

Документ подписан простой электронной подписью
Информация о владельце:
ФИО: Ястребов Олег Александрович
Должность: Ректор
Дата подписания: 09.06.2022 17:01:07
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

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

WORKING COURSE SYLLABUS

Veterinary and sanitary examination

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 and sanitary examination**» is to provide students with theoretical knowledge, practical skills and abilities on sanitary and hygienic control and rules of veterinary and sanitary evaluation of livestock and crop products, on the basis of technology and standardization in production.

2. REQUIREMENTS FOR THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "**Veterinary and sanitary examination**" 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-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of action.	UK-1.1 Analyzes the task, highlighting its basic components;
		UK-1.2 Defines and ranks the information required to solve the task;
		UK -1.3 Searches for information to solve the task by various types of queries;
		UK-1.4 Offers solutions to the problem, analyzes the possible consequences of their use;
		UK -1.5 Analyzes the ways of solving problems of a philosophical, moral and personal nature based on the use of basic philosophical ideas and categories in their historical development and socio-cultural
UK-10	The ability to make informed economic decisions in various areas of life	UK -10.1 Understands the basic principles of the functioning of the economy and economic development, the goals of the form of state participation in the economy;
		UK -10.2 Applies methods of personal economic and financial planning to achieve current and long-term financial goals;
		UK -10.3 Uses financial instruments to manage personal finances (personal budget), controls its own economic and financial risks.
GPC -5	The ability to draw up special documentation, analyze the results of professional activity and submit accounting	GPC-5.1 Has the skills to search for the necessary forms of documentation on official websites and in specialized databases.

	documents using specialized databases.	GPC-5.2 Possesses professional terminology and skills in filling out analytical and reporting documents of a professional orientation.
		GPC-5.3 He is able to use specialized software to analyze the results of professional activity and compile accounting documentation.
GPC -6	The ability to analyze, identify and assess the risk of the risk of the occurrence 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 Has the skills to diagnose non-infectious, infectious and invasive diseases, identify pathogens of infectious and invasive diseases in animals.
		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.
PC -19	The ability to perform post-mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death.	PC-19.1 Able to conduct a general examination of animal corpses before autopsy.
		PC-19.2 He is capable of performing autopsy of animal corpses using special tools and compliance with safety requirements.
		PC -19.3 He is able to establish the cause of death and a pathoanatomic diagnosis in accordance with generally accepted criteria and classifications, lists of animal diseases.
		PC-19.4 He is able to formalize the results of a postmortem diagnostic examination of an animal in the autopsy protocol.
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 antiepidemiological 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.
--	--	---

3. COURSE IN HIGHER EDUCATION

The discipline "**Veterinary and sanitary examination**" 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 and sanitary examination**".

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-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop a strategy of action.	History Philosophy Life safety Obstetrics, gynecology and andrology Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases Epizootology and infectious diseases	Organization of veterinary affairs Maths Fundamentals of Economics and Management Veterinary deontology The basics of intellectual work Zoopsychology Organization of state veterinary supervision Career management Space technologies at the service of the agro-industrial complex Reconstructive surgery
UK-10	The ability to make informed economic decisions in various areas of life	-	Organization of veterinary affairs Maths Fundamentals of Economics and Management Economics and organization of agricultural production Veterinary and industrial laboratories with design basics

GPC -5	The ability to draw up special documentation, analyze the results of professional activity and submit accounting documents using specialized databases.	<p>Veterinary genetics Computer science Breeding with the basics of private animal husbandry Clinical diagnostics Pathological anatomy Operative surgery with topographic anatomy Instrumental diagnostic methods Obstetrics, gynecology and andrology Internal diseases Parasitology and invasive diseases Epizootology and infectious diseases</p>	<p>Organization of veterinary affairs Forensic veterinary examination and dissection of animals Veterinary deontology Economics and organization of agricultural production Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Organization of state veterinary supervision Veterinary and industrial laboratories with design basics Anesthesiology, resuscitation and intensive care Dermatology Cardiology Endocrinology Nephrology</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 forage production Veterinary radiobiology Clinical diagnostics Pathological anatomy Instrumental diagnostic methods Toxicology</p>	<p>Organization of veterinary affairs Forensic veterinary examination and dissection of animals Introduction to the specialty General and Veterinary Ecology Veterinary sanitation Processing technology for livestock products Medicinal and poisonous plants Fodder plants Animal health and welfare Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases</p>

