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Должность: Проректор по учебно-воспитательной работе

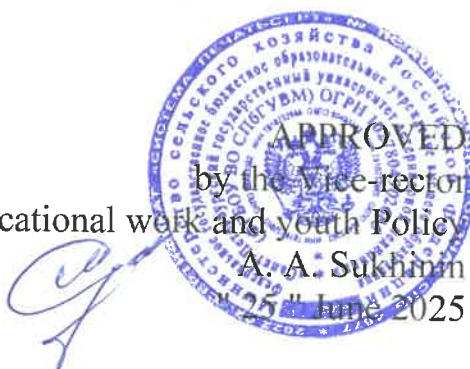
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Ministry of Agriculture of the Russian Federation
Federal State Budgetary Educational Institution
higher education
"Saint-Petersburg State University
veterinary medicine"

APPROVED
by the Vice-rector
for educational work and youth Policy
A. A. Sukhinin
"25" June 2025

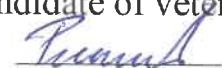


WORK PROGRAM

on educational general professional practice

Higher education level
Specialty 36.05.01 Veterinary
Full-time education
The start year of training is 2025

Reviewed and accepted
at the meeting of the Department GE and IO
"25" June 2025
Protocol No. 15

Head of the Department , associate professor
candidate of veterinary Sciences
 E.Y. Finageev

Saint-Petersburg
2025 г.

1. GOALS AND OBJECTIVES OF THE PRACTICE

- 1) Consolidate theoretical knowledge and develop practical skills in identifying useful (forage, medicinal) and poisonous plants, zoological objects, and anatomical preparations;
- 2) Acquire primary skills and abilities of scientific research activities to identify the most important groups of invertebrates and vertebrates;
- 3) Acquire primary skills and abilities of research activities to gain experience in environmental protection and veterinary measures.

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

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

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

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

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

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

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

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

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

The planned results of the training practice are:

- consolidation of acquired theoretical and practical knowledge;
- systematization and deepening of the competencies formed during the development of the program in the specialty "Veterinary Medicine", their application in solving specific practical and scientific problems;
- acquaintance and study of the object of educational practice;
- gain experience in working in teams when dealing with professional issues;
- development of independent work skills and mastery of the methodology for analyzing the main organizational indicators of the institution's activities and the practice base;
- collection, systematization, and processing of factual material on the organization –and practice base;
- obtaining additional information necessary for students' research work.

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

The implementation of the program of general professional training practice should form the following competencies:

A) Learning competencies

CC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy

ID-1UK-1 Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis

ID-2UK-1 Be able to acquire new knowledge based on analysis, synthesis, etc.; collect and summarize data on current scientific problems related to the professional field; search for information and solutions based on actions, experiments, experience, information and communication technologies.

ID-3UK-1 Master the study of the problem of professional activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations.

UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction.

ID-1UK-4 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the value of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies.

ID-2UK-4 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies.

ID-3UK-4 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using information technologies. modern means of information and communication technologies.

CC-6 is designed to determine and implement priorities for one's own activities and ways to improve them based on self-assessment and lifelong education.

ID-1UK-6 Know the content of self-organization and self-education processes, their features and technologies of implementation, based on the goals of improving professional activity.

ID-2UK-6 Be able to independently build the process of mastering selected and structured information, including using digital technologies.

ID-3UK-6 Master the techniques of self-regulation of psychoemotional and functional states.

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

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

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

ID-3UK-7 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 in everyday life and in professional activities to preserve the natural environment, ensure sustainable development of society, including in the event of a threat and occurrence of emergency situations and military conflicts.

ID-1UK-8 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.

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

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

B) General professional competencies

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

ID-1OPK-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.

ID-2OPK-1 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.

ID-3OPK-1 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

ID-1OPK-2 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.

ID-2OPK-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 using digital technologies; assess the impact of anthropogenic and economic factors on the animal body.

ID-3OPK-2 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, including including using digital technologies

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.

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

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

ID-3OPK-4 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.

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

ID-2OPK-5 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.

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

C) Professional competencies

PC-9 Development of recommendations for special feeding of sick animals for therapeutic purposes.

ID-1PK-9 Know the types of dietary regimens, principles of feed selection using digital technologies, norms, feeding modes in animal diet therapy.

PC-15 Organization of organizational and technical, zootechnical and veterinary measures aimed at the prevention of non-communicable diseases in accordance with the plan for the prevention of non-communicable animal diseases, analysis of the effectiveness of measures for the prevention of animal diseases in order to improve them.

ID-1PC-15 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.

ID-2PC-15 Should be able to assess the effectiveness of preventive measures and methods of their implementation, including using digital technologies.

ID-3PC-15 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.

ID-5PC-15 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 the diagnosis, prevention and treatment of animals.

4. PLACE OF PRACTICE IN THE STRUCTURE OF OBOR

General professional practice is a mandatory part of the second block of the curriculum (B2.O. 01(U)).

The total labor intensity of general professional practice is 6 credits - 216 hours, the practice program is performed by full-time students for 2 weeks in the 2nd semester and 2 weeks in the 4th semester in accordance with the curriculum and schedule of the educational process in the specialty 36.05.01 Veterinary Medicine.

5. SCOPE OF GENERAL PROFESSIONAL TRAINING PRACTICE

5.1. Scope of general professional practice for full-time education

Type of practice	Semester		TOTAL:
	2	4	
Educational general professional practice, week/hour / ZE	2/108/3	2/108/3	4/216/6
Classroom work, hour, of which:	30	30	60
Practical training (PP)	6	6	12
Independent work, hour, of which:	78	78	156
Practical training (PP)	60	60	120
Type of intermediate certification	Credit-	1 Offset-2	
TOTAL, week/hour / SE:	2/108/3	2/108/3	4/216/6

6. CONTENT OF THE TRAINING PROGRAM GENERAL PROFESSIONAL PRACTICE

Students master the program of general professional training practice in several stages: preparatory, production and final.

6.1. Content of general professional practice for full-time education

#	Stages (sections)	Practice stages (sections) Content of the practice	stage (section) Competencies being formed	Labor intensity (hours/day)	Types of academic work, including independent work of students and labor intensity (in hours)				Seme ster	Form of current control and prom.attes tations
					Classroo m work, hour., of	whi ch PP	Independe nt work, hour., of which:	PP		
1	preparatory	Obtaining and studying questions of an individual task of practical training, organizational meeting at the supervising department, familiarization with the requirements of occupational safety in the performance of work, fire safety and sanitary standards, as well as requirements for writing a diary, etc. preparation of a practice report. Arrival at the place of practice, familiarization with the organization of work and the specifics of the work of the profile organization.	A) Educational competencies CC-1 is able to carry out critical analysis of problem situations based on a systematic approach, develop a strategy for actions of CC-1ID-1 Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis. CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies. UK-1ID-3 Master the study of the problem of professional activity using	1,8/0,05	0,5	0,1	1,3	1	2	Current (marks of the practice manager in documents and report forms)

			analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations. UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and								
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			results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self-assessment and lifelong education UK-6ID-1 Know the content of self-organization and self-education processes, their features and implementation technologies, based on the goals of improving professional activity. UK-6ID-2 To be able to independently build the process of mastering selected and structured information, including using digital technologies. UK-6ID-3 Master the techniques of self-regulation of psychoemotional and functional states. 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							
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			factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services. UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations. UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies. B) General professional competencies of OPK-1 Able to determine the biological status and regulatory clinical indicators of animal organs and body systems OPK-1ID-1 Know safety 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.							
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			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, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the							
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			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-4 is able to use in professional activities methods for 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 Knows 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 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 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								
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			UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own										
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			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 Knows 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 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 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. C) Professional competencies								
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2	production	- Performing the work provided for in the internship program and individual assignment.	A) Educational competencies CC-1 is able to carry out critical analysis of problem situations based on a systematic approach, develop a strategy for actions of CC-1ID-1 Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis. CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies. UK-1ID-3 Master the study of the problem of professional activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations. UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows;	88,2/2,45	24,5	49	63,7	49	2	Current (keeping a practice diary for students)
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			the importance of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self-assessment and lifelong education UK-6ID-1 Know the content of self-organization and self-education processes, their features and implementation technologies, based on the goals of improving professional activity.								
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			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 recognition of a 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 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 To know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; interspecific relations of animals and plants, predator, etc. victims, parasites and hosts; ecological features of some types of pathogenic microorganisms; mechanisms of influence								
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			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, with the use of digital technologies , OPK-4 is able to use in professional activities methods for 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 Knows 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 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 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. C) Professional competencies PC-9 Development of recommendations for special feeding of sick animals for therapeutic purposes PC-9ID-1 Know the types of dietary regimes, principles of feed selection using digital technologies, norms, feeding regimes in animal diet therapy PC-15 Organization of organizational, technical, zootechnical							
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			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 conditions for keeping and feeding animals on their health as part of the implementation of action plans for the prevention of animal diseases using digital technologies PC-15ID-2 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 within the framework of implementing action plans for the prevention of animal diseases PC-15ID-5 Know the types of measures for the prevention of non-infectious animal diseases and metabolic disorders in animals and requirements for their conduct in accordance with methodological guidelines, instructions, instructions, rules for the diagnosis, prevention and treatment of animals							
			A) Educational competencies CC-1 is able to carry out critical analysis of problem situations based on a systematic approach, develop a strategy for actions of CC-1ID-1 Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis.	88,2/2,45	24,5	49	63,7	49	4	

			CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies. UK-1ID-3 Master the study of the problem of professional activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations. UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in							
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			Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self-assessment and lifelong education UK-6ID-1 Know the content of self-organization and self-education processes, their features and implementation technologies, based on the goals of improving professional activity. UK-6ID-2 To be able to independently build the process of mastering selected and structured information, including using digital technologies. UK-6ID-3 Master the techniques of self-regulation of psychoemotional and functional states. UK-7 is able to maintain the proper level of physical fitness to ensure full-fledged social and professional activities								
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			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 Able to create and maintain safe living conditions, including in the event of emergencies UK-8ID-1 Know the consequences of exposure to harmful and dangerous factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services. UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations. UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies. B) General professional competencies OPK-1 is able to determine the biological status and 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								
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			individual body systems, including using digital technologies; methodology recognition of a 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 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 To know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; interspecific relations of animals and plants, predator, etc. victims, parasites and hosts; ecological features of some types of pathogenic microorganisms; mechanisms of influence of anthropogenic and economic factors on the animal body. 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								
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			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, with the use of digital technologies , OPK-4 is able to use in professional activities methods for 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 Knows 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 Master the skills of working with specialized equipment for the implementation of tasks set during research and development of new technologies, including digital								
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			OPK-5 He is able to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases of OPK-5ID-1 . He is able to apply new information technologies to solve tasks in his professional activities, work with specialized information databases. OPK-5ID-2 Master the skills of working with the operating system, with text and table processors, with database management systems, with information and search engines on the Internet. OPK-5ID-3 To know new information technologies for solving tasks in their professional activities, to work with specialized information databases. C) Professional competence PK-9 to Develop recommendations for special feeding 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-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								
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			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 PK-15ИД-5 to Know the types of interventions for the prevention of non-communicable diseases and metabolic disorders in animals, and requirements to conduct them in accordance with the guidelines, regulations, instructions, rules, diagnosis, prevention and treatment of animals							
3	final	preparation of the report on the practice of	A) Learning competencies UK-1 is Able to carry out a critical analysis of problem situations on the basis of a systematic approach to develop a strategy of action of UK-1ID-1 to Know the methods of critical analysis and evaluation of modern scientific achievements; the basic principles of critical analysis. CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies.	18/0. 5	5	1	13	10	2	Intermediate certification (protection of the practice report; credit)

			UK-1ID-3 Master the study of the problem of professional activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations. UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and									
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			written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self-assessment and lifelong education UK-6ID-1 Know the content of self-organization and self-education processes, their features and implementation technologies, based on the goals of improving professional activity. UK-6ID-2 To be able to independently build the process of mastering selected and structured information, including using digital technologies. UK-6ID-3 Master the techniques of self-regulation of psychoemotional and functional states. 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 Able to create and maintain safe living conditions, including in the event of emergencies							
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			UK-8ID-1 Know the consequences of exposure to harmful and dangerous factors on the body of animals, humans and the natural environment, methods and methods of protection from emergencies and military conflicts; basics of life safety, phone numbers of rescue services. UK-8ID-2 To be able to identify signs, causes and conditions of emergency situations and military conflicts; to assess the likelihood of a potential danger to the student and take measures to prevent it in an educational institution; to provide first aid in emergency situations. UK-8ID-3 Possess security skills in the "human-animal - habitat" system. Possess methods for predicting the occurrence of dangerous or emergency situations; skills in maintaining safe living conditions, including on the basis of digital technologies. B) General professional competencies OPK-1 is able to determine the biological status and 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 recognition of a 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.								
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			OPK-5ID-2 Master the skills of working with the operating system, with text and table processors, with database management systems, with information and search engines on the Internet. OPK-5ID-3 To know new information technologies for solving tasks in their professional activities, to work with specialized information databases. C) Professional competencies PC-9 Development of recommendations for special feeding of sick animals for therapeutic purposes PC-9ID-1 Know the types of dietary regimes, principles of feed selection using digital technologies, norms, feeding regimes in animal diet therapy PC-15 Organization of organizational, 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 conditions for keeping and feeding animals on their health as part of the implementation of action plans for the prevention of animal diseases using digital technologies PC-15ID-2 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 within the								
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			framework of implementing action plans for the prevention of animal diseases PC-15ID-5 Know the types of measures for the prevention of non-infectious animal diseases and metabolic disorders in animals and requirements for their implementation in accordance with methodological guidelines, instructions, instructions, rules for diagnosis, prevention and treatment of animals							
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			a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies.							
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TOTAL:		216\6	60	12	156	120		
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7 Content of educational general professional practice

7.1. Content of general professional practice in the discipline "Botany with the basics of feed production"

During the general professional practice, students reveal questions on:

- taxonomy of medicinal and poisonous plants;
- structure and main active substances of medicinal plants;
- optimal time for collecting medicinal raw materials and manufacturing basic dosage forms;
- the method of geobotanical description of the area.

7.2. Content of general professional practice in the discipline "Biology with the basics of ecology"

During the general professional practice, students reveal questions on:

- general laws and specific features of the structure of animals in the age aspect.
- diversity of living organisms, taking into account the level of organization;
- origin and development of life;
- dialectical character of biological phenomena, universality of connections in nature;
- environmental laws as a complex regulating the interaction of nature and society;

7.3. Content of general professional practice in the discipline "Animal Anatomy"

During the general professional practice, students reveal questions on:

- methods for assessing the topography of organs and systems of the body;
- features of the structure of somatic systems of various animal species;
- features of the structure of visceral systems of various animal species;
- features of working with cadaveric material.

7.4. Content of general professional practice in the discipline "Veterinary genetics and animal husbandry"

1. Study of the state of animal husbandry and breeding on the farm:

- livestock, pedigree, productivity (milk yield per forage cow, highest daily milk yield, percentage of fat in milk, yield of one piglet per sow per year, average egg production of chickens);
- production technology on livestock farms. Placement of livestock by gender and age groups. Description of the on-line shop production system (if it is used on the farm);
- organization and maintenance of production breeding records on the farm. Individual tagging system, keeping a log of slush and brood stock of brood stock and a log of rearing young animals for all types of animals;
- product accounting. Filling out breeding and production cards. Summary bonus statement. Registration of breeding certificates for pedigree animals sold.

2. Familiarization with the procedure for working on livestock farms:

- features of working on a dairy farm (organization of work on the farm, daily routine, cyclogram, livestock reproduction system);
- features of work in the maternity ward of a dairy farm (organization of work, daily routine, reception of newborns, weighing, individual labeling of offspring, registration of a certificate of offspring, filling out individual cards and participation in current accounting);
- features of work in the calf house (organization of work, daily routine, composition of employees and their duties);

- features of working in a dairy (organization of work, equipment of the dairy);
- features of working on a pig farm (organization of work, cyclogram, livestock reproduction system);
- features of working at a poultry farm (organization of work in various workshops, familiarization with accounting forms).

7.5. Content of general professional practice in the discipline "Animal feeding"

1. Get acquainted with the farm's pastures. To characterize the botanical composition of pastures and their yield.
2. Get acquainted with the technology of preparing forage on the farm (hay, straw, silage, haylage, grass flour, grass cutting, coniferous, hay flour, etc.) and methods of cultivating grain and legumes, as well as root crops.
3. Get acquainted with the methods of preparing feed for feeding, increasing their nutritional value and palatability.
4. Get acquainted with the methods of storing feed on the farm and methods of selecting an average sample.
5. Get acquainted with the type and technique of feeding farm animals and poultry on the farm: lactating (according to lactation phases), pregnant and dry cows, calves, young animals on fattening, pregnant and lactating sows, suckling pigs, weaners, breeding boars, young animals on fattening, broiler chickens, laying hens.
6. To study the norms and methods of feeding various biologically active additives and premixes, mixed feeds and their formulation.

