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Federal State Autonomous Educational Institution for Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
Agrarian and Technological Institute

WORKING COURSE SYLLABUS

Veterinary sanitation

Recommended by the Methodological Council for the Education Field:

36.05.01 Veterinary medicine

1. GOALS AND OBJECTIVES OF THE DISCIPLINE

The aim of mastering the discipline "**Veterinary Sanitation**" is to acquire theoretical knowledge and practical skills that ensure the identification of the causes and conditions of environmental problems of veterinary surveillance facilities in relation to mass diseases of various nature, justification, organization and implementation of preventive and health measures aimed at their prevention and elimination.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Veterinary Sanitation**" 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 discipline (results of the development of the discipline)

Code	Competence	Indicators of competence accomplishment (within the discipline)
UK -3	The ability to organize and manage the work of the team, developing a team strategy to achieve the goal.	UK-3.1 Defines his role in the team based on the strategy of cooperation to achieve the goal;
		UK-3.2 Formulates and takes into account in its activities the peculiarities of the behavior of groups of people, identified depending on the goal;
		UK-3.3 Analyzes the possible consequences of personal actions and plans his actions to achieve the desired result;
		UK-3.4 Exchanges information, knowledge and experience with team members;
		UK -3.5 Argues his point of view regarding the use of the ideas of other team members to achieve the goal;
		UK -3.6 Participates in team work on the execution of assignments.
UK -8	The ability to create and maintain safe living conditions in everyday life and in professional activities for the preservation of the natural environment, ensuring the	UK-8.1 Analyzes the factors of harmful influence on the vital activity of elements of the habitat. (technical means, technological processes, materials, buildings and structures, natural and social phenomena);

	sustainable development of society, including in the event of a threat and occurrence of emergencies and military conflicts.	UK -8.2 Identifies dangerous and harmful factors within the scope of the task being performed;
		UK-8.3 Identifies and eliminates problems related to safety violations in the workplace;
		UK-8.4 Explains measures to prevent emergencies;
		UK -8.5 "Explains the rules of conduct in the event of emergencies of natural and man-made origin, as well as in the event of military conflicts;"
		UK-8.6 Provides first aid, participates in recovery activities.
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal organism.	GPC-2.1 Has knowledge of the influence of natural, socio-economic, genetic and economic factors on the animal body.
		GPC-2.2 He is able to establish the presence and reliability of cause-and-effect relationships between the effects of certain etiological factors on the animal's body and the development of diseases.
		GPC-2.3 Possesses methods of preventive and curative correction of the effects of adverse environmental factors that can cause deterioration of animal health.
GPC-3	The ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex.	GPC-3.1 He knows modern legal norms, both state and international, regulating activities in the field of veterinary medicine, veterinary and sanitary expertise and agro-industrial complex.
		GPC-3.2 Has the skills of updating legal information, including in the field of agro-industrial complex of professional orientation.
		GPC-3.3 Carries out activities in accordance with regulatory legal acts in the field of agriculture, as well as in the field of veterinary medicine and veterinary and sanitary expertise.
GPC -4	The ability to use methods of solving problems using modern equipment in the development of new technologies in professional activity and to use	GPC-4.1 Possesses the conceptual and methodological apparatus of basic natural sciences at a level sufficient for full-fledged professional activity at the modern level.

