Документ подписан простой электронной подписью

Информация о владельце:

ФИО: Ястребов Олег Алетейетаї State Autonomous Educational Institution of Higher Education Должность: Ректор

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educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Veterinary pharmacology

course title

Recommended by the Didactic Council for the Education Field of:

36.05.01 Veterinary

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

Veterinary

higher education programme profile/specialisation title

1. GOALS AND OBJECTIVES OF THE COURSE

The aim of the mastering the course "**Veterinary pharmacology**" is to provide students with the necessary knowledge about the properties, action and use of medicinal substances for therapeutic and prophylactic purposes, as well as for the stimulation and pharmacological regulation of physiological processes in the body of animals.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Veterinary pharmacology**" 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 course (results of the development of the discipline)

Competence	Competence descriptor	Indicators of competence			
code		accomplishment			
		(within the discipline)			
	Ability to choose or develop a	PC-7.1 Is able to select medications			
	treatment plan for a patient	necessary to treat animals based on the			
	based on the diagnosis	principles of evidence-based medicine,			
		taking into account the combined			
		pharmacological effects of all			
PC-7		prescribed medications on the body.			
		PC-7.2 Able to choose the optimal			
		method of drug administration,			
		calculate the dose and frequency of			
		administration, and the duration of each			
		drug course			

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Veterinary pharmacology** " 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 course "Veterinary pharmacology".

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

Competence		Previous	Subsequent
_ - _	Competence descriptor	courses/modules,	courses/modules,
code		internships*	internships*

	Ability to choose or	Toxicology
	develop a treatment plan	Dermatology
	for a patient based on the	Cardiology
	diagnosis	Endocrinology
		Nephrology
		Clinical internship
		Industrial practice
PC-7		Academic research
		practice with the
		preparation of a
		scientific qualification
		project
		Preparation for and
		passing the state exam

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "Veterinary pharmacology" is 8 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		Seme	esters	
			5	6	-	-
Contact academic hours		136	68	68	-	-
including						
Lectures		34	17	17	-	-
Lab work		102	51	51	-	-
Seminars (workshops/tutorials)		-	-	_	-	-
Self-study		104	82	22	-	-
Evaluation and assessment (exa	Evaluation and assessment (exam/pass/fail		30	18	-	-
grading)						
Academic		288	180	108	-	-
Course workload hour						
Course workload	Credit	8	5	3	-	-
unit						

5. COURSE CONTENTS

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

Modules	Content of the modules (topics)	Types of
		academic
		activities

Module 1. General pharmacology. General	Topic 1.1. General pharmacology.	Lectures, Lab work
recipe.	Topic 1.2. General recipe.	Lectures, Lab work
Module 2. Funds acting on the nervous system.	Topic 2.1. Remedies acting on afferent and efferent innervation.	Lectures, Lab work
	Topic 2.2. Substances acting on the central nervous system.	Lectures, Lab work
Module 3. Substances that regulate the functions of	Topic 3.1. Substances affecting respiratory and digestive function.	Lectures, Lab work
individual organs and systems.	Topic 3.2. Substances affecting the excretory function of the kidneys, cardiovascular system, hemostasis, hematopoiesis.	Lectures, Lab work
Module 4. Substances that primarily affect metabolic	Topic 4.1. Hormones and their analogues.	Lectures, Lab work
processes.	Topic 4.2. Vitamins and enzymes.	Lectures, Lab work
	Topic 4.3. Mineral substances.	Lectures, Lab work
Module 5. Means, correcting the immune	Topic 5.1. Remedies affecting immune processes.	Lectures, Lab work
status and productivity of animals.	Topic 5.2. Means correcting the immune status and productivity of animals.	Lectures, Lab work
Module 6. Antimicrobial, antiparasitic, antitumor	Topic 6.1. Disinfectants and antiseptics.	Lectures, Lab work
agents.	Topic 6.2. Chemotherapeutic agents.	Lectures, Lab work
	Topic 6.3. Rodenticides.	Lectures, Lab work

6. COURSE EQUIPMENT 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 course (if necessary)
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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.	_
Self-studies	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.	-

7. RESOURCES RECOMMENDED FOR COURSE STUDIES

Main readings:

- 1. Circulation and quality control of medicines for veterinary use in the Russian Federation: tutorial / A. Vatnikov, MI Shopinskaya, SG Drukovsky, EV Kulikov. Electronic text data. Moscow: PFUR, 2021. 37 c.: http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=494768&idb=0
- 2. V., Kuznetsov S. V., Sakhno NV, Kapustin R. F. Veterinary pharmacology. Dictionary-Reference Book: a textbook for universities 2020.-136s https://e.lanbook.com/book/152613.
- 3. Lavrinenkova A.N. Course of lectures on veterinary pharmacology 2018.-104s https://e.lanbook.com/book/133070

Additional Readings:

- 1. Sokolov V.D. Pharmacology St. Petersburg: Lan' Publisher, 2013. 576c. https://e.lanbook.com/book/10255
- 2. Samorodova I. M. Veterinary pharmacology and formulation. Workshop: textbook for universities / IM Samorodova, MI Rabinovich. 7th ed. amended and supplemented M.: Publishing house Yurite, 2018. 278 c.
- 3. Nabiev FG, Akhmadeev RN Modern veterinary medicines St. Petersburg: Lan' Publisher, 2011. 816c. https://e.lanbook.com/book/1547
- 4. Pharmacology / Kharkevich DA, 10th ed. revised, revised and additional ed. M.: GEOTAR-MED, 2010. 752 c.
- 5. Donald K. Plumb Pharmacological preparations in veterinary medicine. Moscow: Aquarium-Print, 2016. 1060 c.
- 6. Fundamentals of pharmacology with prescription. Textbook / Astafiev V.A., Edited by Astafiev V.A. Moscow: Knorus, 2015. 595 c.

Internet sources

- 1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:
- RUDN Electronic Library System (RUDN ELS) http://lib.rudn.ru/MegaPro/Web
 - EL "University Library Online" http://www.biblioclub.ru
 - EL "Yurayt" http://www.biblio-online.ru
 - EL "Student Consultant" www.studentlibrary.ru
 - EL "Lan" http://e.lanbook.com/
 - EL "Trinity Bridge"
 - 2. Databases and search engines:
- electronic foundation of legal and normative-technical documentation http://docs.cntd.ru/
 - Yandex search engine https://www.yandex.ru/
 - Google search engine https://www.google.ru/
 - Scopus abstract database 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 course "Veterinary pharmacology".
- 2. Laboratory workshop on the course "Veterinary pharmacology".
- * The training toolkit and guidelines for the internship are placed on the internship page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL AS COURSE RESULTS

The assessment toolkit and the grading system* to evaluate the level of competences (competences in part) formation as the course results are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVEL	OPERS:
175, 95, 1.	UPERS:

Name Basic Curriculum

Associate Professor, Department of Veterinary Medicine Должность, БУП	Подпись	Kharlitskaya E.V.
HEAD OF EDUCATIONAL DEPARTMENT:		
Department of Veterinary Medicine		Vatnikov Vu A

Signature

HEAD OF HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine
Position, Basic curriculum Vatnikov Yu.A.

Signature