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**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

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 familiarize students with the theoretical background, terminology, and concepts of the discipline, 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 (module) "**Animal health and welfare**" 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)
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 "**Animal health and welfare**" refers to the elective component of (B1) block of the higher educational programme curriculum.

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.	Agroecology Biology with Basic Ecology Animal Breeding with Basics of Private Husbandry / Разведение ЖИВОТНЫХ с ОСНОВАМИ ЧАСТНОЙ ЗООТЕХНИИ	Animal Nutrition and Feeding with Basics of Feed Production Veterinary Genetics Animal Health and Welfare Educational Practice Clinical Industrial Practice Clinical Internship Industrial Research Practice
GPC-6	Capable of analyzing, identifying, and assessing the risk of disease emergence and spread		Pathologic Physiology Epidemiology and Infectious Diseases Veterinary Genetics Animal Health and Welfare Variable component Clinical Industrial Practice Clinical Internship Industrial Research Practice
PC-14	Willingness to promote veterinary knowledge, including animal disease prevention.		Pathological Anatomy Animal Health and Welfare Clinical Industrial Practice Clinical Internship Industrial Research Practice

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Animal health and welfare" is 4 credits (144 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			
		4	-	-	-
<i>Contact academic hours</i>	69	68	-	-	-
<i>including:</i>					
Lectures (LC)	17	17	-	-	-
Lab work (LW)	51	51	-	-	-
Seminars (workshops/tutorials) (S)	-	-	-	-	-
<i>Self-studies</i>	67	67	-	-	-
<i>Evaluation and assessment</i>	9	9	-	-	-

Type of academic activities		Total academic hours	Semesters/training modules			
			4	-	-	-
<i>(exam/passing/failing grade)</i>						
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.	LC, LW
	Topic 1.2. Hygiene of the microclimate.	LC, LW
	Topic 1.3. Soil hygiene.	LC, LW
	Topic 1.4. Hygiene of water supply.	LC, LW
	Topic 1.5. Hygiene of feed.	LC, LW
	Topic 1.6. Keeping animals.	LC, LW
	Topic 1.7. Hygiene of pasture maintenance, transportation of animals and raw materials.	LC, LW
	Topic 1.8. Hygiene of livestock facilities.	LC, LW
	Topic 1.9. Hygiene of sanitary equipment.	LC, LW
	Topic 1.10. Personal hygiene of employees working with animals.	LC, LW
	Topic 1.11. Environmental hygiene.	LC, LW
Module 2. Private hygiene	Topic 2.1. Hygiene of cattle.	LC, LW
	Topic 2.2. Hygiene of pigs and MRS.	LC, LW
	Topic 2.3. Hygiene of horses.	LC, LW
	Topic 2.4. Hygiene of poultry.	LC, LW

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	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and technical means of multimedia presentations.	- <i>Zoological models.</i> - <i>Information stands.</i>
Lab work	A classroom for laboratory work, individual consultations, current and mid-term assessment; equipped with a set of specialised furniture and machinery.	- <i>Zoological models.</i> - <i>Information stands.</i>
Self-studies	A classroom for independent work of students	

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	(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.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

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 zoohygenic 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 : Zoohygenic 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/>
- 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. The 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.

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