory research using digital technologies
- PC-4ID-5 Be able to establish the cause of death and pathoanatomical diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases
- PC-4ID-6 Should be able to formalize the results of post-mortem diagnostic examination of an animal in the autopsy protocol, including using digital technologies
- PC-4ID-7 Know veterinary and sanitary requirements for the process of opening animals in accordance with the legislation of the Russian Federation in the field of veterinary medicine
- PC-4ID-8 Know the rules for working with special tools when dissecting animal corpses
- PC-4ID-9 To know the methods and techniques of autopsy of animal corpses of various species
- PC-4ID-10 Know the method of selection and fixation of samples of pathological material for laboratory research in accordance with the rules in this area
- PC-4ID-11 Know the forms and procedure for drawing up an animal autopsy report, including using digital technologies
- PC-5 Development of a treatment plan for animals based on the established diagnosis and individual characteristics of animals, selection of necessary chemical and biological drugs for the treatment of animals, taking into account their combined pharmacological effect on the body
- PC-5ID-1 Be able to use specialized information databases when choosing methods of animal treatment
- PC-5ID-2 Be able to calculate the amount of medicines for the treatment of animals and disease prevention with the preparation of prescriptions for a certain period of time
- PC-5ID-3 Be able to calculate the amount of medicines for the treatment of animals and disease prevention with the preparation of prescriptions for a certain period, including using digital technologies
- PC-5ID-4 is able to inject drugs into the body of animals in various ways

PK-5ID-5 Know the methods of drug treatment of sick animals and indications for their use in accordance with the guidelines, instructions, instructions, rules for diagnosis, prevention and treatment of animals

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

PK-5ID-8 Know the technique of introducing medicinal substances into the animal's body by enteral (oral, sublingual and rectal administration) and parenteral (injections, inhalations and skin applications) methods

PC-6 Selection of methods of non-drug therapy, including physiotherapy methods for the treatment of animals, performing therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules

PC-6ID-1 Must be able to use special equipment, including digital equipment, when performing medical, including physiotherapy procedures in accordance with the instructions for its operation

PC-6ID-2 Be able to fix animals to ensure safety during medical procedures

PC-6ID-3 Be able to keep records of diseases and treatment of animals using digital technologies

PK-6ID-4 Know the types of non-drug therapy, including physiotherapy, used in veterinary medicine, and indications for their use

PC-6ID-5 Know the rules of safe operation with special equipment when performing non-drug effects on the animal body

PK-6ID-6 Know methods and techniques of non-drug effects on the animal body

PK-6ID-7 Know methods of fixing animals during their treatment

PC-6ID-8 Know the forms and rules for filling out the journal for registration of sick animals and the animal's medical history in accordance with the requirements of veterinary accounting, including in digital format

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-10 Conducting repeated examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment, adjusting the treatment plan for animals (if necessary) based on the results of evaluating the effectiveness of treatment

PC-10ID-1 Be able to evaluate the effectiveness of treatment

PC-10ID-2 Be able to use specialized information databases when choosing methods for treating animal diseases

PK-10ID-3 Know the methods of drug treatment of sick animals and indications for their use in accordance with the guidelines, instructions, instructions, rules for diagnosis, prevention and treatment of animals

PC-11 Development of an annual plan for anti-epizootic measures, a plan for the prevention of non-infectious animal diseases, and a plan for veterinary and sanitary measures

PC-11ID-1 Be able to collect and analyze information, including data from veterinary statistics, necessary for planning preventive anti-epizootic measures, prevention of non-infectious animal diseases, veterinary and sanitary measures

PC-11ID-2 Know methods of collecting and analyzing information in veterinary planning, including using information databases

PC-12 Conducting preventive clinical studies of animals, checking the veterinary and sanitary condition and microclimate of livestock premises in accordance with the plan of anti-epizootic measures, the plan for the prevention of non-infectious animal diseases. plan of veterinary and sanitary measures

PC-12ID-1 "Be able to conduct clinical studies of animals using digital technologies as part of the implementation of action plans for the prevention of animal diseases"

PC-12ID-2 Be able to assess the impact of animal care and feeding conditions on their health as part of the implementation of action plans for the prevention of animal diseases

PC-12ID-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-12ID-4 Know the recommended forms of the plan of antiepizootic measures, the plan of prevention of non-infectious diseases of animals, the plan of veterinary and sanitary measures

PC-12ID-5 Know the procedure for conducting internal control of the veterinary and sanitary condition of the facility and the microclimate of livestock premises, using digital equipment

PC-12ID-6 Know the standard parameters of the microclimate in livestock premises

PC-13 Organization of measures to protect the organization from the introduction of infectious and invasive diseases in accordance with the plan of anti-epizootic measures

PC-13ID-1 Know the types of measures to ensure veterinary and sanitary safety and the requirements for their implementation in accordance with the legislation of the Russian Federation in the field of veterinary medicine

PC-14 Organization of preventive immunizations (vaccinations), therapeutic and preventive treatments of animals in accordance with the plan of anti-epizootic measures, analysis of the effectiveness of measures for the prevention of animal diseases in order to improve them

PC-14ID-1 Be able to assess the effectiveness of preventive measures and methods of their implementation, including using digital technologies

PC-14ID-2 Know the procedure for conducting a clinical study of animals when planning preventive measures

- PC-14ID-3 Know the types of anti-epizootic measures and the requirements for their implementation in accordance with the guidelines, instructions, instructions, rules for the diagnosis, prevention and treatment of animals
- 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
- PC-16 Organization of disinfection and disinsection of livestock premises to ensure veterinary and sanitary well-being in accordance with the plan of veterinary and sanitary measures, analysis of the effectiveness of measures for the prevention of animal diseases in order to improve them
- PC-16ID-1 Should be able to evaluate the effectiveness of preventive measures and methods of their implementation, including through end-to-end digital technologies
- PC-16ID-2 Know the types of measures to ensure veterinary and sanitary safety and the requirements for their implementation in accordance with the legislation of the Russian Federation in the field of veterinary medicine
- PC-17 Preparation of a medical examination plan for animals, taking into account their types and purpose, conducting medical examinations in order to preserve the health of animals and increase their productivity, developing recommendations for conducting medical and preventive measures based on the results of animal examinations conducted as part of the medical examination
- PC-17ID-1 Should be able to perform a diagnostic examination of animals within the framework of medical examination, including using digital equipment, for timely detection of early preclinical and clinical signs of the disease
- PC-17ID-2 Know the procedure for conducting medical examinations of animals in accordance with the guidelines in force in this area
- PC-17ID-3 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
- The PC-18 is capable of carrying out veterinary and sanitary expertise, controlling the production and certification of livestock products, beekeeping, water fishing and feed, as well as transporting animals and cargo during export-import operations to ensure food security, and conducting a sanitary assessment of livestock premises and structures.
- PC-18ID-1 Be able to conduct veterinary and sanitary pre-slaughter inspection of animals and poultry, post-slaughter veterinary and sanitary examination of carcasses and organs; correctly assess the quality and control of agricultural output; assess the suitability of controlled products by organoleptic properties and results of laboratory studies using digital technologies, control the

operating parameters of all stages of processing of livestock raw materials to organize and control the loading and transportation of slaughtered animals, raw materials, products of animal and vegetable origin; to determine the species of animal meat; to conduct bacteriological analysis of meat and meat products; to use methods of technochemical control of canned products of animal and vegetable origin

PC-18ID-2 Know state standards in the field of veterinary and sanitary assessment and control of production of safe products of animal husbandry, beekeeping, water fishing and feed, as well as plant products; rules for veterinary and sanitary examination and quality control of animal food; preventive measures to prevent zoonoses; modern means and methods of disinfection, disinsection and deratization of slaughterhouses and meat processing enterprises; norms and rules for the organization and control of transportation of animals, raw materials, animal products, beekeeping products and water fisheries; biology and life cycles of animals-pathogens of zoonoses, as well as factors that favor their spread; basic concepts and terms in the field of quality assessment of animal slaughter products, their use in the production of animal products. chemical composition, nutritional value, quality factors

4. PLACE OF PRACTICE IN THE STRUCTURE OF OBOR

Medical and industrial practice B2.O. 04 (P) is a mandatory part of the second block of the curriculum. The internship program is carried out by full-time students for 6 weeks in the 8th semester and 4 weeks in the 10th semester, full-time and part-time students - for 6 weeks in the 10th semester and 4 weeks in the 12th semester, part-time students - in the 5th year for 6 weeks, in the 6th year for 4 weeks in accordance with the curriculum and schedule of the educational process in the specialty 36.05.01 Veterinary Medicine.

5. SCOPE OF PRACTICAL TRAINING

The total labor intensity of practical training is 15 credits - 540 hours.

5.1. Scope of full-time practical training

Two of question	Sem	ester	TOTAL:	
Type of practice	8	10	TOTAL:	
Production / medical and industrial practice, week/hour / ZE	6/324/9	4/216/6	10/540/15	
Classroom work, hour	8	6	14	
Independent work, hour, of which:	315.7	209.7	525.4	
Practical training (PP)	300	200	500	
Control	0.3	0.3	0.6	
Type of intermediate certification	Credit with an assessment-1	Credit with rating - 2	Credit with rating	
TOTAL, week/hour / SE:	6/324/9	4/216/6	10/540/15	

6. CONTENT OF MEDICAL AND INDUSTRIAL PRACTICE

Students master the program of medical and industrial practice in several stages: preparatory, production and final.

#	Stages (sections) Practice stages	Content of the practice	intensity (in hours)					Semester / course ¹	Form of current control and prom.attest ations	
	(sections)		stage (secti		Classroom work, hour.	Independ ent work, hour., including	PP	control		

1	preparatory	Receiving and studying questions of an individual task of practical training, organizational meeting at the supervising department, familiarization with the requirements of safety at work when performing work, fire safety and sanitary standards, as well as requirements for writing a diary and preparing a report on practice. Arrival at the place of practice, familiarization with the organization of work and the specifics of the work of the profile organization.	A) Educational competencies UK-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 field of organizations, 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. UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities UK-7ID-2 is able to select and apply methods and means of physical culture to improve basic physical qualities.	18/0,5	0,5	17,4	16,65	0,1	8/10/5	Current
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	UK-7ID-3 Master the methods and					
	means of physical culture to ensure full-					
	fledged social and professional activities.					
	UK-8 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.					
	UK-9 is able to make informed					
	economic decisions in various areas of life					
	UK-9ID-1 Know the conceptual					
	framework of economic science, the basic					
	principles of economic functioning, the					
	goals and mechanisms of the main types of					
	social economic policy.					
	methods of economic and financial					
	planning to achieve the set goal, including					
	using digital technologies.					
	UK-9ID-3 Master the skills of					
	applying economic tools for financial					

management, including using digital
technologies, taking into account
economic and financial risks in various
areas of life.
CC-10 is able to form an intolerant
attitude to corrupt behavior
CC-10ID-1 Know the basic terms
and concepts of civil law used in anti-
corruption legislation, current anti-
corruption legislation and the practice of
its application.
CC-10ID-2 : Be able to correctly
interpret civil law terms, including those
using digital technologies, used in anti-
corruption legislation; assess corruption
behavior and apply anti-corruption
legislation in practice.
UK-10ID-3 Possess the skills of
correct interpretation, including with the
use of digital technologies, of civil law
terms used in anti-corruption legislation,
as well as the basics of applying anti-
corruption legislation in practice.
B)General professional competencies
OPK-1 is able to determine the
biological status and regulatory clinical
indicators of animal organs and body
systems
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 for
recognizing the pathological condition of
an animal. the process.
OPK-1ID-2 is able to collect and
analyze anamnestic data, conduct
laboratory and functional studies using

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digital computer technologies necessary	
to determine the biological status of	
animals.	
OPK-1ID-3 Possess practical skills	
in independently conducting a clinical	
examination of an animal using classical	
research methods and digital technologies.	
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	
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.	
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	

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	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				
	, 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				
	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.				
	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 Able to use in professional				
	activities methods of solving problems				
	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				
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equipment, methods for solving problems		
of professional activity.		
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 Possess the skills of		
working with specialized equipment for		
the implementation of tasks set during		
research and development of new		
technologies, including digital		
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 the		
following tasks: perform tasks set 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.		
OPK-6 is able to analyze, identify and		
assess the risk of the occurrence and		
spread of diseases		
OPK-6ID-1 Know existing programs		
for the prevention and control of zoonoses,		
contagious diseases, emerging or newly		
emerging infections, the use of animal		
identification systems, tracing and control		
by the relevant veterinary services.		
of the 1910 failt veterifiary services.		

