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Информация о владельце:

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ca953a0120d891083f939673078ef1a989dae18a Agrarian and Technological Institute

WORKING COURSE SYLLABUS

Private veterinary surgery

Recommended by the Methodological Council for the Education Field:

36.05.01 Veterinary medicine

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "**Private veterinary Surgery**" is to form a broad-profile specialist, the ability to perform not only complex surgical interventions, but also the ability to organize and conduct preventive and therapeutic measures.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Private veterinary Surgery**" is aimed at creating the following competencies (parts of competencies) for students:

Table 2.1. List of competencies formed by students during the development of the discipline (results of the development of the discipline)

| Code | Competence | Indicators of competence |
|-------|--|---|
| Couc | Competence | accomplishment (within the discipline) |
| UK-1 | The ability to carry out a | UK-1.1 Analyzes the task, highlighting its |
| OK-1 | critical analysis of problem | basic components; |
| | situations based on a systematic | UK-1.2 Defines and ranks the information |
| | | |
| | approach, to develop a strategy of action. | required to solve the task; |
| | or action. | UK -1.3 Searches for information to solve |
| | | the task by various types of queries; |
| | | UK-1.4 Offers solutions to the problem, |
| | | analyzes the possible consequences of |
| | | their use; |
| | | UK -1.5 Analyzes the ways of solving |
| | | problems of a philosophical, moral and |
| | | personal nature based on the use of basic |
| | | philosophical ideas and categories in their |
| | | historical development and socio-cultural |
| | | context. |
| UK -3 | The ability to organize and | UK-3.1 Defines his role in the team based |
| | manage the work of the team, | on the strategy of cooperation to achieve |
| | developing a team strategy to | the goal; |
| | achieve the goal. | UK-3.2 Formulates and takes into account |
| | | in its activities the peculiarities of the |
| | | behavior of groups of people, identified |
| | | depending on the goal; |
| | | UK-3.3 Analyzes the possible |
| | | consequences of personal actions and |
| | | plans his actions to achieve the desired |
| | | result; |
| | | UK-3.4 Exchanges information, |
| | | knowledge and experience with team |
| | | members; |
| | | UK -3.5 Argues his point of view |
| | | regarding the use of the ideas of other |

| | | team members to achieve the goal; |
|--------|-----------------------------------|---|
| | | UK -3.6 Participates in team work on the |
| | | execution of assignments. |
| UK -6 | The ability to determine and | UK-6.1 Controls the amount of time spent |
| | implement the priorities of | on specific activities; |
| | one's own activity and ways to | UK-6.2 Develops tools and methods of |
| | improve it based on self- | time management when performing |
| | assessment and lifelong | specific tasks, projects, goals; |
| | education. | UK -6.3 Analyzes its resources and their |
| | | limits (personal, situational, temporary, |
| | | etc.), for the successful completion of the |
| | | task; |
| | | UK -6.4 Finds and uses sources of |
| | | additional information to increase the |
| | | level of general and professional |
| | | knowledge; |
| | | UK -6.5 Analyzes the main opportunities |
| | | and tools of continuing education in |
| | | relation to their own interests and needs, |
| | | taking into account the conditions, means, |
| | | personal capabilities, stages of career |
| | | growth, time prospects for the |
| | | development of activities and the |
| | | requirements of the labor market; |
| | | UK -6.6 Defines the tasks of self- |
| | | development, goals and priorities of |
| | | professional growth; |
| | | UK -6.7 Distributes tasks into long-, |
| | | medium- and short-term ones with |
| | | justification of relevance and analysis of |
| | | resources for their implementation. |
| GPC-2 | The ability to interpret and | GPC-2.1 Has knowledge of the influence |
| | evaluate in professional activity | of natural, socio-economic, genetic and |
| | the influence of natural, socio- | economic factors on the animal body. |
| | economic, genetic and | GPC-2.2 He is able to establish the |
| | economic factors on the | presence and reliability of cause-and- |
| | physiological state of the | effect relationships between the effects of |
| | animal organism. | certain etiological factors on the animal's |
| | | body and the development of diseases. |
| | | GPC-2.3 Possesses methods of preventive |
| | | and curative correction of the effects of |
| | | adverse environmental factors that can |
| GD C : | TT1 1:11: | cause deterioration of animal health. |
| GPC -4 | The ability to use methods of | GPC-4.1 Possesses the conceptual and |
| | solving problems using modern | methodological apparatus of basic natural |
| | equipment in the development | sciences at a level sufficient for full- |
| | of new technologies in | fledged professional activity at the |
| | professional activity and to use | modern level. |

