

Документ подписан простой электронной подписью
Информация о владельце:
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Должность: Ректор
Дата подписания: 19.05.2023 15:56:55
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**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:**

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The purpose of mastering the discipline «**Animal health and welfare**» is to form a set of competencies for students to solve professional problems in optimizing 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 organism and the productive qualities of farm animals.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the discipline «**Animal health and welfare**» is aimed at developing the following competencies (parts of competencies) in students:

Table 2.1. The list of competencies formed by students in the course of mastering the discipline (the results of mastering the discipline)

Competence code	Competence descriptor	Competence formation indicators
GPC-2	The ability to interpret and evaluate in professional activities the impact on the physiological state of the animal organism of natural, socio-economic, genetic and economic factors.	GPC-2.1 Has knowledge of the impact of natural, socio-economic, genetic and economic factors on the animal body
		GPC-2.2 Able to establish the presence and reliability of causal relationships between the impact of individual etiological factors on the animal's body and the development of diseases
		GPC-2.3 Owns methods of preventive and therapeutic correction of the impact of adverse environmental factors that can cause a deterioration in animal health
GPC-6	Able to analyze, identify and carry out a risk assessment of the risk of the emergence and spread of diseases	GPC-6.1 Has knowledge in the field of etiology and pathogenesis of animal diseases of different species.
		GPC-6.2 Knows patterns of occurrence and spread of diseases in animal populations, factors predisposing to diseases and causes of possible complications.
PC-14	Willingness to promote veterinary knowledge, including in the field of animal disease prevention.	PC-14.3 Able to conduct conversations, lectures, seminars for employees of the organization in order to explain the principles of work on the prevention of animal diseases

3. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF OP VO

The discipline "Health and welfare of animals" refers to the mandatory part of block B1 of the OP VO.

As part of the EP VO, students also master other disciplines and / or practices that contribute to the achievement of the planned results of mastering the discipline "Health and Welfare of Animals".

Table 3.1. The list of components of the EP VO, contributing to the achievement of the planned results of the development of the discipline.

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GPC-2	The ability to interpret and evaluate in professional activities the impact on the physiological state of the animal organism of natural, socio-economic, genetic and economic factors.	Biology with the basics of ecology Veterinary genetics Animal breeding with the basics of private zootechnics	Feeding animals with the basics of feed production General and veterinary ecology Animal health and welfare
GPC-6	Able to analyze, identify and carry out a risk assessment of the risk of the emergence and spread of diseases	Veterinary genetics	Pathological physiology Epizootology and infectious diseases Animal health and welfare
PC-14	Willingness to promote veterinary knowledge, including in the field of animal disease prevention.	-	Pathological anatomy Animal health and welfare

4. VOLUME OF DISCIPLINE AND TYPES OF EDUCATIONAL WORK

The total workload of the course "Animal health and welfare" is 3 credits.

Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)*

Type of study work	Total academic hours	Semesters/training modules				
		4	-	-	-	
Contact academic hours	34	34	-	-	-	
including:						
Lectures	-	-	-	-	-	
Lab work	-	-	-	-	-	
Seminars (workshops/tutorials)	34	34	-	-	-	
Self-study	58	58	-	-	-	
Evaluation and assessment (exam/pass/fail grading)	16	16	-	-	-	
Course workload	academic hours_	108	108	-	-	-
	credits	3	3	-	-	-

Table 4.2. Types of educational work by periods of mastering OP HE for part-time and part-time forms of education

Type of study work		Total academic hours	Semesters/training modules			
			5	-	-	-
Contact academic hours		18	18	-	-	-
including:						
Lectures		-	-	-	-	-
Lab work		-	-	-	-	-
Seminars (workshops/tutorials)		18	18	-	-	-
Self-study		84	84	-	-	-
Evaluation and assessment (exam/pass/fail grading)		6	6	-	-	-
Course workload		academic hours	108	108	-	-
		credits	3	3	-	-

