Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Ястребов Олег Рецетар State Autonomous Educational Institution of Higher Education "Peoples"

Должность: Ректор Eriendship University of Russia named after Patrice Lumumba"

Дата подписания: 14.07.2025 11

Уникальный программный ключ:

Agrarian and Technological Institute

ca953a0120d891083f939673078ef1a98@name of the main educational unit (MEU) – developer of the program)

Department of Veterinary Medicine

(name of the basic educational unit (BEU) – developer of the program)

WORKING PROGRAM OF THE DISCIPLINE

Animal pathology, morphology, physiology, pharmacology and toxicology

(name of discipline/module)

Scientific specialty:

4.2.1. Animal pathology, morphology, physiology, pharmacology and toxicology

(code and name of scientific specialty)

The discipline is mastered within the framework of the postgraduate program:

Animal pathology, morphology, physiology, pharmacology and toxicology

(name of the program for training scientific and scientific-pedagogical personnel)

1. THE GOAL OF MASTERING THE DISCIPLINE

The purpose of mastering the discipline "Animal pathology, morphology, physiology, pharmacology and toxicology" is to prepare for the candidate exam in specialty 4.2.1. Animal pathology, morphology, physiology, pharmacology and toxicology.

2. REQUIREMENTS TO THE RESULTS OF MASTERING THE DISCIPLINE

As a result of mastering the discipline "Animal pathology, morphology, physiology, pharmacology and toxicology", the postgraduate student must:

Know:

general pathological anatomy;

morphological manifestations of metabolic disorders in tissues;

disorders of blood and lymph circulation and tissue fluid exchange;

adaptive, compensatory (restorative) and tumor processes;

private (special pathological) anatomy;

morphogenesis, pathomorphology and pathomorphological diagnostics of infectious and non-infectious diseases.

Be able to:

correctly collect, record and send pathological material for laboratory testing;

apply basic methods of pathohistological techniques and diagnostics of animal diseases;

carry out comprehensive differential pathomorphological diagnostics of animal diseases during autopsies, as well as during pathohistological studies.

Own:

specific theoretical knowledge in the discipline;

modern methods and techniques for studying the structural organization of biological objects at all its levels;

technique of pathological anatomical dissection of corpses of animals of various species; modern information and innovative technologies.

3. SCOPE OF THE DISCIPLINE AND TYPES OF STUDY WORK

The total workload of the discipline "Animal pathology, morphology, physiology, pharmacology and toxicology" is 4 credit units (144 academic hours).

Type of academic way	alz	Total,	Semester
Type of academic work		ac.h.	2
Contact work		60	60
including:			
Lectures (LC)		30	30
Laboratory work (LW)		-	-
Practical/seminar classes (SZ)	inar classes (SZ)		30
Independent work of students		48	48
Control (exam)		36	36
General complexity of the discipline	ak . h.	144	144
	. unit	4	4

4. CONTENT OF THE DISCIPLINE

Name of the discipline section	Section Contents (Topics)	Type of academic work
Section 1. General	Topic 1.1. Thanatology	LK, SZ
pathology	Topic 1.2. Pathohistotechnics	LK, SZ
	Topic 1.3. Alteration	LK, SZ
	Topic 1.4. Blood and lymph circulation disorders	LK, SZ
	Topic 1.5. Inflammation. Immunomorphology,	LK, SZ
	immunopathology	

	Topic 1.6. Adaptive and compensatory reactions.	LK, SZ
	Tumor growth	
Section 2. Private	Topic 2.1. Blood pathophysiology. Cardiovascular	LK, SZ
pathology	pathophysiology	
	Topic 2.2. Pathophysiology of the respiratory system.	LK, SZ
	Topic 2.3. Pathophysiology of the excretory system	LK, SZ
	(kidneys).	
	Topic 2.4. Pathophysiology of digestion.	LZ, SZ
	Pathophysiology of the liver, pancreas	
	Topic 2.5. Pathophysiology of the endocrine system.	LZ, SZ
	Topic 2.6. Pathophysiology of the immune system.	LZ, SZ
	Topic 2.7. Pathophysiology of the nervous system	LZ, SZ