	modern professional methodology for conducting experimental research and interpreting their results.	<p>GPC-4.2 He knows the methods of solving problems using modern equipment.</p> <p>GPC-4.3 He is ready to use modern methodology in the development and conduct of experimental research.</p> <p>GPC-4.4 Uses modern professional methodology in interpreting research results.</p>
GPC -6	The ability to analyze, identify and assess the risk of the risk of the occurrence and spread of diseases.	<p>GPC-6.1 Has knowledge in the field of etiology and pathogenesis of animal diseases of different species.</p> <p>GPC-6.2 Has the skills to diagnose non-infectious, infectious and invasive diseases, identify pathogens of infectious and invasive diseases in animals.</p> <p>GPC-6.3 He knows the patterns of the occurrence and spread of diseases in animal populations, factors predisposing to diseases and the causes of possible complications.</p>
PC -15	Ability to organize preventive immunizations (vaccinations), therapeutic and preventive treatments of animals in accordance with the plan of anti-epizootic measures.	<p>PC-15.1 He is able to make individual and group plans of preventive immunizations (vaccinations) taking into account the epizootic situation in the territory of the animals' stay, the plan of anti-epizootic measures, as well as state and regional veterinary and sanitary rules and requirements.</p> <p>PC-15.2 He is able to organize therapeutic and preventive treatment of animals in accordance with the plan of anti-epizootic measures, as well as, if necessary, taking into account the real epizootic situation in the places where animals stay, including in conditions of agricultural production.</p>
PC -17	Ability to organize disinfection and disinfection of livestock premises to ensure veterinary and sanitary well-being in accordance with the plan of	PC-17.1 He is capable of collecting and analyzing information necessary for the organization and planning of veterinary and sanitary measures

	veterinary and sanitary measures	<p>PC-17.2 He is able to choose the optimal equipment, consumables and medicinal and disinfecting preparations necessary and safe enough for the conduct of veterinary and sanitary measures</p> <p>PC-17.3 He is able to determine the procedure for disinfection, disinsection, deratization and other veterinary and sanitary measures, taking into account the peculiarities of animal husbandry, technical characteristics of premises and epizootic situation</p> <p>PC-17.4 He is able to monitor the results of veterinary and sanitary measures</p>
PC -20	Ability to develop an annual plan of antiepzootic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures.	<p>PC-20.1 Able to conduct epizootological examination of the organization, territory.</p> <p>PC-20.2 He is able to develop an annual plan of antiepzootic and antiparasitic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures.</p> <p>PC-20.3 He is able to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them.</p>
PC -21	The ability to carry out inspections of the veterinary and sanitary condition and microclimate of livestock premises in accordance with the plan of antiepzootic measures, the plan of prevention of non-infectious animal diseases, the plan of veterinary and sanitary measures	<p>PC-21.1 He is able to detect deviations in the parameters of the microclimate in livestock premises from the normative</p> <p>PC-21.2 He is able to detect violations of the veterinary and sanitary condition of livestock premises, determine their cause and possible consequences</p> <p>PC-21.3 He is able to use the information obtained during the inspection of the veterinary and sanitary condition and microclimate of livestock premises for risk analysis of non-infectious, infectious and invasive diseases</p>

PC -22	Ability to organize measures to protect the organization from the introduction of infectious and invasive diseases in accordance with the plan of antiepidemiological measures.	PC -22.1 He is able to assess the epidemiological state of an organization (territory), identify risks and possible causes of epidemiological foci, as well as factors affecting their spread in specific organizations, territories.
		PC-22.2 Able to choose and apply the most effective measures to protect the organization from the introduction of infectious and invasive diseases.
		PC-22.3 He is able to carry out operational control of the effectiveness of the activities carried out.
PC -23	The ability to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them.	PC-23.1 He is capable of collecting and analyzing information, including veterinary statistics data, necessary to assess the effectiveness of preventive epidemiological measures, prevention of non-infectious animal diseases, veterinary and sanitary measures.
		PC-23.2 Able to evaluate the effectiveness of preventive measures and methods of their implementation, including using special software.
		PC -23.3 He is able to make suggestions on the correction of measures for the prevention of animal diseases on the basis of the analysis carried out.
PC -24	Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases.	PC-24.1 He is able to set goals in the field of veterinary knowledge promotion, plan the strategy and tactics of upcoming events.
		PC-24.2 He is able to use computer and telecommunication facilities for the preparation and demonstration of materials used in the process of promoting veterinary knowledge.
		PC-24.3 He is 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. COURSE IN HIGHER EDUCATION

The discipline " **Veterinary Sanitation** " refers to the mandatory part of block B1 of the Educational Program of Higher Education.

As part of the Educational Program of Higher Education, students also master other disciplines and /or practices that contribute to achieving the planned results of mastering the discipline " **Veterinary Sanitation** ".