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	OPK-6ID-2 should be able to assess				
	the risk of animal diseases, including the				
	import of animals and animal products and				
	other measures taken by veterinary				
	services, and control prohibited substances				
	in the body of animals, animal products				
	and feed, including using digital				
	technologies.				
	OPK-6ID-3 Master the skills of				
	conducting procedures for identifying,				
	selecting and implementing measures that				
	can be used to reduce the level of risk				
	of OPK-7 Able to understand the				
	principles of modern information				
	technologies and use them to solve				
	problems of professional activity				
	of OPK-7ID-1 To know modern				
	technical means and information				
	technologies.				
	OPK-7ID-2 should be able to use				
	modern technical tools and information				
	technologies that include elements of				
	machine learning and artificial intelligence				
	to solve analytical and research problems.				
	OPK-7ID-3 Master the skills of using				
	modern technical means and information				
	technologies to solve analytical and				
	research problems.				
	C) Professional competence				
	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 program of research				
	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.	
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.	
PC-1ID-3 to be able to capture	
animals for safety during clinical trials of	
PC-1ID-4 to be able to produce a	
clinical study of the animals using the	
General methods: inspection, palpation,	
percussion, auscultation and thermometry	
PC-1ID-5 be able to establish on	
the basis of the analysis of anamnesis and	
clinical studies General methods	
PC-1ID-6 to Know the methods of	
collecting anamnesis of life and disease	
animal	
PC-1ID-7 to Know the factors of	
life, contributing to the emergence of	
infectious and non-infectious diseases	
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 the	
veterinary reporting	
PC-1ID-9 to Know the methods of	
fixation of animals in the conduct of their	
clinical examinations	
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	
PK-2 The development of a program	
of studies in animals and clinical studies of	

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animals with the use of special			
(instrumental) and laboratory methods,			
including for diagnosis			
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			
PC-2ИД-2 be able to carry out the			
interpretation and analysis of data special			
(instrumental) methods animal study to			
verify the diagnosis of			
PC-2ИД-3 to be able to determine			
the reaction of the cardiovascular system			
of animals at various load method of			
functional tests			
PC-2ИД-4 to be Able to take			
samples of the biological material of			
animals for laboratory studies of			
PC-2ИД-5 to be able to perform			
analytical preparing, storing the studied			
biological material transportation to the			
laboratory			
PC-2ИД-6 to be able to carry the			
interpretation and analysis of data from			
laboratory studies of animals, the diagnosis			
of			
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			
PK-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			
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	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				
	PK-2ИД-10 to Know the methods				
	and technique of introducing diagnostic				
	and radiopaque material into the animal				
	PK-2ИД-11 to Know the technique				
	of production of functional tests in animals				
	PK-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				
	PC-3 diagnosis based on the analysis				
	(instrumental) and laboratory studies				
	of PC-3ИД-1 to be able to carry out				
	the diagnosis in accordance with generally				
	accepted criteria and classifications, lists				
	of animal diseases				
	PK-3ИД-2 be able to use				
	specialized information databases for the				
	diagnosis of animal diseases				
	PK-3ИД-3 to be Able to issue the				
	results of clinical studies of animals with				
	the use of digital technologies				
	PC-3ИД-4 to Know the				
	interpretation and analysis of data special				
	(instrumental) methods for the study of				
	animal				
	PK-3ИД-5 rules to Know indicators				
	of the status of biological material of				
	animals of different types and causes,				
	causes of deviations from norms				
	PC-3ИД-6 to Know the etiology				
	and pathogenesis of diseases of animals of				

various types of
РС-3ИД-7 to Know the generally
accepted criteria and classification of
diseases of animals, approved lists of
animal diseases
PK-4 The implementation of
postmortem diagnostic studies of animals
with the aim of establishing pathological
processes of diseases the cause of death
PC-4ИД-1 to be Able to collect the
anamnesis of life and disease of animals
examined after the death
of the PC 4ИД-2 to be able to produce a
General examination of dead animals
before opening
the PC-4ИД-3 to be Able to perform an
autopsy of dead animals with the use of
special tools and compliance with safety
requirements
PC-4ИД-4 be able to carry out the
selection and fixation of samples of
pathological material for laboratory
research using digital technologies
PC-4ИД-5 to be able to establish the
cause of death and postmortem diagnosis
in accordance with generally accepted
criteria and classifications lists of animal
diseases
PK-4ИД-6 to be Able to issue the
results of post-mortem diagnostic
examination of the animal in the autopsy
report, including with the use of digital
technologies
PC-4ИД-7 Knowing veterinary-
sanitary requirements to the process of
opening the animal in accordance with the
legislation of the Russian Federation in the
field of veterinary
PK-4ИД-8 to Know the rules of
work with special tools by opening the
with that special costs of spening the

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corpses of animals	
PK-4ИД-9 to Know the methods	
and techniques of autopsy of animals of	
different types of	
PC-4ИД-10 to Know the method of	
selection and fixation of samples of	
pathological material for laboratory testing	
in accordance with the rules in this area	
PC-4ИД-11 Know the procedures	
and Protocol of the autopsy of the animal,	
including using digital technology	
PK-5 Development plan for the	
treatment of animals on the basis of	
diagnosis and the individual characteristics	
of the animals the selection of essential	
drugs, chemical and biological nature to	
treat animals based on their cumulative	
pharmacological action on the body	
of the PC 5ИД-1 to be able to use	
specialized information databases selecting	
methods of treatment of animals	
is a PC-5ИД-2 to be able to count the	
number of medicines for the treatment and	
prevention of animal diseases with the	
preparation of recipes for a period	
PK-5ИД-3 to be able to count the	
number of medicines for the treatment and	
prevention of animal diseases with	
compiling recipes for a period of time	
including using digital technologies	
PC-5ИД-4 to be Able to introduce	
drugs into the animal organism in various	
ways	
PK-5ИД-5 to Know the methods of	
medical treatment of sick animals and	
indications for their use in accordance with	
the guidelines, regulations, instructions,	
rules, diagnosis, prevention and treatment	
of animals	
PK-5ИД-6 Know the state register	
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	of medicinal products for veterinary use
	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
	PC-5ИД-8 to Know the technique
	of drug administration into the body of the
	animal enteral (oral, sublingual, and rectal)
	and parenteral (injections, pulmonary and
	cutaneous application) ways
	PK-6 Selection of methods of
	non-drug therapy, including physiotherapy methods for the treatment of animals,
	performing therapeutic, including
	physiotherapy procedures using special
	equipment in compliance with the safety
	rules
	PC-6ID-1 Be able to use special,
	including digital equipment, when
	conducting therapeutic, including
	physiotherapy procedures in accordance
	with the instructions for its
	use. PC-6ID-2 Be able to record
	animals to ensure safety during medical
	procedures
	PC-6ID-3 Be able to keep records
	and report documentation on diseases and
	treatment of animals using digital
	technologies digital
	PC-6ID-4 Know the types of non-
	drug therapy, including physiotherapy,
	used in veterinary medicine, and
	indications for their use application
	of PC-6ID-5 Know the rules of safe
	operation with special equipment when
	performing non-drug effects on the animal
	body
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PC-6ID-6 Know the methods and
techniques of non-drug effects on the
animal body
PC-6ID-7 Know the methods of
fixing animals during their treatment
PC-6ID-8 Know the forms and
rules for filling out the log for registration
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
analgesia of animals before surgery using
narcotic, neuroleptic and other drugs. local
anesthetic drugs
PC-7ID-2 Know the operative
methods of treatment of animals and
indications for their use
PC-7ID-3 Know the drugs. used for
analgesia of animals in veterinary surgery.
doses and methods of their use, side effects
PC-8 Performing 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 procedures for the treatment of
various diseases. surgical intervention with
the use of surgical instruments on the
affected organ or tissues to ensure the
effectiveness of surgical treatment
PC-8ID-3 Be able to stop bleeding
using mechanical, physical, chemical and
biological methods
PC-8ID-4 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
performing surgical operations in
veterinary
medicine PC-8ID-7 Know the types
and techniques of suturing and dressing
used in veterinary surgery
PC-9 Develop 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-10 Conducting repeated
examinations and studies of animals to
assess the effectiveness and safety of
prescribed treatment, adjusting the
treatment plan for animals (if necessary)
based on the results of evaluating the
effectiveness of treatment
PK-10ID-1 Be able to evaluate the
effectiveness of treatment
PK-10ID-2 Be able to use
specialized information databases when
choosing methods for treating animal
diseases
PK-10ID-3 Know methods of drug
treatment of sick animals and indications
for their use in accordance with the
guidelines, instructions, rules
for diagnosis, prevention and treatment of
animals
PC-11 Development of an annual plan
for anti-epizootic measures, a plan for the

,	
	prevention of non-infectious animal
	diseases, a plan for veterinary and sanitary
	measures
	PC-11ID-1 Be able to collect and
	analyze information, including: including
	data of veterinary statistics necessary for
	planning preventive anti-epizootic
	measures, prevention of non-infectious
	animal diseases, veterinary and sanitary
	measures
	PK-11ID-2 Know methods of
	collecting and analyzing information in
	veterinary planning, including using
	information databases
	PK-12 Conducting preventive clinical
	studies of animals, checking veterinary and
	sanitary conditions, etc. microclimate of
	livestock premises in accordance with the
	plan of anti-epizootic measures, the plan of
	prevention of non-infectious diseases of
	animals. plan of veterinary and sanitary
	measures measures
	PC-12ID-1 "Be able to conduct
	clinical studies of animals using digital
	technologies in the framework of
	implementing action plans for the
	prevention of animal diseases"
	PC-12ID-2 Be able to assess the impact
	of animal care and feeding conditions on
	their health in the framework of
	implementing action plans for the
	prevention of animal diseases
	PC-12ID-3 Be able to carry out
	veterinary quality control and procurement
	of animal feed in order to ensure their
	veterinary and sanitary safety within the
	framework of implementing action plans
	for the prevention of animal diseases
	PK-12ID-4 Know the recommended
	forms of the anti-epizootic action plan, the
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	prevention plan for non-infectious animal
	diseases, the veterinary and sanitary action
	plan PK-12ID-5 Know the procedure for
	conducting internal control of control of
	the veterinary and sanitary condition of the
	facility and the microclimate of livestock
	premises, using digital equipment
	PC-12ID-6 Know the standard
	parameters of the microclimate parameters
	in livestock premises
	PC-13 Organization of measures to
	protect the organization from the
	introduction of infectious and invasive
	diseases in accordance with the anti-
	epizootic action plan
	PC-13ID-1 Know the types of
	measures to ensure veterinary andsanitary
	safety and requirements for their
	implementation in accordance with the
	legislation of the Russian Federation in the
	field of veterinary
	medicine PC-14 Organization of routine
	immunization (vaccination), preventive
	and curative treatments of animals in
	accordance with the plan of anti-epidemic
	measures, analysis of the effectiveness of
	interventions for the prevention of animal
	diseases with the aim of improving
	effectiveness of preventive measures and
	their implementation, including using
	digital technologies
	PC-14ИД-2 to Know the procedure
	for conducting clinical studies of animals
	in the planning of preventive measures
	PK-14ИД-3 Know the types of
	antiepizootic measures and requirements to
	conduct them in accordance with the
	guidelines, instructions and manuals rules
	of diagnosis, prevention and treatment of