		<p>Obstetrics, gynecology and andrology Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases Epizootology and infectious diseases</p>	<p>Organization of state veterinary supervision Horse diseases Diseases of Productive Animals Diseases of small pets Болезни мелких домашних животных Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Anesthesiology, resuscitation and intensive care Veterinary ophthalmology Animal Dentistry</p>
PC -19	The ability to perform post-mortem diagnostic examination of animals in order to establish pathological processes, diseases, causes of death.	<p>Animal anatomy Cytology, Histology and Embryology Life safety Pathological anatomy Toxicology Obstetrics, gynecology and andrology Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases Epizootology and infectious diseases</p>	<p>Forensic veterinary examination and dissection of animals Clinical laboratory diagnostics Laboratory diagnostics of infectious and invasive diseases Horse diseases Diseases of Productive Animals Diseases of small pets Diseases of bees and entomophages Fish pathology and aquaculture Diseases of exotic animals Dermatology Cardiology Endocrinology Nephrology Veterinary ophthalmology Animal Dentistry</p>
PC -23	The ability to analyze the effectiveness of measures for the	Breeding with the basics of private animal husbandry	Organization of veterinary affairs

	prevention of animal diseases in order to improve them.	Animal health and welfare Toxicology Internal diseases General surgery Private Veterinary Surgery Parasitology and invasive diseases Epizootology and infectious diseases	Forensic veterinary examination and dissection of animals Fundamentals of Economics and Management Veterinary sanitation Economics and organization of agricultural production Здоровье и благополучие ЖИВОТНЫХ Organization of state veterinary supervision Diseases of bees and entomophages Fish pathology and aquaculture
--	---	--	--

4. COURSE WORKLOAD AND TRAINING ACTIVITIES

Course workload of the discipline "Veterinary and sanitary examination" is 6 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				
			8	9	-	-	
Contact academic hours		108	54	54	-	-	
including							
Lectures		36	18	18	-	-	
Lab work		72	36	36	-	-	
Seminars (workshops/tutorials)		-	-	-	-	-	
Self-study		90	44	46	-	-	
Evaluation and assessment (exam/pass/fail grading)		18	10	8	-	-	
Course workload		Academic hour.	216	108	108	-	-
		Credit unit	6	3	3	-	-

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	9	-	-

Contact academic hours		36	18	18	-	-
including						
Lectures		-	-	-	-	-
Lab work		36	18	18	-	-
Seminars (workshops/tutorials)		-	-	-	-	-
Self-study		160	44	116	-	-
Evaluation and assessment (exam/pass/fail grading)		20	10	10	-	-
Course workload	Academic hour	216	72	144	-	-
	Credit unit	6	2	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. Basics of veterinary and sanitary expertise.	Topic 1.1 Transportation of animals to slaughterhouses.	Lectures, Lab work.
	Topic 1.2 Pre-slaughter housing of animals and its importance.	Lectures, Lab work.
	Topic 1.3 Animal processing plants and veterinary and sanitary requirements for them.	Lectures, Lab work.
Section 2. Fundamentals of technology and hygiene of animal processing.	Topic 2.1 Fundamentals of technology and hygiene of animal processing.	Lectures, Lab work.
	Topic 2.2 Organization and methods of inspection of heads, carcasses and internal organs.	Lectures, Lab work.
	Topic 2.3 Meat changes due to improper storage.	Lectures, Lab work.
	Topic 2.4 Basics of technology and hygiene for preserving meat and meat products.	Lectures, Lab work.
	Topic 2.5 Basics of technology, hygiene and veterinary and sanitary expertise of sausages and ham products.	Lectures, Lab work.
	Topic 2.6 Basics of technology, hygiene of poultry processing and inspection methods of carcasses and internal organs.	Lectures, Lab work.
Section 3. Veterinary and sanitary examination of	Topic 3.1 Veterinary and sanitary examination of animal slaughter products for infectious diseases.	Lectures, Lab work.

