

CATALOG OF ELECTIVE DISCIPLINES

8D09 - Veterinary

(Code and classification of the field of education)

8D091 - Veterinary

(Code and classification of the direction of training)

0841

(Code in the International Standard Classification of Education)

D138 - Veterinary science

(Code and classification of the educational program group)

8D09101 - Veterinary medicine

(Code and name of the educational program)

Doctor of philosophy (PhD)

(Level of preparation)

set of 2023

Developed

Academic committee

Head of the AK Yesengulova N. zh.

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Reviewed

At the meeting of the commission for quality assurance of Veterinary Medicine and agromenegration

Recommended for approval by the Academic Council of the University

Protocol No. 4 " 15 " March 2023.

Chairman Of The Commission G. I. Jamanova

Approved

At a meeting of the Academic Council of the University

Protocol No. 4 dated March 16, 2023

Chairman of the Academic Council Oralkanova I. A.

Obstetrics and Gynecology diseases of cats and dogs

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

Short description of discipline

Explains the basics of physiological and pathological processes associated with obstetric and gynecological diseases of domestic animals, depending on their biological characteristics. In this regard, he studies the functions of the genitals, diseases of the mammary glands and genitals during pregnancy, childbirth and the postpartum period. As well as diseases of offspring, postembryonic development and infertility.

Purpose of studying of the discipline

In order to study the discipline, optimal schemes of obstetric care are considered in connection with the principles of reproduction of meat pets in the yard. In this regard, the theoretical principles of early observation of the sign of factor auras of animal owners and measures of preliminary preparation will be mastered.

Diagnostic, therapeutic and preventive measures for the detection of obstetric and gynecological diseases will also be mastered. Methods of detection and delivery and obstetric care will also be mastered.

Learning Outcomes

ON4 Organize research and teaching activities in the field of veterinary medicine.

To evaluate, compare and propose, based on the biological characteristics of animals, the application of scientific and theoretical methods in veterinary practice.

ON9 To understand and describe the processes of biological and physiological mechanisms of the animal in determining the effectiveness of treatment based on the principles of veterinary therapy.

Learning outcomes by discipline

In teaching the discipline, the basics of physiological and pathological processes of animals are studied, depending on their biological specificity in relation to obstetric and gynecological diseases of domestic animals.

Prerequisites

General pathology

Postrequisites

Doctoral student research work, including internship and doctoral dissertation III

Biotechnological methods of animal reproduction

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

Short description of discipline

Obtaining knowledge about the course of physiological and pathological processes associated with the growth and development of productive animals. Studies reproduction biotechnology, artificial insemination, embryo transplantation (zygotes) for the provision of special zootechnical services corresponding to the direction of the economy. Mastering the conditions for stimulating females and males in natural and artificial conditions.

Purpose of studying of the discipline

When studying the discipline, biotechnological conditions of animal reproduction are considered, corresponding to one special purpose based on the zootechnical position. In this regard, the substantiation of the theoretical principles of predicting genetic potential with veterinary and biological selection of recognition of morphofunctional features of animals will be studied. He will also learn how to analyze the opportunities that allow the use of advanced achievements, and give reasons for their implementation. He also has the ability to conduct biometric processing of experimental results.

Learning Outcomes

ON4 Organize research and teaching activities in the field of veterinary medicine.

ON8 Identify ways to solve modern problems of veterinary medicine.

ON9 To understand and describe the processes of biological and physiological mechanisms of the animal in determining the effectiveness of treatment based on the principles of veterinary therapy.

Learning outcomes by discipline

The teaching of the discipline explains the physiological and pathological processes associated with the reproduction of animals.

Prerequisites

Research methods

Postrequisites

Doctoral student research work, including internship and doctoral dissertation III

Monitoring and treatment of gynecology diseases

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

Short description of discipline

The discipline teaches models for monitoring obstetric and gynecological diseases based on physiological capabilities and related biological patterns in animal insemination. Masters the biotechnics of modern methods of therapy of obstetric and gynecological diseases and the detection of infertility with the restoration of the function of the reproductive organ in conditions of artificial insemination, the use of biologically active and hormonal drugs.

Purpose of studying of the discipline

In teaching the discipline, they teach measures for the prevention and control of diseases that arise and are predicted due to the application of general strategic principles for obtaining offspring from a modern point of view, corresponding to technological and traditional practical goals of the economy based on the physiological capabilities of the animal organism, depending on their biological characteristics. At the same time, veterinary obstetrics teaches to apply the advantages of modern gynecological methods.

Learning Outcomes

ON8 Identify ways to solve modern problems of veterinary medicine.

ON9 To understand and describe the processes of biological and physiological mechanisms of the animal in determining the effectiveness of treatment based on the principles of veterinary therapy.

