

Документ подписан простой электронной подписью
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**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

Pathological Anatomy

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 «**Pathological Anatomy**» is to form students' knowledge of the organizational, scientific and methodological foundations of recognizing the causes and pathogenesis of pathological processes and diseases, allowing to establish the sequence of development of structural changes in the body and special knowledge for forensic examinations.

2. REQUIREMENTS FOR LEARNING OUTCOMES

1) Mastering the course (module) «**Pathological anatomy**» 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-6	Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	PC-6.1. Possesses knowledge of manifestations of infectious, parasitic, internal non-infectious, surgical, gynecological and other animal diseases.
PC-14	Readiness to promote veterinary knowledge, including prevention of animal diseases.	PC-14.1. Analyzes problems affecting animal health and welfare and defines educational goals.
		PC-14.2. Uses computer and telecommunication technologies for educational materials.
		PC-14.3. Conducts lectures, seminars and educational discussions.

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-6	Ability to establish a diagnosis and prognosis of disease development and spread based on clinical, laboratory and instrumental diagnostic data.	-	Obstetrics, Gynecology and Andrology Internal Diseases General Surgery Private Surgery Parasitology and Invasive Diseases Epidemiology and Infectious Diseases

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
PC-14	Readiness to promote veterinary knowledge, including prevention of animal diseases.	-	Zoopsychology

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is «**Pathological anatomy**» 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	-	-	
<i>Contact academic hours</i>	136	68	68	-	-	
including:						
Lectures (LC)	34	17	17	-	-	
Lab work (LW)	102	51	51	-	-	
Seminars (workshops/tutorials) (S)	-	-	-	-	-	
<i>Self-studies</i>	107	85	22	-	-	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	45	27	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 pathological anatomy	Topic 1.1. Thanatology.	Lectures, Lab work.
	Topic 1.2. Pathohisto technique.	Lectures, Lab work.
	Topic 1.3. Alterations.	Lectures, Lab work.
	Topic 1.4. Disorders of blood and lymph circulation.	Lectures, Lab work.
	Topic 1.5. Inflammation Immunomorphology, immunopathology.	Lectures, Lab work.
	Topic 1.6. Adaptive and compensatory reactions.	Lectures, Lab work.
Module 2. Private pathological anatomy	Topic 2.1. Infectious pathology. Pathomorphology of bacterial infections.	Lectures, Lab work.
	Topic 2.2. Pathomorphology of viral infections.	Lectures, Lab work.

	Topic 2.3. Pathomorphology of fungal diseases.	Lectures, work.	Lab
	Topic 2.4. Pathomorphology of invasive diseases.	Lectures, work.	Lab
	Topic 2.5. Adaptive and compensatory reactions of tumor growth.	Lectures, work.	Lab
	Topic 2.6. Pathomorphology of infectious diseases.	Lectures, work.	Lab

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. Pathological physiology and pathological anatomy of animals : textbook / A.V. Zharov, L.N. Adamushkina, T.V. Loseva, A.P. Strelnikov ; Edited by A.V. Zharov. - 4th ed., revised. - St. Petersburg : Publishing House "Lan", 2018. - 416 p.
2. Pathological anatomy of animals : textbook / A.V. Zharov. - 2nd ed., reprint. and additional - St. Petersburg : Publishing house "Lan", 2013. - 608 p.

Additional readings:

1. Anatomical and physiological features of pigs and pathoanatomic autopsy of their corpses: textbook / G.V. Lukashik, V.G. Sokolov, N.V. Saenko. - St. Petersburg : Publishing House "Lan", 2016. - 100 p.
2. Workshop on pathological anatomy of animals: textbook / V. A. Salimov. - 2nd ed., reprint. and additional - St. Petersburg : Publishing house "Lan", 2013. - 352 p.

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 «**Pathological anatomy**»
2. The laboratory workshop (if any) on the course «**Pathological anatomy**»

* 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.

DEVELOPER:

Associate Professor of the Department of Veterinary
Medicine

Position, Basic curriculum

Signature

Kulikov E. V.

Full name.

D OF EDUCATIONAL DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Vatnikov Yu.A.

Full name.

HEAD OF

HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

Full name