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	animals
	PK-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
	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
	PC-15ИД-2 be able to assess the
	effectiveness of preventive measures and
	their implementation in particular, using
	digital technologies
	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
	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
	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, instructions, instructions, rules,
	diagnosis, prevention and treatment of
	animals

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	PK-16 Organization of disinfection and				
	disinfection of livestock premises to				
	ensure veterinary and sanitary well-being,				
	in accordance with the plan veterinary and				
	sanitary measures, analysis of the				
	effectiveness of interventions for the				
	prevention of animal diseases with the aim				
	of improving				
	PC-16ИД-1 to be able to assess the				
	effectiveness of preventive measures and				
	their implementation including with end-				
	to-end digital technologies				
	PC-16ИД-2 Know the types of				
	measures to ensure veterinary and sanitary				
	safety requirements and their				
	implementation in accordance with the				
	legislation of the Russian Federation in the				
	field of veterinary				
	PK-17 Scheduling of the examination of				
	animals based on their types and purpose,				
	the conduct of clinical examination with				
	the aim of preserving animal health and				
	increase their productivity, the				
	development of recommendations for				
	curative and preventive and therapeutic				
	measures based on the results of screening				
	carried out through clinical examination				
	of the PC 17ИД-1 to be able to				
	produce through clinical examination,				
	diagnostic testing of animals, in particular,				
	with the use of digital equipment, in order				
	to detect early preclinical and clinical signs				
	of illness				
	PC-17ИД-2 to Know the methods of				
	clinical examination of animals in				
	accordance with the methodological				
	instructions active in the field				
	of PK-17ИД-3 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, prevention and treatment of				
		animals				
		PK-18 is Capable of conducting				
		veterinary and sanitary examination, to				
		control the production and certification of				
		products of animal husbandry, beekeeping,				
		fisheries and animal feed, as well as the				
		transport of animals and goods for export				
		and import operations to ensure food				
		security conduct sanitary assessment of				
		livestock buildings and structures				
		PK-18ИД-1 to be Able to carry out				
		veterinary-sanitary inspection of slaughter				
		animals and poultry, slaughter veterinary-				
		sanitary examination of carcasses and				
		organs; to properly assess the quality and				
		control the production of agricultural				
		products; assess the suitability of the				
		controlled product according to the				
		organoleptic properties and the results of				
		laboratory studies with the use of digital				
		technologies, control modes operating				
		parameters of all parts of the processing of				
		animal raw materials; organize and control				
		the loading and transport of animals for				
		slaughter, raw materials, products of				
		animal and vegetable origin; to determine				
		the species of meat animals; to carry out				
		bacteriological analysis of meat and meat				
		products; use of technochemical control				
		methods of canned products of animal and				
		vegetable origin				
		PC-18ИД-2 Know the state standards				
		in the field of veterinary-sanitary				
		assessment and control for the production				
		of safe animal products, beekeeping,				
		fisheries and animal feed, and products of				
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vegetable origin; rules of conducting	
veterinary and sanitary examination and	
quality control of food of animal origin;	
preventive measures for the prevention of	
zoonoses; the modern means and methods	
of disinfection, disinsection and	
deratization slaughter and meat processing	
plants; rules and regulations for the	
organization and control of animal	
transportation, raw materials, products of	
animal origin, products of beekeeping and	
fisheries; biology and life cycles of	
animals, the causative agents of zoonoses,	
as well as factors conducive to their	
spread; concepts and terms in the field of	
assessing the quality of products of	
slaughter of animals, their chemical	
composition, nutritional value, the factors	
that shape the quality	
and shape the quanty	
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2	production	Performing work provided for in the internship program and individual assignment.	A) Educational competencies UK-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 field of organizations, 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. UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities UK-7ID-2 is able to select and apply methods and means of physical culture to improve basic physical	252/7	6,5	245,4	233,4	0,1	8/10/5	keeping a journal of practice
			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 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.			
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.			
UK-9 Able to make informed economic			
decisions in various areas of life			
UK-9ID-1 Know the conceptual			
framework of economic science, the basic			
principles of economic functioning, the			
goals and mechanisms of the main types of			
social economic policy.			
UK-9ID-2 To be able to use			
methods of economic and financial			
applying economic tools for financial			
planning to achieve the set goal, including using digital technologies. UK-9ID-3 Master the skills of			

management, including using digital
technologies, taking into account
economic and financial risks in various
areas of life.
CC-10 is able to form an intolerant
attitude to corrupt behavior
CC-10ID-1 Know the basic terms
and concepts of civil law used in anti-
corruption legislation, current anti-
corruption legislation and the practice of
its application.
CC-10ID-2 : Be able to correctly
interpret civil law terms, including those
using digital technologies, used in anti-
corruption legislation; assess corruption
behavior and apply anti-corruption
legislation in practice.
UK-10ID-3 Possess the skills of
correct interpretation, including with the
use of digital technologies, of civil law
terms used in anti-corruption legislation,
as well as the basics of applying anti-
corruption legislation in practice.
B)General professional competencies
OPK-1 is able to determine the
biological status and regulatory clinical
indicators of animal organs and body
systems
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 for
recognizing the pathological condition of
an animal. the process.
OPK-1ID-2 is able to collect and
analyze anamnestic data, conduct
laboratory and functional studies using
incorniory and reneuronal statues 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 in professional activity th		
influence of natural, socio-economic		
genetic and economic factors on th		
physiological state of the animal body		
OPK-2ID-1 Know environmenta		
factors of the environment, their		
classification and the nature of relationships with living organisms; basis		
ecological concepts, terms and laws of		
bioecology; interspecific relations of		
animals and plants species of pathogeni		
microorganisms; mechanisms of influence		
of anthropogenic and economic factors of	-	
the animal body.		
OPK-2ID-2 Be able to us		
environmental factors and environmenta		
laws in agricultural production; apply th		
achievements of modern microbiology and		
ecology of microorganisms in anima		
husbandry and veterinary medicine for th	:	
prevention of infectious and invasiv		
diseases and treatment of animals; us		
environmental monitoring methods in the		
environmental expertise of agricultura		
facilities and the production of agricultura		
products, including using digita		
technologies. to assess the impact of		
anthropogenic and economic factors on th		
animal body.		
OPK-2ID-3 Possess an idea of th	.	
origin of living organisms, the levels of		
organization of living matter, favorable		
1 organization of fiving matter, lavorable		

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
, 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
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.
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 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
OPK-4ID-1 Know the technical
capabilities of modern specialized
capabilities of modern specialized

equipment, methods for solving problems
of professional activity.
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
OPK-5 He is able to draw up special
documentation, analyze the results of
professional activities and submit reporting
documents using specialized databases
CODY SID 1 He is all to seed as
of OPK-5ID-1 . He is able to apply new
information technologies to solve tasks in
his 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.
OPK-6 is able to analyze, identify and
assess the risk of the occurrence and
spread of diseases
OPK-6ID-1 Know existing programs
for the prevention and control of zoonoses,
contagious diseases, emerging or newly
emerging infections, the use of animal
identification systems, tracing and control
by the relevant veterinary services.
OPK-6ID-2 should be able to assess
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the risk of animal diseases,			
import of animals and anima	ll products and		
other measures taken b	by veterinary		
services, and control prohibit	ted substances		
in the body of animals, ar	imal products		
and feed, including			
technologies.			
	ne skills of		
conducting procedures fo			
selecting and implementing			
can be used to reduce the lev			
OPK-7 is able to un			
principles of modern			
technologies and use th			
professional tasks	ciii to soive		
	dern technical		
means and information techr OPK-7ID-2 should be			
	able to use		
modern technical tools an			
technologies that include			
machine learning and artific			
to solve analytical and resear			
	skills of using		
modern technical means ar			
technologies to solve a	nalytical and		
research problems.			
C) Professional competencie			
PC-1 Collecting anamne			
life and disease to identify			
diseases, conducting a ge	eneral clinical		
study of animals in order	to establish a		
preliminary diagnosis and	determine the		
further research program			
PC-1ID-1 Be able to collect	et and analyze		
information about the original	•		
of animals, the method and			
keeping, feeding (life history			
PC-1ID-2 Be able to collect			
information about the oc			
manifestation of diseases			
maintestation of diseases	111 dillilais,		1

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previous illnesses, epizootological			
conditions (anamnesis of animal diseases),			
including from devices – sensors,			
mechanisms,tags, etc. sensors, tags, etc			
PC-1ID-3 Be able to record			
animals to ensure safety during a clinical			
study			
PC-1ID-4 Be able to conduct a			
clinical study of animals using general			
methods: examination, palpation,			
percussion, auscultation and thermometry			
PC-1ID-5 To be able to make a			
preliminary diagnosis based on the			
analysis of anamnesis and clinical studies			
General methods			
PC-1ID-6 to Know the methods of			
collecting anamnesis of life and disease			
animal			
PC-1ID-7 to Know the factors of			
life, contributing to the emergence of			
infectious and non-infectious diseases			
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 the			
veterinary reporting			
PC-1ID-9 to Know the methods of			
fixation of animals in the conduct of their			
clinical examinations			
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			
PK-2 Development program of animal			
research and clinical studies of animals			
with the use of special (instrumental) and			
laboratory methods including for the			
laboratory methods including for the			

diagnosis of
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
PC-2ИД-2 be able to carry out the
interpretation and analysis of data special
(instrumental) methods animal study to
verify the diagnosis of
PC-2ИД-3 to be able to determine
the reaction of the cardiovascular system
of animals at various load method of
functional tests
PC-2ИД-4 to be Able to take
samples of the biological material of
animals for laboratory studies of
PC-2ИД-5 to be able to perform
analytical preparing, storing the studied
biological material transportation to the
laboratory
PC-2ИД-6 to be able to carry the
interpretation and analysis of data from
laboratory studies of animals, the diagnosis
of
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
PK-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
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
	PK-2ИД-10 to Know the methods
	and technique of introducing diagnostic
	and radiopaque material into the animal
	PK-2ИД-11 to Know the technique
	of production of functional tests in animals
	PK-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
	PC-3 Diagnosis based on the analysis
	of anamnesis, General, special
	(instrumental) and laboratory studies
	PK-3ИД-1 to be able to carry out
	the diagnosis in accordance with generally
	accepted criteria and classifications, lists
	of animal diseases
	PK-3ИД-2 be able to use
	specialized information databases for the
	diagnosis of animal diseases
	PK-3ИД-3 to be Able to issue the
	results of clinical studies of animals with
	the use of digital technologies
	PC-3ИД-4 to Know the
	interpretation and analysis of data special
	(instrumental) methods of research animals
	is a PC-3ИД-5 rules to Know indicators
	of the status of biological material of
	animals of different types and the causes
	of deviations from norms
	PC-3ИД-6 to Know the etiology
	and pathogenesis of diseases of animals of
	various types of
	PC-3ИД-7 to Know the generally
	accepted criteria and classification of
	accepted criteria and classification of

