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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**

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

**COURSE SYLLABUS**

**Equine Diseases**

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course title

**Recommended by the Didactic Council for the Education Field of:**

**36.05.01 Veterinary**

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field of studies / speciality code and title

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

**Veterinary**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course «**Equine Diseases**» is to provide students with theoretical and practical knowledge on general prevention and therapy, therapeutic techniques, etiology, pathogenesis, symptoms, diagnosis and treatment of diseases to which horses are susceptible.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Equine Diseases**» 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-1	Ability to collect the life and medical history of an animal for further diagnosis and planning of therapeutic and preventive measures.	PC-1.1 Collects information on the animal's life history, including scheduled vaccinations, deworming and other preventive treatments.
		PC-1.2 Collects information on previous diseases, surgical interventions, existing chronic diseases and ongoing therapy.
		PC-1.3 Collects information on changes in the animal's condition during the course of disease, diagnostic and therapeutic procedures performed, medications used and physiotherapy methods.
PC-2	Ability to perform a complete primary clinical examination of an animal to establish a preliminary clinical diagnosis and repeated examinations to monitor the patient's condition.	PC-2.1 Complies with the techniques and procedures of clinical examination taking into account the animal species and its condition.
		PC-2.2 Identifies signs (symptoms) of deviations from normal function and recognizes standard combinations of signs (syndromes).
		PC-2.3 Records examination results in the patient's medical record or other medical documentation.
PC-10	Ability to analyze and adjust animal feeding to improve treatment effectiveness and prescribe therapeutic diets.	PC-10.1 Analyzes the animal's diet to identify factors contributing to disease development.
		PC-10.2 Justifies the use of therapeutic feeding for different diseases.
		PC-10.3 Recommends composition of therapeutic diets and nutrient balance.
		PC-10.4 Uses specialized software and databases for diet formulation.

## 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-1	Ability to collect the life and medical history of an animal for further diagnosis and planning of therapeutic and preventive measures.	Clinical Diagnostics Fish Pathology and Aquaculture	Diseases of Farm Animals Small Animal Diseases Bee Diseases and Entomophages Exotic Animal Diseases
PC-2	Ability to perform a complete primary clinical examination of an animal to establish a preliminary clinical diagnosis and repeated examinations to monitor the patient's condition.	Clinical Diagnostics Fish Pathology and Aquaculture	Diseases of Farm Animals Small Animal Diseases Bee Diseases and Entomophages Exotic Animal Diseases
PC-10	Ability to analyze and adjust animal feeding to improve treatment effectiveness and prescribe therapeutic diets.	Medicinal and Poisonous Plants Fodder Plants Fish Pathology and Aquaculture	Diseases of Farm Animals Small Animal Diseases Bee Diseases and Entomophages Exotic Animal Diseases

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 2 credits (72 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				
		9	-	-	-	
Contact academic hours	34	34	-	-	-	
including:						
Lectures (LC)	17	17	-	-	-	
Lab work (LW)	17	17	-	-	-	
Seminars (workshops/tutorials) (S)	-	-	-	-	-	
Self-studies	26	26	-	-	-	
Evaluation and assessment (exam/passing/failing grade)	12	12	-	-	-	
Course workload	academic hours	72	72	-	-	-
	credits	2	2	-	-	-

#### 5. COURSE CONTENTS

*Table 5.1. Course contents and academic activities types*

<b>Course module title</b>	<b>Course module contents (topics)</b>	<b>Academic activities types</b>
Module 1. Introduction. Morphofunctional features of ungulates	Topic 1.1. Introduction to equestrian veterinary medicine.	Lectures, Lab work.
	Topic 1.2 Fundamentals of anatomy and physiology of horses	Lectures, Lab work.
Module 2. Pathological processes of the gastrointestinal tract	Topic 2.1. Pathology of the oral cavity.	Lectures, Lab work.
	Topic 2.2. Diseases of the stomach and intestines.	Lectures, Lab work.
	Topic 2.3 The essence of colic syndrome	Lectures, Lab work.
Module 3. Pathology of the musculoskeletal system.	Topic 3.1. Bursitis	Lectures, Lab work.
	Topic 3.2. Arthritis	Lectures, Lab work.
	Topic 3.3. Tendovaginitis.	Lectures, Lab work.
	Topic 3.4. Laminates	Lectures, Lab work.
Module 4. Diseases of the maxillofacial and respiratory organs	Topic 4.1. Maxillofacial pathology.	Lectures, Lab work.
	Topic 4.2. Diseases of the nasal sinuses and teeth.	Lectures, Lab work.
	Topic 4.3. Ophthalmology.	Lectures, Lab work.
	Topic 4.4. Pathology of the respiratory apparatus	Lectures, Lab work.
Module 5. Diagnostic measures for various pathology of horses	Topic 5.1. Additional and special research methods.	Lectures, Lab work.
	Topic 5.2. Documentation for animal management. Medical history.	Lectures, Lab work.

## **6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS**

*Table 6.1. Classroom equipment and technology support requirements*

<b>Type of academic activities</b>	<b>Classroom equipment</b>	<b>Specialised educational / laboratory equipment, software, and materials for course study (if necessary)</b>
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.	

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
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. Clinical orthopedics and horse forging: a textbook / E.I. Veremey, V.M. Rukol, V.A. Zhurba [et al.]; edited by E.I. Veremey. - Electronic text data. - St. Petersburg : Quadro, 2020. - 268 p.
2. Horses. Biological foundations. Using. Vices. Diseases : textbook / A.A. Stekolnikov, G.G. Shcherbakov, A.V. Yashin [et al.]. - St. Petersburg : Publishing House "Lan", 2016. - 576 p.

### *Additional readings:*

1. Horses. Biological foundations. Using. Vices. Diseases : textbook / A.A. Stekolnikov, G.G. Shcherbakov, A.V. Yashin [et al.]. - St. Petersburg : Publishing House "Lan", 2016. - 576 p.
2. Maintenance, feeding and diseases of horses: a textbook / A.A. Stekolnikov, A.F. Kuznetsov, A.V. Vil [et al.] ; Edited by A.A. Stekolnikov. - St. Petersburg : Publishing House "Lan", 2007. - 624 p.
3. Horse breeding: hygiene of keeping, reproduction and feeding of horses : a textbook / A.F. Kuznetsov, V.G. Tyurin, V.G. Semenov [et al.] ; edited by A.F. Kuznetsov. - Electronic text data. - St. Petersburg : Quadro, 2018. - 448 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](http://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/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

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

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

\* 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

Rogov R.V.

Full name.

**HEAD 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