ON10 To make a consistent conclusion, in accordance with the classification of clinical and morpho-biochemical parameters of the animal's organism, taking into account its genotype and homostatic deviation in the etiopathogenetic process.

Learning outcomes by discipline

Mastering the scientific, theoretical and practical qualifications concerning the main objectives in teaching the discipline allows you to fully understand the biological processes associated with the physiological state of animals. In this regard, veterinary-medical obstetrics teaches to introduce the advantages of modern gynecological methods.

Prerequisites

Research methods

Postrequisites

Doctoral student research work, including internship and doctoral dissertation III

Monitoring and treatment of parasitic diseases

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

Short description of discipline

The discipline teaches to formulate the rationality of treatment in connection with the situation of parasitic epizootics. Based on the study of the nosological profile teaches to give a comparative justification of the rehabilitation effectiveness of the drug and optimizes training based on the influence of therapeutic and preventive measures on the physiological state and natural resistance of the animal.

Purpose of studying of the discipline

The main purpose of the discipline is to develop a plan for veterinary measures to control parasitic diseases based on the geographical location of the farm and territory. It also teaches to study the general principles of theoretical and practical justification of the periodic specifics of disease control measures.

Learning Outcomes

ON6 To study pathological processes in particularly dangerous animal diseases.

ON7 Introduction of a statistical sequence of veterinary and medical knowledge on a digital and technological basis into an automatic system.

ON9 To understand and describe the processes of biological and physiological mechanisms of the animal in determining the effectiveness of treatment based on the principles of veterinary therapy.

Learning outcomes by discipline

The teaching of the discipline examines the study of particularly dangerous helminths, prone to symbiotic survival, related to viscous life.

Prerequisites

General pathology

Postrequisites

Teaching practicum

Especially dangerous helminthiasis

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

Short description of discipline

On a parasitological basis, from the point of view of complex biological science, the study of especially dangerous helminths prone to symbiotic survival in relation to parasitic life is considered. In this connection, the theoretical principles of "parasite-the main host – the external environment", the possibility of survival in the body from the immunosuppressive effect on the stimulation of the immune response in the formation of immune complexes due to tissue helminths are explained.

Purpose of studying of the discipline

In order to study the discipline on the basis of parasitological science, the scientific and practical problems of the cycles of the biological existence of helminths that pose the greatest danger to human and animal health and consequences for the environment are considered. In this regard, it develops biological and veterinary measures to prevent the spread of dangerous helminths on the basis of control measures in accordance with the life cycles of dangerous helminths. Migration and biocenotic relations will also be studied, and the preparation of a plan for a common struggle will be mastered.

Learning Outcomes

ON4 Organize research and teaching activities in the field of veterinary medicine.

ON8 Identify ways to solve modern problems of veterinary medicine.

ON9 To understand and describe the processes of biological and physiological mechanisms of the animal in determining the effectiveness of treatment based on the principles of veterinary therapy.

Learning outcomes by discipline

The teaching of the discipline examines the study of particularly dangerous helminths, prone to symbiotic survival, related to viscous life.

Prerequisites

Research methods

Postrequisites

Doctoral student research work, including internship and doctoral dissertation III

Especially dangerous protozoa

Discipline cycle	Profiling discipline
Course	1
Credits count	5
Knowledge control form	Examination

Short description of discipline

The teaching of the discipline deals with particularly dangerous diseases caused by protozoa related to eukaryotes, prone to parasitic life. In this regard, four types of protozoa are trained, which can exist in the human and animal bodies. The conditions of the spread of the simplest diseases will be analyzed: climatic, socio-economic, endemic and "cosmopolitan".

Purpose of studying of the discipline

In the training of especially dangerous protozoal auras in animals, the rules of veterinary measures are theoretically mastered in accordance with pathogenic processes in infections, invasions and non-infectious factors that cause various etiological conditions. In this regard, the development of methods of early clinical and laboratory detection of protozoan diseases and the principles of differentiated treatment, ethotropic therapy and modern etiological classification. He also has the ability to justify physical, chemical and biological influencing factors in modern devastational positions.

Learning Outcomes

ON3 Formulate and compare theoretical methods in determining the tasks of research work based on the requirements of veterinary science.

ON6 To study pathological processes in particularly dangerous animal diseases.

ON8 Identify ways to solve modern problems of veterinary medicine.

Learning outcomes by discipline

The teaching of the discipline deals with particularly dangerous protozoan diseases caused by protozoa belonging to eukaryotes predisposed to parasitic life.

Prerequisites

Research methods

Postrequisites

Doctoral student research work, including internship and doctoral dissertation III