diseases of animals, approved lists of
animal diseases
PK-4 Implementation of postmortem
diagnostic studies of animals with the aim
of establishing pathological processes of
diseases the cause of death
PC-4ИД-1 to be Able to collect the
anamnesis of life and disease of animals
examined after the death
of the PC 4ИД-2 to be able to produce a
General examination of dead animals
before opening
the PC-4ИД-3 to be Able to perform an
autopsy of dead animals with the use of
special tools and compliance with safety
requirements PC 4HH 4
PC-4ИД-4 be able to carry out the
selection and fixation of samples of
pathological material for laboratory
research using digital technologies
PC-4ИД-5 to be able to establish the
cause of death and postmortem diagnosis
in accordance with generally accepted
criteria and classifications lists of animal
diseases
PK-4ИД-6 to be Able to issue the
results of post-mortem diagnostic
examination of the animal in the autopsy
report, including with the use of digital
technologies
PC-4ИД-7 Knowing veterinary-
sanitary requirements to the process of
opening the animal in accordance with the
legislation of the Russian Federation in the
field of veterinary
PK-4ИД-8 to Know the rules of
work with special tools by opening the
corpses of animals PK-4ИД-9 to Know the methods
and techniques of autopsy of animals of

different types of
PC-4ИД-10 to Know the method of
selection and fixation of samples of
pathological material for laboratory testing
in accordance with the rules in this area
PC-4ИД-11 Know the procedures
and Protocol of the autopsy of the animal,
including using digital technology
PK-5 Development plan for the
treatment of animals on the basis of
diagnosis and the individual characteristics
of the animals the selection of essential
drugs, chemical and biological nature to
treat animals based on their cumulative
pharmacological action on the body
of the PC 5ИД-1 to be able to use
specialized information databases selecting
methods of treatment of animals
is a PC-5ИД-2 to be able to count the
number of medicines for the treatment and
prevention of animal diseases with the
preparation of recipes for a period
PK-5ИД-3 to be able to count the
number of medicines for the treatment and
prevention of animal diseases with
compiling recipes for a specified period,
including using digital technologies
PC-5ИД-4 To be able to introduce
drugs into the animal organism in various
ways
PK-5ИД-5 to Know the methods of
medical treatment of sick animals and
indications for their use in accordance with
the guidelines, regulations, instructions,
rules, diagnosis, prevention and treatment
of animals
PK-5ИД-6 Know the state register
of medicinal products for veterinary use
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
PC-5ИД-8 to Know the technique
of drug administration into the body of the
animal enteral (oral, sublingual, and rectal)
and parenteral (injections, pulmonary and
cutaneous application) ways
PK-6 the Choice of methods of
non-pharmacological treatments, including
physical therapy methods for the treatment
of animals, the treatment, including
physiotherapy with the use of special
equipment safety
PK-6ИД-1 to be able to use the
special, including digital equipment,
during treatment, including physiotherapy
in accordance with the operating
instructions
of the PC 6ИД-2 to be able to capture
animals for safety during medical
procedures
PK-6ИД-3 be able to maintain the
accounting records for diseases and
treatment of the animals with the use of
digital technologies
PC-6ИД-4 to Know the types of
non-pharmacological treatments, including
physical therapy, used in veterinary
medicine, and indications for their use
PC-6ИД-5 to Know the rules of safe
work with special equipment when
conducting non-pharmacological effects
on the animal organism
PC-6ИД-6 to Know the methods
and techniques of non-pharmacological
effects on the animal organism
PC-6ИД-7 to Know methods of
ГС-0ИД-/ to know methods of

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	ixation of animals in their treatment of				
	PC-6ИД-8 to Know the forms and				
	ules of filling of the journal for sick				
	nimals and medical history of the animal				
i	n accordance with the requirements of				
l v	reterinary accounting including in digital				
	format				
F	PC-7 determine whether the use of				
	perative-surgical methods in treatment of				
	nimals, the development plan for the				
	urgery, including the choice of the				
r	nethod of anesthesia				
	PC-7ИД-1 to be able to produce				
	nesthesia of the animals before surgery				
	vith use of a narcotic, neuroleptic and				
	ocal anaesthetic drugs				
	РК-7ИД-2 Know the operative				
	nethods of treatment of animals and the				
i	ndications for their use				
F	PC-7ИД-3 to Know the remedies.				
l l v	ised for analgesia of animals in veterinary				
	urgery. doses and methods of their use,				
	ide effects				
	of PC-8 Prompt surgical intervention in				
s of the state of	ide effects of PC-8 Prompt surgical intervention in the body of animals in the treatment of various diseases, castration, sterilization, or cosmetic purposes PK-8ИД-1 to be able to make a dissection of the animal's tissues, using urgical tools to create operational access to the affected organ or tissue				

ways of the cavity drainage, dressing,
using the dressing and frame material
PC-8ИД-5 to Know the rules of use
of special equipment in the operating
room, surgical instruments and dressings
PC-8ИД-6 to Know the technique
of surgery in veterinary medicine
PC-8ИД-7 to Know the types and
techniques of sutures and dressings used in
veterinary surgery
PC-9 Development of
recommendations for the special feeding
of sick animals for therapeutic purposes
PK-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
PK-10 re-examinations and studies in
animals to evaluate the efficacy and safety
of prescribed treatment plan adjustment
treatment of animals (if necessary) based
on the results of assessment of efficiency
of treatment of
PC-10ИД-1 to be able to evaluate the
effectiveness of treatment of
PC-10ИД-2 be able to use
specialized information databases in the
choice of methods of treatment of animal
diseases
PK-10ИД-3 to Know the methods of
medical treatment of sick animals and
indications for their use in accordance with
the guidelines, regulations, instructions,
rules, diagnosis, prevention and treatment
of animals
PK-11 Development of the annual plan
of anti-epidemic measures, prevention of
non-communicable diseases of animals,
plan veterinary and sanitary measures
pian vetermary and sanitary measures

PK-11ИД-1 to be able to collect and			
analyze information, including veterinary			
data statistics that are required for the			
planning of preventive anti-epidemic			
measures, prevention of non-			
communicable animal diseases, veterinary			
and sanitary measures			
PK-11ИД-2 Know the methods of			
collection and analysis of information for			
veterinary planning, including the use of			
information databases			
PK-12 Conducting preventive clinical			
studies of animals, checking the veterinary			
and sanitary condition and microclimate of			
livestock premises in accordance with the			
plan of anti-epizootic measures, the plan			
for the prevention of non-infectious animal			
diseases. plan veterinary and sanitary			
measures			
PK-12ИД-1 "to be able to produce a			
clinical pet study using digital			
technologies in the framework of			
implementation of plans of measures on			
prevention of animal diseases"			
PC-12ИД-2 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			
PK-12ИД-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			
PK-12ИД-4 to Know the			
recommended form of the plan of anti-			
epidemic measures, prevention of non-			
communicable diseases of animals, plan			

		 ,
veterinary and sanitary measures		
PK-12ИД-5 to Know the procedure		
of internal control veterinary and sanitary		
state of the object and microclimate in		
livestock houses using digital equipment		
PC 12ИД-6 to Know the standard		
values of the parameters of the		
microclimate in livestock buildings		
PK-13 Organization of measures to		
protect the organization against the		
introduction of infectious and invasive		
diseases in accordance with the plan of		
anti-epidemic measures aimed		
PC-13ИД-1 Know the types of		
measures to ensure veterinary and sanitary		
safety requirements and their		
implementation in accordance with the		
legislation of the Russian Federation in the		
field of veterinary		
PK-14 Organization of routine		
immunization (vaccination), preventive		
and curative treatments of animals in		
accordance with the plan of anti-epidemic		
measures, analysis of the effectiveness of		
interventions for the prevention of animal		
diseases with the aim of improving		
PC-14ИД-1 to be able to assess the		
effectiveness of preventive measures and		
their implementation, including using		
digital technologies		
PC-14ИД-2 to Know the procedure		
for conducting clinical studies of animals		
in the planning of preventive measures		
PK-14ИД-3 Know the types of		
antiepizootic measures and requirements to		
conduct them in accordance with the		
guidelines, regulations, instructions, rules,		
diagnosis, prevention and treatment of		
animals		
PK-15 Organization organizational		
FK-13 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
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
PC-15ИД-2 be able to assess the
effectiveness of preventive measures and
their implementation, including with the
use of digital technologies
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
through clinical examination, diagnostic
testing of animals for the timely detection
of early preclinical and clinical signs of
illness PC 15HH 5
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, instructions and manuals rules
of diagnosis, prevention and treatment of
animals
PK-16 Organization of disinfection and
disinfection of livestock premises to

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	ensure veterinary and sanitary well-being,				
	in accordance with the plan veterinary and				
	sanitary measures, analysis of the				
	effectiveness of interventions for the				
	prevention of animal diseases with the aim				
	of improving				
	PC-16ИД-1 to be able to assess the				
	effectiveness of preventive measures and				
	their implementation including with end-				
	to-end digital technologies				
	PC-16ИД-2 Know the types of				
	measures to ensure veterinary and sanitary				
	safety requirements and their				
	implementation in accordance with the				
	legislation of the Russian Federation in the				
	field of veterinary				
	PK-17 is a plan of the clinical examination				
	of animals based on their types and				
	purpose, the conduct of clinical				
	examination with the aim of preserving				
	animal health and increase their				
	productivity, the development of				
	recommendations for curative and				
	preventive and therapeutic measures on the				
	basis of the results of examination of the				
	animals carried out through clinical				
	examination				
	of the PC 17ИД-1 to be able to				
	produce through clinical examination,				
	diagnostic testing of animals, in particular,				
	with the use of digital equipment, in order				
	to detect early preclinical and clinical signs				
	of illness				
	PC-17ИД-2 to Know the methods of				
	clinical examination of animals in				
	accordance with the methodological				
	instructions, operating in the field				
	of PK-17ИД-3 Know the types of				
	interventions for the prevention of non-				
	communicable diseases and metabolic				
	communicable diseases and metabolic				

	disorders in animals, and requirements to
	disorders in difficulty, and requirements to
	conduct them in accordance with the
	guidelines, regulations, instructions, rules,
	diagnosis, the prevention and treatment of
	animal
	PK-18 Capable of conducting veterinary
	and sanitary examination, to control the
	production and certification of products of
	animal husbandry, beekeeping, fisheries
	and animal feed, as well as the transport of
	parameters of all parts of the processing of
	animal raw materials; organize and control
	the loading and transport of animals for
	slaughter, raw materials, products of
	animal and vegetable origin; to determine
	the species of meat animals; to carry out
	bacteriological analysis of meat and meat
	products; use of technochemical control
	PC-18ИД-2 Know the state standards
	' '
	the loading and transport of animals for slaughter, raw materials, products of animal and vegetable origin; to determine the species of meat animals; to carry out bacteriological analysis of meat and meat products; use of technochemical control methods of canned products of animal and vegetable origin

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	Protection
0\10\5	practice report;
8./10/5	standings with
	the assessment
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	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-2 is 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 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.
	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.
UK-9 is able to make informed
economic decisions in various areas of life
UK-9ID-1 Know the conceptual
framework of economic science, the basic
principles of economic functioning, the
goals and mechanisms of the main types of
social economic policy.
UK-9ID-2 To be able to use
methods of economic and financial
planning to achieve the set goal, including
using digital technologies.
UK-9ID-3 Master the skills of
applying economic tools for financial
management, including using digital
technologies, taking into account
economic and financial risks in various
areas of life.
UK-10 Able to form an intolerant
attitude to corrupt behavior
of the Criminal Code-10ID-1 To
know the basic terms and concepts of civil
law used in anti-corruption legislation,
current anti-corruption legislation and the
practice of its application.
CC-10ID-2 : Be able to correctly
interpret civil law terms, including those
using digital technologies, used in anti-
corruption legislation; assess corruption
behavior and apply anti-corruption
legislation in practice.
UK-10ID-3 Possess the skills of
correct interpretation, including with the
use of digital technologies, of civil law
terms used in anti-corruption legislation,
as well as the basics of applying anti-
corruption legislation in practice.

