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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

Horse 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:

36.05.01 Veterinary

higher education programme profile/specialisation title

1. GOALS AND OBJECTIVES OF THE COURSE

The aim of mastering the course "**Horse 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 "**Horse 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 gather a history of the animal's life and health for further diagnosis and planning of treatment and preventive measures. | PC-1.1 Gathers the animal's life history, information on routine vaccinations, deworming and other preventive treatments. |
| | | PC-1.2 Collects information on past illnesses, surgical interventions, current chronic illnesses, and ongoing therapy for these illnesses. |
| | | PC-1.3 Collects information on changes in the animal's condition during the course of the disease, diagnostic and therapeutic measures taken, medications used and methods of physical therapy. |
| PC-2 | Ability to perform a complete initial clinical examination of the animal to make a preliminary clinical diagnosis(s) and repeat examinations to monitor the patient's condition. | PC-2.1 Observes the technique and procedure of clinical examination, taking into account the type of animal and its condition. |
| | | 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/other medical documents. |
| PC-10 | Ability to analyze and adjust animal feeding to improve the effectiveness of the therapeutic process, prescribe therapeutic diets. | PC-10.1 Able to analyze a patient's diet to identify factors predisposing to the development of disease. |
| | | PC-10.2 Able to justify the prescription of special food to an animal for therapeutic purposes for various diseases |

| | | |
|--|--|---|
| | | PC-10.3 Can recommend approximate composition of therapeutic diets, desirable ratio of nutrients, availability of special additives and components that enhance the therapeutic effect of the diet |
| | | PC-10.4 Able to use special programs and databases to select industrial therapeutic diets and dietary supplements, as well as to compose individual therapeutic diets for animals of different species. |

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Horse 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 "**Horse 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 gather a history of the animal's life and health for further diagnosis and planning of treatment and preventive measures. | Clinical diagnostics | Diseases of productive animals Diseases of small pets Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Study practice Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam |

| | | | |
|-------|--|---|--|
| PC-2 | Ability to perform a complete initial clinical examination of the animal to make a preliminary clinical diagnosis(s) and repeat examinations to monitor the patient's condition. | Clinical diagnostics | Diseases of productive animals Diseases of small pets Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Study practice Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam |
| PC-10 | Ability to analyze and adjust animal feeding to improve the effectiveness of the therapeutic process, prescribe therapeutic diets. | Feeding animals with the basics of forage production Medicinal and poisonous plants Fodder plants | Diseases of productive animals Diseases of small pets Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam |

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the course "**Horse diseases**" is 3 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 | 62 | 62 | - | - | - |
| Evaluation and assessment (exam/pass/fail grading) | 12 | 12 | - | - | - |
| Course workload | Academic hour | 108 | 108 | - | - |
| | Credit unit | 3 | 3 | - | - |

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 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. 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 "**Horse diseases**".
2. Laboratory workshop on the course "**Horse 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

Dinchenko O.I.

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