Table 3.1. List of Higher Education Program components disciplines that contribute to expected learning outcomes

Competence code	Competence	Previous Disciplines (Modules)	Subsequent Disciplines (Modules)
UK -3	The ability to organize and manage the work of the team, developing a team strategy to achieve the goal.	Jurisprudence Life safety Operative surgery with topographic anatomy Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business Mathematics Fundamentals of rhetoric and communication Introduction to the specialty Fundamentals of Economics and Management	Veterinary deontology Fundamentals of intellectual work Personality psychology and professional self-determination Fundamentals of social and legal knowledge
UK -8	The ability to create and maintain safe living conditions in everyday life and in professional activities for the preservation of the natural environment,	History Inorganic and analytical chemistry Organic Chemistry Biological physics Physical and colloidal chemistry	Veterinary deontology Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision

	ensuring the sustainable development of society, including in the event of a threat and occurrence of emergencies and military conflicts.	Life safety Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Veterinary Radiobiology Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business General and veterinary ecology	
GPC-2	The ability to interpret and evaluate in professional activity the influence of natural, socio-economic, genetic and economic factors on the physiological state of the animal organism.	Biology with the basics of ecology Veterinary genetics Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Breeding with the basics of private animal husbandry Animal health and welfare Pathological physiology Veterinary Radiobiology Pathological anatomy Instrumental diagnostic methods Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary	Forage plants Zoopsychology Animal Health Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Veterinary Ophthalmology Animal Dentistry

		<p>surgery Parasitology and invasive diseases Epizootology and infectious diseases Forensic veterinary examination and autopsy of animals Immunology General and veterinary ecology</p>	
GPC-3	<p>The ability to carry out and improve professional activities in accordance with regulatory legal acts in the field of agro-industrial complex.</p>	<p>Jurisprudence Life safety Breeding with the basics of private animal husbandry Veterinary Pharmacology Toxicology Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business General and veterinary ecology</p>	<p>Technology of processing livestock products Veterinary deontology Economics and organization of agricultural production Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Veterinary and industrial laboratories with the basics of design Career Management Fundamentals of social and legal knowledge</p>
GPC -4	<p>The ability to use methods of solving problems using modern equipment in the development of new technologies in professional activity and to use modern professional methodology for conducting experimental research and interpreting their results.</p>	<p>Inorganic and analytical chemistry Organic Chemistry Biological physics Computer science Physical and colloidal chemistry Cytology, histology and embryology Biological chemistry Veterinary microbiology and mycology Virology and biotechnology Physiology and ethology of animals Breeding with the basics of private</p>	<p>Technology of processing livestock products Medicinal and poisonous plants Forage plants Fundamentals of intellectual work Personality psychology and professional self-determination Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Diseases of horses Diseases of productive animals</p>

		<p>animal husbandry Pathological physiology Veterinary Radiobiology Clinical diagnosis Pathological anatomy Operative surgery with topographic anatomy Instrumental diagnostic methods Toxicology Obstetrics, gynecology and andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Mathematics Immunology</p>	<p>Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry</p>
GPC -6	The ability to analyze, identify and assess the risk of the risk of the occurrence and spread of diseases.	<p>Biology with the basics of ecology Life safety Veterinary microbiology and mycology Virology and biotechnology Animal health and welfare Feeding animals with the basics of feed production Veterinary Radiobiology Clinical diagnosis Pathological anatomy Instrumental diagnostic methods</p>	<p>Technology of processing livestock products Medicinal and poisonous plants Forage plants Animal Health Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and</p>

		<p>Toxicology Obstetrics, gynecology and andrology Internal non- infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Forensic veterinary examination and autopsy of animals Introduction to the specialty General and veterinary ecology</p>	<p>entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, intensive care and intensive care Veterinary Ophthalmology Animal Dentistry</p>
PC -15	<p>Ability to organize preventive immunizations (vaccinations), therapeutic and preventive treatments of animals in accordance with the plan of antiepizootic measures.</p>	<p>Virology and biotechnology Parasitology and invasive diseases Epizootology and infectious diseases Immunology</p>	<p>Bee diseases and entomophages Fish pathology and aquaculture</p>
PC -17	<p>Ability to organize disinfection and disinfection of livestock premises to ensure veterinary and sanitary well-being in accordance with the plan of veterinary and sanitary measures</p>	<p>Inorganic and analytical chemistry Organic Chemistry Physical and colloidal chemistry Life safety Veterinary microbiology and mycology Virology and biotechnology Veterinary Pharmacology</p>	<p>Animal Health</p>
PC -20	<p>Ability to develop an annual plan of</p>	<p>Veterinary microbiology and</p>	<p>Economics and organization of</p>