B)General professional competencies
OPK-1 is able to determine the
biological status and regulatory clinical
indicators of animal organs and body
systems
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 for
recognizing the pathological condition of
an animal. the 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 in professional activity the
influence of natural, socio-economic,
genetic and economic factors on the
physiological state of the animal body
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.
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, the favorable
and unfavorable factors affecting the body;
the basis for studying the ecological
knowledge of the surrounding world, the
laws 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, including with
the use
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 agro-industrial
complex, 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 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			
OPK-4ID-1 Know the technical			
capabilities of modern specialized			
equipment, methods for solving problems			
of professional activity.			
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 Possess the skills of			
working with specialized equipment for			
the implementation of tasks set during			
research and development of new			
technologies, including digital			
OPK-5 is able to draw up special			
documentation, analyze the results of			
professional activities and submit reporting			
documents using specialized databases			
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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.			
OPK-5ID-2 Master the skills of			
working with the operating system, with		<u> </u>	

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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.			
OPK-6 Able to analyze, identify and			
assess the risk of the occurrence and			
spread of diseases			
OPK-6ID-1 Know existing programs			
for the prevention and control of zoonoses,			
contagious diseases, emerging or newly			
emerging infections, the use of animal			
identification systems, tracing and control			
by the relevant veterinary services.			
OPK-6ID-2 should be able to assess			
the risk of animal diseases, including the			
import of animals and animal products and			
other measures taken by veterinary			
services, and control prohibited substances			
in the body of animals, animal products			
and feed, including using digital			
technologies.			
OPK-6ID-3 Master the skills of			
conducting procedures for identifying,			
selecting and implementing measures that			
can be used to reduce the level of risk			
OPK-7 is able to understand the			
principles of modern information			
technologies and use them to solve			
professional tasks			
OPK-7ID-1 Know modern technical			
means and information technologies.			
OPK-7ID-2 should be able to use			
modern technical tools and information			
technologies that include elements of			
machine learning and artificial intelligence			
to solve analytical and research problems.			
OPK-7ID-3 Master the skills of using			

modern technical means and information
technologies to solve analytical and
research problems.
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 (life history
PC-1ID-2 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, tags, etc
. PC-1ID-3 Be able to record
animals to ensure safety during the clinical
study
PC-1ID-4 Be able to conduct 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 general methods
of clinical research
PC-1ID-6 Know the methodology
for collecting anamnesis of animal life and
disease
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PC-1ID-7 Know the factors of
animal life that contribute to the
occurrence of infectious and non-
communicable diseases

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	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 in accordance with the					
	requirements of veterinary reporting					
	PC-1ID-9 Know the methods of					
	fixing animals during their clinical					
	examination					
	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					
	PK-2 Development program of animal					
	research and clinical studies of animals					
	with the use of special (instrumental) and					
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	diagnosis PC-2ИД-1 to be Able to research					
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	animals with the help of digital equipment					
	and with the use of special (instrumental)					
	techniques, including endoscopy,					
	intubation, catheterization, radiography,					
	electrocardiography, echography					
	PC-2ИД-2 be able to carry out the					
	interpretation and analysis of data special					
	(instrumental) methods animal study to					
	verify the diagnosis of					
	PC-2ИД-3 to be able to determine					
	the reaction of the cardiovascular system					
	of animals at various load method of					
	functional tests					
	PC-2ИД-4 to be Able to take					
	samples of the biological material of					
	animals for laboratory studies of					
	PC-2ИД-5 to be able to perform					
	analytical preparing, storing the studied					
	biological material transportation to the					
	laboratory					
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	PC-2ИД-6 to be able to carry the				
	interpretation and analysis of data from				
	laboratory studies of animals, the diagnosis				
	of				
	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				
	PK-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				
	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				
	PK-2ИД-10 to Know the methods				
	and technique of introducing diagnostic				
	and radiopaque material into the animal				
	PK-2ИД-11 to Know the technique				
	of production of functional tests in animals				
	PK-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				
	PC-3 Diagnosis based on the analysis				
	of anamnesis, General, special				
	(instrumental) and laboratory studies				
	PK-3ИД-1 to be able to carry out				
	the diagnosis in accordance with generally				
	accepted criteria and classifications, lists				
	of animal diseases				
	or animar diseases				

PK-3ИД-2 be able to use	
specialized information databases for the	
diagnosis of animal diseases	
PK-3ИД-3 to be Able to issue the	
results of clinical studies of animals with	
the use of digital technologies	
PC-3ИД-4 to Know the	
interpretation and analysis of data special	
(instrumental) methods of research animals	
is a PC-3ИД-5 rules to Know indicators	
of the status of biological material of	
animals of different types and the causes	
of deviations from norms	
PC-3ИД-6 to Know the etiology	
and pathogenesis of diseases of animals of	
various types of	
PC-3ИД-7 to Know the generally	
accepted criteria and classification of	
diseases of animals, approved lists of	
animal diseases	
PK-4 Implementation of postmortem	
diagnostic studies of animals with the aim	
of establishing pathological processes of	
diseases the cause of death	
PC-4ИД-1 to be Able to collect the	
anamnesis of life and disease of animals	
examined after the death	
of the PC 4ИД-2 to be able to produce a	
General examination of dead animals	
before opening	
the PC-4ИД-3 to be Able to perform an	
autopsy of dead animals with the use of	
special tools and compliance with safety	
requirements	
PC-4ИД-4 be able to carry out the	
selection and fixation of samples of	
pathological material for laboratory	
research using digital technologies	
PC-4ИД-5 to be able to establish the	
cause of death and postmortem diagnosis	

in accordance with generally accepted
criteria and classifications lists of animal
diseases
РК-4ИД-6 to be Able to issue the
results of post-mortem diagnostic
examination of the animal in the autopsy
report, including with the use of digital
technologies
PC-4ИД-7 Knowing veterinary-
sanitary requirements to the process of
opening the animal in accordance with the
legislation of the Russian Federation in the
field of veterinary
PK-4ИД-8 to Know the rules of
work with special tools by opening the
corpses of animals
PK-4ИД-9 to Know the methods
and techniques of autopsy of animals of
different types of
PC-4ИД-10 to Know the method of
selection and fixation of samples of
pathological material for laboratory testing
in accordance with the rules in this area
PC-4ИД-11 Know the procedures
and Protocol of the autopsy of the animal,
including using digital technology
PK-5 Development plan for the
treatment of animals on the basis of
diagnosis and the individual characteristics
of the animals the selection of essential
drugs, chemical and biological nature to
treat animals based on their cumulative
pharmacological action on the body
of the PC 5ИД-1 to be able to use
specialized information databases selecting
methods of treatment of animals
is a PC-5ИД-2 to be able to count the
number of medicines for the treatment and
prevention of animal diseases with the
preparation of recipes for a period

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PK-5ИД-3 to be able to count the			
number of medicines for the treatment and			
prevention of animal diseases with			
compiling recipes for a specified period			
including using digital technologies			
PC-5ИД-4 To be able to introduce			
drugs into the animal organism in various			
ways			
PK-5ИД-5 to Know the methods of			
medical treatment of sick animals and	1		
indications for their use in accordance with			
the guidelines, regulations, instructions,			
rules, diagnosis, prevention and treatment			
of animals			
PK-5ИД-6 Know the state register			
of medicinal products for veterinary use			
PC-5ИД-7 to Know the	1		
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			
PC-5ИД-8 to Know the technique			
of drug administration into the body of the			
animal enteral (oral, sublingual, and rectal)			
and parenteral (injections, pulmonary and			
cutaneous application) ways			
PK-6 the Choice of methods of			
non-pharmacological treatments, including			
physical therapy methods for the treatment			
of animals, the treatment, including			
physiotherapy with the use of special			
equipment safety			
PK-6ИД-1 to be able to use the			
special, including digital equipment,			
during treatment, including physiotherapy			
in accordance with the operating			
instructions			
of the PC 6ИД-2 to be able to capture			
of the resulting			

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animals for safety during medical			
procedures			
PK-6ИД-3 be able to maintain the			
accounting records for diseases and			
treatment of the animals with the use of			
digital technologies			
PC-6ИД-4 to Know the types of			
non-pharmacological treatments, including			
physical therapy, used in veterinary			
medicine, and indications for their use			
PC-6ИД-5 to Know the rules of safe			
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work with special equipment when			
conducting non-pharmacological effects			
on the animal organism			
PC-6ИД-6 to Know the methods			
and techniques of non-pharmacological			
effects on the animal organism			
PC-6ИД-7 to Know methods of			
fixation of animals in their treatment of			
PC-6ИД-8 to Know the forms and			
rules of filling of the journal for sick			
animals and medical history of the animal			
in accordance with the requirements of			
veterinary accounting including in digital			
format			
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			
PC-7ИД-1 to be able to produce			
anesthesia of the animals before surgery			
with use of a narcotic, neuroleptic and			
local anaesthetic drugs			
РК-7ИД-2 Know the operative			
methods of treatment of animals and the			
indications for their use			
PC-7ИД-3 to Know the remedies.			
used for analgesia of animals in veterinary			
surgery. doses and methods of their use,			

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	side effects				
	of PC-8 Prompt surgical intervention in				
	the body of animals in the treatment of				
	various diseases, castration, sterilization,				
	for cosmetic purposes				
	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				
	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				
	PC-8ИД-3 to be able to stop the				
	bleeding with the use of mechanical,				
	physical, chemical and biological methods				
	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				
	PC-8ИД-5 to Know the rules of use				
	of special equipment in the operating				
	room, surgical instruments and dressings				
	PC-8ИД-6 to Know the technique				
	of surgery in veterinary medicine				
	PC-8ИД-7 to Know the types and				
	techniques of sutures and dressings used in				
	veterinary surgery				
	PC-9 Development of				
	recommendations for the special feeding				
	of sick animals for therapeutic purposes				
	PK-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				
	PK-10 re-examinations and studies in				
	animals to evaluate the efficacy and safety				
	of prescribed treatment plan adjustment				
	treatment of animals (if necessary) based				
	treatment of animals (if necessary) based				

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on the results of assessment of efficiency			
of treatment of			
PC-10ИД-1 to be able to evaluate the			
effectiveness of treatment of			
PC-10ИД-2 be able to use			
specialized information databases in the			
choice of methods of treatment of animal			
diseases			
PK-10ИД-3 to Know the methods of			
medical treatment of sick animals and			
indications for their use in accordance with			
the guidelines, regulations, instructions,			
rules, diagnosis, prevention and treatment			
of animals			
PK-11 Development of the annual plan			
of anti-epidemic measures, prevention of			
non-communicable diseases of animals,			
plan veterinary and sanitary measures			
PK-11ИД-1 to be able to collect and			
analyze information, including veterinary			
data statistics that are required for the			
planning of preventive anti-epidemic			
measures, prevention of non-			
communicable animal diseases, veterinary			
and sanitary measures			
PK-11ИД-2 Know the methods of			
collection and analysis of information for			
veterinary planning, including the use of			
information databases			
PK-12 Conducting preventive clinical			
studies of animals, checking the veterinary			
and sanitary condition and microclimate of			
livestock premises in accordance with the			
plan of anti-epizootic measures, the plan			
for the prevention of non-infectious animal			
diseases. plan veterinary and sanitary			
measures			
PK-12ИД-1 "to be able to produce a			
clinical pet study using digital			
technologies in the framework of			

