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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 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 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 Therapy**" 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 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 of animal diseases.	PC-9.1 Plans preoperative preparation, the course of surgical intervention, the management of the early postoperative period, and the prevention of complications.

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 differential diagnosis activities for a patient.	Obstetrics, Gynecology and Andrology / Акушерство, гинекология и андрология	Reconstructive Surgery / Реконструктивно-восстановительная хирургия
		Internal Diseases / Внутренние незаразные болезни	Veterinary Ophthalmology / Ветеринарная офтальмология
		General Surgery / Общая хирургия	Behavioral Medicine /
		Private Surgery / Частная ветеринарная хирургия	Поведенческая медицина
		Parasitology and Invasive Diseases / Паразитология и	Animal Dentistry / Стоматология животных
			Variable component

		инвазионные болезни	/	Вариативная компонента
		Dermatology / Дерматология	/	Clinical Industrial Practice /
		Cardiology / Кардиология	/	Клиническая производственная практика
		Endocrinology / Эндокринология	/	Clinical Internship
		Oncology / Онкология		Industrial Research Practice /
		Neurology / Неврология	/	Производственно-исследовательская практика
		Nephrology / Нефрология	/	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
PC-7	Ability to select or develop a treatment plan for a patient based on the established diagnosis.	Base component / Базовая компонента	/	Behavioral Medicine / Поведенческая медицина
		Veterinary Pharmacology	/	

		Ветеринарная фармакология Toxicology / Токсикология Dermatology / Дерматология Cardiology / Кардиология Endocrinology / Эндокринология Oncology / Онкология Neurology / Неврология Nephrology / Нефрология	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
PC-9	Ability to use surgical methods in the prevention, diagnosis, and treatment of animal	Base component / Базовая компонента Operative Surgery with	Variable component / Вариативная компонента

	diseases.	Topographic Anatomy / Оперативная хирургия с топографической анатомией Veterinary Assistant Skills / Навыки ассистента ветеринарного врача	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
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is "Anesthesiology, Resuscitation And Intensive Therapy" is 2 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		17	17	-	-	-
Including						
Lectures		-	-	-	-	-
Lab work		-	-	-	-	-
Seminars (workshops/tutorials)		17	17	-	-	-
Self-study		46	46	-	-	-
Evaluation and assessment (exam/pass/fail grading)		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.	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)
Seminar Room	A classroom for conducting seminar-type classes, group and individual consultations, ongoing assessments, and interim certification, equipped with specialized furniture and multimedia presentation 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 Therapy**
2. Laboratory workshop 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.

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

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