meat, animal and plant products	Topic 3.2 Veterinary and sanitary examination of animal slaughter products for invasive diseases.	Lectures, Lab work.
	Topic 3.3 Sanitary and veterinary expertise of slaughter products for non-communicable diseases, animal poisoning, antibiotic treatment and radioactive substances.	Lectures, Lab work.
	Topic 3.4 Veterinary and sanitary examination of poultry, rabbits and nutria meat.	Lectures, Lab work.
	Theme 3.5 Veterinary and sanitary examination of eggs, fish and meat of wild animals.	Lectures, Lab work.
	Topic 3.6 Animal health expertise of meat, meat and other animal products, plant food products.	Lectures, Lab work.
	Topic 3.7 Animal health and sanitary examination of milk and dairy products.	Lectures, Lab work.
	Topic 3.8 Animal health and sanitary examination of honey.	Lectures, Lab work.
	Topic 3.9 Nutritional value of mushrooms and their classification.	Lectures, Lab work.
Section 4. Basics of technology and hygiene in the canning of meat and meat products.	Topic 4.1 Fundamentals of technology and hygiene in canning meat and meat products.	Lectures, Lab work.
	Topic 4.2 Preservation of meat and meat products at low temperature.	Lectures, Lab work.
	Topic 4.3 Preserving meat and meat products at high temperature.	Lectures, Lab work.
	Theme 4.4 Preserving meat by salting.	Lectures, Lab work.
	Topic 4.5 New methods of preserving meat.	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>	<i>Specialized educational/laboratory equipment, software and materials for the development of the discipline (if necessary)</i>
---	--------------------------------	--

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> - <i>Biological microscopes.</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> - <i>Biological microscopes.</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. The order of accounting and identification of animals on the territory of the Russian Federation : a training manual / Yu.A. Vatnikov, M.I. Shopinskaya, S.G. Drukovsky, E.V. Kulikov. - Electronic text data. - Moscow : RUDN, 2021: http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=494762&idb=0
2. Forensic veterinary and sanitary expertise / A.A. Kunakov, I.G. Seregin, G.A. Talanov, A.G. Zabashta; ed. by A.A. Kunakov. - Electronic text data. - Saint-Petersburg: Kvadro, 2020: http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=487541&idb=0
3. Veterinary and sanitary and commodity evaluation of beef with regard to the requirements of national and international legislation : a training manual / Yu Vatnikov, M.I. Shopinskaya, S.G. Drukovsky, E.V. Kulikov. - Electronic text data. - Moscow: RUDN, 2021. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=496461&idb=0

Additional Reading:

1. Seregin I.G., Borovikov M.F., Nikitchenko V.E. "Veterinary and sanitary expertise of food products in food markets" Study Guide. I: "Giard", 2005.
2. Pronin VV. Fisenko SP Veterinary and sanitary expertise with the basics of technology and standardization of livestock products. Practice [Electronic resource]: Textbook - 3rd ed. - SPb.: Publishing house "Lan", 2018. http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=464867&idb=0

3. Chepurnaya I.P. "Identification and adulteration of food products". Textbook. Moscow: "Dashkov and K", 2007.
4. Seregin I.G., Kalnitskaya O.I., Borovikov M.F. "Veterinary and sanitary examination of slaughter products of rabbits and nutria." Textbook . M: MHUPB, 2005.
5. RAGS - RUSSIAN ARCHIVE OF STATE STANDARDS, as well as construction norms and rules (SNiP) and samples of legal documents // <http://www.rags.ru> URL: <http://www.rags.ru> RUSSIAN ARCHIVE OF STATE STANDARDS (RASGS), SNiPs and samples of legal documents _ Website of RANEPА (RASGS, ANH)
6. Kunakov A.A., Seregin I.G., Talanov G.A., Zabolita A.G. Forensic veterinary and sanitary expertise. Textbook. - M: "KolosS", 2007.
7. Motovilov KY, Bulatov AP, Poznyakovskiy VM, Karmatskikh SA, Lantseva NN Expertise of fodder and feed additives. - 4th ed. - SPb.: Lan', 2013.
8. Mishanin Y.F. Ichthiopathology and veterinary and sanitary expertise of fish. - 1st ed. - St. Petersburg: Lan', 2012.
9. Urban VG Collection of normative legal documents on veterinary and sanitary examination of meat and meat products. - 1st ed. - St. Petersburg: Lan', 2010.
10. Pimenov M. Y. Honey. Merchandise characteristics and veterinary and sanitary expertise. Textbook. - M.: Aquarium-Print, 2015.

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 and sanitary examination**".
2. Laboratory workshop on the discipline "**Veterinary and sanitary examination**".

* - 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 and sanitary examination**" 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, Department of Veterinary Medicine

Position, Basic curriculum

Signature

Nikitchenko V.E.

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

Подпись

Vatnikov Yu.A.

Фамилия И.О.