| | modern professional methodology for conducting experimental research and interpreting their results. | GPC-4.2 He knows the methods of solving problems using modern equipment. GPC-4.3 He is ready to use modern methodology in the development and conduct of experimental research. GPC-4.4 Uses modern professional methodology in interpreting research results. | |
|--------|--|---|--|
| GPC -6 | The ability to analyze, identify and assess the risk of the risk of the occurrence and spread of diseases. | etiology and pathogenesis of animal diseases of different species. GPC-6.2 Has the skills to diagnose non-infectious, infectious and invasive diseases, identify pathogens of infectious and invasive diseases in animals. GPC-6.3 He knows the patterns of the occurrence and spread of diseases in animal populations, factors predisposing to diseases and the causes of possible complications. | |
| PC -1 | The ability to collect anamnesis of life and disease of animals to identify the causes of diseases and their nature. | PC -1.1 He is able to collect an anamnesis of the animal's life and reflect this in the relevant service documentation. PC-1.2 He is able to collect the anamnesis of the animal's disease and reflect it in the patient's medical history. PC-1.3 He is able to identify possible causes of the disease in an animal, factors predisposing to the disease and concomitant conditions affecting the nature of the course of the disease and use | |
| PC -3 | Ability to develop animal research programs using special (instrumental) and laboratory methods. | PC-3.1 He is able to develop individual animal research programs, including the use of special (instrumental) and laboratory methods to detect deviations from the physiological norm of the state of a living organism, conduct differential diagnosis of the detected pathology or control the course of the disease and the effectiveness of the prescribed treatment. PC-3.2 Capable of developing mass comprehensive animal research programs (medical examination programs) of animals, taking into account their type and | |

| | | purpose, both general and special. |
|-------|--|--|
| PC -4 | The ability to conduct clinical studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis. | PC-4.1 Able to conduct additional animal studies using laboratory methods to clarify the diagnosis. PC-4.2 Able to conduct additional animal studies using special (instrumental) methods to clarify the diagnosis. |
| PC -5 | The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods. | PC-5.1 He is able to diagnose patients of various types based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods. PC -5.2 He is able to predict the risks of diseases based on anamnestic data, the results of general, special (instrumental) and laboratory studies. |
| PC -6 | The ability to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals. | PC-6.1 Able to develop a treatment plan for animals based on the established diagnosis and individual characteristics of animals. PC-6.2 He is able to develop recommendations on therapeutic and preventive manipulations to prevent diseases, the high probability of which was revealed during the study of the patient. PC-6.3 He is able to develop recommendations for carrying out preventive and curative measures based |
| PC -7 | The ability to choose the necessary drugs of chemical and biological nature for the treatment of animals, taking into account their combined pharmacological effect on the body. | on the results of the examination of animals carried out as part of the medical examination. PC -7.1 He is able to choose medicines of chemical and biological nature necessary for the treatment of animals, guided by the principles of evidence-based medicine, taking into account their combined pharmacological effect on the body. PC-7.2 He is able to justify the prescription of a drug in a certain clinical case or the impossibility of using this drug in the situation under consideration. |
| | | PC-7.3 He is able to calculate the dose, frequency and duration of the course of application of the drug to the patient, taking into account the form of release |

| | | and the characteristics of the administration of the drug to the patient. PC-7.4 He is able to take into account drug interactions when prescribing a course of treatment to an animal already receiving medications and biologically active additives due to the presence of diseases identified earlier. PC-7.5 He is able to take into account economic, species and age characteristics, as well as the results of laboratory studies of the patient when choosing drugs for the treatment of the patient. |
|--------|---|--|
| PC -8 | Ability to choose methods of non-drug therapy, including physiotherapy methods for the treatment of animals. | PC-8.1 He is able to choose and justify his choice of methods of non-drug therapy, including physiotherapy methods, for the treatment of animals; PC-8.2 He is able to evaluate the effectiveness of the chosen method in the treatment of the patient and, if necessary, adjust the treatment method or change the chosen method to another one. |
| PC -9 | The ability to carry out therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules. | PC-9.1 Able to carry out therapeutic, including physiotherapy, procedures using special equipment in compliance with safety rules; PC -9.2 He is able to take into account the species, age and individual characteristics of animals undergoing treatment using special equipment, choose acceptable methods of fixing the patient during the procedure, the conditions of the procedures and their duration. |
| PC -10 | The ability to determine the need for the use of surgical methods in the treatment of animals. | PC-10.1 Able to determine the need for the use of surgical methods in the treatment of animals; PC-10.2 Able to choose the optimal surgical method for the patient, taking into account the external conditions and the status of the patient's body, and if necessary, several manipulations - their order and time distribution; PC-10.3 He is able to take into account the risks and possible complications accompanying surgical interventions and take measures to prevent them. |
| PC -11 | Ability to develop a surgical operation plan, including the | PC-11.1 Able to develop a surgical |

| | choice of analgesia method | PC-11.2 He is able to choose and justify the optimal variant of anesthesia of the |
|--------|--|--|
| | | patient during surgery and in the postoperative period. |
| PC -13 | Ability to develop recommendations for special feeding of sick animals for therapeutic purposes. | PC-13.1 He is able to justify the appointment of special feeding to an animal for therapeutic purposes in various diseases; PC-13.2 He is able to recommend the approximate composition of therapeutic diets, the desired ratio of nutrients, the presence of special additives and components that enhance the therapeutic effect of the diet; PC-13.3 He is able to use special programs and databases for the selection of industrial therapeutic diets and dietary supplements, as well as for the compilation of individual therapeutic diets for animals of various species. |
| PC -14 | The ability to conduct repeated examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment and adjust the treatment plan of animals (if necessary) based on the results of the evaluation of the effectiveness of treatment. | PC-14.1 He is able to develop a plan of repeated studies necessary and sufficient to assess the predicted changes in the patient's health. PC-14.2 Able to conduct a repeated clinical examination, taking into account the specifics of diseases previously diagnosed in the patient. PC-14.3 Able to carry out the necessary repeated instrumental and laboratory tests. PC-14.4 He is able to analyze the identified changes, evaluate the effectiveness of the treatment and, if necessary, correct the prescribed course of treatment. |
| PC -16 | Ability to organize organizational, technical, zootechnical and veterinary measures aimed at the prevention of noncommunicable diseases in accordance with the plan for the prevention of noncommunicable animal diseases | PC-16.1 He is able to assess the impact of animal housing and feeding conditions on their health as part of the implementation of action plans for the prevention of animal diseases PC-16.2 He is able to carry out veterinary quality control and procurement of animal feed in order to ensure their veterinary and sanitary safety as part of the implementation of action plans for the prevention of animal diseases |