7.6. Content of general professional practice in the discipline "Pathological physiology"

1. Get acquainted with the method of examination of the animal and the progress of collecting anamnesis.
2. Follow the logic of diagnosis and treatment.
3. Using the example of a specific animal, demonstrate causal relationships and the formation of a vicious circle of pathogenesis.
4. Follow the periods of development of the disease on the example of a specific animal and characterize the possible outcomes of its disease

8. FORMS OF REPORTING ON EDUCATIONAL GENERAL PROFESSIONAL PRACTICE

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

Diary form

Date	Non /	a Description of the work performed	Results of the work done	Notes (Marks of the head of the practice)
1	2	3	4	5

In the practice report, a student of the 1st year of full-time education, 2nd year of full-time and part-time education should submit materials on such disciplines as botany with the basics of feed production, biology with the basics of ecology and animal anatomy, revealing the content of

the practice. In addition, the report on general professional practice implies the preparation and provision of a herbarium, animal collection and anatomical preparation to the relevant department.

In the practice report, students of the 2nd year of full-time education, 3rd year of full-time and part-time education should submit materials on such disciplines as pathological physiology, veterinary genetics and animal husbandry, animal feeding.

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

Protection of diaries and reports on practice is carried out at a meeting of the supervising department. Based on the results of defending the practice report, students are certified in the form of an undifferentiated test.

Implementation of the internship program, keeping a diary, preparation and protection of the internship report can be carried out using distance learning technologies.

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

9.1. Basic literature

1. Dog's anatomy. Visceral systems (Splanchnology): textbook / N. A. Slesarenko, A. E. Serbsky, N. V. Babichev, A. I. Torba. - Saint Petersburg: Lan, 2024. - 88 p. - ISBN 5-8114-0528-6. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/642> (accessed June 24, 2025).

2. Badanova E. V., Telenkov V. N., Markova M. V. Atlas of the muscles of the axial and peripheral skeleton of a dog : a textbook. - Omsk : Omsk State Agrarian University, 2018. - 49 p. - ISBN 978-5-89764-738-5. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/111401> (accessed June 24, 2025).

3. Badanova E. V., Markova M. V., Telenkov V. N. Musiki oseвого i perifericheskogo skeleta sobaki: praktikum : uchebnoe posobie [Muscles of the axial and peripheral skeleton of a dog: a practical guide]. - Omsk : Omsk State Agrarian University, 2017. - 50 p. - ISBN 978-5-89764-638-8. - Text: electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/102189> (accessed June 24, 2025).

4. Blokhin G. I., Blokhina T. V. Praktikum po zoologii : uchebnoe posobie [Practical work in zoology: a textbook]. Saint Petersburg: Lan Publ., 2018. 296 p. ISBN 978-5-8114-3228-8. Text: Electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/109607> (accessed June 24, 2025).

5. Veterinary toxicology : 2019-08-27 / compiled by E. G. Yakovleva. Belgorod : Gorin State Agricultural Academy, 2017, 73 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/123357> (accessed June 24, 2025).

6. Dauda, T. A. Zoology of invertebrates : a textbook / T. A. Dauda, A. G. Koshchaev. - 3rd ed., ster. Saint Petersburg: Lan Publ., 2014, 208 p. ISBN 978-5-8114-1707-0. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/53678> (accessed June 24, 2025).

7. Dauda T. A., Koshchaev A. G. Zoology of vertebrates : a textbook / T. A. Dauda, A. G. Koshchaev. — 3rd ed., ster. Saint Petersburg: Lan Publ., 2014, 224 p. ISBN 978-5-8114-1708-7. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/53679> (accessed June 24, 2025).

8. Dauda T. A., Koshchaev A. G. Praktikum po zoologii : uchebnoe posobie [Practical work in zoology: a textbook]. Saint Petersburg: Lan Publ., 2014, 320 p. ISBN 978-5-8114-1709-4. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/53677> (accessed June 24, 2025).

9. Dauda T. A., Koshchaev A. G. *Ekologiya zhivotnykh : uchebnoe posobie* [Ecology of animals: a textbook]. Saint Petersburg: Lan Publ., 2015, 272 p. ISBN 978-5-8114-1726-1. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/56164> (accessed June 24, 2025).
10. Zelenevsky N. V., Shchipakin M. V. *Anatomiya zhivotnykh : uchebnik* [Animal Anatomy: textbook]. St. Petersburg: Lan Publ., 2018, 484 p. ISBN 978-5-8114-3268-4. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/107929> (accessed June 24, 2025).
11. Zelenevsky N. V., Zelenevsky K. N. *Anatomiya zhivotnykh : uchebnoe posobie* [Animal Anatomy: a textbook]. Saint Petersburg: Lan Publ., 2014, 848 p. ISBN 978-5-8114-1645-5. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/52008> (accessed June 24, 2025).
12. Karmanova E. P., Bolgov A. E., Mityutko V. I. *Praktikum po genetike : uchebnoe posobie* [Practice on genetics: a textbook]. Saint Petersburg: Lan Publ., 2018, 228 p. ISBN 978-5-8114-2897-7. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/104872> (accessed June 24, 2025).
13. Kiseleva L. V., Kozhevnikova O. P. *Kormoproizvodstvo : metodicheskie napravleniya* [Feed production: methodological guidelines]. Samara : SamGAU Publ., 2018, 36 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/123531> (accessed June 24, 2025).
14. Nikolaev S. I., Cheprasova O. V., Struk V. N. *Kormlenie sel'skikh zhivotnykh : uchebno-metodicheskoe posobie* [Feeding farm animals : an educational and methodical manual]. Volgograd: Volgogradsky GAU, 2018, 80 p. (in Russian). - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/112342> (accessed June 24, 2025).
15. Medicinal and poisonous plants : methodological guidelines / compiled by V. A. Kornilova. Samara : SamGAU Publ., 2019, 26 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/123532> (accessed June 24, 2025).
16. Pathological physiology and pathological anatomy of animals: textbook / A.V. Zharov, L. N. Adamushkina, T. V. Loseva, A. P. Strelnikov; edited by A.V. Zharov. - 6th ed., ster. Saint Petersburg: Lan Publ., 2024, 416 p. ISBN 978-5-8114-4750-3. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/126148> (accessed June 24, 2025).
17. Savinkov A.V., Meshkov V. M. *Patologicheskaya fiziologiya : uchebnoe posobie* [Pathological physiology: a textbook]. Samara : SamGAU Publ., 2018, 188 p. ISBN 978-5-88575-519-1. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/111866> (accessed June 24, 2025).
18. Medetkhanov F. A., Ovsyannikov A. P., Khairullin D. D., Mullakaeva L. A. *Tekhnologiya izgotovleniya lekarstvennykh formov : 2019-08-14* [Technology of manufacturing medicinal forms: 2019-08-14]. Kazan: KGAVM im. Bauman Publ., 2016, 123 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/122954> (accessed June 24, 2025).
19. Tunikov G. M., Korovushkin A. A. *Razvedenie zhivotnykh s osnovami chastnoy zootehnii : uchebnik* [Animal breeding with the basics of private zootechnics: textbook]. - St. Petersburg: Lan, 2017. - 744 p — - ISBN 978-5-8114-1850-3. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/91279> (accessed June 24, 2025).
20. Ukolov P. I., Sharaskina O. G., Mukiy Yu. V. *Izuchenie eksteryera sobak i metody ego otsenki* [Studying the exterior of dogs and methods of its evaluation]. Saint Petersburg: SPbGAVM Publ., 2015, 35 p. (in Russian) // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/121322> (accessed June 24, 2025).

