

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ястребов Олег Александрович
Должность: Ректор
Дата подписания: 27.05.2026 16:12:57
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
RUDN University**

Agrarian and Technological Institute

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

COURSE SYLLABUS

Anesthesiology, Resuscitation And Intensive Therapy

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. COURSE GOAL(s)

The goal of the course «Anesthesiology, Resuscitation And Intensive Therapy» is to deepen students' knowledge in theoretical knowledge, practical skills and skills to ensure the safety of a sick animal at all stages of surgical treatment by preventing or reducing the body's response to injury, as well as restoring its impaired functions.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «Anesthesiology, Resuscitation And Intensive Therapy» 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-3 | Ability to plan differential diagnosis activities for a patient. | PC-3.1 Systematizes information about the patient's symptoms/syndromes, forming a set of preliminary diagnoses for further confirmation or refutation. |
| | | PC-3.2 Uses an existing or develops a unique algorithm for differential diagnosis, taking into account the capabilities of the medical facility. |
| | | PC-3.3 Uses information obtained from diagnostic activities to establish a final diagnosis (diagnoses) and to adjust the established diagnoses if necessary. |
| PC-7 | Ability to select or develop a treatment plan for a patient based on the established diagnosis. | PC-7.1 Able to select medications necessary for treating animals, guided by evidence-based medicine principles and considering the cumulative pharmacological effects of all prescribed medications on the organism. |
| | | PC-7.2 Able to choose the optimal method of drug administration, calculate the dose and frequency of administration, and determine the duration of each course of treatment. |
| | | PC-7.3 Able to select non-pharmacological, including physiotherapeutic, methods of influencing the sick animal's organism, contributing to its recovery, and apply them in treatment. |
| | | PC-7.4 Able to develop a patient treatment plan, select criteria for monitoring its effectiveness, and determine alternatives to the treatment plan if the chosen methods prove ineffective. |
| PC-9 | Ability to use surgical methods in the prevention, diagnosis, and treatment | PC-9.1 Plans preoperative preparation, the course of surgical intervention, the management of the early postoperative period, |

| Competence code | Competence descriptor | Competence formation indicators (within this course) |
|-----------------|-----------------------|---|
| | of animal diseases. | and the prevention of complications. |

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the elective component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

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-3 | Ability to plan differential diagnosis activities for a patient. | Obstetrics, Gynecology and Andrology Internal Diseases General Surgery Private Surgery Parasitology and Invasive Diseases Dermatology Cardiology Endocrinology Oncology Neurology Nephrology | Reconstructive Surgery Veterinary Ophthalmology Behavioral Medicine Animal Dentistry Variable component Clinical Industrial Practice Clinical Internship Industrial Research Practice |
| PC-7 | Ability to select or develop a treatment plan for a patient based on the established diagnosis. | Veterinary Pharmacology Toxicology Dermatology Cardiology Endocrinology Oncology Neurology Nephrology | Behavioral Medicine Clinical Industrial Practice Clinical Internship Industrial Research Practice |
| PC-9 | Ability to use surgical methods in the prevention, diagnosis, and treatment of animal diseases. | Operative Surgery with Topographic Anatomy Veterinary Assistant Skills | Clinical Industrial Practice Clinical Internship Industrial Research Practice |

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Anesthesiology, Resuscitation And Intensive Therapy" 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 | - | - | - |
| <i>Contact academic hours</i> | 17 | 17 | - | - | - |
| including: | | | | | |
| Lectures (LC) | - | - | - | - | - |
| Lab work (LW) | - | - | - | - | - |
| Seminars (workshops/tutorials) (S) | 17 | 17 | - | - | - |
| <i>Self-studies</i> | 46 | 46 | - | - | - |
| <i>Evaluation and assessment (exam/passing/failing grade)</i> | 9 | 9 | - | - | - |
| Course workload | academic hours | 72 | 72 | - | - |
| | credits | 2 | 2 | - | - |

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

| Course module title | Course module contents (topics) | Academic activities types |
|---|---|---------------------------|
| Module 1. General concepts of anesthesiology, intensive care and intensive care. | Topic 1.1. General concepts of anesthesiology, intensive care and intensive care. | LC, LW |
| | Topic 1.2. Legal issues. | LC, LW |
| | Topic 1.3. Intraoperative patient monitoring. | LC, LW |
| Module 2. Methods, pharmacological means and techniques of analgesia, premedication and anesthetic support. | Topic 2.1. Types and stages of anesthesia. | LC, LW |
| | Topic 2.2. Inhalation anesthesia. | LC, LW |
| | Topic 2.3. Local anesthesia. | LC, LW |
| | Topic 2.4. Infusion therapy. | LC, LW |
| | Topic 2.5. Acute blood loss. | LC, LW |
| | Topic 2.6. Cardiopulmonary resuscitation. | LC, LW |
| Module 3. Anesthesia of particularly difficult patients. | Topic 3.1. Anesthesiology of diabetics. | LC, LW |
| | Topic 3.2. Anesthesiology in ophthalmology. | LC, LW |
| | Topic 3.3. Anesthesiology of exotic animals. | LC, LW |
| | Topic 3.4. Anesthesiology in neurology. | LC, LW |
| | Topic 3.5. Physiology of CPP, IP. | LC, LW |

* - to be filled in only for **full**-time training: LC - lectures; LW - lab work; S - seminars.

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) |
|-----------------------------|--|---|
| Seminar | A classroom for conducting seminars, group and individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations. | List of specialised equipment, stands, visual posters, etc. |
| 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. | |

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Sakhno N. V., Vatnikov Yu. A., Yagnikov S. A., Shadskaya A.V., Shevchenko A. N., Tutkyshbai I. A., Andreeva O. N., Troshina N. I. Methodology of veterinary surgery training 2020.-184 p. <https://e.lanbook.com/book/133910>
2. Baymatov V.N. Workshop on pathological physiology: 2017.-352p. <https://e.lanbook.com/book/94207>
3. Berdnikova L. N. Biomedical fundamentals of life safety: A course of lectures 2019.-205 p. <https://e.lanbook.com/book/149591>
4. Khulelidze N. G. Nursing care in surgery. Course of lectures: textbook for SPO 2021.-360 p. <https://e.lanbook.com/book/151195>

Additional Readings:

1. Klimovich S. S., Maskin S. S., Matyukhin V. V. Intestinal insufficiency syndrome in patients with acute abdominal surgical pathology 2019.-148p. <https://e.lanbook.com/book/141150>
2. Fundamentals of veterinary physiotherapy: Textbook 2020.-108 p. <https://e.lanbook.com/book/155050>
3. Pavlov S. A., Kusheev C. B., Lomboeva S. S. Veterinary dentistry: A textbook for classes in veterinary dentistry for students studying in the specialty 36.05.01 Veterinary Medicine 2018.-124p. <https://e.lanbook.com/book/143174>
4. Semenov B. S., Videnin V. N., Nechaev A. Yu., Kuznetsova T. S., Guseva V. A. Operative surgery in animals 2021.-704p. <https://e.lanbook.com/book/162365>

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/>
- 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 "**Anesthesiology, Resuscitation And Intensive Therapy**"
2. The laboratory workshop (if any) on the course "**Anesthesiology, Resuscitation And Intensive Therapy**"

* 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:

Professor of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

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