| | | PC-16.3 He is able to detect deviations from the plan of timing, types, quality of measures to prevent the occurrence of non-infectious animals PC-16.4 Take corrective measures to implement measures to prevent the occurrence of non-infectious animal diseases based on the results of control PC-16.5 Conduct conversations, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of |
|--------|---|--|
| DC 10 | 721 1:12 1 | animal diseases |
| PC -18 | The ability to draw up a plan for the medical examination of animals, taking into account their types and purpose, to conduct medical examinations, to develop recommendations | PC-18.1 He is able to make a plan for the medical examination of animals, general or specialized, taking into account their types and purpose PC-18.2 He is able to organize and conduct medical examination according to |
| | for carrying out preventive and curative measures based on the results of the examination of animals conducted as part of the medical examination | the drawn up plan PC-18.3 He is able, based on the results of medical examination, to give recommendations on the implementation of therapeutic and preventive and curative measures aimed at improving the health of a group of animals |
| PC -19 | The ability to perform postmortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death. | PC-19.1 Able to conduct a general examination of animal corpses before autopsy. PC-19.2 He is capable of performing autopsy of animal corpses using special tools and compliance with safety requirements. PC -19.3 He is able to establish the cause of death and a pathoanatomic diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases. PC-19.4 He is able to formalize the results of a postmortem diagnostic examination of an animal in the autopsy protocol. |
| PC -20 | Ability to develop an annual plan of antiepizootic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures. | PC-20.1 Able to conduct epizootological examination of the organization, territory. PC-20.2 He is able to develop an annual plan of antiepizootic and antiparasitic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures. |

| | | PC-20.3 He is able to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them. |
|--------|---|---|
| PC -22 | Ability to organize measures to protect the organization from the introduction of infectious and invasive diseases in accordance with the plan of antiepizootic measures. | PC -22.1 He is able to assess the epizootic state of an organization (territory), identify risks and possible causes of epizootic foci, as well as factors affecting their spread in specific organizations, territories. PC-22.2 Able to choose and apply the most effective measures to protect the organization from the introduction of infectious and invasive diseases. PC-22.3 He is able to carry out operational control of the effectiveness of |
| PC -23 | The ability to analyze the | the activities carried out. PC-23.1 He is capable of collecting and |
| | effectiveness of measures for the prevention of animal diseases in order to improve them. | analyzing information, including veterinary statistics data, necessary to assess the effectiveness of preventive antiepizootic measures, prevention of non-infectious animal diseases, veterinary and sanitary measures. PC-23.2 Able to evaluate the effectiveness of preventive measures and methods of their implementation, including using special software. PC -23.3 He is able to make suggestions on the correction of measures for the prevention of animal diseases on the basis of the analysis carried out. |
| PC -24 | Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases. | PC-24.1 He is able to set goals in the field of veterinary knowledge promotion, plan the strategy and tactics of upcoming events. PC-24.2 He is able to use computer and telecommunication facilities for the preparation and demonstration of |
| | | materials used in the process of promoting veterinary knowledge. PC-24.3 He is able to conduct conversations, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of animal diseases. |

3. COURSE IN HIGHER EDUCATION

The discipline "**Private veterinary Surgery**" refers to the mandatory part of block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the discipline "**Private veterinary Surgery**".

Table 3.1. List of Higher Education Program components disciplines that contribute to expected learning outcomes

| Compet | Competence | Previous Disciplines (Modules) | Subsequent Disciplines (Modules) |
|--------|----------------------------|-----------------------------------|----------------------------------|
| code | | | |
| UK-1 | The ability to carry out a | History | Obstetrics, gynecology and |
| | critical analysis of | Philosophy | andrology |
| | problem situations based | Life safety | Internal non-infectious |
| | on a systematic | Mathematics | diseases |
| | approach, to develop a | Fundamentals of | General surgery |
| | strategy of action | Economics and | Parasitology and invasive |
| | | Management | diseases |
| | | | Epizootology and |
| | | | infectious diseases |
| | | | Veterinary and sanitary |
| | | | examination |
| | | | Organization of veterinary |
| | | | business |
| | | | Veterinary deontology |
| | | | Fundamentals of |
| | | | intellectual work |
| | | | Zoopsychology |
| | | | Organization of state |
| | | | veterinary supervision |
| | | | Career Management |
| | | | Space technologies in the |
| | | | service of the agro- |
| | | | industrial complex |
| | | | Reconstructive and |
| | | | reconstructive surgery |
| UK-3 | The ability to organize | Jurisprudence | Operative surgery with |
| | and manage the work of | | topographic anatomy |
| | the team, developing a | Fundamentals of rhetoric | Internal non-infectious |
| | team strategy to achieve | and communication | diseases |
| | the goal | Introduction to the | General surgery |
| | | specialty | Parasitology and invasive |
| | | Fundamentals of | diseases |