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implementation of plans of measures on				
prevention of animal diseases"				
PC-12ИД-2 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				
PK-12ИД-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				
PK-12ИД-4 to Know the				
recommended form of the plan of anti-				
epidemic measures, prevention of non-				
communicable diseases of animals, plan				
veterinary and sanitary measures				
PK-12ИД-5 to Know the procedure				
of internal control veterinary and sanitary				
state of the object and microclimate in				
livestock houses using digital equipment				
PC 12ИД-6 to Know the standard				
values of the parameters of the				
microclimate in livestock buildings				
PK-13 Organization of measures to				
protect the organization against the				
introduction of infectious and invasive				
diseases in accordance with the plan of				
anti-epidemic measures aimed				
PC-13ИД-1 Know the types of				
measures to ensure veterinary and sanitary				
safety requirements and their				
implementation in accordance with the				
legislation of the Russian Federation in the				
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field of veterinary				
PK-14 Organization of routine				
immunization (vaccination), preventive				
and curative treatments of animals in				

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	accordance with the plan of anti-epidemic			1	
	measures, analysis of the effectiveness of				
1	interventions for the prevention of animal			1	
	diseases with the aim of improving				
	PC-14ИД-1 to be able to assess the				
	effectiveness of preventive measures and				
	their implementation, including using				
	digital technologies				
	PC-14ИД-2 to Know the procedure				
	for conducting clinical studies of animals				
	in the planning of preventive measures				
	PK-14ИД-3 Know the types of				
	antiepizootic measures and requirements to				
1	conduct them in accordance with the			1	
	guidelines, regulations, instructions, rules,				
	diagnosis, prevention and treatment of				
	animals				
	PK-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				
	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				
	PC-15ИД-2 be able to assess the				
1	effectiveness of preventive measures and			1	
1	their implementation, including with the			1	
1	use of digital technologies			1	
	PC-15ИД-3 be able to carry out				
1	veterinary quality control and fodder for			1	
1	the animals to ensure their veterinary and			1	
	the animals to ensure their veterinary and				

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sanitary safety in the framework of the		
implementation of action plans for the		
prevention of animal diseases		
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		
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, instructions and manuals rules		
of diagnosis, prevention and treatment of		
animals		
PK-16 Organization of disinfection and		
disinfection of livestock premises to		
ensure veterinary and sanitary well-being,		
in accordance with the plan veterinary and		
sanitary measures, analysis of the		
effectiveness of interventions for the		
prevention of animal diseases with the aim		
of improving		
PC-16ИД-1 to be able to assess the		
effectiveness of preventive measures and		
their implementation including with end-		
to-end digital technologies		
PC-16ИД-2 Know the types of		
measures to ensure veterinary and sanitary		
safety requirements and their		
implementation in accordance with the		
legislation of the Russian Federation in the		
field of veterinary		
PK-17 is a plan of the clinical examination		
of animals based on their types and		
animal health and increase their		
purpose, the conduct of clinical examination with the aim of preserving animal health and increase their		

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recommendations for curative and	
preventive and therapeutic measures on the	
basis of the results of examination of the	
animals carried out through clinical	
examination	
of the PC 17ИД-1 to be able to	
produce through clinical examination,	
diagnostic testing of animals, in particular,	
with the use of digital equipment, in order	
to detect early preclinical and clinical signs	
of illness	
PC-17ИД-2 to Know the methods of	
clinical examination of animals in	
accordance with the methodological	
instructions, operating in the field	
of PK-17ИД-3 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	
animal	
PK-18 Capable of conducting veterinary	
and sanitary examination, to control the	
production and certification of products of	
animal husbandry, beekeeping, fisheries	
and animal feed, as well as the transport of	
animals and goods for export and import	
operations to ensure food security, to	
conduct a health assessment of livestock	
buildings and structures	
PK-18ИД-1 to be Able to carry out	
veterinary-sanitary inspection of slaughter	
animals and poultry, slaughter veterinary-	
sanitary examination of carcasses and	
organs; to properly assess the quality and	
controlled product according to the	
control the production of agricultural products; assess the suitability of the controlled product according to the	

	organoleptic properties and the results of				
	laboratory studies with the use of digital				
	technologies, control modes the operating				
	parameters of all parts of the processing of				
	animal raw materials; organize and control				
	the loading and transport of animals for				
	slaughter, raw materials, products of				
	animal and vegetable origin; to determine				
	the species of meat animals; to carry out				
	bacteriological analysis of meat and meat				
	products; use of technochemical control				
	methods of canned products of animal and				
	vegetable origin				
	PC-18ИД-2 Know the state standards				
	in the field of veterinary-sanitary				
	assessment and control for the production				
	of safe animal products, beekeeping,				
	fisheries and animal and plant products;				
	rules for conducting veterinary and				
	sanitary examination and quality control of				
	food of animal origin; preventive measures				
	for the prevention of zoonoses; the modern				
	means and methods of disinfection,				
	disinsection and deratization slaughter and				
	meat processing plants; rules and				
	regulations for the organization and				
	control of animal transportation, raw				
	materials, products of animal origin,				
	products of beekeeping and fisheries;				
	biology and life cycles of animals, the				
	causative agents of zoonoses, as well as				
	factors conducive to their spread; concepts				
	and terms in the field of assessing the				
	quality of products of slaughter of animals,				
	their chemical composition, nutritional				
	value, the factors that shape the quality				
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7. FORMS OF REPORTING ON MEDICAL AND INDUSTRIAL PRACTICE

The completed work on mastering the program of medical and industrial practice should be presented in detail to students in the diary and practice report. The diary is the primary source for drawing up a report and is filled in daily by the student with a detailed description of the work done in the appropriate form.

Diary form

No. of Primary registrati on	No. of repeated patients (put no. of primary admission from column 1)	Date of admission	Type of animal, age, affiliation	Date of disease, anamnesis	Clinical signs	Diagnosi s	Treatmen t, indicatio ns	Notes (outcome of the disease, note on issuing certificates, drawing up certificates, etc.)
1	2	3	4	5	6	7	8	9

The diary is kept in chronological order, starting from the first day of practice. When keeping a diary, you must follow the following rules:

- when receiving sick animals, all columns of the diary are filled in.
- prescriptions are written in Latin in compliance with the relevant compounding rules.
- about anti-epizootic work (vaccination, disinfection, deratization, allergic research, deworming, etc.), work in the veterinary laboratory and laboratory of veterinary medical examination, conducting medical examinations, pregnancy research, etc. entries about the content of the work are made without taking into account the diary graph. When using biologics (vaccines, serums, diagnosticums, etc.), complete information about them is provided name, manufacturer, batch, control, production time, etc.;
- when re-recording works of the same name (vaccinations, surgeries, diagnostic studies, etc.), they are limited to referring to the previous more detailed descriptions.
- when conducting a veterinary and sanitary examination of products, the place of research, the results of the conclusion are indicated. Special attention is paid to the description of veterinary and sanitary expertise in the case of forced slaughter of animals;
- when describing the autopsy of corpses, in addition to registration data, pathoanatomical diagnoses are indicated, a conclusion about the death of the animal is given, and the most optimal methods of disposal of corpses are recommended.

In the practice report, the student should provide information about the work of the veterinary institution as a whole, the compliance of the organization and operation procedure of the enterprise with the requirements of regulatory and technical documentation, the types and quantity of work performed during клинической the clinical practice period, and then detailed information on the following sections regarding the profile organization-place of practice.

In the report, it is advisable to illustrate the materials with diagrams, diagrams, tables, and figures that can be included in the text of the corresponding sections or presented in an appendix.

The report should contain a detailed analysis of the student's work in all areas of practice. When writing it, you must follow the following form:

- 1. Introduction: general characteristics of the place of practice;
 - economy and organization of agricultural production;
 - life safety in emergency situations and civil defense;
 - labor protection.

2. Veterinary work:

- organization of veterinary services;
- preventive and curative work on epizootology and infectious diseases;
- preventive and curative work on parasitology and invasive diseases;
- preventive and curative work on internal non-infectious diseases;
- preventive and curative work in operative, general and private surgery;
- preventive and curative work in obstetrics and gynecology; artificial insemination;

- veterinary pharmacology and toxicology;
- pathological anatomy and autopsy;
- work on veterinary and sanitary expertise. safety and environmental friendliness of food or feed production.
- 3. Research work.
- 4. Conclusion.
- 5. The app.

7.1. Economics and organization of agricultural production

The student needs to study the economic state of an enterprise or organization, acquire practical skills in organizing production and managing a team, and consolidate theoretical knowledge.

To study the dynamics of livestock, poultry, and animals over the past 2 years. Find out the reasons for the increase or decrease in livestock, the reasons for culling animals, the productivity of animals (milk yield per cow, average daily weight gain, wool yield per sheep, egg production per laying hen, offspring output per 100 queens) and the reasons for its change.

Determine the state of the feed base and the availability of livestock and poultry at the expense of own and purchased feed, the level of animal feeding.

Specify channels and product sales prices for the last 2 years.

To study the cost and profitability of livestock production. Find out what activities are carried out at the enterprise to reduce the cost of production.

To study the availability of human resources in the livestock industry, including veterinary services. Note the degree of staff turnover and indicate its causes.

Give the forms and systems of remuneration in animal husbandry and veterinary services, the organization of material incentives for labor for the final results of production and product quality.

Note the role and functions of managers and specialists of the enterprise in production management, the average term of work of managers and specialists in a particular enterprise.

Specify the reserves of the enterprise to increase the number of livestock, animal productivity, reduce the cost of production, and increase the level of profitability of livestock production.

Sources of information: annual reports of the company, production divisions, business plans, current and production accounting data, personal observations of the student.

7.2.Life safety in emergency situations and civil defense

The student needs to consolidate knowledge on the organization of GO at the object of the economy; gain experience in analyzing object protective and preventive measures.

The student must study and reflect in the report:

- civil defense plans for peacetime and wartime in general;
- structure and organization of the animal protection service and team and providing them with service equipment and supplies;
- organization and methods of protecting people, animals, raw animal products, forage, and water;
- general and special training of the animal welfare team.
- possible factors of impact on the livestock facility that disrupt the sustainability of its operation (natural disasters, AHOV, RV, infectious diseases, fires, etc.);

- participation in planned GO events, training of the staff of the animal welfare team, and promotion of GO.
- suggestions for improving the stability of the object, taking into account possible impact factors.

7.3. Aboutlabor protection

The student should acquire skills on the safety of work in animal husbandry and veterinary medicine, contribute to the creation of optimal working conditions in production, excluding injuries, poisoning and other injuries to the body of service personnel and veterinary specialists.

The content of the practice includes the study of safety and industrial sanitation instructions and the rules of behavior of a veterinarian in contact with animals, as well as methods of decontamination, washing and storage of special and sanitary clothing, the procedure for issuing and debiting it. Find out and study the existence of an order for the enterprise (organization) on the appointment of responsible persons to work on ensuring life safety (labor protection).

You need to analyze:

- implementation of measures for life safety (labor protection), working conditions in teams, clinics, farms, workplaces, etc., providing employees with special clothing, soap, neutralization agents, milk and therapeutic and preventive nutrition;
- compliance with working hours in the cold season, provision of space for heating, regular medical examinations of certain categories of employees engaged in heavy work and work with harmful or dangerous working conditions.

Reflect in the practice report the measures planned by the administration to eliminate existing shortcomings and violations of life safety, to prevent accidents and occupational diseases in this farm, enterprise, farm, clinic.

Subject to critical analysis and give your suggestions for improving the state of fire protection at various industrial livestock and poultry production facilities.