9.2. Additional literature

1. Morphology of the venous system of the acropodium of cattle : a monograph / R. H. Baimishev, D. Sh. Kashina. Samara : SamGAU Publ., 2018, 165 p. ISBN 978-5-88575-509-2. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/109431> (accessed June 24, 2025).
2. Vasiliev, Yu. G., Troshin, E. I., and Berestov, D. S. Tests in pathological physiology : an educational and methodical manual. Saint Petersburg: Lan Publ., 2015, 400 p. ISBN 978-5-8114-1810-7. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/58163> (accessed June 24, 2025).
3. Doronicheva A. N., Firsov G. M. Klinicheskaya anatomiya : uchebnoe posobie [Clinical anatomy: a textbook]. Volgograd : Volgogradsky GAU Publ., 2016, 104 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/100788> (accessed June 24, 2025).
4. Zelenevsky N. V., Shchipakin M. V., Zelenevsky K. N. Anatomiya i fiziologiya zhivotnykh : uchebnik [Animal Anatomy and physiology: textbook]. Saint Petersburg: Lan Publ., 2019, 368 p. ISBN 978-5-8114-1993-7. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/112059> (accessed June 24, 2025).
5. Zelenevsky, N. V. International veterinary anatomical nomenclature in Latin and Russian. Nomina Anatomica Veterinaria : a textbook / N. V. Zelenevsky. - Saint Petersburg: Lan, 2022. - 400 p. - ISBN 978-5-8114-1492-5. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/5706> (accessed June 24, 2025).
6. Klimov A. F., Akaevsky A. I. Anatomiya domashnykh zhivotnykh : uchebnik [Anatomy of domestic animals: textbook]. - 8th ed. - Saint Petersburg: Lan, 2022. - 1040 p. - ISBN 978-5-8114-0493-3. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/567> (accessed June 24, 2025).
7. 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 Publ., 2014, 352 p. ISBN 978-5-8114-1589-2. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/41016> (accessed June 24, 2025).
8. Markova M. V. Anatomiya zhivotnykh : uchebnoe posobie [Animal Anatomy: a textbook]. - Omsk : Omsk State Agrarian University, 2018. - 129 p. - ISBN 978-5-89764-737-8. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/111404> (accessed June 24, 2025).
9. Fundamentals of general and veterinary ecology. Sakhno N. V., Timokhin O. V., Vatnikov Yu.A., Tutkyshbay I. A. Tekhnogennye bolezni zhivotnykh : uchebnoe posobie [Technogenic diseases of animals: a textbook]. Saint Petersburg: Lan Publ., 2017, 372 p. ISBN 978-5-8114-2648-5. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/95146> (accessed June 24, 2025).
10. Pereryadkina S. P., Ushakov M. A., Bakanova K. A. Biologiya razmozheniya : uchebnoe posobie [Biology of reproduction: a textbook]. Volgograd : Volgogradsky GAU Publ., 2016, 88 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/100802> (accessed June 24, 2025).
11. Ryadnova, T. A. Veterinary pharmacology. Toxicology : a textbook / T. A. Ryadnova. - 2nd ed., add. Volgograd : Volgogradsky GAU Publ., 2015, 88 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/76629> (accessed June 24, 2025).
12. Ryadnova, T. A. Veterinary pharmacology. Toxicology : an educational and methodical manual / T. A. Ryadnova. - 2nd ed., add. Volgograd : Volgogradsky GAU Publ., 2015, 68 p. (in Russian) - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/76624> (accessed June 24, 2025).
13. Ryadnova T. A. Toksikologiya : uchebno-metodicheskoe posobie [Toxicology: a training manual]. - 2nd ed., add. Volgograd : Volgogradsky GAU Publ., 2015, 84 p. (in Russian) -

Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/76625> (accessed June 24, 2025).

14. Sarychev N. G., Kravets V. V., Chernov L. L. Animal husbandry with the basics of general zoohygiene : a textbook / N. G. Sarychev, V. V. Kravets, L. L. Chernov. Saint Petersburg: Lan Publ., 2016, 352 p. ISBN 978-5-8114-1648-6. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/71729> (accessed June 24, 2025).

15. Slesarenko N. A., Kondratov G. V., Stepanishin V. V. Osnovy biologii raznozheniya i razvitiya : uchebno-metodicheskoe posobie [Fundamentals of reproduction and development biology: an educational and methodical manual]. Saint Petersburg: Lan Publ., 2018, 80 p. ISBN 978-5-8114-3543-2. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/110925> (accessed June 24, 2025).

16. Shchipakin M. V., Zelenevsky N. V., Prusakov A.V., Virunen S. V. Testy po anatomii zhivotnykh : uchebnoe posobie [Tests on animal anatomy: a textbook]. Saint Petersburg: Lan Publ., 2016, 256 p. ISBN 978-5-8114-2032-2. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/71740> (accessed June 24, 2025).

17. Fomenko, L. V. Anatomy of the cardiovascular system of animals : a textbook / L. V. Fomenko. - Omsk : Omsk State Agrarian University, 2016. - 83 p. - ISBN 978-5-89764-536-7. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/102871> (accessed June 24, 2025).

18. Khaziakhmetov F. S. Rational feeding of animals : a textbook / F. S. Khaziakhmetov, 3rd ed., ster. Saint Petersburg: Lan Publ., 2019, 364 p. ISBN 978-5-8114-4171-6. - Text : electronic // Electronic library system "Lan" : [website]. - URL: <https://e.lanbook.com/book/115666> (accessed June 24, 2025).

9.3. Internet resources

Students can use the following online resources for training:

1. <https://meduniver.com/> -Medical information site.
2. <http://vanat.cvm.umn.edu> -Animal Anatomy University of Minnesota.
3. <http://studvet.ru/> / Veterinary portal.
4. [Veterinary medicine. rf](http://Veterinary.medicine.rf)
5. [Main veterinary portal of Russia](http://Main.veterinary.portal.of.Russia)
6. [Veterinary medicine](http://Veterinary.medicine)

9.4. Electronic library systems

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

13. Collection " Agriculture. Veterinary Medicine" by Kvadro Publishing House
<http://www.iprbookshop.ru/586.html>

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

10.1. 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://spbguv.ru/academy/eios/>

10.2. Software

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

Non /	a Name of technical and computer training tools recommended by sections and topics	License
1	MS PowerPoint	67580828
2	LibreOffice	free software
3	OS Alt Education 8	AAO. 0022. 00
4	ABIS "MARK-SQL"	02102014155
5	MS Windows 10	67580828
6	System ConsultantPlus	503 /KL
7	Android OS	free software

11. 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.

12. MATERIAL AND TECHNICAL BASE NECESSARY FOR CONDUCTING GENERAL PROFESSIONAL TRAINING PRACTICE

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

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

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

The working program was compiled by:

Head of the GE and IO Department, associate professor,
candidate of veterinary Sciences

 Е.Ю. Финагеев

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

EVALUATION FUNDS FUND

**intermediate certification of students
when mastering the OPOP of higher education that implements the
Federal State Educational Standard for Higher Education
on educational general professional practice**

Higher education level
SPECIALTY
Specialty 36.05.01 Veterinary Medicine
Full-time
The start year of training is 2025

Saint-Petersburg
2025

1. PASSPORT OF THE ASSESSMENT FUND FOR GENERAL PROFESSIONAL EDUCATIONAL PRACTICE

Table 1

#	Formed competencies	Controlled sections (topics) of the discipline	Assessment tool
2 semester of the OFO			
1.	CC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, develop a strategy for actions of CC-1ID-1 Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis. CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies. UK-1ID-3 Master the study of the problem of professional activity using analysis, synthesis	Botany with the basics of feed	production Preparation of a practice report. Protection of the practice report
2.		Biology with the basics of ecology	
3.		Animal Anatomy	

	and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations. UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of communication in professional		
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	interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in		
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	the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self- assessment and lifelong education UK-6ID-1 Know the content of self- organization and self-education processes, their features and implementation technologies, based on the goals of improving professional activity. UK-6ID-2 To be able to independently build the process of mastering selected and structured information, including using digital technologies. UK-6ID-3 Master the techniques of self- regulation of psychoemotional and functional states. UK-7 Able to maintain the		
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	proper level of physical fitness to ensure full-fledged social and professional activities of the UK-7ID-2 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 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;		
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	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. OPK-1 is able to determine the biological status and regulatory clinical indicators of animal organs and body systems OPK-1ID-1 is able to know 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		
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	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 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 To know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology; interspecific relations of animals and plants,		
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	predator, etc. victims, parasites and hosts; ecological features of some types of pathogenic microorganisms; mechanisms of influence of anthropogenic and economic factors on the animal body. 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		
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	living organisms, the levels of organization of living matter, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of development of nature and society; the skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, in particular including, with the use of digital technologies , OPK-4 is able to use in professional activities methods for 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 Knows the technical capabilities of modern specialized equipment, methods for solving		
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	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		
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	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. PC-9 Development of recommendations for special feeding of sick animals for therapeutic purposes PK-9ID-1 Know the types of dietary regimens, principles of feed selection using digital technologies, norms, feeding regimes in animal diet therapy PK-15 Organization of organizational, technical, zootechnical and veterinary measures aimed at the prevention of non-infectious diseases in accordance with the plan for the prevention of non-infectious diseases analysis of the		
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	effectiveness of measures for the prevention of animal diseases in order to improve them PC-15ID-1 Be able to assess the impact of conditions for keeping and feeding animals on their health in the framework of implementing action plans for the prevention of animal diseases using digital technologies PC-15ID-2 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 within the framework of implementing action plans for the prevention of animal diseases PC-15ID-5 Know the types of measures for the prevention of non-infectious animal diseases and metabolic disorders in animals and		
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	requirements to conduct them in accordance with the guidelines, instructions, rules for diagnosis, prevention and treatment of animals		
4th semester OFO, 6th semester O-ZFO, ZFO			
1.	CC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, develop a strategy for actions of CC-1ID-1	Veterinary genetics and animal husbandry	. Protection of the practice report
2.	Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis.	Feeding animals	
3.	CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies. UK-1ID-3 Master the study of the problem of professional	Pathological physiology	

	activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations. UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the importance of		
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	communication in professional interaction; methods for studying the communicative potential of an individual; modern means of information and communication technologies. UK-4ID-2 Be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; research the passage of information on managerial communications; determine internal communications in the organization, including using digital technologies. UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies;		
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	technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies. UK-6 is able to determine and implement the priorities of its own activities and ways to improve it on the basis of self-assessment and lifelong education UK-6ID-1 Know the content of self-organization and self-education processes, their features and implementation technologies, based on the goals of improving professional activity. UK-6ID-2 To be able to independently build the process of mastering selected and structured information, including using digital technologies. UK-6ID-3 Master the techniques of self-regulation of psychoemotional		
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	and functional states. 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 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		
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	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. OPK-1 is able to determine the biological status and regulatory clinical indicators of animal organs and body systems OPK-1ID-1 is able to know 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		
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	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 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 To know environmental factors of the environment, their classification and the nature of relationships with living organisms; basic ecological concepts, terms and laws of bioecology;		
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	interspecific relations of animals and plants, predator, etc. victims, parasites and hosts; ecological features of some types of pathogenic microorganisms; mechanisms of influence of anthropogenic and economic factors on the animal body. 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.		
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	OPK-2ID-3 Possess an idea of the origin of living organisms, the levels of organization of living matter, favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of development of nature and society; the skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, in particular including, with the use of digital technologies , OPK-4 is able to use in professional activities methods for 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 Knows the technical capabilities of		
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	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 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.		
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	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. PC-9 Development of recommendations for special feeding of sick animals for therapeutic purposes PK-9ID-1 Know the types of dietary regimens, principles of feed selection using digital technologies, norms, feeding regimes in animal diet therapy PK-15 Organization of organizational, technical, zootechnical and veterinary measures aimed at the prevention of non-infectious diseases in accordance with the plan for the		
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	prevention of non-infectious 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 conditions for keeping and feeding animals on their health in the framework of implementing action plans for the prevention of animal diseases using digital technologies PC-15ID-2 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 within the framework of implementing action plans for the prevention of animal diseases PC-15ID-5 Know the types of measures for the prevention of non-infectious animal		
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	diseases and metabolic disorders in animals and requirements Preparation of a practice report for their implementation in accordance with methodological guidelines, instructions, instructions, rules for the diagnosis, prevention and treatment of animals		
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Table 2

LIST OF ASSESSMENT TOOLS FOR GENERAL PROFESSIONAL EDUCATIONAL PRACTICE

№ n /	a Name of the valuation instrument	Brief description of the valuation instrument	Presentation of the valuation instrument in the fund
1.	Preparation of a practice report.	The product of a student's independent work, which is a succinct and consistent presentation in written or printed form, obtained as a result of planning and performing a set of production and research tasks. It allows you to assess the ability of students to independently construct their knowledge in the process of solving practical problems and problems, to navigate in the information space and the level of formation of analytical, research skills, practical and creative thinking skills. It is performed individually based on the results of mastering the internship program.	Questions for intermediate certification in general professional practice
2.	Defense of the practice report	is a product of independent work of the student, which is a public speech to present the results of the internship on issues that correspond to the level of theoretical training.	Questions for intermediate certification in general professional training practice

2. INDICATORS AND CRITERIA FOR ASSESSING COMPETENCIES AT VARIOUS STAGES OF THEIR FORMATION, DESCRIPTION OF ASSESSMENT SCALES

Planned results of competence	development Level of development				Evaluation tool
	Unsatisfactory	Satisfactory	Good	Excellent	
UK-1	is able to carry out critical analysis of problem situations based on a systematic approach, develop a strategy for actions				
UK-1ID-1 Know the methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis.	Level of knowledge below the minimum requirements, there were gross mistakes	Minimum permissible level of knowledge, many non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, several non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection
of the UK-1ID-2 practice report Be able to acquire new knowledge based on analysis, synthesis, etc.; collect and summarize data on current scientific problems related to the professional field; search for information and solutions based on actions, experiments, experience, information and communication technologies.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated. skills, solved all the main tasks with some minor shortcomings, completed all tasks in full	Preparation and defense of the report on the practice
of the Criminal Code-1ID-3 Possess research on the problem of professional activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identification of problems and the use of adequate methods to solve them; demonstrating value judgments in solving problematic professional situations.	When solving standard tasks Basic skills were not demonstrated, there were gross mistakes	There is a minimum set of skills for solving standard tasks with some shortcomings	Basic skills were demonstrated when solving standard tasks with some shortcomings	Skills were demonstrated when solving non-standard tasks without errors and shortcomings	Preparation and protection of the practice report
of the Criminal Code-4	Is able to apply modern communication technologies, knowledge				
UK-4ID-1 of computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; meaning of communication in professional interaction; methods of studying the communicative potential of the individual; modern means of information and communication technologies.	The level of knowledge is below the minimum requirements, there were gross mistakes	The minimum allowable level of knowledge, many minor mistakes were made	Level of knowledge in the volume corresponding to the training program, several minor mistakes	were made Level of knowledge in the volume corresponding to the training program, without errors	Preparation and protection of the report on the practice
of UK-4ID-2 Be able to create written texts of scientific and official business speech styles on professional issues in Russian and foreign languages; study the passage of information on management define internal communications in the organization, including those using digital technologies.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated. skills, solved all the main tasks with some minor shortcomings, completed all tasks in full	Preparation and defense of the report on the practice
of the Criminal Code-4ID-3 Master the principles of forming a communication system; analyze the communication system in the organization by performing oral and written communications, including in a foreign language; presentation of plans and results of your own and team work communication technologies; technology for building effective communication	When solving standard tasks basic skills were not demonstrated, there were gross mistakes	There is a minimum set of skills for solving standard tasks with some shortcomings	Basic skills were demonstrated when solving standard tasks with some shortcomings	Skills were demonstrated when solving non-standard tasks without errors and shortcomings	Preparation and protection of the practice report

in the organization; transfer of professional information in information and telecommunications networks using modern information and communication technologies.					
UK-6 is able to determine and implement priorities of its own activities and ways to improve it on the basis of self-assessment and lifelong education					
UK-6ID-1 Know the content of self-organization and self-education processes, their features and technologies of implementation, based on the goals of improving professional activity.	The level of knowledge is below the minimum requirements, there were gross mistakes	The minimum allowable level of knowledge, many non-rough mistakes	were made The level of knowledge in the amount corresponding to the training program, several non-rough mistakes	were made The level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection of the practice report
UK-6ID-2 Be able to independently build the process of mastering the selected topic and structured information, including the use of digital technologies.	When solving standard tasks, basic skills were not demonstrated, gross mistakes	were made, basic skills were demonstrated, typical tasks with minor errors were solved, and all tasks were completed, but not in full	All basic skills are demonstrated, all basic tasks with minor mistakes are solved, all tasks are completed in full, but some with shortcomings	All basic skills are demonstrated, all basic tasks are solved with some minor shortcomings, all tasks are completed in full	Preparation and protection of the report on the practice
of UK-6ID-3 Master the techniques of self-regulation of psychoemotional and emotional disorders. functional states.	When solving standard tasks basic skills were not demonstrated, there were gross mistakes	There is a minimum set of skills for solving standard tasks with some shortcomings	Basic skills were demonstrated when solving standard tasks with some shortcomings	Skills were demonstrated when solving non-standard tasks without errors and shortcomings	Preparation and protection of the practice report
UK-7 is able to maintain the proper level of physical fitness for to ensure full-fledged social and professional activities					
of the UK-7ID-2 , to be able to select and apply methods and means of physical culture to improve basic physical qualities.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated. skills, solved all the main tasks with some minor shortcomings, completed all tasks in full	Preparation and protection of the report on the practice
of UK-7ID-3 Master the methods and means of physical culture to ensure full-fledged social and professional activities.	When solving standard tasks basic skills were not demonstrated, there were gross mistakes	There is a minimum set of skills for solving standard tasks with some shortcomings	Basic skills were demonstrated when solving standard tasks with some shortcomings	Skills were demonstrated when solving non-standard tasks without errors and shortcomings	Preparation and protection of the practice report
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.	Level of knowledge below the minimum requirements, there were gross mistakes	Minimum permissible level of knowledge, many non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, several non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection
of the UK-8ID-2 practice report Be able to identify signs, causes and conditions of occurrence of emergencies and military conflicts; assess the probability of potential danger to the student and take measures to prevent it in an educational institution; provide first aid in emergency situations.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated. skills, solved all the main tasks with some minor shortcomings, completed all tasks in full	Preparation and protection of the report on the practice
of UK-8ID-3 Possess skills in ensuring security 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.	When solving standard tasks basic skills were not demonstrated, there were gross errors	There is a minimum set of skills for solving standard tasks with some shortcomings	Basic skills were demonstrated when solving standard tasks with some shortcomings	Skills were demonstrated when solving non-standard tasks without errors and shortcomings	Preparation and protection of the practice report

