

NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES
OF UKRAINE
Faculty of Veterinary Medicine
Department of Animal and Food Hygiene
named after Professor A.K. Skorokhodko



"APPROVED"

Mykola TSVILICHOVSKY

"APPROVED"


at the meeting of the Department of Veterinary Hygiene
named after Professor A.K. Skorokhodko

Protocol No 13 of May 30, 2024

Head of department  Viacheslav SOLOMON

"REVIEWED"

Guarantor of EP "Veterinary medicine"

 Nataliia HRUSHANSKA

CURRICULUM OF ACADEMIC DISCIPLINE

STATE VETERINARY AND SANITARY EXPERTISE

Field of knowledge 21 – "Veterinary Medicine"

Specialty __211 – "Veterinary Medicine"

Academic programme Veterinary Medicine

Faculty (Education and Research Institute) Veterinary Medicine

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Kyiv – 2024p.

Description of the discipline
State Veterinary and Sanitary Expertise
 (subject)

Academic degree, specialty, academic programme		
Academic degree	<i>master's</i>	
Specialty	<i>211 "Veterinary Medicine"</i>	
Academic programme	<i>Veterinary Medicine</i>	
Characteristics of the discipline		
Type	compulsory	
Total number of hours	120	
Number of ECTS credits	4	
Number of modules	2	
Course project (work) (if any)		
Form of assessment	<i>credit</i>	
Indicators of the discipline for full-time and part-time forms of university study		
	Full-time	Part-time
Year of study		
Semester		
Lectures	<i>15 hours</i>	<i>hours</i>
Practical classes and seminars	<i>hours</i>	<i>hours</i>
Laboratory classes	<i>15 hours</i>	<i>hours</i>
Self-study	<i>90 hours</i>	<i>hours</i>
Number of hours per week for full-time students	<i>2 hours</i>	

1. Aim, objectives, competences and expected learning outcomes of the discipline

Aim to develop the legislation and organizational structure of the State Veterinary Service of Ukraine at the enterprises of the meat, dairy and fishing industries, at the border and transport, objects and methods of state veterinary control.

Objectives to familiarize students with the veterinary legislation of Ukraine with the basics of deontology and jurisprudence in veterinary medicine, veterinary records management in the field of state veterinary supervision and control in order to guarantee the release of benign and safe products for the population and raw materials for industry; to exclude the likelihood of poisoning of people, animals with food products of animal origin; to prevent the distribution of animal products that have toxic, mutagenic, carcinogenic, allergenic or other adverse actions for the human body when consumed in

generally accepted quantities, the limits of which are established by the Ministry of Health of Ukraine

Acquisition of competences:

Integral competence (IC):

the ability to solve complex tasks and problems in the field of veterinary medicine, which involves conducting research and/or implementing innovations and is characterized by the uncertainty of conditions and requirements.

General competences (GC):

GC 3. knowledge and understanding of the subject field and profession. Special (professional) competences (SC):

SC 15. Ability to organize supervision and control of production, storage, transportation and sale of products of animal and plant origin.

SC 19. Ability to carry out educational activities among industry workers and the population.

SC 20. Ability to organize, implement and control document flow during professional activity.

Expected Learning Outcomes (ELO):

PNR 9. Develop measures aimed at protecting the population from diseases common to animals and humans.

PLU 12. Know the rules and legislative regulations regarding the supervision and control of production, storage, transportation and sale of products of animal and plant origin.

PLU 14. To understand the essence of the processes of production, storage and processing of biological raw materials.

2. Program and structure of the discipline for:

– full term of full-time education;

<i>Names of content modules and themes</i>	<i>Number of hours</i>						
	<i>Week</i>	<i>Total</i>	<i>including</i>				
			<i>lect</i>	<i>pract</i>	<i>lab</i>	<i>Ind</i>	<i>s.w.</i>
1	2	3	4	5	6	7	8
Content module 1. Determination of the subject. State veterinary and sanitary expertise in the transportation and processing of animals, food and feed of animal origin.							
Topic 1. The importance of State veterinary and sanitary expertise for obtaining high-quality and safe food and feed.	1	5	1				10
Topic 2. Theoretical backgrounds of approaches to food and feed safety control.	1	9	1		2		10