| Economics and Management infectious diseases Mathematics Organization of veterinary business Veterinary sanitation Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self-determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the priorities of one's own Introduction to the General surgery |
|--|
| Mathematics Organization of veterinary business Veterinary sanitation Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics Mathematics Organization of veterinary business Veterinary sanitation Veterinary sanitation Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge Internal non-infectious diseases |
| business Veterinary sanitation Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics Dusiness Veterinary sanitation Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics diseases |
| Veterinary sanitation Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics Userinary sanitation Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics |
| Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics Veterinary deontology Fundamentals of intellectual work Personality psychology ar professional self- determination Fundamentals of social an legal knowledge Internal non-infectious diseases |
| Fundamentals of intellectual work Personality psychology are professional self-determination Fundamentals of social and legal knowledge UK-6 The ability to determine and implement the Mathematics diseases |
| intellectual work Personality psychology are professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics diseases |
| Personality psychology and professional self-determination Fundamentals of social and legal knowledge UK-6 The ability to determine and implement the Mathematics diseases |
| professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics diseases |
| professional self- determination Fundamentals of social an legal knowledge UK-6 The ability to determine and implement the Mathematics diseases |
| UK-6 The ability to determine and implement the Mathematics determination Fundamentals of social and legal knowledge Internal non-infectious diseases |
| UK-6 The ability to determine and implement the Mathematics legal knowledge Internal non-infectious diseases |
| UK-6 The ability to determine and implement the Mathematics legal knowledge Internal non-infectious diseases |
| UK-6 The ability to determine and implement the Mathematics Internal non-infectious diseases |
| and implement the Mathematics diseases |
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| priorities of one's own introduction to the Content surgery |
| activity and ways to specialty Epizootology and |
| improve it based on self- infectious diseases |
| 1 |
| assessment and lifelong education Organization of veterinary business |
| |
| Veterinary deontology |
| Fundamentals of |
| intellectual work |
| Personality psychology ar |
| professional self- |
| determination |
| Career Management |
| Fundamentals of social an |
| legal knowledge |
| Reconstructive and |
| reconstructive surgery |
| GPC -2 The ability to interpret Biology with the basics of Animal health and welfare |
| and evaluate in ecology Obstetrics, gynecology an |
| professional activity the Veterinary genetics andrology |
| influence of natural, Veterinary microbiology Internal non-infectious |
| socio-economic, genetic and mycology diseases |
| and economic factors on Virology and General surgery |
| the physiological state of Diolectinology Deresitology and investive |
| the animal organism. Physiology and ethology of animals Physiology and ethology diseases |
| Breeding with the basics Epizootology and |
| of private animal infectious diseases |
| husbandry Forensic veterinary |
| Forage plants examination and autopsy |
| Animal Health animals |
| Immunology Veterinary sanitation |
| General and veterinary Zoopsychology |
| ecology Diseases of horses |
| Dethological anatomy |
| Instrumental diagnostic Diseases of productive |

| | | 41 1 | • 1 |
|--------|---------------------------|-------------------------------------|----------------------------|
| | | methods | animals |
| | | Toxicology Pathological physiology | Diseases of small pets |
| | | Pathological physiology | Diseases of small pets |
| | | Veterinary Radiobiology | Bee diseases and |
| | | | entomophages |
| | | | Fish pathology and |
| | | | aquaculture |
| | | | Diseases of exotic animals |
| | | | Anesthesiology, intensive |
| | | | care and intensive care |
| | | | Dermatology |
| | | | Cardiology |
| | | | Endocrinology |
| | | | Nephrology |
| | | | Veterinary Ophthalmology |
| | | | Animal Dentistry |
| GPC -4 | The ability to use | Inorganic and analytical | Clinical diagnosis |
| GFC -4 | - | = | S |
| | | chemistry | Obstetrics, gynecology and |
| | problems using modern | Organic Chemistry | andrology |
| | equipment in the | Biological physics | Internal non-infectious |
| | development of new | Computer science | diseases |
| | technologies in | Instrumental diagnostic | General surgery |
| | professional activity and | methods | Parasitology and invasive |
| | to use modern | Toxicology | diseases |
| | professional | Physical and colloidal | Epizootology and |
| | methodology for | chemistry | infectious diseases |
| | conducting experimental | Cytology, histology and | Veterinary sanitation |
| | research and interpreting | embryology | Technology of processing |
| | their results. | Biological chemistry | livestock products |
| | | Veterinary microbiology | Fundamentals of |
| | | and mycology | intellectual work |
| | | Virology and | Personality psychology and |
| | | biotechnology | professional self- |
| | | Physiology and ethology | determination |
| | | of animals | Clinical laboratory |
| | | Breeding with the basics | diagnostics |
| | | of private animal | Laboratory diagnostics of |
| | | husbandry | infectious and invasive |
| | | Pathological physiology | diseases |
| | | Medicinal and poisonous | Diseases of horses |
| | | plants | Diseases of productive |
| | | Forage plants | animals |
| | | | |
| | | Mathematics Veterinary | Diseases of small pets |
| | | Radiobiology | Diseases of small pets |
| | | Pathological anatomy | Bee diseases and |
| | | Operative surgery with | entomophages |
| | | topographic anatomy | Fish pathology and |
| | | Immunology | aquaculture |