OPK-1	is able to determine the biological status and regulatory clinical indicators of organs and body systems of animals				
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.	Level of knowledge below the minimum requirements, there were gross errors	Minimum permissible level of knowledge, many non-rough errors	were made Level of knowledge in the amount corresponding to the training program, several non-rough errors	were made Level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection
of the OPK-1ID-2 practice report Be able to collect and analyze anamnestic data, conduct laboratory and functional studies using digital computer technologies necessary to determine the biological status of animals.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated. skills, solved all the main tasks with some minor shortcomings, completed all tasks in full	Preparation and protection of the report on the practice
of OPK-1ID-3 Possess practical skills for independent clinical examination of an animal using classical research methods and digital technologies.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, and there is a minimum set of skills for solving standard tasks with some shortcomings	Basic skills are demonstrated in solving standard problems with some shortcomings	Skills are demonstrated in solving non-standard problems without errors and shortcomings	Preparation and defense of the practice report
OPK-2	is able to interpret and evaluate in professional activities the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal body				
OPK-2ID-1 Knows environmental factors the main 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.	Level of knowledge below the minimum requirements, there were gross mistakes	Minimum permissible level of knowledge, many non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, several non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection of the report on the practice
of 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 assessment of agricultural facilities and the production of agricultural products, including using digital technologies; assess the impact on the environment of agricultural enterprises; animal organism of anthropogenic and economic factors.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated	. Preparation and defense of the report on the practice
of OPK-2ID-3 Possess an idea of the origin of living organisms, the levels of organization of living matter, about favorable and unfavorable factors affecting the body; the basis for studying the ecological knowledge of the surrounding world, the laws of nature development and society; skills of observation, comparative analysis, historical and experimental modeling of the impact of anthropogenic and economic factors on living objects, including using digital technologies	In solving standard problems basic skills were not demonstrated, there were gross errors	There is a minimum set of skills for solving standard problems with some shortcomings	Basic skills were demonstrated in solving standard	problems skills in solving non-standard tasks without errors and shortcomings are demonstrated	Preparation and protection of the report on the practice
of the Defense Industry Complex-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 equipment, methods for solving problems of professional activity.	Level of knowledge below the minimum requirements, there were gross mistakes	Minimum permissible level of knowledge, many non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, several non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection
of the OPK-4ID-2 practice report Be able to apply modern technologies, including digital, and research methods in professional activities, interpret the results obtained.	When solving standard tasks, basic skills were not demonstrated, there were gross mistakes	, basic skills were demonstrated, standard tasks with minor errors were solved, all tasks were completed, but not in full	, all basic skills were demonstrated, all basic tasks with minor errors were solved, all tasks were completed in full, but some with shortcomings	, all basic skills were demonstrated. skills, solved all the main tasks with some minor shortcomings, completed all tasks in full	Preparation and defense of the report on the practice
of OPK-4ID-3 Possess skills in working with specialized equipment to implement the tasks set when conducting research and developing new technologies, including digital	ones When solving standard tasks basic skills are not demonstrated, had there are gross errors	There is a minimum set of skills for solving standard problems with some shortcomings	Basic skills are demonstrated for solving standard problems with some shortcomings	Skills are demonstrated for solving non-standard problems without errors and shortcomings	Preparation and protection of the practice report
OPK-5 is able to draw up special documentation, analyze the results of professional activities and submit reporting documents using specialized databases					
Knowledge of new information technologies for solving the tasks set in their professional activities, work with specialized information databases.	Level of knowledge below the minimum requirements, there were gross mistakes	Minimum permissible level of knowledge, many non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, several non-rough mistakes	were made Level of knowledge in the amount corresponding to the training program, without errors	Preparation and protection
of the OPK-5ID-1 practice report Be able to apply new information technologies for solve the tasks set in their professional activities, work with specialized information databases.	When solving standard tasks, basic skills were not demonstrated, gross mistakes	were made, basic skills were demonstrated, typical tasks with minor errors were solved, and all tasks were completed, but not in full	All basic skills are demonstrated, all basic tasks with minor errors are solved, all tasks are completed in full, but some with shortcomings	All basic skills are demonstrated, all basic tasks are solved with some minor shortcomings, all tasks are completed in full	Preparation and protection of the report on the practice
of OPK-5ID-2 Master the skills of working with the operating room system, with text and table processors, with database management systems, with information and search engines on the Internet.	For standard tasks is not Shown the basic skills, there has been a gross error	Has a minimum set of skills to solve standard problems with some flaws	Demonstrated basic skills in solving standard problems with some flaws	Demonstrated skills in solving non-standard tasks without error and shortcomings	Preparation of the report on the practice
of PC-9 Development of recommendations for the special feeding of sick animals for therapeutic purposes					
ПК-9ИД-1 Know the types of dietary regimes, the principles of the selection of food with the use of digital technologies, norms, modes of feeding in the diet of animals	below the Level of knowledge of the minimum requirements, there has been a gross error	Minimum acceptable level of knowledge and made many mistakes structurally unstable	Level of knowledge in the scope of the training program made a few mistakes structurally unstable	Level of knowledge in the scope of the training program no errors	the Preparation and defense of a practice report
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-5 to Know the types of interventions for the prevention of non-communicable diseases and metabolic disorders in animals, and requirements to conduct them in accordance with the guidelines, regulations, instructions, rules, diagnosis, prevention and treatment of animals	the Level of knowledge below the minimum requirements there has been a gross error of	the Minimum acceptable level of knowledge and made many mistakes structurally unstable	Level of knowledge in the scope of the training program made a few mistakes structurally unstable	Level of knowledge in the scope of the training program, error-free	Preparation practice report

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	in solving standard problems not Demonstrated the basic skills, there has been a gross error	has Demonstrated the basic skills, solved common tasks with stable errors, all tasks are completed, but not fully	Demonstrated all the basic skills, solved all the major problems with stable errors, all tasks are completed in full, but some flaws	All basic skills were demonstrated, all basic tasks with some minor shortcomings were solved, all tasks were completed in full	Preparation and protection of the practice report
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3. LIST OF CONTROL TASKS AND OTHER MATERIALS NECESSARY FOR ASSESSING KNOWLEDGE, SKILLS, ABILITIES AND EXPERIENCE IN GENERAL PROFESSIONAL EDUCATIONAL PRACTICE

3.1. Questions for intermediate certification in general professional training practice

3.1.1. In the section "Botany with the basics of feed production":

CC-1 is able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy

UK-1ID-1 To know methods of critical analysis and evaluation of modern scientific achievements; basic principles of critical analysis.

1. Practical value of plants in human life. The role of medicinal plants.
2. History of the use of medicinal plants.
3. History of the use of medicinal plants in Russia.
4. Study of medicinal plants of Siberia.
5. The main groups of chemicals in medicinal plants. Their biological role.
6. Glycosides, their chemical nature, application.
7. Alkaloids: chemical nature, therapeutic effect.
8. Vitamins: chemical nature, therapeutic effect.

CC-1ID-2 To be able to acquire new knowledge based on analysis, synthesis, etc.; to collect and summarize data on current scientific problems related to the professional field; to search for information and solutions based on actions, experiments, experience, information and communication technologies.

1. Microelements, their content in plants, therapeutic effect.
2. Rules for collecting and storing medicinal plants.
3. Preparation of the simplest medicines.
4. Medicinal plants used for cardiovascular diseases.
5. The importance of herbal remedies in folk and scientific medicine.
6. Botanical, geographical and resource characteristics of the European part of Russia.
7. Botanical, geographical and resource characteristics of Siberia.
8. Botanical, geographical and resource characteristics of the Far East.
9. The place of medicinal plants in the life of primitive man.

3.1.2. In the section "Biology with the basics of ecology":

UK-1ID-3 Master the study of the problem of professional activity using analysis, synthesis and other methods of intellectual activity, including the use of information and communication technologies; identifying problems and using adequate methods to solve them; demonstrating value judgments in solving problematic professional situations.

1. Problems of interaction between society and nature in modern conditions.
2. Nature as a perfect, economical, waste-free and environmentally friendly and harmless production.
3. Environmental disasters and their consequences for the surrounding world.
4. Environmental pollution is a real and threatening factor of modern civilization.
5. Environment and scientific bases of its protection.
6. Environmental movements in society.
7. General features of the current environmental crisis.
8. The ozone layer of the atmosphere and the consequences of its destruction.