To study the economic indicators that characterize nature protection measures and their effectiveness.

7.4.Organization of veterinary services

The student-intern independently chooses any state veterinary institutions, studies the organization of veterinary business in them. In addition, the student can carry out such work in any livestock farms, regardless of the form of ownership.

At each facility, the establishment of veterinary affairs, planning and organization of veterinary activities, methods of their implementation and accounting, reporting, financing, and office management are studied.

The compliance of veterinary documentation with the current instructions and regulatory documents is determined.

Methods of state and industrial veterinary supervision, the procedure and practice of applying measures of established liability for violation of the requirements of veterinary legislation are studied.

Intern student participates in production meetings. Studies the experience of veterinary specialists engaged in veterinary business activities. Conducts an economic analysis of the work of the veterinary service and determines the economic efficiency in the prevention and / or elimination of certain animal diseases.

On the basis of the collected materials, he draws up a course work.

7.5.Preventive and curative work on epizootology and infectious diseases

The aim of the internship is to acquire practical and organizational skills in planning, organizing and conducting anti-epizootic measures, diagnosing and preventing infectious diseases of various animal species, improving the health of dysfunctional farms and treating contagiously ill animals.

- 1. The student-intern studies the epizootic state of the area (vetuchastka, livestockfarms), finds out the ways of introduction and distribution of infectious diseases, the presence of stationary foci in the area. In the presence of endogenous on-farm infections, it determines the causes of their occurrence and recommends ways to eliminate them.
- 2. Participates in drawing up a plan of preventive and anti-epizootic measures for the coming year for the district (site, state farm) and takes an active part in the implementation of the current action plan, analyzes the effectiveness of measures.
- 3. Participates in the organization and conduct of large-scalediagnostic studies. Masters methods of tuberculinization, malleinization, blood collection from animals of various species for serological and hematological studies. Participates in the organization and conduct of preventive vaccinations, draws up certificates.
- 4. Participates in the organization of insulators, storage facilities forрых животdry animal products, waste installations, and animal burial grounds, monitors their proper maintenanceand use, and organizes the cleaning and disposal of corpses and manure.
- 5. Gets acquainted with the establishment of veterinary services іпвах, неблагоhouseholds that are not well-off for tuberculosis, brucellosis and other chronic infections. Studies diagnostic methods and their elimination.
- 6. Organizes and takes part in carrying out preventive, ongoing and final disinfection of livestock premises, paddocks, and storage areas for raw animal products. Compiles documentation of the work done. When considering disinfection methods in farms, it studies the features of the aerosol method and the effectiveness of complex disinfection with subsequent recommendations to farms.
- 7. For 2-3 weeks, the intern must work in a veterinary laboratory, participate in the diagnosis of diseases, and study the role of the laboratory in the prevention and elimination of infectious diseases. Masters the main types of laboratory work (preparation of solutions, paints and nutrient media, crops, autoclaving, etc.), conducts tests of blood, colostrum, milk and feed for the content of calcium, phosphorus, carotene, etc. Together with the laboratory veterinarians, he goes to farms to directly participate in the organization and conduct of anti-epizootic measures.
- 8. According to the epizootic scheme established at the Academy, it examines the state of the farm that is not affected by infectious diseases, drawsup a planfor the elimination of diseases, participates in the implementation of the plan and submits simultaneously with the practice report the material of the work done (an epizootic survey report on the farm, a plan for the elimination of diseases, a list of measures taken and their results). Studies the features of the organization of veterinary services for livestock complexes and the implementation of anti-epizootic measures in them. Participates in the organization and implementation of group vaccination against infectious diseases with the implementation of aerosol and oral immunization using industrial and associated vaccines, especially in poultry farms.

9. Prepares and submits copies of the documentation to and diagrams.	to the department be drawn up, as v	a course work on equellas the most original	pizootology with attached nal photographs, sketches

7.5. Preventive and curative work in parasitology and invasive diseases

The purpose of the internship is to acquire practical skills in planning, organizing, and conducting activities for the diagnosis and prevention of invasive animal diseases, and improving the health of dysfunctional farms.

Content of the practice. Get acquainted with the plan of anti-epizootic measures to combat invasive diseases. To study the epizootic state of places of internship (district, farm, locality, etc.)

The list of questions that the intern works out:

- 1. An intern student conducts outpatient and inpatient treatment of animals suffering from parasitic diseases.
- 2. Analyzes each case of the disease, trying to eliminate its cause. For each case of mass manifestation of parasitic diseases, a plan for their elimination and prevention is drawn up.
 - 3. Monitors the proper care and maintenance of sick animals.
- 4. Master the methods of preparation and administration of various forms of drugs into the body of sick animals.
- 5. Participates in disinfection, deratization, disinsection, deworming and other therapeutic and preventive antiparasitic measures.
 - 6. Gets acquainted with the material support of mass diagnostic and therapeutic measures.
- 7. Independently conducts an examination of animals and the study of material to confirm the diagnosis of parasitic diseases in farms and veterinary laboratories, examines and evaluates pastures in parasitological terms.
- 8. Collects materials for collections of pathogens of parasitic diseases or their hosts (collections of fixed drugs are submitted to the department immediately upon arrival at the Academy).
- 9. Makes mock-ups of devices used in the household during mass medical and preventive work.
- 10. Makes photographs, diagrams, maps and other illustrations confirming the work performed in case of parasitic diseases.

7.5. Preventive and curative work on internal non-infectious diseases

- 1. The student-intern conducts admission of sick animals, their clinical and laboratory tests (blood, urine, feces, milk, etc.), treatment, maintains relevant documentation, writes prescriptions, draws up acts for culling and waste.
- 2. Monitors the care and maintenance of sick animals. Participates in checking the completeness of veterinary pharmacies on farms and animal disease control stations.
 - 3. Master therapeutic techniques:
 - administration of medicines to animals by mouth, intravenously, intra-aortic, intra-abdominal, subcutaneous, intramuscular, intratracheal, intraosseous, in a book;
 - inhalation:
 - gastric probing in monogastric animals;
 - scar probing and scar washing;
 - introduction of the Meliksetyan, Korobov, and Telyatnikov magnetic probes;
 - providing medical care to animals with blockage of the esophagus using a Khokhlov probe, etc. using various methods.
 - the method of setting enemas;
 - catheterization and washing of the bladder in different animal species;
 - puncture of the scar with a large-caliber needle and trocar;
 - puncture of the abdominal cavity in order to obtain and remove the fluid contained in it:

- puncture of the cecum in a horse.
- 4. An intern student conducts a medical examination of animals in accordance with the existing instructions, studies veterinary documentation, determines the most common diseases of animals, identifies patients, makes a diagnosis, and conducts medical and preventive measures.
- 5. Master methods of diagnosis, therapy and prevention of diseases of various organs and systems in different animal species in accordance with the existing program for their study.
- 6. An intern student conducts conversations with pet owners on the treatment and prevention of diseases.
- 7. In regions with a significant presence of small domestic and exotic animals, draws attention to the specifics of the occurrence and course of diseases in them and the specifics of carrying out medical and preventive measures for them.

7.5. Preventive and curative work on operational, general and private surgery

- 1. Strengthening the skills of performing emergency operations (treatment of hernias, wheezing, etc.), as well as opening and treating abscesses, treating inflammatory processes, and surgical infection.
- 2. Performing cavitary operations. Diagnosis, treatment, and prevention of surgical diseases of the head, occiput, withers, trunk, and breast.
- 3. Mastering the methods of research of limbs, diagnosis of lameness, including the method of X-ray diagnostics, the use of modern methods of treating diseases of the fingers, conducting and evaluating the organization of horse forging, the quality and timeliness of hoof cleaning. Mastering the methods of pathogenetic therapy in surgical pathology.
 - 4. Development of eye research methods, treatment and prevention of eye diseases.
- 5. Analysis of the causes of surgical diseases on the farm, on the farm based on the results of medical examinations and reports on surgical (non-infectious) pathology for the last 2-3 years.
- 6. Characteristics of activities carried out on the farm, in the clinic, or development and organization of planned measures for the prevention of injuries, surgical infection and other pathologies detected during the medical examination of animals at the place of practice.

7.5. Preventive and curative work in obstetrics and gynecology; artificial insemination

- 1. An intern student studies the organization of maternity care, the arrangement of maternity facilities, their condition and equipment, the preparation of animals for childbirth, provides obstetric care, organizes the care, maintenance and feeding of newborn females after childbirth.
- 2. Under the guidance of a veterinarian and in some cases independently conducts diagnostics, treatment and prevention of diseases of pregnant animals, postpartum diseases (afterbirth retention, uterine subinvolution, endometritis) and breast diseases: using various methods of therapy and comparing their effectiveness.
- 3. Finds out the number and composition of breeding stock and producers for all types of animals on farms, gets acquainted with the reproduction plan, operation of producers, maintenance of veterinary registers, participates in the organization and conduct of insemination of animals.
- 4. Determines the suitability of the uterine composition for reproduction purposes, conducts rectal and vaginal examinations of cows and mares.
- 5. Works at the artificial insemination station. Participates in conducting a survey of producers with mandatory receipt and evaluation of sperm quality; monitors the correct use of it, identifies impotents, takes treatment and prevention measures.
- 6. Studies the manifestations of sexual cycles in cows, observes and determines the signs of estrus and hunting, using the clinical method, diagnostics of ovulation in mares and cows. Performs artificial insemination (cows, pigs and sheep) of female agricultural animals together with an insemination technician.
- 7. Carries out the determination of pregnancy of animals under the supervision of a doctor.

- 8. Participates in the identification of infertile animals, determines the spread and economic damage caused by infertility, identifies the causes of infertility, participates in the development and implementation of an action plan for the prevention and elimination of infertility.
- 9. Identifies the degree of prevalence and causes of animal abortions, conducts differential diagnostics of non-infectious abortions from infectious and invasive ones, determines individual forms of abortions of non-infectious etiology.
- 10. Participates in obstetric and gynecological medical examinations and analysis of herd reproduction.

7.5. Veterinary pharmacology

- 1. The student-intern gets acquainted with the availability of medicines, biologics, dezsredstv in the veterinary pharmacy; with the storage conditions of strong and toxic drugs.
 - 2. Writes prescriptions and masters the production of various dosage forms.
- 3. Keeps the established pharmacy records and reports, gets acquainted with the rules for requesting replenishment for a veterinary pharmacy.
 - 4. Studies medicinal plants growing in the practice area.
 - 5. Determines the danger of poisonous plants growing in the practice area.
- 6. Provides an analysis of pharmacotherapeutic agents used for the most common diseases on the farm.
- 7. Analyzes cases (if any) of poisoning of animals with poisonous plants, pesticides and medicines and treatment of these poisonings.
- 8. Describes the new drugs proposed by him for introduction in the economy and the effectiveness in comparison with existing methods of therapy.

7.5. Veterinary toxicology

The aim of the practice is to acquire skills in identifying the causes, diagnosis and prevention of animal poisoning.

Content of the practice. To study the chemical situation of the district and describe the pesticides used in farms for processing agricultural crops, pasture, forest and other lands. Study pesticides used to protect animals from insects, mites, helminths and other pests.

Analyze all cases of poisoning of animals in this area, study them in detail during industrial, including pre-graduate, practice (anamnesis, treatment, prevention). Take samples of feed and path materials, draw up accompanying documents and send the materials to the veterinary laboratory for chemical and toxicological treatment of agricultural land with pesticides, describe the pesticides used in the farm.