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|--------|--------------------------|--------------------------------|-------------------------------------|
| | | | Diseases of exotic animals |
| | | | Anesthesiology, intensive |
| | | | care and intensive care |
| | | | Dermatology |
| | | | Cardiology |
| | | | Endocrinology |
| | | | Nephrology |
| | | | Reconstructive and |
| | | | reconstructive surgery |
| | | | Veterinary Ophthalmology |
| | | | Animal Dentistry |
| GPC -6 | The ability to analyze, | Biology with the basics | Clinical diagnosis |
| | identify and assess the | of ecology | Toxicology |
| | risk of the risk of the | Life safety | Obstetrics, gynecology and |
| | occurrence and spread of | Instrumental diagnostic | andrology |
| | diseases. | methods | Internal non-infectious |
| | | Veterinary microbiology | diseases |
| | | and mycology | General surgery |
| | | Virology and | Parasitology and invasive |
| | | biotechnology | diseases |
| | | Animal health and | Epizootology and |
| | | welfare | infectious diseases |
| | | Feeding animals with | Veterinary and sanitary |
| | | the basics of feed | examination |
| | | | |
| | | production Introduction to the | Organization of veterinary business |
| | | | |
| | | specialty | Forensic veterinary |
| | | Medicinal and poisonous | examination and autopsy of |
| | | plants | animals |
| | | Forage plants | Veterinary sanitation |
| | | Animal Health | Technology of processing |
| | | General and veterinary | livestock products |
| | | ecology | Clinical laboratory |
| | | Veterinary Radiobiology | diagnostics |
| | | Pathological anatomy | Laboratory diagnostics of |
| | | | infectious and invasive |
| | | | diseases |
| | | | Organization of state |
| | | | veterinary supervision |
| | | | Diseases of horses |
| | | | Diseases of productive |
| | | | animals |
| | | | Diseases of small pets |
| | | | Diseases of small pets |
| | | | Bee diseases and |
| | | | entomophages |
| | | | Fish pathology and |
| | | | aquaculture |
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| | | | Diseases of exotic animals Anesthesiology, intensive care and intensive care Veterinary Ophthalmology Animal Dentistry |
|-------|---|--|---|
| PC-1 | The ability to collect anamnesis of life and disease of animals to identify the causes of diseases and their nature | Physiology and ethology of animals Breeding with the basics of private animal husbandry Animal health and welfare Feeding animals with the basics of feed production Fundamentals of rhetoric and communication Toxicology | Clinical diagnosis Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Epizootology and infectious diseases Veterinary deontology Zoopsychology Animal Health Personality psychology and professional self-determination Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry |
| PC -3 | Ability to develop animal research programs using special (instrumental) and laboratory methods | Cytology, histology and embryology Life safety Pathological anatomy Toxicology | Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination |

| | The ability to conduct clinical studies of animals using special (instrumental) and laboratory methods to clarify the diagnosis | Animal anatomy Biological physics Cytology, histology and embryology Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Pathological physiology Pathological anatomy Instrumental diagnostic methods | Forensic veterinary examination and autopsy of animals Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Diseases of horses Diseases of productive animals Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry Clinical diagnosis Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology |
|--|---|---|--|
|--|---|---|--|

| | | | Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry |
|-------|--|---|--|
| PC -5 | The ability to make a diagnosis based on the analysis of anamnesis data, general, special (instrumental) and laboratory research methods | Veterinary genetics Cytology, histology and embryology Physiology and ethology of animals Breeding with the basics of private animal husbandry Feeding animals with the basics of feed production Pathological physiology Pathological anatomy Toxicology | Clinical diagnosis Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Epizootology and infectious diseases Forensic veterinary examination and autopsy of animals Zoopsychology Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry |
| PC -6 | Ability to develop an animal treatment plan based on the established diagnosis and individual characteristics of animals | Veterinary genetics Veterinary microbiology and mycology Virology and biotechnology Pathological physiology | Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive |
| | | Veterinary Pharmacology Toxicology Mathematics | diseases Epizootology and infectious diseases Zoopsychology |

| PC -8 | Ability to choose methods of non-drug therapy, including physiotherapeutic methods for the treatment of animals | Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Feeding animals with the basics of feed production Pathological physiology Veterinary Radiobiology | Internal non-infectious diseases General surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry |
|--------|--|---|--|
| PC -9 | The ability to carry out therapeutic, including physiotherapy procedures using special equipment in compliance with safety rules | Animal anatomy Life safety Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Pathological physiology | Animal Dentistry Veterinary Radiobiology General surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry |
| PC -10 | The ability to determine the need for the use of surgical methods in the treatment of animals | Veterinary genetics Cytology, histology and embryology Veterinary microbiology and mycology Physiology and ethology of animals Pathological physiology Pathological anatomy | Clinical diagnosis Obstetrics, gynecology and andrology General surgery Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Diseases of exotic animals Dermatology |

