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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

Behavioral Medicine

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 aim of mastering the course "**Behavioral Medicine**" is to develop students' knowledge about normal and pathological animal behavior, the causal factors of behavioral deviations, and methods of their correction, as well as to develop practical skills for interacting with animals, owners, and multidisciplinary veterinary teams when managing behavioral cases.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The implementation of the course "**Behavioral Medicine**" 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	Competence formation indicators (within this course)
PC-3	Ability to plan activities for the differential diagnosis of diseases in a patient.	PC-3.1 Systematizes information about symptoms/syndromes of disease in a patient, forms a set of preliminary diagnoses for their further confirmation or refutation.
		PC-3.2 Uses a ready-made or creates a unique algorithm for differential diagnosis, considering the capabilities of the medical institution.
		PC-3.3 Uses the data obtained from diagnostic activities to establish a final diagnosis (diagnoses) and correct previously made diagnoses if necessary.
PC-7	Ability, based on the established diagnosis, to select or develop a treatment plan for the patient	PC-7.1 Able to select the necessary medications for treating animals, guided by the principles of evidence-based medicine, taking into account the combined pharmacological effects of all prescribed drugs on the organism.
		PC-7.2 Able to select the optimal method of drug administration, calculate the dosage, frequency of administration, and duration of each course.
		PC-7.3 Able to select non-pharmacological methods of influence on the organism of a sick animal, including physiotherapy methods, to promote recovery and apply them for treatment.
		PC-7.4 Able to develop a patient treatment plan, select criteria for

		monitoring its effectiveness, and choose alternative treatment options in case of inefficacy of the initially selected methods.
PC-8	Coordinates the treatment plan with the animal owner and other participants in the treatment process; if necessary, adjusts the plan during treatment and agrees on the changes with the owner.	PC-8.1 Able to explain the selected treatment plan to the animal owner, obtain their consent, and ensure their willingness to invest resources in the pet's treatment.
		PC-8.2 Ready to communicate with the patient's owner about changes in the patient's condition during treatment, adherence to the prescribed therapy, and the correlation between prognoses and actual treatment outcomes.
		PC-8.3 Ready to explain to the owner and medical staff the fact of treatment correction if changes in the patient's condition arise.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course "**Behavioral Medicine**" 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 "**Behavioral Medicine**".

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-3	Ability to plan activities for the differential diagnosis of diseases in a patient.	Obstetrics, Gynecology and Andrology / Акушерство, гинекология и андрология	Animal Dentistry / Стоматология животных
		Internal Diseases / Внутренние незаразные болезни	Variable component / Вариативная компонента
		General Surgery / Общая хирургия	Clinical Industrial Practice / Клиническая производственная практика
		Private Surgery / Частная ветеринарная	

		<p>хирургия</p> <p>Parasitology and Invasive Diseases / Паразитология и инвазионные болезни</p> <p>Dermatology / Дерматология</p> <p>Cardiology / Кардиология</p> <p>Endocrinology / Эндокринология</p> <p>Oncology / Онкология</p> <p>Neurology / Неврология</p> <p>Nephrology / Нефрология</p> <p>Anesthesiology, Resuscitation And Intensive Therapy / Анестезиология, реанимация и интенсивная терапия</p> <p>Reconstructive Surgery / Реконструктивно-восстановительная хирургия</p> <p>Veterinary Ophthalmology / Ветеринарная офтальмология</p>	<p>Clinical Internship</p> <p>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 сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>
PC-7	Ability, based on the established diagnosis, to select or develop a treatment plan for the patient	<p>Base component / Базовая компонента</p> <p>Veterinary Pharmacology / Ветеринарная фармакология</p> <p>Toxicology /</p>	<p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная</p>

		<p>Токсикология</p> <p>Dermatology / Дерматология</p> <p>Cardiology / Кардиология</p> <p>Endocrinology / Эндокринология</p> <p>Oncology / Онкология</p> <p>Neurology / Неврология</p> <p>Nephrology / Нефрология</p> <p>Anesthesiology, Resuscitation And Intensive Therapy / Анестезиология, реанимация и интенсивная терапия</p>	<p>практика</p> <p>Clinical Internship</p> <p>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 сдача государственного экзамена</p> <p>Design, Preparation for Defense Procedure and Defense of the Graduation Thesis / Оформление, подготовка к процедуре защиты и защита выпускной квалификационной работы</p>
PC-8	Coordinates the treatment plan with the animal owner and other participants in the treatment process; if necessary, adjusts the plan during treatment and agrees on the changes with the owner.	Veterinary Deontology / Ветеринарная деонтология	<p>Variable component / Вариативная компонента</p> <p>Clinical Industrial Practice / Клиническая производственная практика</p> <p>Clinical Internship</p>

			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 TRAINING ACTIVITIES

Course workload of the course "**Behavioral Medicine**" 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	51	51	-	-	-
including					
Lectures	17	17	-	-	-
Lab work	34	34	-	-	-
Seminars (workshops/tutorials)	-	-	-	-	-
Self-study	1	1	-	-	-
Evaluation and assessment (exam/pass/fail)	20	20	-	-	-

grading)						
Course workload	academic hours	72	72	-	-	-
	credits	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. Fundamentals of Behavioral Medicine. Diagnosis of Behavioral Disorders.	Topic 1.1 Ethology: instincts, adaptive behavior, learning	Lectures, Lab work.
	Topic 1.2 Physiology of behavior: neurotransmitters, hormones, stress	Lectures, Lab work.
	Topic 1.3 Norms and deviations in the behavior of domestic and farm animals	Lectures, Lab work.
	Topic 1.4 Psycho-emotional state of animals and its assessment	Lectures, Lab work.
	Topic 1.5. Clinical interview with the owner: history taking	Lectures, Lab work.
	Topic 1.6. Methods of observation, testing, and video analysis	Lectures, Lab work.
	Topic 1.7. Differential diagnosis: behavioral vs organic causes Behavioral history and behavior assessment scales	Lectures, Lab work.
Module 2. Correction and Therapy	Topic 2.1. Methods of behavioral modification: desensitization, operant conditioning	Lectures, Lab work.
	Topic 2.2. Pharmacotherapy of behavioral disorders	Lectures, Lab work.
	Topic 2.3. Working with aggression, anxiety, and phobias	Lectures, Lab work.
	Topic 2.4. Behavior in cases of stress and frustration	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)
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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. Skopichev V. G. *Animal Behavior: Textbook*. — St. Petersburg: Lan Publishing, 2022. — 624 p. ISBN: 978-5-8114-0868-9
2. Ivanov A. A. *Ethology with Fundamentals of Zoopsychology*. — St. Petersburg: Lan Publishing, 2023.

Additional Readings:

1. Overall K. L. *Clinical Behavioral Medicine for Small Animals*. — Moscow: Sofion, 2005. — 641 p. ISBN: 978-5-9668-0010-9
2. Horwitz D., Mills D., Heath S. (Eds.). *BSAVA Manual of Canine and Feline Behavioural Medicine*. — Moscow: Sofion, 2005. — 368 p. ISBN: 5-9668-0007-3

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 "**Behavioral Medicine**".
2. Laboratory workshop on the course "**Behavioral Medicine**".

* - 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:

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