

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ястребов Олег Александрович
Должность: Ректор
Дата подписания: 27.05.2026 16:12:57
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
RUDN University**

Agrarian and Technological Institute

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. COURSE GOAL(s)

The goal of 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

Mastering the course (module) «**Veterinary Pharmacology**» is aimed at the development of the following competences /competences in part:

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-7	Ability to select or develop a treatment plan for a patient based on the established diagnosis.	PC-7.1. Selects necessary veterinary medicinal products according to evidence-based medicine principles and pharmacological effects.
		PC-7.2. Determines optimal route of administration, dosage, frequency and duration of treatment.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PC-7	Ability to select or develop a treatment plan for a patient based on the established diagnosis.	-	Dermatology Cardiology Endocrinology Oncology Neurology Nephrology Anesthesiology, Resuscitation And Intensive Therapy Behavioral Medicine

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 8 credits (288 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)

Type of academic activities	Total academic hours	Semesters/training modules				
		5	6	-	-	
Contact academic hours	136	68	68	-	-	
including:						
Lectures (LC)	34	17	17	-	-	
Lab work (LW)	102	51	51	-	-	
Seminars (workshops/tutorials) (S)	-	-	-	-	-	
Self-studies	116	94	22	-	-	
Evaluation and assessment (exam/passing/failing grade)	36	18	18	-	-	
Course workload	academic hours	288	180	108	-	-
	credits	8	5	3	-	-

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. General pharmacology. General recipe.	Topic 1.1. General pharmacology.	Lectures, Lab work
	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 individual organs and systems.	Topic 3.1. Substances affecting respiratory and digestive function.	Lectures, Lab work
	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 processes.	Topic 4.1. Hormones and their analogues.	Lectures, Lab work
	Topic 4.2. Vitamins and enzymes.	Lectures, Lab work
	Topic 4.3. Mineral substances.	Lectures, Lab work
Module 5. Means, correcting the immune status and productivity of animals.	Topic 5.1. Remedies affecting immune processes.	Lectures, Lab work
	Topic 5.2. Means correcting the immune status and productivity of animals.	Lectures, Lab work
Module 6. Antimicrobial, antiparasitic, antitumor agents.	Topic 6.1. Disinfectants and antiseptics.	Lectures, Lab work
	Topic 6.2. Chemotherapeutic agents.	Lectures, Lab work
	Topic 6.3. Rodenticides.	Lectures, Lab work

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	
Self-studies	A classroom for independent work of students (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

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.elsevier.com/locate/scopus/>

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course «**Veterinary pharmacology**»
2. The laboratory workshop (if any) on the course «**Veterinary pharmacology**»

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

DEVELOPERS:

Associate Professor, Department of Veterinary
Medicine

Должность, БУП

Kharlitskaya E.V.

Фамилия И.О.

Подпись

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Vatnikov Yu.A.

Full name.

Signature

HEAD OF HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Vatnikov Yu.A.

Full name

Signature