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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**

**Diseases of Farm Animals**

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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 «**Diseases of Farm Animals**» is to development by students of theoretical, methodological and practical knowledge that forms the modern chemical basis for the development of core academic disciplines and the implementation of the main professional tasks: prevention and treatment of animal diseases, increasing the production of high-quality products and raw materials of animal origin, environmental protection from pollution, etc.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Diseases of Farm Animals**» 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*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Previous courses/modules*</b>	<b>Subsequent courses/modules*</b>
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 Equine Diseases	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 Equine Diseases	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 Equine Diseases	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**)*

<b>Type of academic activities</b>	<b>Total academic hours</b>	<b>Semesters/training modules</b>				
		<b>9</b>	<b>-</b>	<b>-</b>	<b>-</b>	
<i>Contact academic hours</i>	34	34	-	-	-	
including:						
Lectures (LC)	17	17	-	-	-	
Lab work (LW)	17	17	-	-	-	
Seminars (workshops/tutorials) (S)	-	-	-	-	-	
<i>Self-studies</i>	26	26	-	-	-	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	12	12	-	-	-	
<b>Course workload</b>	academic hours	<b>72</b>	<b>72</b>	-	-	-
	credits	<b>2</b>	<b>2</b>	-	-	-

## 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. Differential diagnosis of diseases of productive animals.	Topic 1.1. Methods of working with animal owners.	Lectures, Lab work.
	Topic 1.2. Algorithm of differential diagnosis in various diseases.	Lectures, Lab work.
	Topic 1.3. Urgent conditions and planned diagnostics.	Lectures, Lab work.
	Topic 1.4. Medical examination.	Lectures, Lab work.
Module 2. Diseases of the gastrointestinal tract.	Topic 2.1. Methods of diagnosis of chronic and urgent gastrointestinal pathologies.	Lectures, Lab work.
	Topic 2.2. Palpation, percussion and auscultation of abdominal organs.	Lectures, Lab work.
	Topic 2.3. Radiography and ultrasound examination of the abdominal cavity.	Lectures, Lab work.
	Topic 2.4. Operative and conservative treatment of patients.	Lectures, Lab work.
	Topic 2.5. Rehabilitation.	Lectures, Lab work.
Module 3. Investigation of pathologies and development of a therapeutic diet.	Topic 3.1 Methods of investigation of the patient in the pathology of the digestive glands. The coprogram.	Lectures, Lab work.
	Topic 3.2. Development of therapeutic diets.	Lectures, Lab work.
Module 4. Diseases of the urinary tract.	Topic 4.1. Algorithm of differential diagnosis of diseases of the urinary system.	Lectures, Lab work.
	Topic 4.2. Nephritis, nephrosis, nephrosclerosis, pyelonephritis.	Lectures, Lab work.
	Topic 4.3. Diseases of the urinary tract: pyelitis, urocystitis, urolithiasis.	Lectures, Lab work.
	Topic 4.4. Hematuria. Urine examination, ultrasound and X-ray diagnostics. Cystocentesis.	Lectures, Lab work.
Module 5. Pathology of the reproductive system	Topic 5.1. Differential diagnosis of diseases of the genitals.	Lectures, Lab work.
	Topic 5.2. Ultrasound and X-ray diagnostics of diseases of the genital organs.	Lectures, Lab work.
	Topic 5.3. Operative and conservative treatment.	Lectures, Lab work.
	Topic 5.4. Endometritis. The pyometer. Vulvovaginitis.	Lectures, Lab work.
	Topic 5.5. Ovarian cysts.	Lectures, Lab work.
	Topic 5.6. Prostatitis. Neoplasms of the prostate.	Lectures, Lab work.
Module 6. Pathology of the respiratory tract.	Topic 6.1. Examination of the respiratory system.	Lectures, Lab work.

	Topic 6.2. Auscultation of the respiratory tract.	Lectures, work.	Lab
	Topic 6.3. Chest X-ray.	Lectures, work.	Lab
	Topic 6.4. Thoracocentesis.	Lectures, work.	Lab
Module 7. Pathology of the cardiovascular system.	Topic 7.1. Diseases of the cardiovascular system.	Lectures, work.	Lab
	Topic 7.2. Classification, syndromes.	Lectures, work.	Lab
	Topic 7.3. Diseases of the heart muscle.	Lectures, work.	Lab
	Topic 7.4. Endocardial diseases.	Lectures, work.	Lab
	Topic 7.5. Heart defects.	Lectures, work.	Lab
	Topic 7.6. Vascular diseases.	Lectures, work.	Lab
Module 8. Infectious diseases of productive animals.	Topic 8.1. Methods of diagnosis and prevention.	Lectures, work.	Lab
	Topic 8.2. Working out the method of admission of a patient with suspected infectious pathology.	Lectures, work.	Lab
	Topic 8.3. Algorithm of differential diagnostics.	Lectures, work.	Lab
	Topic 8.4. Etiotropic therapy.	Lectures, work.	Lab
	Topic 8.5. Symptomatic treatment.	Lectures, work.	Lab
Module 9. Endocrinological pathology. Diagnostic methods and correction.	Topic 9.1. Algorithm of differential diagnosis of endocrinological pathology.	Lectures, work.	Lab
	Topic 9.2. Trichoscopy, analysis of the results of scotch tests and scrapings.	Lectures, work.	Lab
	Topic 9.3. Blood and urine testing.	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	

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	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. Zhukov V.M. Organopathology of light productive animals : textbook / V.M. Zhukov, O.S. Mishina, N.M. Semenikhina. - 2nd ed., ispr. and add. - St. Petersburg : Publishing House "Lan", 2021. - 92 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2496-2.  
[http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=464971&idb=06](http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464971&idb=06)
2. Truflyak E. V., Kurchenko N. Yu., Tenekov A. A., Yakushev V. V., Borisenko I. B., Mashkov S. V., Lichman G. I., Daibova L. A. Precision agriculture: textbook for universities 2021.-512 p. <https://e.lanbook.com/book/151671>
3. Petryankin F. P., Petrova O. Yu. Diseases of young animals: a textbook for SPO 2022.-352 p. <https://e.lanbook.com/book/153636>

### *Additional readings:*

1. Akaevsky A.V., Yudichev Yu., Seleznev S.B. Anatomy of domestic animals / Edited by S.B. Seleznev / M.: Aquarium-Print LLC, 2009.- 638 p.
2. Andreevsky I. The book about diseases of horses. - - M.: Editorial URSS, 2012. - 532 p.
3. Dorosh M.V. Diseases of horses / M.: Veche, 2007. – 247 p.
4. Kerber Hans-Dieter Hoof diseases and horse forging. A desktop book for vet. doctors, kuznetsov-kovalyov and owners . - M.: Aquarium - Print, 2016. - 324 p.
5. Remy David W. Respiratory diseases of horses. - M.: Aquarium - Print, 2008. - 112 p.
6. Korneeva O. Diseases of horses Modern methods of treatment. - Moscow: Aquarium, 2007. - 1008 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/>
- 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 «**Diseases of Farm Animals**»
2. The laboratory workshop (if any) on the course «**Diseases of Farm Animals**»

\* 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