5. LOGISTIC AND TECHNICAL SUPPORT OF DISCIPLINE

Audience type	Equipping the auditorium	Specialized educational/laboratory equipment, software and materials
Lecture	An auditorium for conducting lecture-type	No
	classes, equipped with a set of specialized	
	furniture; a board (screen) and technical means	
	for multimedia presentations.	
Seminar	An auditorium for conducting seminar-type	No
	classes, group and individual consultations,	
	ongoing monitoring and midterm assessment,	
	equipped with a set of specialized furniture and	
	technical means for multimedia presentations	
For independent	A classroom for independent work of students	No
work of students	(can be used for conducting seminars and	
	consultations), equipped with a set of	
	specialized furniture and computers with	
	access to the EIS	

6. EDUCATIONAL, METHODOLOGICAL AND INFORMATIONAL SUPPORT OF THE DISCIPLINE

Main literature:

Zharov A.V., Shishkov V.P., Zhakov M.S., et al. Pathological anatomy of farm animals / Edited by V.P. Shishkov and A.V. Zharov: Textbook for universities. - M.: Kolos, 2013.- 536 p. URL: http://lib.rudn.ru/ProtectedView/Book/ViewBook/5665

Zharov, A. V. Pathological physiology and pathological anatomy of animals: Textbook / A. V. Zharov [et al.]; Ed. A. V. Zharov. - 2nd ed. revised and add. - St. Petersburg: Lan, 2014. - 416 p. URL: http://lib.rudn.ru/ProtectedView/Book/ViewBook/5666

Further reading:

Andreeva M.V., Nyukkanov A.N. Forensic veterinary and sanitary examination: author's abstract . diss doctor, associate professor, candidate of veterinary sciences - Yakutsk, 2014.

Litvitsky P.F. Pathological anatomy and pathological physiology. - M.: GEOTAR-Media, 2015. - 496 p.

Vakhrusheva T. I. General pathological anatomy. - M.: Lambert, 2015. - 364 p. https://e.lanbook.com/book/45681

Klevno V. A. Forensic medical examination. - M.: GEOTAR-Media, 2013. - 136 p.

Salimov V. A. Practical training in pathological anatomy of animals [Electronic resource]: Textbook / V. A. Salimov. - 2nd ed., revised . and additional. - St. Petersburg : Publishing house

"Lan", 2013. - 352 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-1418-5. URL: http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn FindDoc&id=465234&idb=0

Kozlov I.G., Krivenko D.V. Pathological anatomy and forensic veterinary examination - Saratov: FGBOU VO Saratov SAU., 2020. - 129 p.

Resources of the information and telecommunications network "Internet":

RUDN University Electronic Library System and third-party electronic library systems to which university students have access on the basis of concluded agreements:

- Electronic library system of RUDN: [site]. URL: http://lib.rudn.ru/MegaPro/Web
- Electronic library system "University Library Online": [website]. URL: http://www.biblioclub.ru/
- Educational platform " Urait " : [website] . URL : https://urait.ru/
- Electronic Library System "Lan": [site]. URL: https://e.lanbook.com/
- Educational platform " Urait " : [website] . URL : https://urait.ru/
 Databases and search engines:
- Electronic fund of legal and normative-technical information: [site]. URL: https://docs.cntd.ru/
- Search engine "Yandex": [site]. URL: https://yandex.ru/
- Search engine « Google »: [site]. URL : https://www.google.com/

Educational and methodological materials for independent work of students in mastering a discipline/module:

A course of lectures on the subject "Animal pathology, morphology, physiology, pharmacology and toxicology".

7. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF DEVELOPMENT OF COMPETENCES IN THE DISCIPLINE

Assessment materials and the point -rating system for assessing the mastery of the discipline are presented in the appendix to this work program of the discipline.

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DEVELOPERS:

Associate Professor of the Department of Veterinary Medicine

E. V. Kulikov

HEAD OF THE BUP

Director of the Department of Veterinary Medicine

Yu. A. Vatnikov