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**Federal State Autonomous Educational Institution of Higher Education  
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA  
RUDN University**

**Agrarian and Technological Institute**

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

**COURSE SYLLABUS**

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**Diseases of Farm Animals**

course title

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**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. GOALS AND OBJECTIVES OF THE COURSE

The aim of mastering the course "**Diseases of Farm Animals**" is the 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

The implementation of the course "**Diseases of Farm Animals**" 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 code	Competence descriptor	Indicators of competence accomplishment (within the course)
PC-1	Ability to collect the anamnesis of the animal's life and health to further establish a diagnosis and plan therapeutic and preventive measures.	PC-1.1 Collects the animal's life history, information about scheduled vaccinations, deworming, and other preventive treatments.
		PC-1.2 Collects information about past diseases, surgical interventions, ongoing chronic diseases, and therapy for these conditions.
		PC-1.3 Collects information about changes in the animal's condition during the illness, conducted diagnostic and therapeutic procedures, and used medications and physiotherapy methods.
PC-2	Ability to perform a complete initial clinical examination of an animal to establish a preliminary clinical diagnosis (diagnoses) and repeat examinations to monitor the patient's condition.	PC-2.1 Follows the technique and procedure for clinical examination, taking into account the type and condition of the animal.
		PC-2.2 Identifies signs (symptoms) of deviations from normal function, recognizes standard combinations of signs (syndromes).
		PC-2.3 Records the results of the examination in the patient's chart or other medical documents.
PC-10	Ability to analyze and adjust animal feeding to improve the	PC-10.1 Able to analyze the patient's diet to identify factors predisposing to

	effectiveness of treatment and to prescribe therapeutic diets.	disease development.
		PC-10.2 Able to justify the prescription of special therapeutic feeding for animals with various diseases.
		PC-10.3 Able to recommend an approximate composition of therapeutic diets, the desirable ratio of nutrients, and the presence of special additives and components that enhance the therapeutic effect of the diet.
		PC-10.4 Able to use specialized programs and databases to select commercial therapeutic diets and supplements, as well as to develop individual therapeutic diets for animals of various species.

### 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Diseases of Farm Animals**" belongs to the part formed by the participants of educational relations of the 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 "**Diseases of Farm Animals**".

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

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-1	Ability to collect the anamnesis of the animal's life and health to further establish a diagnosis and plan therapeutic and preventive measures.	Base component / Базовая компонента  Clinical Diagnostics / Клиническая диагностика  Fish Pathology and Aquaculture / Патология рыб и аквакультура  Equine Diseases / Болезни лошадей	Small Animal Diseases / Болезни мелких домашних животных  Bee Diseases and Entomophages / Болезни пчел и энтомофаги  Exotic Animal Diseases / Болезни экзотических животных  Base component /

			<p>Базовая компонента Educational Practice / Учебная практика Variable component / Вариативная компонента Clinical Industrial Practice / Клиническая производственная практика Clinical Internship Industrial Research Practice / Производственно- исследовательская практика Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>
PC-2	Ability to perform a complete initial clinical examination of an animal to establish a	<p>Fish Pathology and Aquaculture / Патология рыб и аквакультура Equine Diseases /</p>	<p>Small Animal Diseases / Болезни мелких домашних животных</p>

	<p>preliminary clinical diagnosis (diagnoses) and repeat examinations to monitor the patient's condition.</p>	<p>Болезни лошадей</p>	<p>Bee Diseases and Entomophages / Болезни пчел и энтомофаги</p> <p>Exotic Animal Diseases / Болезни экзотических животных</p> <p>Base component / Базовая компонента</p> <p>Educational Practice / Учебная практика</p> <p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная практика</p> <p>Clinical Internship</p> <p>Industrial Research Practice / Производственно-исследовательская практика</p> <p>Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена</p> <p>Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление,</p>
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			подготовка к процедуре защиты и защита выпускной квалификационной работы
PC-10	Ability to analyze and adjust animal feeding to improve the effectiveness of treatment and to prescribe therapeutic diets.	<p>Base component / Базовая компонента</p> <p>Animal Nutrition and Feeding with Basics of Feed Production / Кормление животных с основами кормопроизводства</p> <p>Medicinal and Poisonous Plants / Лекарственные и ядовитые растения</p> <p>Fodder Plants / Кормовые растения</p> <p>Fish Pathology and Aquaculture / Патология рыб и аквакультура</p> <p>Equine Diseases / Болезни лошадей</p>	<p>Small Animal Diseases / Болезни мелких домашних животных</p> <p>Bee Diseases and Entomophages / Болезни пчел и энтомофаги</p> <p>Exotic Animal Diseases / Болезни экзотических животных</p> <p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная практика</p> <p>Clinical Internship Industrial Research Practice / Производственно- исследовательская практика</p> <p>Preparation for Passing and Passing the State Exam / Подготовка к сдаче и сдача государственного экзамена</p> <p>Preparing and Passing the State Exam / Подготовка и сдача государственного экзамена</p> <p>Design, Preparation for Defense</p>

			Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы
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#### 4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "**Diseases of Farm Animals**" is 2 credits.

*Table 4.1. Types of academic activities during the period of the HE program mastering for **full-time** study*

Types of academic activities		HOURS	Semesters			
			9	-	-	-
Contact academic hours		34	34	-	-	-
including						
Lectures		17	17	-	-	-
Lab work		17	17	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		26	26	-	-	-
Evaluation and assessment (exam/pass/fail grading)		12	12	-	-	-
Course workload	Academic hour	72	72	-	-	-
	Credit unit	2	2	-	-	-

#### 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. 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, Lab work.
	Topic 6.3. Chest X-ray.	Lectures, Lab work.

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

## 6. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Material and technical support of the discipline*

<b><i>Classroom for Academic Activity Type</i></b>	<b><i>Equipping the classroom</i></b>	<b>Specialized educational/laboratory equipment, software and materials for the development of the course (if necessary)</b>
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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. 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:*

4. Akaevsky A.V., Yudichev Yu., Seleznev S.B. Anatomy of domestic animals / Edited by S.B. Seleznev / M.: Aquarium-Print LLC, 2009.- 638 p.
5. Andreevsky I. The book about diseases of horses. - - M.: Editorial URSS, 2012. - 532 p.
6. Dorosh M.V. Diseases of horses / M.: Veche, 2007. – 247 p.
7. Kerber Hans-Dieter Hoof diseases and horse forging. A desktop book for vet. doctors, kuznetsov-kovalyov and owners . - M.: Aquarium - Print, 2016. - 324 p.
8. Remy David W. Respiratory diseases of horses. - M.: Aquarium - Print, 2008. - 112 p.
9. Korneeva O. Diseases of horses Modern methods of treatment. - Moscow: Aquarium, 2007. - 1008 p.

10. Robinson, Edward N., Wilson, Matilda R. Diseases of horses. Modern methods of treatment. - M.: Aquarium - Print, 2007. - 1012 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/>

Educational and methodological materials for independent work of students during the development of the discipline/ module\*:

1. A course of lectures on the course "**Diseases of Farm Animals**".
2. Laboratory workshop on the course "**Diseases of Farm Animals**".

\* - 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).

### **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