	antiepizootic measures, a plan for the prevention of non-infectious animal diseases, a plan of veterinary and sanitary measures.	mycology Animal health and welfare Feeding animals with the basics of feed production Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Organization of veterinary business Fundamentals of Economics and Management	agricultural production Animal Health Bee diseases and entomophages Fish pathology and aquaculture
PC -21	The ability to carry out inspections of the veterinary and sanitary condition and microclimate of livestock premises in accordance with the plan of antiepizootic measures, the plan of prevention of non-infectious animal diseases, the plan of veterinary and sanitary measures	Veterinary microbiology and mycology Virology and biotechnology Animal health and welfare Veterinary Radiobiology	Animal Health
PC -22	Ability to organize measures to protect the organization from the introduction of infectious and invasive diseases in accordance with the plan of antiepizootic measures.	Life safety Veterinary microbiology and mycology Virology and biotechnology Animal health and welfare Veterinary Pharmacology Private Veterinary surgery Parasitology and invasive diseases	Technology of processing livestock products Animal Health Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Bee diseases and entomophages Fish pathology and aquaculture

		<p>Epizootology and infectious diseases Organization of veterinary business General and veterinary ecology</p>	
PC -23	<p>The ability to analyze the effectiveness of measures for the prevention of animal diseases in order to improve them.</p>	<p>Breeding with the basics of private animal husbandry Animal health and welfare Toxicology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Veterinary and sanitary examination Organization of veterinary business Forensic veterinary examination and autopsy of animals Fundamentals of Economics and Management</p>	<p>Economics and organization of agricultural production Animal Health Organization of state veterinary supervision Bee diseases and entomophages Fish pathology and aquaculture</p>
PC -24	<p>Ability and willingness to promote veterinary knowledge, including in the field of prevention of animal diseases.</p>	<p>Physiology and ethology of animals Breeding with the basics of private animal husbandry Animal health and welfare Feeding animals with the basics of feed production Pathological physiology Pathological anatomy Toxicology Obstetrics, gynecology and</p>	<p>Veterinary deontology Economics and organization of agricultural production Medicinal and poisonous plants Forage plants Zoopsychology Animal Health Diseases of horses Diseases of productive animals Diseases of small pets Diseases of small pets Bee diseases and entomophages Fish pathology and</p>

		andrology Internal non-infectious diseases General surgery Private Veterinary surgery Parasitology and invasive diseases Epizootology and infectious diseases Fundamentals of rhetoric and communication Introduction to the specialty General and veterinary ecology	aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Reconstructive and reconstructive surgery Veterinary Ophthalmology Animal Dentistry Foreign language for special purposes Russian for special purposes Foreign language. Translation of special texts Russian language. Translation of special texts Foreign language. Professional communications Russian language. Professional communications
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4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "**Veterinary Sanitation**" is 4 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			
			7	-	-	-
Contact academic hours		54	54	-	-	-
including						
Lectures		18	18	-	-	-
Lab work		36	36	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		82	82	-	-	-
Evaluation and assessment (exam/pass/fail grading)		8	8	-	-	-
Course workload	Academic hour	144	144	-	-	-

	Credit unit	4	4	-	-	-
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Table 4.2. Types of academic activities during the period of the HE program mastering for *part-time* study

Types of academic activities		HOURS	Semesters			
			8	-	-	-
Contact academic hours		18	18	-	-	-
including						
Lectures		-	-	-	-	-
Lab work		18	18	-	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		106	106	-	-	-
Evaluation and assessment (exam/pass/fail grading)		20	20	-	-	-
Course workload		Academic hour	144	144	-	-
		Credit unit	4	4	-	-