Topic 3. Approaches of regulation of food safety control in Ukraine and harmonization with EU requirements. General provisions of the legislation on food products	2-3	14	2		2		10
Topic 4. The basic principles of ensuring food safety and non hazardous factors are related to food.	4-5	13	2		2		10
Topic 5. Goals, methods and tools for modern food safety control. Application of European approaches	6-7	12	1		2		10
Topic 6. International impact on food legislation. Ways to strengthen the national food control system (systemic, organizational and individual level)	8-9	14	2		2		10
Total content module 1		79	9		10		60
Content module 2. State control of food market operators							
Topic 1. Risk analysis in the food chain. (Microbiological and chemical hazards)	10-12	14	2		2		10
Topic 2. Organization of state control.	12-14	14	2		2		10
Topic 3. Organic food production (general requirements, principles, certification and audit)	13-15	13	2		1		10
Total by content module 2		41	6		5		30
Total hours		120	15		15		

3. Topics of practical (laboratory) classes

№	Theme Title	Hours
1	General provisions of the legislation on food products	2
2	Safety systems as a means of monitoring food safety in the EU agri-food chain (HACCP principles, HACCP implementation and audit)	2

3	Capacity control measures. Inspection and audit.	2
4	Control of foreign substances in feed and pollutants in food products.	2
5	Application of the principles of state control to specific types of production (production and processing of milk, meat, eggs, feed)	4
6	Problems of the state control system in Ukraine	2
7	Presentation of students' research topics.	1

4. Topics of classes for independent work

№	Theme Title	Hours
1	Sanitary and hygienic and technological requirements for production workshops of slaughter and meat processing enterprises	10
2	Requirements for the transportation of slaughter animals	10
3	Modern technological schemes for the slaughter of productive animals	10
4	Organization of workplaces and methods of veterinary examination of slaughter products in a meat processing plant	10
5	Chemical and morphological composition of meat of productive animals	10
6	Veterinary and sanitary control of meat in contagious diseases of animals	10
7	Methods of veterinary and sanitary examination of milk and cheeses	10
8	Veterinary and sanitary control and examination of fish	10
9	Veterinary and sanitary examination of plant products	10

5. Tools for assessing expected learning outcomes:

- credit;
- module tests;
- graphic design works;

- presentation of laboratory and practical works;

6. Teaching methods:

- verbal method (lecture, discussion, interview, etc.);
- practical method (laboratory, practical classes);
- visual method (illustration, demonstration);
- processing learning resources (note-taking, summarising, reviewing, writing an abstract);
- video method (remote, multimedia, web-based, etc.);
- self-study (completing assignments);
- individual research work.

7. Assessment methods:

- credit;
- oral or written assessment;
- module tests;
- team projects;
- presentation of laboratory and practical works;
- presentations at academic events
- other types.

8. Distribution of points received by students

The assessment of students' knowledge and skills is conducted by means of a 100-point scale and is converted into national grades according to Table 1 of the current *Exam and Credit Regulations at NULES of Ukraine*.

Student's rating, points	National grading of exams and credits	
	exams	credits
90-100	excellent	pass
74-89	good	
60-73	satisfactorily	
0-59	unsatisfactorily	fail

To determine a student's rating in the discipline R_{DIS} (up to 100 points), the received assessment rating R_A (up to 30 points) is added to the academic performance rating R_{AP} (up to 70 points): $R_{DIS} = R_{AP} + R_A$.

9. Teaching and learning aids

- e-learning course of the discipline
(<https://elearn.nubip.edu.ua/course/view.php?id=1971>);
- lectures and presentations (in electronic form);

- textbooks, manuals, tutorials;
- guidelines for studying a discipline by full-time and part-time students.

10. Recommended sources of information

1. O.M. Yakubchak, A.I. Tyutyun, T.V. Taran, S.A. Tkachuk, A.I. Kobysh, R.I. Bilyk, N.A. Mezhenka State Veterinary and Sanitary Supervision and Control in processing of raw materials of animal origin / Methodical instructions for the study of the discipline "State Veterinary and Sanitary Expertise" for masters, postgraduates and students of the Institute of Postgraduate Education. Specialty 8.11010101 – "Veterinary Medicine", K., 2015, 29 p.