UK-4 is able to apply modern communication technologies, including in a foreign language(s), for academic and professional interaction

UK-4ID-1 Know computer and information and communication technologies, information and digital infrastructure in the organization; communication in professional ethics; factors for improving communication in the organization, communication technologies in professional interaction; characteristics of communication flows; the value of communication in professional interaction; methods for studying the communicative potential of an individual; modern information and communication technologies

1. The greenhouse effect and heat sickness of the Planet.
2. Nature reserves are the basis of ecological balance.
3. The Red Data Book is a global international cadastre.
4. The theory of the biosphere is one of the largest generalizations of natural science of the XX century.
5. Biosphere and scientific and technological progress.
6. A variety of problems of modern ecology.
7. The importance of ecology for human civilization.
8. Life as an ecological event.

UK-4ID-2 To be able to create written texts of scientific and official-business speech styles on professional issues in Russian and foreign languages; to study the passage of information on managerial communications; to determine internal communications in the organization, including using digital technologies.

1. Mathematical models in ecology (modeling in ecology)
2. Abiotic factors and their effects on organisms.
3. Biotic factors in nature.
4. Time as an ecological factor in the life of living organisms.
5. Success in solving environmental problems in your region.
6. Problems of stabilization of anthropogenic landscapes.
7. Laws and methods in social ecology.
8. A variety of types of interaction between different species in nature.

UK-4ID-3 Master the principles of forming a communication system; analyze the system of communication links in the organization by performing oral and written communications, including in a foreign language; presenting plans and results of their own and team activities using communication technologies; technology for building effective communication in the organization; transfer of professional information in information and telecommunications networks using the following methods: modern means of information and communication technologies.

1. Diversity of relationships between individuals of populations.
2. Adaptation of living organisms to the environment:
3. Adaptation of animals to life in the soil.
4. Evolution of the respiratory and circulatory systems of animals in connection with landfall.
5. Evolution of the chordate skeleton in relation to landfall.
6. Adaptation of aquatic organisms to habitat conditions.
7. Adaptation of animals to moving through the air.
8. Morphological and physiological adaptations of animals to parasitic lifestyle.

CC-6 is able to determine and implement priorities of its own activities and ways to improve them based on self-assessment and lifelong education

UK-6ID-1 Know the content of self-organization and self-education processes, their features

and technologies of implementation, based on the goals of improving professional activity

1. Temperature adaptations of organisms.
2. Taxis tropisms as a reaction of organisms to physical and chemical environmental factors.
3. Ecology of marsh plants.
4. Ecology of algae.
5. Changes in the structure of plants due to landfall.
6. Adaptation of plants to drought and dry habitats.
7. Plant ecology in cities and industrial centers.
8. Ecological role of forests.

UK-6ID-2 To be able to independently build the process of mastering selected and structured information, including using digital technologies.

1. The effect of ionizing radiation on living organisms and biochemical processes.
2. The cosmic role of green plants.
3. Photosynthesis and plant productivity.
4. Ecology of photosynthesis.
5. Plant growth and development management.
6. How to increase soil fertility?
7. Physiology of nutrition of insectivorous plants.
8. The role of chemical elements in the nutrition, development and normal life of plants.

UK-6ID-3 Master the techniques of self-regulation of psychoemotional and functional states.

1. Biogenic elements and their cycle in nature.
2. Mineral fertilizers and environmental pollution.
3. Why do legumes need nitrogen fertilizers less than others?
4. Organisms that are biofiltrators of marine biocenoses.
5. Competition and predation in nature.
6. Biological methods of pest control of agricultural plants.
7. The importance of soil fauna in increasing soil fertility.
8. Coral reef as a biocenosis of the tropical zone of the World Ocean.

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

1. The influence of natural factors on human health.
2. The effect of anthropogenic environmental changes on human health.
3. Human quality of life as an environmental problem.
4. The impact of urbanization on human health.
5. Nutrition and public health.
6. Influence of alcohol on public health.
7. The impact of tobacco smoking on public health.
8. Human ecology.

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

1. Biorhythms and human health.
2. Climate and human health.
3. Health factors and disease factors.

4. Heredity as a factor of health and disease risk.
5. Human adaptation systems and their implementation.
6. Alarm systems and language in the animal world.
7. Man as a new geological force on the planet.
8. B. Commoner's socio-ecological laws and their role in optimizing the development of socio-ecological systems.
9. Laws and methods in social ecology.

3.1.3. For the section "Animal Anatomy":

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.

1. Chest: bones, joints of bones.
2. Pelvic cavity: bones, topography of male and female organs.
3. Synovial bursae and vaginas of the thoracic and pelvic extremities.
4. The joint as an organ.
5. Vertebral column: structure, development, specific features.
6. Facial skull: structure, development, specific features.
7. Brain skull: structure, development, specific features.
8. Belt of bones of the thoracic and pelvic extremities: structure, development, and specific features.

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.

1. Stylopodium: structure, specific features.
2. Zeigopodium: structure, specific features.
3. Hand bones: structure and specific features.
4. Foot bones: structure, specific features.
5. Joints of the thoracic limb: structure, ligaments, and specific features.
6. Pelvic limb joints: structure, ligaments, and specific features.
7. Vertebral joints: structure, specific features.
8. Joints of the bones of the head, ribs, and sternum: structure and specific features.

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.

1. Classification of bone connections.
2. Bone as an organ.
3. Muscle as an organ, auxiliary organs of muscles.
4. Muscles of the shoulder girdle and thoracic limb.
5. Head and neck muscles.
6. Muscles of the chest and abdominal wall. The aperture.
7. Pelvic limb muscles.
8. Muscles and synovial vaginas of the hand (carpal joint and finger joints).

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

1. Muscles and synovial vaginas of the foot joints (tarsal joint and finger joints).
2. Brain skull: the structure of bones and their connections.
3. Facial skull (structure of bones and their connections).
4. Bones of the dog's thoracic limb.
5. Pelvic limb bones of dogs.
6. Joints of the dog's thoracic limb.

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.

1. Cattle autopodium: bones, joints of bones and muscles.
2. Horse's autopodium: bones, joints of bones, and muscles.
3. Auxiliary organs of muscles: synovial bursae and vaginas (structure and topography).
4. Joints of the dog's pelvic limb.
5. Dog's autopodium: bones, joints of bones.

3.1.4. In the section "Veterinary genetics and animal husbandry":

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

1. List the factors that affect growth and development in ontogenesis
2. Describe the phases of embryonic development.
3. What is expressed in the stages of growth in ontogenesis and how is it taken into account in the directed rearing of animals?
4. Terms of sexual and economic maturity of cattle, horses and pigs.
5. Describe the phases of embryonic development.
6. How is the degree of inbreeding determined?
7. Classification of types of constitutions.
8. What is the relationship between the types of constitution and the direction of productivity and resistance of animals to diseases?

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

1. What measurements are taken with a measuring stick, measuring compass, measuring tape?
2. Methods for determining the live weight of cattle and horses.
3. Describe the exterior and interior features of animals with signs of infantilism.
4. What is moderate inbreeding, incest?

5. What is heterosis? What is its essence?
6. What forms of pedigree recording are used in animal husbandry?
7. What is the purpose of inbreeding in animal and poultry breeding?
8. How is the degree of inbreeding determined?

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.

1. What is inbred depression?
2. Calculation of the inbreeding coefficient.
3. What is the role of inbreeding in the development of hereditary diseases?
4. Principles of forming lines and families in purebred breeding.
5. Progenitors of lines and families and their influence on the spread of anomalies and diseases.
6. What are the distinctive features of factory and genealogical lines?
7. What is embryonalism and infantilism?
8. What is the essence of the Chervinsky-Malygonov law?

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

1. Specify the reasons that cause the animals ' underdevelopment.
2. What is scavenger crossing?
3. Describe the exterior and interior features of animals with signs of embryonalism.
4. What is a pedigree and who is a proband?
5. What is selection? Selection forms.

3.1.5. Under the section "Animal feeding":

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

1. Characteristics of coarse feed, representatives of this group.
2. Characteristics of juicy feeds, representatives of this group.
3. Characteristics of concentrated feed, representatives of this group.
4. The main forage crops used for green fodder. Characteristics, nutritional value, timing, sequence, and duration of use in feeding agricultural animals.
5. Methods of preserving green fodder, classification, essence of the canning mechanism and efficiency of use.
6. Scientific basis of feed silage and conditions necessary for obtaining high-quality silage.

7. The main crops used for silage production.
8. Requirements for silos.

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

1. GOST requirements for silo quality.
2. Scientific basis of haylage preparation, conditions necessary for obtaining high-quality haylage.
3. The main crops used for haylage preparation.
4. Methods for assessing the quality of silage and haylage.
5. Biochemical processes occurring during grass drying, their influence on the chemical composition and nutritional value of hay.
6. Methods of making hay and their essence.
7. Preparation of vitamin hay.
8. Types and classes of hay according to GOST.