7.5. Pathological anatomy and autopsy

- 1. The student gets acquainted with the procedure for studying animal corpses in the farm (district): location and organization of autopsies, tools, methods of neutralization, disposal of corpses. Participates in diagnostic autopsies, conducts autopsies of corpses under the supervision of a veterinarian. Compiles detailed autopsy reports.
- 2. Master the correct collection and dispatch of pathological material for laboratory tests: histological, bacteriological, chemical, virological. Examines the accompanying documentation sent to the laboratory.
- 3. If it is necessary to conduct a histological examination, the student selects the pathological material, fixes it and, upon returning from practice, delivers it to the department, where he conducts the study.
- 4. Based on the autopsy materials, he writes a term paper. Attached to the work is the autopsy report, written by him / her independently.

The protocol must be certified by the doctor-head of the practice.

7.5. Work on veterinary and sanitary expertise. safety and environmental friendliness of food or feed production

1. The student-intern gets acquainted with the structure of a meat processing plant, slaughterhouse, studies the organization of work at the enterprise (location, equipment of

workshops, removal and disinfection of wastewater and solid residues of "confiscated" animals, methods of slaughtering animals and cutting carcasses).

- 2. Participates in the pre-slaughter inspection of animals, performs post-slaughter veterinary inspection of carcasses and internal organs, conducts their commodity assessment, as well as sanitary assessment in case of diseases. Applies the current rules of veterinary and sanitary examination of meat.
- 3. Performs sanitary processing of meat in case of infectious and invasive diseases and supervises proper processing, and if necessary, disposal of raw materials obtained from sick animals.
- 4. Performs a systematic study of meat for cysticercosis and trichinosis, selects samples for bacteriological research.
- 5. In the veterinary laboratory, he gets acquainted with the methods of laboratory testing of meat and meat products.
- 6. Studies the design, equipment, and organization of work of veterinary medical expertise laboratories in the markets. Participates in veterinary and sanitary expertise of meat (fresh, frozen, salted), milk, dairy products, fish, eggs and other food products in market conditions, checks accompanying documents from product owners.
 - 7. assesses the quality and safety of animal feed and feed additives.

7.5. Research work

In the course of passing the medical-industrial course, students can improve their knowledge and skills when performing research workы (R & D) within the framework of the student scientific society.

TeмamuResearch topics may include production testing of new devices, equipment, tools, medicines, vaccines, serums, diagnosticums, disinfectants proposed by scientists of the Academy or other scientific institutions and educational institutions; improvement of diagnostics, prevention and therapy of certain animal diseases; generalization of experience in the prevention and elimination of certain infectious, non-infectious, invasive animal diseases in animal husbandry. generalization of experience in veterinary services for animal husbandry and development of measures to improve it.

Students can perform research work in groups or individually in accordance with the comprehensive plans of research and development at faculties designed for the entire period of study, and the topics of departments.

In the future, R & D materials are carefully processed and used for preparing reports at meetings of student research circles of departments, student conferences of the University and other universities.

The practice report should be issued in electronic format and then printed out or filled out hand, A4 sheets. accordance with by on in the established requirements(Size and font type: Font size 14, font Roman, Times New underline. type use of is recommended. Page margins: Left indent 3 not 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 the defense of the practice report, students are certified in the form of a test with an assessment. 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. Obstetrics, gynecology and biotechnics of animal reproduction: textbook / A. P. Studentsov, V. S. Shipilov, V. Ya. Nikitin [et al.]. - 9th ed., reprint. and add-ons. Saint

- Petersburg: Lan Publ., 2019, 548 p. ISBN 978-5-8114-3271-4. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/111907 (accessed June 24, 2024).
- 2. Vasiliev, V. K. General surgery: a textbook / V. K. Vasiliev, A. P. Popov, A.D. Tsybikzhapov. St. Petersburg: Lan 2022Publ., 2022. 272 p. ISBN 978-5-8114-1686-8. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/51936 (accessed June 24, 2024).
- 3. Veterinary pharmacy: textbook / N. L. Andreeva, G. A. Nozdrin, A.M. Lunegov [et al.].-St. Petersburg: Lan, 2020. 452 p. ISBN 978-5-8114-4573-8. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/126918 (accessed June 24, 2024).
- 4. Internal diseases of animals: textbook / G. G. Shcherbakov, A.V. Yashin, A. P. Kurdeko [et al.]; under the general editorship of G. G. Shcherbakov [et al.].-2nd ed., ster. Saint Petersburg: Lan Publ., 2018, 716 p. ISBN 978-5-8114-1682-0. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/106895 (accessed June 24, 2024).
- 5. Gaponova V. N., Ponomarenko N. P., Yugatova N. Yu. Bezopasnost 'zhiznedeyatel'nosti [Life safety]. St. Petersburg: SPbGAVM, [b. g.]. Part 1-2017. 59 p. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/121290 (accessed June 24, 2024).
- 6. Disinsection in the system of anti-epizootic measures / O. R. Polyakova, V. A. Kuzmin, Yu. Y. Danko [et al.]. Saint Petersburg : SPbGAVM, 2016. 14 p. Text : electronic // Electronic library system "Lan" : [website]. URL: https://e.lanbook.com/book/121295 (accessed June 24, 2024).
- 7. Disinfection in the system of anti-epizootic measures / O. R. Polyakova, V. A. Kuzmin, Yu. Y. Danko [et al.]. St. Petersburg: SPbGAVM, 2016. 72 p. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/121296 (accessed June 24, 2024).
- 8. Aliev A. A., Pomerantsev D. A., Shershneva I. I. Office work in veterinary institutions and organizations / A. A. Aliev, D. A. Pomerantsev, I. I. Shershneva [et al.]. Saint Petersburg: SPbGAVM, 2018. 86 p. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/121297 (accessed June 24, 2024).
- 9. Deratization in the system of antiepizootic measures / O. R. Polyakova, V. A. Kuzmin, Yu. Y. Danko [et al.]. St. Petersburg: SPbGAVM, 2016. 17 p. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/121298 (accessed June 24, 2024).
- 10. Doronicheva A. N., Firsov G. M. Animal diseases of viral etiology: a textbook / A. N. Doronicheva, G. M. Firsov. Volgograd: Volgogradsky GAU Publ., 2016, 140 p. (in Russian) Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/100789 (accessed June 24, 2024).
- 11. Zharov A.V. Patologicheskaya anatomiya zhivotnykh: uchebnik [Pathological anatomy of animals: textbook]. 2nd ed., reprint. and add-ons. St. Petersburg: Lan, 2020-23. 608 p. ISBN 978-5-8114-1450-5. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/12985 (accessed June 24, 2024).
- 12. Zharov A.V. Sudebnaya vetinarnaya meditsina : uchebnik [Forensic veterinary medicine: textbook]. Saint Petersburg: Lan, 2020-22. 464 p. ISBN 978-5-8114-1581-6. Text : electronic // Electronic library system "Lan" : [website]. URL: https://e.lanbook.com/book/45681 (accessed June 24, 2024).
- 13. Korolev B. A., Skosyrskikh L. N., Liberman E. L. Praktikum po toksikologii : uchebnik [Practical work on toxicology: textbook]. St. Petersburg: Lan Publ., 2016, 384 p. ISBN 978-5-8114-2246-3. Text : electronic // Electronic library system "Lan" : [website]. URL: https://e.lanbook.com/book/87580 (accessed June 24, 2024).

- 14. Korolev B. A., Sidorova K. A. Phytotoxicosis of domestic animals: textbook / B. A. Korolev, K. A. Sidorova. 2nd ed., reprint. and add-ons. Saint Petersburg: Lan, 20222022. 352 p. ISBN 978-5-8114-1589-2. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/41016 (accessedJune 2-4, 2024).
- 15. Latypov, D. G. Autopsy and pathoanatomic diagnostics of animal diseases: a textbook / D. G. Latypov, I. N. Zalyalov. 2nd ed., reprint. Saint Petersburg: Lan, 2020-22. 384 p. ISBN 978-5-8114-1976-0. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/65956 (accessed June 24, 2024).
- 16. Latypov D. G. Helminthiasis of animals that are dangerous for humans: a textbook / D. G. Latypov. 3rd ed., reprint. Saint Petersburg: Lan Publ., 2017, 440 p. ISBN 978-5-8114-2626-3. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/95143 (accessed June 24, 2024).
- 17. Latypov D. G., Timerbaeva R. R., Kirillov E. G. Parasitology and invasive diseases of ruminants: a textbook. Saint Petersburg: Lan Publ., 2019, 476 p. ISBN 978-5-8114-3561-6. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/121475 (accessed June 24, 2024).
- 18. Latypov D. G., Timerbaeva R. R., Kirillov E. G. Protozoal diseases of animals dangerous for humans (protozoal zoonoses): a textbook / D. G. Latypov, R. R. Timerbaeva, E. G. Kirillov. Saint Petersburg: Lan, 2017. 208 p. ISBN 978-5-8114-2631-7. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/96254 (accessed June 24, 2024).
- 19. Latypov D. G. Spravochnik po pathoanatomicheskoi diagnostike zaraznykh bolezov svinei : uchebnoe posobie [Handbook on pathoanatomic diagnostics of infectious diseases of pigs: a textbook]. Saint Petersburg: Lan Publ., 2019, 260 p. ISBN 978-5-8114-3231-8. Text : electronic // Electronic library system "Lan" : [website]. URL: https://e.lanbook.com/book/111901 (accessedJune 2-4, 2024).
- 20. Treatment and prevention of diseases of hooves of cattle / V. V. Baylov, A. A. Stekolnikov, M. A. Narusbaeva [et al.]. St. Petersburg: SPbGAVM, 2017. 68 p. Text: electronic // Electronic library system "Lan": [website]. URL: https://e.lanbook.com/book/121309 (accessed June 24, 2024).
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8.2. Additional literature

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8.3. Internet resources

Students can use the following online resources for training:

https://meduniver.com://meduniver.com -Medical information site.

https://www.rosatom.ru/ - information site about the nuclear industry

8.4. Electronic library systems

- 1. EBS "SPBUVM"
- 2. EBS "Lan Publishing House"
- 3. EBS "Student's consultant"
- 4. ConsultantPlus Legal Reference System
- 5. <u>University information system "RUSSIA"</u>
- 6. Full-text database POLPRED.COM
- 7. Scientific Electronic Library ELIBRARY.RU
- 8. Russian Scientific Network
- 9. <u>IQlib Electronic Library System</u>
- 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<u>ProQuest AGRICULTURAL AND ENVIRONMENTAL SCIENCE DATABASE</u>
- 12. Electronic books published by Prospekt Nauki Publishing <u>House</u> http://prospektnauki.ru/ebooks/
- 13. Collection " Agriculture. Veterinary Medicine" by Kvadro Publishing <u>House</u> 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://spbguvm.ru/academy/eios/

9.2. Software:

List of licensed and freely distributed software, including those produced in Russia:

n/	a Name of technical and computer training tools recommended	License
	by sections and topics	
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 CONDUCTINGMEDICAL AND INDUSTRIAL PRACTICE

Medical and industrial 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 divisionsуниверситета.

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
Medical and industrialная practice	206 Large reading room (196084, St. Petersburg, Chernihiv str., 5) Room for independent work	Specialized furniture: tables Technical means of training: Technical training facilities: computers with Internet connection and access to the electronic information and educational environment
	214 Small reading room (5 Chernigovskaya str., 196084, Saint Petersburg) Self-study room	Specialized furniture: tables, chairs Technical training facilities: computers with network connection "Internet" and 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	Specialized furniture: tables, chairs, special equipment, materials and spare parts for preventive maintenance of technical training equipment

Box No. 3 Carpentry workshop (5 Chernigovskaya St., Saint Petersburg, 196084) Premises for storage and preventive maintenance of educational equipment

Specialized furniture: 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

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