2. Law of Ukraine "On Veterinary Medicine" dated 16.11.2006 No 361-V.

3. Law of Ukraine "On liability of enterprises, institutions and organizations for violation of the legislation on veterinary medicine" dated 05.12.1996 No 569/96-BP

4. Law of Ukraine "On Food Safety and Quality" dated 06.09.2005 No2809-IV.

5. Instruction on the procedure for removal from sale (confiscation) of food, chemical and radioactive substances, biological materials, approved by the Order of the Ministry of Health of Ukraine dated April 14, 2005 No. 68 and registered with the Ministry of Justice of Ukraine on November 21, 2005 under No. 416/952. 5. Legislation of Ukraine on veterinary medicine / Edited by prof. Dostoevsky P.P. and prof. Khomenko V.I. - K.: "Harvest. - 1999.-590 cc

6. O.M. Yakubchak, V.I. Khomenko, S.D. Melnychuk, etc. Veterinary and sanitary expertise with the basics of technology and standardization of livestock products. - Kyiv, LLC." Bioprom". – 2005.- 799s.

7. O.M.Yakubchak, A.I.Tyutyun State Veterinary and Sanitary Expertise: [Textbook, second edition (supplemented)] / Uk. O.M.Yakubchak, A.I.Tyutyun. – K.:CPU "Comprint", 2017 –267 p.

8. Mandatory minimum list of studies of raw materials, products of animal and vegetable origin, feed raw materials, feed, vitamin preparations, etc., which should be carried out in state laboratories of veterinary medicine and according to the results of which a veterinary certificate (f-2) is issued, approved by the Order of the State Department of Veterinary Medicine of Ukraine dated 03.11.98 No. 16 and registered with the Ministry of Justice of Ukraine on November 30, 2018 under No. 761/3201 (as amended by the State Department of Veterinary Medicine dated 18.11.2003 No87 and registered with the Ministry of Justice of Ukraine on 28.04.2004 under No549/9148, as amended by the Order of the State Department of Veterinary Medicine of 27.09.2004 No. 107 and registered on 04.10.2004 under No. 1249/9848).

9. Veterinary requirements for imports into Ukraine objects of state veterinary and sanitary control and supervision, approved by the Order of the State Department of Veterinary Medicine of 16.06.2004 No. 71 and registered with the Ministry of Justice of Ukraine on 23.06.2004 under No. 768/9367.

10.Vlasenko V.V., Kravtsiv R.Y., Khomenko V.I., etc. Veterinary and sanitary examination of raw materials and products of animal origin. Edited by prof. Vlasenko V.V. – Vinnytsia.-1999.-509 p.

11.Makarov V.A., Frolov V.P., Shuklin N.F. Veterinary and sanitary expertise with the basics of technology and standardization of food tummy. Pod ed. V.A.Makarova. - M.: "Agro-industrial", 1991.- 463 p., il.

12.Makarov V.A. Vetsanekspertyza syshchevyh food on the pages and in the hosiaystva. The worker. – M.: "Kolos"-2000.306 p.

13.V.I.Khomenko, V.Ya.Shablyi, N.K.Velvet, etc. Businessman for veterinary and sanitation experiments of squeaky food tummy. Pod ed. V.I.Khomenko K.: "Harvest".-1989.-352 p.

14.Rules of veterinary and sanitary examination of milk and dairy products and requirements for their implementation of 20.04.2004 Order No. 49. 6. Resolution of the Cabinet of Ministers of Ukraine of June 14, 2002. No. 833 "On approval of the Procedure for selection of samples of animal, vegetable and biotechnological products for research".

15.State hygienic standards "Permissible levels of radionuclide content ^{137}Cs and ^{90}Sr in food and drinking water", approved by the Chief State Sanitary Doctor of Ukraine on June 25, 1997.

16.Directive EU (96/23/EC) of April 29, 1996, on mayors on the control of otdelnyh veschestva and their final sodержaniya in not clogged live and products of the viviparous proishozhdeniya, directives 85/187/EEC and 86/469/EEC and Adopted 89/187/EEC and 91/664/EEC.

17.The plan of state monitoring of residual amounts of toxicants in animal products for 2003, approved by the Order of the Chief State Inspector of Veterinary Medicine of Ukraine dated 16.10.02 No. 65.

18."Permissible doses, concentrations, quantities and levels of pesticide content in agricultural raw materials, food products, working area air, atmospheric air, water reservoirs, soil" DSanPiN 8.8.1.2.3.4-000-2001.

19."Hygienic trebovaniya bezpasnost and pischevy tsinnosty syshchevyh grocery" SanPiN 2.3.2.1078-01, Russia.

20.State sanitary rules and regulations for enterprises and vessels producing products from fish and other aquatic living resources of 06.05.2003 Order No. 197

21.<https://dpss.gov.ua/publicnainformaciya/zakonodavstvo>

22.<https://dpss.gov.ua/diyalnist/normativnopravovabaza>