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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

Anesthesiology, resuscitation and intensive care

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. COURSE GOAL(s)

The goal of the course «**Anesthesiology, resuscitation and intensive care**» is to master students' 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 "**Anesthesiology, resuscitation and intensive care**" is aimed at creating the following competencies (parts of competencies) for students:

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 measures for differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about a patient's symptoms/syndromes, forms a set of preliminary diagnoses for further confirmation or refutation.
		PC-3.2 Uses a ready-made or creates a unique algorithm for differential diagnosis, taking into account the capabilities of the treatment facility.
		PC-3.3 Uses the information obtained as a result of diagnostic measures to make a final diagnosis(s) and to correct the diagnoses if necessary.
PC-5	Ability and readiness to plan and conduct necessary instrumental diagnostics of the patient's condition	PC-5.2 Selects the necessary and sufficient set of instrumental diagnostic methods to solve the problem.
		PC-5.3 He is able to conduct instrumental diagnosis of diseases in animals.
		PC-5.4 Interprets the results of the diagnosis and uses them to solve the problem.
PC-9	Ability to use methods of operative surgery in the prevention, diagnosis and treatment of animal diseases.	PC-9.1 Selects the necessary method of surgical intervention, including methods of anesthesia if necessary.

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.

* - 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, internships*	Subsequent courses/modules, internships*
PC-3	Ability to plan measures for differential diagnosis of diseases in a patient.	Obstetrics, gynecology and andrology Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases	Cardiology Endocrinology Nephrology Reconstructive surgery Veterinary ophthalmology Animal Dentistry Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification project Preparation for and passing the state exam
PC-5	Ability and readiness to plan and conduct necessary instrumental diagnostics of the patient's condition	Animal anatomy Instrumental diagnostic methods	Dermatology Cardiology Endocrinology Nephrology Reconstructive surgery Veterinary ophthalmology Animal Dentistry Clinical internship Industrial practice Academic research practice with the preparation of a scientific qualification

			project Preparation for and passing the state exam
PC-9	Ability to use methods of operative surgery in the prevention, diagnosis and treatment of animal diseases.	Operative surgery with topographic anatomy	Reconstructive surgery Veterinary ophthalmology Animal Dentistry 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 ACADEMIC ACTIVITIES

The total workload of the course is "Anesthesiology, resuscitation and intensive care" is 3 credits.

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	-	-	-	
Contact academic hours	51	51	-	-	-	
including						
Lectures	17	17	-	-	-	
Lab work	34	34	-	-	-	
Seminars (workshops/tutorials)	-	-	-	-	-	
Self-study	41	41	-	-	-	
Evaluation and assessment (exam/pass/fail grading)	16	16	-	-	-	
Course workload	academic hours_	108	108	-	-	-
	credits	3	3	-	-	-

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.	Lectures, Lab work.
	Topic 1.2. Legal issues.	Lectures, Lab work.
	Topic 1.3. Intraoperative patient monitoring.	Lectures, Lab work.
Module 2. Methods, pharmacological means and techniques of analgesia, premedication and anesthetic support.	Topic 2.1. Types and stages of anesthesia.	Lectures, Lab work.
	Topic 2.2. Inhalation anesthesia.	Lectures, Lab work.
	Topic 2.3. Local anesthesia.	Lectures, Lab work.
	Topic 2.4. Infusion therapy.	Lectures, Lab work.
	Topic 2.5. Acute blood loss.	Lectures, Lab work.
	Topic 2.6. Cardiopulmonary resuscitation.	Lectures, Lab work.
Module 3. Anesthesia of particularly difficult patients.	Topic 3.1. Anesthesiology of diabetics.	Lectures, Lab work.
	Topic 3.2. Anesthesiology in ophthalmology.	Lectures, Lab work.
	Topic 3.3. Anesthesiology of exotic animals.	Lectures, Lab work.
	Topic 3.4. Anesthesiology in neurology.	Lectures, Lab work.
	Topic 3.5. Physiology of CPP, IP.	Lectures, Lab work.

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	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. 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/](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 care**".
2. Laboratory workshop on the course "**Anesthesiology, resuscitation and intensive care**".

* 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.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (competences in part) upon the course study completion 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:

Professor of the Department of Veterinary Medicine

Position, Basic curriculum

Vatnikov Yu.A.

Signature

Full name.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Vatnikov Yu.A.

Signature

Full name.

HEAD OF

HIGHER EDUCATION PROGRAMME:

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Vatnikov Yu.A.

Signature

Full name