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

1. Methods for evaluating hay quality.
2. Scientific basis of herbal flour preparation.
3. Methods of storing herbal flour.
4. Stabilization of carotene.
5. Straw, chemical composition and nutritional value.
6. Ways to increase the palatability and nutritional value of straw.
7. Root and tuberous crops: representatives, technology of storage and preparation for feeding.
8. Biological methods of preparing grain feed for feeding their essence and effectiveness.

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 To be able to apply new information technologies to solve tasks in their professional activities, to work with specialized information databases

1. Methods of feed grain estimation.
2. GOST requirements for the quality of feed grain.
3. List the by-products of the processing industry (industrial waste) used in feeding agricultural animals.
4. Remnants of flour production: representatives, chemical composition, nutritional value, use in feeding agricultural animals.
5. Residues of oil extraction production: representatives, chemical composition, nutritional value, use in feeding agricultural animals.
6. Remnants of starch production: representatives, chemical composition, nutritional value, use in feeding agricultural animals.
7. Remnants of fermentation production: representatives, chemical composition, nutritional value, use in feeding agricultural animals.

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.

1. Remnants of sugar beet production: representatives, chemical composition, nutritional value, use in feeding agricultural animals.
2. Animal feed: representatives of this group, as opposed to plant-based feed.
3. Dairy feeds: representatives, nutritional value and use in feeding agricultural animals.
4. Calculation of absolute and relative live weight gain.

3.1.6. In the section "Pathological physiology":

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

1. Local effect of electric current on the animal body.
2. The general effect of electric current on the animal body.
3. The mechanism of action of the laser on the body.
4. Local and general effects of ultraviolet rays on the body.
5. What is clover disease? The mechanism of its development.
6. Acute radiation sickness.
7. Chronic radiation sickness.
8. Damaging effect of ionizing radiation.
9. Local effect of low temperatures on the body, stages of frostbite.

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

1. What is hypothermia? Pathogenesis.
2. Theories of colds.
3. Burn shock and collapse.
4. Burn disease.
5. What is hyperthermia? Pathogenesis.
6. Heat and sunstroke.
7. What is arterial hyperemia?
8. Signs of arterial hyperemia?

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

1. Types of arterial hyperemia?
2. Consequences of arterial hyperemia?
3. What is venous hyperemia?
4. Signs of venous hyperemia?
5. Types of venous hyperemia?
6. Consequences of venous hyperemia?
7. What is hypoxia?
8. Types of hypoxia
9. What is ischemia?

PC-15ID-2 Should be able to assess the effectiveness of preventive measures and methods of their implementation, including using digital technologies

1. Signs of ischemia.
2. Types of ischemia.
3. Consequences of ischemia.
4. What is a heart attack? Pathogenesis.
5. Types of heart attacks.
6. Bleeding – the concept, types of bleeding according to the way blood goes out of the blood vessels.
7. Hemorrhages – concept, types.
8. Compensatory mechanisms in the body during blood loss.

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

1. Thrombosis-the concept, the main causes of thrombosis.
2. Types of blood clot by the nature of its location in the vessels.
3. Mechanism of blood clot formation.
4. Outcomes of thrombosis.
5. What is an embolism?
6. Types of embolisms?
7. What is edema and dropsy? Describe the etiology, pathogenesis, and consequences.
8. The concept of inflammation. What is the biological significance of this reaction for the body?

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

1. Causes and signs of inflammation. Theories of inflammation.
2. Formation of an inflammatory focus. Microcirculation disorders and vascular disorders in it.
3. Exudation and emigration in case of inflammation. Phagocytosis.
4. Features of the development of inflammation in different animal species.
5. Mediators of inflammation.
6. Fever. Definition of the concept.
7. Etiology of fever.

4. METHODOLOGICAL MATERIALS DEFINING PROCEDURES FOR ASSESSING KNOWLEDGE, SKILLS AND ABILITIES AND EXPERIENCE OF ACTIVITIES THAT CHARACTERIZE THE STAGES OF COMPETENCE FORMATION

Intermediate certification based on the results of students' general professional practice is carried out on the basis of a diary and practice report drawn up in accordance with the established requirements, as well as a review-characteristics of the practice manager from the relevant organization (if any).

The form of intermediate certification is the defense of the diary and report at the supervising department with the assignment of credit to the student.

Summing up the results of the internship involves identifying the degree of implementation of the internship program by the student, the completeness and quality of the collected material, the availability of the results of the analysis, calculations, the degree of validity of conclusions and proposals, identifying shortcomings in the internship, the submitted material and its design, developing measures and ways to eliminate them.

Evaluation of the results of practical training is carried out based on the results of defending the report on practical training, taking into account the assessment of the student's work during practical training, given by the head of educational practice from the organization in the review-characteristic.

The report is defended at a meeting of the department with the obligatory presence of the head of the practice. The time of certification is determined in accordance with the schedule approved by the Training Department.

Students who have not submitted the report documentation, who have not submitted it in full, or who have violated the registration rules are not allowed to defend the report.

The procedure of current and intermediate monitoring of students with disabilities and persons with disabilities in practice is carried out using the funds of assessment tools adapted to the limitations of their health and perception of information, including the use of special technical means.

If necessary, persons with disabilities and persons with disabilities are given additional time to prepare a response to the test.

When carrying out the procedure for evaluating the results of training of disabled people and persons with disabilities, their own technical means can be used.

The procedure for evaluating the results of training of disabled people and persons with disabilities in practice provides for the provision of information in forms adapted to the limitations of their health and perception of information:

For people with visual impairments:	- in printed form with an enlarged font, – in the form of an electronic document.
For people with hearing impairments:	– in printed form, – in the form of an electronic document.
For persons with musculoskeletal disorders	– in printed form, - in the form of an electronic document.

When conducting the procedure for evaluating the learning outcomes of disabled people and persons with disabilities, the practice ensures that the following additional requirements are met, depending on the individual characteristics of students:

a) instructions on the procedure for conducting the assessment procedure are provided in an accessible form (orally, in writing);

b) an accessible form of providing tasks with assessment tools (in printed form, in printed form in an enlarged font, in the form of an electronic document, tasks are read out by the teacher);

c) an accessible form of providing answers to tasks (written on paper, a set of answers on a computer, orally).

If necessary, for students with disabilities and disabled people, the procedure for evaluating the results of practical training can be carried out in several stages.

The procedure for evaluating the learning outcomes of disabled people and persons with disabilities is allowed using distance learning technologies.

Criteria for assessing the formation of competencies and crediting based on the results of passing training practice and providing reporting forms for interim control.

Evaluation	Criteria
credited	The presentation of materials is complete, consistent, and competent. Minor and stylistic errors are allowed. Primary documents are attached. Applications are logically linked to the text part of the report. The diary and report were submitted on time. The internship program is completed. Review-the characteristic from the place of practice is positive. The student demonstrates the consistency and depth of knowledge gained during the internship; stylistically competently, logically correctly presents answers to questions using professional terminology; gives answers to additional questions of the teacher on topics provided for in the internship program; Materials are qualitatively and meaningfully designed.
The	presentation of materials is incomplete and unsystematic. There are errors and the design doesn't fully meet the requirements. There are no appendices or they are not related to the material presented. The report was not submitted in due time. Review-the characteristic is negative. The internship program was not completed. The student demonstrates fragmentary knowledge within the framework of the practice program; does not know the minimum necessary terminology; makes gross logical mistakes when answering questions from the teacher that he cannot correct on his own. The materials are designed with a low level of quality.

5. ACCESSIBILITY AND QUALITY OF EDUCATION FOR PEOPLE WITH DISABILITIES

If necessary, persons with disabilities and persons with disabilities are given additional time to prepare a response to the test.

When carrying out the procedure for evaluating the results of training of disabled people and persons with disabilities, their own technical means can be used.

The procedure for evaluating the results of training of disabled people and persons with disabilities in the discipline provides for the provision of information in forms adapted to the limitations of their health and perception of information:

For people with visual impairments:	– in printed form with an enlarged font, – in the form of an electronic document.
For people with hearing impairments:	– in printed form, – in the form of an electronic document.
For people with musculoskeletal disorders	– in printed form, – in the form of an electronic document.

When conducting the procedure for evaluating the results of training of disabled people and persons with disabilities in the discipline, it ensures that the following additional requirements are met, depending on the individual characteristics of students:

a) instructions on the procedure for conducting the assessment procedure are provided in an accessible form (orally, in writing);

b) an accessible form of providing tasks with assessment tools (in printed form, in printed form in an enlarged font, in the form of an electronic document, tasks are read out by the teacher);

c) an accessible form of providing answers to tasks (written on paper, a set of answers on a computer, orally).

If necessary, for students with disabilities and disabled people, the procedure for evaluating the results of training in a discipline can be carried out in several stages.

The procedure for evaluating the learning outcomes of disabled people and persons with disabilities is allowed using distance learning technologies.