| | T | T | 1 |
|--------|---|--|--|
| DC 11 | A1:1:4 4- 1- 1 | A nineal anataura | Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry |
| PC -11 | Ability to develop a surgical operation plan, including the choice of analgesia method | Animal anatomy Veterinary microbiology and mycology Physiology and ethology of animals Pathological physiology Veterinary Pharmacology Pathological anatomy Operative surgery with topographic anatomy | Obstetrics, gynecology and andrology General surgery Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery |
| PC -13 | Ability to develop recommendations for special feeding of sick animals for therapeutic purposes | Physiology and ethology of animals Feeding animals with the basics of feed production Pathological physiology Forage plants Medicinal and poisonous plants | Internal non-infectious diseases General surgery Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology |
| PC -14 | The ability to conduct repeated examinations and studies of animals to assess the effectiveness and safety of the prescribed treatment and adjust the treatment plan of animals (if necessary) based on the results of the evaluation of the effectiveness of treatment | embryology Physiology and ethology of animals Pathological physiology Pathological anatomy Toxicology Veterinary | Clinical diagnosis Instrumental diagnostic methods Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Clinical laboratory diagnostics Diseases of horses Diseases of productive animals Diseases of small pets Diseases of exotic animals Anesthesiology, intensive |

| | | | care and intensive care |
|--------|---------------------------|--------------------------|------------------------------|
| | | | Dermatology |
| | | | Cardiology |
| | | | Endocrinology |
| | | | Nephrology |
| | | | Reconstructive and |
| | | | reconstructive surgery |
| | | | Veterinary Ophthalmology |
| | | | Animal Dentistry |
| PC -16 | Ability to organize | Veterinary genetics | Animal health and welfare |
| | organizational, | Life safety | Obstetrics, gynecology and |
| | technical, zootechnical | _ | |
| | , | Physiology and ethology | andrology |
| | and veterinary measures | of animals | Internal non-infectious |
| | aimed at the prevention | Breeding with the basics | diseases |
| | of non-communicable | of private animal | General surgery |
| | diseases in accordance | husbandry | Organization of veterinary |
| | with the plan for the | Feeding animals with | business |
| | prevention of non- | the basics of feed | Economics and |
| | communicable animal | production | organization of agricultural |
| | diseases | Fundamentals of | production |
| | | Economics and | Zoopsychology |
| | | Management | Diseases of horses |
| | | Medicinal and poisonous | Diseases of productive |
| | | plants | animals |
| | | Forage plants | Diseases of small pets |
| | | Animal Health | Diseases of small pets |
| | | | Bee diseases and |
| | | | entomophages |
| | | | 1 0 |
| | | | Fish pathology and |
| | | | aquaculture |
| | | | Diseases of exotic animals |
| | | | Veterinary Ophthalmology |
| | | | Animal Dentistry |
| PC -18 | The ability to draw up a | Veterinary genetics | Clinical diagnosis |
| | plan for the medical | Physiology and ethology | Instrumental diagnostic |
| | examination of animals, | of animals | methods |
| | taking into account their | Breeding with the basics | Obstetrics, gynecology and |
| | types and purpose, to | of private animal | andrology |
| | conduct medical | husbandry | Internal non-infectious |
| | examinations, to develop | Animal health and | diseases |
| | recommendations for | welfare | General surgery |
| | | Feeding animals with | Clinical laboratory |
| | carrying out preventive | the basics of feed | I |
| | and curative measures | | diagnostics |
| | based on the results of | production | Diseases of horses |
| | the examination of | Pathological physiology | Diseases of productive |
| | animals conducted as | Animal Health | animals |
| | part of the medical | Pathological anatomy | Diseases of small pets |
| | examination | Toxicology Veterinary | Diseases of small pets |
| | • | | |

| | | Pharmacology | Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry |
|-----|---|---|--|
| i 1 | Ability to perform post- mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death | Animal anatomy Cytology, histology and embryology Life safety Toxicology Pathological anatomy | Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Forensic veterinary examination and autopsy of animals Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Diseases of horses Diseases of productive animals Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry |

| PC -20 | Ability to develop an annual plan of antiepizootic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures | and mycology of animals Feeding animals with the basics of feed production Fundamentals of Economics and Management Animal Health | Internal non-infectious diseases Health and well-being General surgery Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business Veterinary sanitation Economics and organization of agricultural production Bee diseases and entomophages Fish pathology and aquaculture |
|--------|--|---|---|
| PC -22 | Ability to organize measures to protect the organization from the introduction of infectious and invasive diseases in accordance with the plan of antiepizootic measures | Life safety Veterinary microbiology and mycology Virology and biotechnology Animal health and welfare Veterinary Pharmacology | Internal non-infectious diseases Health and well-being General surgery Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business Veterinary sanitation Economics and organization of agricultural production Bee diseases and entomophages Fish pathology and aquaculture Parasitology and invasive diseases Epizootology and infectious diseases Epizootology and infectious diseases Organization of veterinary business General and veterinary ecology Veterinary sanitation Technology of processing livestock products Animal Health |

| | | | Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Bee diseases and entomophages Fish pathology and aquaculture |
|--------|--|---|---|
| PC -23 | Ability to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them | Breeding with the basics of private animal husbandry Toxicology Fundamentals of Economics and Management Animal Health | Animal health and welfare Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Forensic veterinary examination and autopsy of animals Veterinary sanitation Economics and organization of agricultural production Organization of state veterinary supervision Bee diseases and entomophages Fish pathology and aquaculture |
| PC -24 | Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases | Physiology and ethology of animals Breeding with the basics of private animal husbandry Feeding animals with the basics of feed production Pathological physiology Pathological anatomy Toxicology Fundamentals of rhetoric and communication Medicinal and poisonous | Animal health and welfare Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary sanitation Veterinary deontology Economics and organization of agricultural |

| | plants | production |
|--|------------------------|----------------------------|
| | 1 | Diseases of horses |
| | Forage plants | |
| | Foreign language for | Diseases of productive |
| | special purposes | animals |
| | Russian for special | Diseases of small pets |
| | purposes | Diseases of small pets |
| | Foreign language. | Bee diseases and |
| | Translation of special | entomophages |
| | texts | Fish pathology and |
| | Introduction to the | aquaculture |
| | specialty | Diseases of exotic animals |
| | Russian language. | Dermatology |
| | Translation of special | Cardiology |
| | texts | Endocrinology |
| | Foreign language. | Nephrology |
| | Professional | Reconstructive and |
| | communications | reconstructive surgery |
| | Russian language. | Veterinary Ophthalmology |
| | Professional | Animal Dentistry |
| | communications | |
| | General and veterinary | |
| | ecology | |
| | Animal Health | |
| | Zoopsychology | |

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "Private veterinary Surgery" is 4 credits.

Table 4.1. Types of academic activities during the period of the HE program mastering for <u>full-time</u> study

| Types of academic activities | | HOURS | Semesters | | | |
|--------------------------------|--------------|-------|-----------|---|---|---|
| | | | 8 | - | - | - |
| Contact academic hours | | 54 | 54 | - | - | 1 |
| including | | | | | | |
| Lectures | | 18 | 18 | - | - | 1 |
| Lab work | | 36 | 36 | • | - | 1 |
| Seminars (workshops/tutorials) | | - | - | - | - | - |
| Self-study | | 70 | 70 | - | - | 1 |
| ` | am/pass/fail | 20 | 20 | - | - | 1 |
| grading) | T | | | | | |
| | Academic | 144 | 144 | - | - | - |
| Course workload hour | | | | | | |
| Course workioau | Credit | 4 | 4 | - | - | - |
| | unit | | | | | |

Table 4.2. Types of academic activities during the period of the HE program mastering for <u>part-time</u> study

| Types of academic activities | | HOURS | Semesters | | | |
|---|----------|-------|-----------|---|---|---|
| | | | 8 | - | - | - |
| Contact academic hours | | 18 | 18 | - | - | - |
| including | | | | | | |
| Lectures | | - | - | - | - | - |
| Lab work | | 18 | 18 | - | - | - |
| Seminars (workshops/tutorials) | | - | _ | - | - | - |
| Self-study | | 116 | 116 | - | - | - |
| Evaluation and assessment (exam/pass/fail | | 10 | 10 | - | - | - |
| grading) | _ | | | | | |
| | Academic | 144 | 144 | - | _ | - |
| Course workload | hour | | | | | |
| Course workload | Credit | 4 | 4 | - | - | - |
| | unit | | | | | |

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of academic work

| Name of the discipline section | Content of the section (topics) | Types of academic activities | |
|-----------------------------------|---|------------------------------|--|
| Section 1. Inflammation. Surgical | Topic 1.1 Trauma. Traumatic illness | Lectures, Lab work. | |
| infection. | Topic 1.2 Diagnosis of inflammatory processes. | Lectures, Lab work. | |
| | Topic 1.3 Features of the course of inflammatory processes in the skin, subcutaneous fat, muscles, tendon-ligamentous apparatus, body cavities. | Lectures, Lab work. | |
| | Topic 1.4 Surgical infection. Local manifestations. | Lectures, Lab work. | |
| | Topic 1.5 Surgical infection. Systemic manifestations. | Lectures, Lab work. | |
| | Topic 1.6 Treatment of inflammatory processes by methods of etiotropic and pathogenetic therapy. | Lectures, Lab work. | |
| Section 2. Closed mechanical | Topic 2.1 Classification of closed mechanical damages. | Lectures, Lab work. | |
| damages. | Topic 2.2 Methods of diagnosis of CMD. | Lectures, Lab work. | |
| | Topic 2.3 Differential diagnosis of hematomas, extravasates, abscesses. | Lectures, Lab work. | |
| | Topic 2.4 Bone injuries. Injuries of the | Lectures, Lab | |

