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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

Animal Health and Welfare

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 "**Animal health and welfare**" is to form a set of competence for students to solve professional tasks to optimize the conditions of feeding, watering and keeping animals in order to prevent diseases and increase the productivity of animals; the influence of a complex of environmental factors on the natural resistance of the body and the productive qualities of farm animals.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course "**Animal health and welfare**" 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)
GPC-2	Able to interpret and assess the influence of natural, socio-economic, genetic, and economic factors on the physiological state of animals in professional activities.	GPC-2.1 Possesses knowledge about the influence of natural, socio-economic, genetic, and economic factors on the animal organism.
		GPC-2.2 Able to establish the presence and reliability of cause-and-effect relationships between the impact of specific etiological factors on the animal organism and the development of diseases.
		GPC-2.3 Possesses methods of preventive and therapeutic correction of the adverse effects of environmental factors that may cause deterioration of animal health.
GPC-6	Able to analyze, identify, and assess the risk of occurrence and spread of diseases.	GPC-6.1 Possesses knowledge in the field of etiology and pathogenesis of diseases in different species of animals.
		GPC-6.2 Knows the patterns of disease emergence and spread in animal populations, predisposing factors, and causes of possible complications.
PC-14	Ready to promote veterinary knowledge, including in the field of animal disease prevention.	PC-14.3 Able to conduct talks, lectures, and seminars for organization employees to explain the principles of work in disease prevention for animals.

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*	Subsequent courses/modules*
GPC-2	Able to interpret and assess the influence of natural, socio-economic, genetic, and economic factors on the physiological state of animals in professional activities.	Base component / Базовая компонента Agroecology / Агроэкология Biology with Basic Ecology / Биология с основами экологии Animal Breeding with Basics of Private Husbandry / Разведение животных с основами частной зоотехнии	Animal Nutrition and Feeding with Basics of Feed Production / Кормление животных с основами кормопроизводства Variable component / Вариативная компонента Veterinary Genetics / Ветеринарная генетика Health and Welfare of Animals / Здоровье и благополучие животных / Animal Health and Welfare Base component / Базовая компонента Educational Practice / Учебная практика Variable component / Вариативная компонента Clinical and Industrial Practice / Клиническая производственная практика Clinical Internship Industrial Research Practice / Производственно-

			<p>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>
GPC-6	Capable of analyzing, identifying, and assessing the risk of disease emergence and spread		<p>Pathologic Physiology / Патологическая физиология</p> <p>Epidemiology and Infectious Diseases / Эпизоотология и инфекционные болезни</p> <p>Variable component / Вариативная компонента</p> <p>Veterinary Genetics / Ветеринарная генетика</p> <p>Здоровье и благополучие животных / Animal Health and Welfare</p> <p>Variable component /</p>

			<p>Вариативная компонента</p> <p>Clinical Practice / Клиническая производственная практика</p> <p>Clinical Internship</p> <p>Industrial Practice / Research / 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-14	Willingness to promote veterinary knowledge, including animal disease prevention.		<p>Pathological Anatomy / Патологическая анатомия</p> <p>Здоровье и благополучие животных / Animal Health and Welfare</p> <p>Variable component / Вариативная компонента</p>

			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 "**Animal health and welfare**" is 4 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			
		4	-	-	-
Contact academic hours	69	68	-	-	-
including					
Lectures	17	17	-	-	-
Lab work	51	51	-	-	-
Seminars (workshops/tutorials)	-	-	-	-	-

Self-study		67	67	-	-	-
Evaluation and assessment (exam/pass/fail grading)		9	9	-	-	-
Course workload	academic hours	144	144	-	-	-
	credits	4	4	-	-	-

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 hygiene	Topic 1.1. Air hygiene.	Lectures, Lab work.
	Topic 1.2. Hygiene of the microclimate.	Lectures, Lab work.
	Topic 1.3. Soil hygiene.	Lectures, Lab work.
	Topic 1.4. Hygiene of water supply.	Lectures, Lab work.
	Topic 1.5. Hygiene of feed.	Lectures, Lab work.
	Topic 1.6. Keeping animals.	Lectures, Lab work.
	Topic 1.7. Hygiene of pasture maintenance, transportation of animals and raw materials.	Lectures, Lab work.
	Topic 1.8. Hygiene of livestock facilities.	Lectures, Lab work.
	Topic 1.9. Hygiene of sanitary equipment.	Lectures, Lab work.
	Topic 1.10. Personal hygiene of employees working with animals.	Lectures, Lab work.
	Topic 1.11. Environmental hygiene.	Lectures, Lab work.
Module 2. Private hygiene	Topic 2.1. Hygiene of cattle.	Lectures, Lab work.
	Topic 2.2. Hygiene of pigs and MRS.	Lectures, Lab work.
	Topic 2.3. Hygiene of horses.	Lectures, Lab work.
	Topic 2.4. Hygiene of poultry.	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.	- <i>Zoological models.</i> - <i>Information stands.</i>
Lab work	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- <i>Zoological models.</i> - <i>Information stands.</i>
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. Volkov G.K. Animal hygiene : textbook / G.K. Volkov, I.R. Smirnova. - Electronic text data. - St. Petersburg : Quadro, 2020. - 504 p. - http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=487546&idb=0
2. Workshop on animal hygiene : textbook / A.F. Kuznetsov, V.G. Tyurin, V.G. Semenov [et al.]; under the general editorship of A.F. Kuznetsov. - 2nd ed., reprint. and additional ; Electronic text data. - St. Petersburg : Quadro, 2020. - 384 p. - http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=487551&idb=0

Additional Readings:

1. Chikalev A.I., Yuldashbayev Yu.A. ZOOHYENA. - M.: GEOTAR-Media, 2012. - 240 p.

2. V.A. Medvedsky Animal hygiene: textbook for students of specialty: "Veterinary medicine" of agricultural universities. - Minsk: Technoprospektiva, 2009. - 617 p.
3. Normative and zoohygienic requirements in animal husbandry: a practical guide / V.A. Medvedsky, D.G. Gotovsky et al. – Vitebsk UO VGAVM, 2010. – 343 p.
4. Kuznetsov A.F., Nikitin G.S. Modern technologies and hygiene of poultry keeping – M.: Lan, 2012 – 352 p. <https://e.lanbook.com/book/3737>
5. Hygiene of farm animals [Text] : In 2 hours: Methodological recommendations for laboratory and practical classes. Part 1 : Methods of monitoring the microclimate of livestock premises / M.S. Naydensky [et al.]; M.S.Naydensky et al. - 2nd ed., supplement and revision - M. : MGAVMiB named after K.I.Scriabin, 2001. – 110 p .
6. Hygiene of farm animals [Text]: In 2 hours: Methodological recommendations for laboratory and practical classes. Part 2 : Zoohygienic control of soil, water and feed / M.S. Naidensky [et al.]; M.S.Naidensky et al. - M.: MGAVMiB named after K.I.Scriabin, 2002. - 119 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/>

*Training toolkit for self- studies to master the course *:*

1. The set of lectures on the course «**Animal health and welfare**».
2. Laboratory workshop on the course «**Animal health and welfare**».
3. The guidelines for writing a course paper on the course «**Animal health and welfare**».

* 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:

Associate Professor of the Department of Veterinary
Medicine

Position, Basic curriculum

Signature

Bolshakova M.V.

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