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Name of the discipline section	Contents of the section (topic)	Type of study work
Section 1. General hygiene	Topic 1.1. Air hygiene.	LC, LR
	Topic 1.2. Soil hygiene.	LC, LR
	Topic 1.3. Hygiene of water supply and drinking	LC, LR
	Topic 1.4. Feed hygiene.	LC, LR
	Topic 1.5. Veterinary and sanitary measures in animal husbandry	LC, LR
	Topic 1.6. Hygiene of grazing, transportation of animals and raw materials	LC, LR
	Topic 1.7. Personal hygiene of employees working with animals.	LC, LR
	Topic 1.8. Environmental hygiene.	LC, LR
Section 2. Private hygiene	Topic 2.1. Cattle hygiene.	LC, LR
	Topic 2.2. Hygiene of pigs and MRS.	LC, LR
	Topic 2.3. Horse hygiene.	LC, LR
	Topic 2.4. Hygiene of poultry.	LC, LR
	Topic 2.5. Hygiene of fur animals	LC, LR

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 lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	- <i>Zoological dummies.</i> - <i>Information stands.</i>
Laboratory	Auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set specialized furniture and equipment.	- <i>Zoological dummies.</i> - <i>Information stands.</i>
For independent work students	Audience for independent work of students (can be used for conducting seminars and consultations), equipped with a set of specialized furniture and computers with access to EIOS.	-

7. RESOURCES RECOMMENDED FOR COURSE STUDIES

Main literature:

1. Volkov G.K. Animal hygiene: textbook / G.K. Volkov, I.R. Smirnova. - Electronic text data. - St. Petersburg: Kvadro, 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 [i dr.]; under total ed. A.F. Kuznetsova. - 2nd ed., revised. and additional ; Electronic text data. - St. Petersburg: Kvadro, 2020. - 384 p. - http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=487551&idb=0

Additional literature:

1. Chikalev A.I., Yuldashbaev Yu.A. ZOOHYGIENE. - M.: GEOTAR-Media, 2012. - 240 p.
2. V.A. Medvedsky Animal hygiene: a textbook for students of the specialty: "Veterinary medicine" s.-x. universities. - Minsk: Tekhnoperspektiva, 2009. - 617 p.
3. Regulatory and zoohygienic requirements in animal husbandry: a practical guide / V.A. Medvedsky, D.G. Gotovsky and others. - Vitebsk UO VGAVM, 2010. - 343 p.
4. Kuznetsov A.F., Nikitin G.S. Modern technologies and hygiene of keeping poultry - M.: Lan, 2012 - 352s. <https://e.lanbook.com/book/3737>
5. Hygiene of farm animals [Text]: In 2 hours: Guidelines for laboratory and practical exercises. Part 1: Methods for monitoring the microclimate of livestock premises / M.S. Naidensky [and

- others]; M.S. Naidensky and others - 2nd ed., add. and reworked. - M.: MGAVMiB im. K.I.Skryabina, 2001. - 110 p.
6. Hygiene of farm animals [Text]: In 2 hours: Guidelines for laboratory and practical exercises. Part 2: Zoohygienic control of soil, water and feed / M.S. Naidensky [and others]; M.S. Naidensky and others - M.: MGAVMiB im. K.I.Skryabina, 2002. - 119 p.

Resources of the information and telecommunications network "Internet":

1. RUDN ELS and third-party ELS, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library Online" <http://www.biblioclub.ru>
- EBS Yurayt <http://www.biblio-online.ru>
- EBS "Student Advisor" www.studentlibrary.ru
- EBS "Lan" <http://eZlanbook.com/>
- EBS "Trinity Bridge" <http://www.trmost.com/>

2. Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

Educational and methodological materials for independent work of students in the development of the discipline/module*:

1. A course of lectures on the discipline "**Animal health and welfare**".
2. Laboratory workshop on the discipline "**Animal health and welfare**".
3. Guidelines for the implementation and execution of course work in the discipline "Health and welfare of animals".

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline in TUIS!

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

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competences) based on the results of mastering the discipline "Health and Welfare of Animals" are presented in the Appendix to this Work Program of the discipline.

* - OM and BRS are formed on the basis of the requirements of the relevant local normative act of the Peoples' Friendship University of Russia.

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Surname I.O.

HEAD OF EDUCATIONAL DEPARTMENT:

Department of Veterinary Medicine

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