| | tendon-ligamentous apparatus. | work. | |
|-------------------------|---|-----------|-----|
| | Topic 2.5 Injuries of soft tissues and internal | Lectures, | Lab |
| | organs. | work. | |
| Section 3. | Topic 3.1 Types of wounds, features of | Lectures, | Lab |
| Biology of the wound | diagnosis and treatment of certain types of | work. | |
| process. | wounds. | | |
| | Topic 3.2 Drains, types, methods of setting | Lectures, | Lab |
| | drains. | work. | |
| | Topic 3.3 Granulation tissue. | Lectures, | Lab |
| | | work. | |
| | Topic 3.4 Features of the wound process in | Lectures, | Lab |
| | different animal species. | work. | |
| | Topic 3.5 Features of wound treatment and | Lectures, | Lab |
| | complications. | work. | |
| Section 4. | Topic 4.1 Surgical diseases in the head and | Lectures, | Lab |
| Private surgery. | neck. | work. | |
| | Topic 4.2 Surgical diseases in the chest and | Lectures, | Lab |
| | abdomen. | work. | |
| | Topic 4.3 Surgical diseases of the abdominal | Lectures, | Lab |
| | wall and abdominal organs. Herniotomy. | work. | |
| | Topic 4.4 Urogenital surgery. Castration. | Lectures, | Lab |
| | | work. | |
| Section 5. | Topic 5.1 Diagnostics and therapy of limb | Lectures, | Lab |
| Veterinary orthopedics. | diseases. | work. | |
| Section 6. | Topic 6.1 Diagnosis and therapy of eye | Lectures, | Lab |
| Veterinary | diseases. | work. | |
| ophthalmology. | | | |

6. CLASSROOM INFRASTRUCTURE AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

| Classroom for Academic Activity Type | Equipping the classroom | Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary) |
|--|---|---|
| Lecture | An auditorium for conducting lecture- type classes, equipped with a set of specialized furniture; a board (screen) and technical means of multimedia presentations. | - |
| Laboratory | An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment. | - |

| An auditorium for independent work of | - |
|--|--|
| students (can be used for seminars and | |
| consultations), equipped with a set of | |
| specialized furniture and computers | |
| with access to an electronic information | |
| and educational environment. | |
| | students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to an electronic information |

7. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

General veterinary surgery: textbook / S.V. Pozyabin, Yu.I. Filippov, N.A. Kozlov [et al.]; under the general editorship of S.V. Pozyabin. - Moscow: Kolos-s, 2019. – 762 p. Private veterinary surgery: Textbook for universities / V.S. Semenov, A.V. Lebedev, A.N. Eliseev, V.A. Molokanov; Edited by B.S.Semenov, A.V.Lebedev. - M.: Kolos, 1997. - 496 p.

Additional Reading:

- Surgical methods of injury prevention: an educational and methodological manual for the disciplines "General and private surgery", "Veterinary surgery" / Yu.A. Vatnikov, V.I. Parshina, E.V. Kulikov [et al.]. - Electronic text data. - Moscow: RUDN, 2018. -26 p.
- 2. Closed mechanical injuries in animals: an educational and methodological manual on the disciplines "General and private surgery", "Veterinary surgery" / Yu.A. Vatnikov, V.I. Parshina, E.V. Kulikov [et al.]. Electronic text data. Moscow: RUDN, 2018. 23 p.
- 3. Basic methods of treatment of open mechanical injuries: an educational and methodical manual on the disciplines "General and private surgery", "Veterinary surgery" / Yu.A. Vatnikov, V.I. Parshina, E.V. Kulikov [et al.]. Electronic text data. Moscow: RUDN, 2018. 21 p.
- 4. Private veterinary surgery: Textbook for universities / K.I. Shakalov, I.A. Kalashnik, G.S. Mastyko [et al.]. 2nd ed., reprint. and additional L.: Kolos, 1981. 464 p.

Resources of the Internet information and telecommunication network:

- 1. Electronic library system of RUDN and third-party Electronic library systems to which university students have access on the basis of concluded contracts:
- Electronic library system of RUDN ELS RUDN http://lib.rudn.ru/MegaPro/Web
- ELS "University Library online" http://www.biblioclub.ru
- ELS Yurayt http://www.biblio-online.ru
- ELS "Student Consultant"www.studentlibrary.ru
- ELS "Lan" http://eZlanbook.com/
- ELS "Trinity Bridge" http://www.trmost.com/
- **2.** Databases and search engines:
- electronic fund of legal and regulatory and technical documentation http://docs.cntd.ru/
- search engine Yandex https://www.yandex.ru/

- search engine Google https://www.google.ru/
- abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

Educational and methodological materials for independent work of students during the development of the discipline/ module*:

- 1. A course of lectures on the discipline "Private veterinary Surgery".
- 2. Laboratory workshop on the discipline "Private veterinary Surgery".
- * All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the <u>Telecommunication educational and Information System!</u>

8. MID-TERM ASSESSMENT

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "**Private veterinary Surgery**" are presented in the Appendix to this Work Program of the discipline.

* - Assessment Materials and a Point Rating System are formed based on the requirements of the relevant local regulatory act of the RUDN.

DEVELOPER:

| Senior Lecturer of the Department of Veterinary | | |
|---|-----------|----------------|
| Medicine | | Troshina N.I. |
| Position, Basic curriculum | Signature | Full name. |
| | | |
| HEAD OF THE DEPARTMENT: | | |
| Department of Veterinary Medicine | | Vatnikov Yu.A. |
| Name Basic Curriculum | Signature | Full name. |
| | | |
| HEAD OF THE HIGHER EDUCATION PROC | GRAM: | |
| Director of the Department of Veterinary Medicine | | Vatnikov Yu.A. |
| Position Basic curriculum | Signature | Full name |