5. CONTENT OF THE DISCIPLINE

Table 5.1 Content of the discipline (module) by type of academic work

Name of the discipline section	Content of the section (topics)	Types of academic activities
Section 1. General and scientific foundations of veterinary sanitation.	Topic 1.1 Introduction to veterinary sanitation. Material and technical support.	Lectures, Lab work.
	Topic 1.2 Logistics.	Lectures, Lab work.
	Topic 1.3 General technology and mechanization of veterinary and sanitary measures.	Lectures, Lab work.
Section 2. Private and applied veterinary sanitation.	Topic 2.1 Disinfection. Disinsection. Deratization.	Lectures, Lab work.
	Topic 2.2 Veterinary sanitation of soil, air, water sources.	Lectures, Lab work.
	Topic 2.3 Decontamination and utilization of manure, animal waste.	Lectures, Lab work.

6. CLASSROOM INFRASTRUCTURE AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Material and technical support of the discipline

<i>Classroom for Academic Activity Type</i>	<i>Equipping the classroom</i>	Specialized educational/laboratory equipment, software and materials for the development of the discipline (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>Information stands.</i>
Laboratory	An auditorium for laboratory work, individual consultations, routine monitoring and interim certification, equipped with a set of specialized furniture and equipment.	- <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. RECOMMENDED SOURCES FOR COURSE STUDIES

Main reading:

1. Seregin Ivan Georgievich. Veterinary and sanitary examination of feed: a textbook / I.G. Seregin, M.F. Borovkov, E.A. Karelina. - Electronic text data. - St. Petersburg : Quadro, 2020. - 456 p.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=487543&idb=0
2. Veterinary sanitation : a textbook / A.A. Sidorchuk, V.L. Krupalnik, N.I. Popov [et al.]. - 2nd ed., revised. - St. Petersburg : Publishing House "Lan", 2018. - 368 p.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=466526&idb=0

Additional Reading:

1. Kuznetsov A.F., Rodin V. I., Svetlichkin V.V., Yaremchuk V.P. Workshop on veterinary sanitation, zoo hygiene and bioecology. - 1st ed. - St. Petersburg: Lan, 2013. - 512 p.
2. Volkov V.A. Theoretical foundations of environmental protection. - 1st ed. - St. Petersburg: Lan, 2015. - 256 p.
3. Tsyganova S.V. Disinfection, disinsection, deratization at poultry farms of industrial type. - Moscow: Aquarium-Print, 2012. - 274 p.

Resources of the Internet information and telecommunication network:

1. Electronic library system of RUDN and third-party Electronic library systems to which university students have access on the basis of concluded contracts:

- Electronic library system of RUDN - ELS RUDN <http://lib.rudn.ru/MegaPro/Web>
- ELS "University Library online" <http://www.biblioclub.ru>
- ELS Yurayt <http://www.biblio-online.ru>
- ELS "Student Consultant" www.studentlibrary.ru
- ELS "Lan" <http://eZlanbook.com/>
- ELS "Trinity Bridge" <http://www.trmost.com/>

2. Databases and search engines:

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

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

1. A course of lectures on the discipline " **Veterinary Sanitation** ".
2. Laboratory workshop on the discipline " **Veterinary Sanitation** ".

* - All educational and methodological materials for independent work of students are placed in accordance with the current procedure on the discipline page in the **Telecommunication educational and Information System!**

8. MID-TERM ASSESSMENT

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

* - Assessment Materials and a Point Rating System are formed based on the requirements of the relevant local regulatory act of the RUDN.

DEVELOPER:

Professor of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Makarov V.V.

Full name.

Associate Professor of the Department of Veterinary
Medicine

Position, Basic curriculum

Signature

Petrov A.K.

Full name.

HEAD OF THE DEPARTMENT:

Department of Veterinary Medicine

Name Basic Curriculum

Signature

Vatnikov Yu.A.

Full name.

HEAD OF THE HIGHER EDUCATION PROGRAM:

Director of the Department of Veterinary Medicine

Position, Basic curriculum

Signature

Vatnikov Yu.A.

Full name