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

Agrarian and Technological Institute

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

COURSE SYLLABUS

Equine Diseases

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. GOALS AND OBJECTIVES OF THE COURSE

The aim of mastering 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

The implementation of the course "**Equine Diseases**" 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 course)

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 effectiveness of treatment and to prescribe therapeutic diets.	PC-10.1 Able to analyze the patient's diet to identify factors predisposing to 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 "**Equine Diseases**" 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 courses and /or practices that contribute to achieving the planned results of mastering the course "**Equine Diseases**".

Table 3.1. List of Higher Education Program components courses 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	Diseases of Farm Animals / Болезни продуктивных животных Small Animal Diseases / Болезни мелких домашних животных Bee Diseases and Entomophages / Болезни пчел и энтомофаги Exotic Animal Diseases / Болезни экзотических животных Base component / Базовая компонента Educational Practice / Учебная

			<p>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 preliminary clinical diagnosis (diagnoses) and repeat	Fish Pathology and Aquaculture / Патология рыб и аквакультура	<p>Diseases of Farm Animals / Болезни продуктивных животных Small Animal Diseases / Болезни мелких домашних</p>

	<p>examinations to monitor the patient's condition.</p>	<p>животных Bee Diseases and Entomophages / Болезни пчел и энтомофаги Exotic Animal Diseases / Болезни экзотических животных Base component / 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 /</p>
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			Оформление, 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>Diseases of Farm Animals / Болезни продуктивных животных</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</p>

			сдача государственного экзамена Design, Preparation for Defense 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 "**Equine Diseases**" 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. Introduction. Morphofunctional	Topic 1.1. Introduction to equestrian veterinary medicine.	Lectures, Lab work.

features of ungulates	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. COURSE EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the course

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

3. 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.
4. 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.
5. 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
- 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 course/ module*:

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

* - 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