

EDUCATIONAL COMPONENT SYLLABUS



FORENSIC VETERINARY MEDICINE

specialty	211 – Veterinary medicine	the obligation of discipline	main
educational program	Veterinary medicine	faculty	veterinary medicine
educational level	master	chair	normal and pathological morphology

TEACHER

YATSENKO IVAN VOLODYMYROVYCH



Higher education – specialty “Veterinary Medicine”.

Scientific degree – Doctor of Veterinary Sciences in specialty 16.00.02 – pathology, oncology and morphology of animals.

Academic title – professor.

Work experience – 28 years.

Indicators of professional activity on the subject of the course:

- author of 450 scientific papers, 9 monographs;
- author of 5 textbooks, 2 atlases, 2 reference books, 50 teaching aids;
- experience of scientific work at the National Scientific Center “Institute of Forensic Expertise named after Honored Professor M. S. Bokarius”) from 2017 to the present;
- co-author of 15 publications in Web of Science and Scopus publications
 - • participant in numerous scientific and methodological conferences.

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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Goal	formation of professional knowledge and skills regarding theoretical and organizational and methodological support for conducting forensic veterinary examinations with the registration of research results.
Format	lectures, laboratory classes, independent work, individual assignments, tests.
Detailing of learning outcomes and forms of their control	<ul style="list-style-type: none">• ability to abstract thinking, analysis and synthesis, apply knowledge in practical situations (GC1, GC2, PLO3, PLO13) / test work;• ability to understand modern scientific data and capabilities of forensic veterinary examination; know and competently use professional terminology (GC2, GC7, SC5, PLO 1, PLO 7, PLO 13) / test work;• ability to organize forensic veterinary examination (GC2 GC6, SC14, PLO13) / test work;• ability to use regulatory legal acts and regulatory and technical documents in forensic expert activities (GC7, SC14, PLO1, PLO13) / test work;• ability to use the latest achievements of forensic veterinary examination to formalize its (GC9, SC14, PLO1, PLO13) / test work;• ability to organize, implement and control document flow during professional activities (GC1, GC2, PLO1, PLO13) / test work;• ability to apply methods and techniques of forensic veterinary research (GC1, GC7, SC5, SC6, SC14, PLO1, PLO13) / control at the LPP, test work, exam;; types of control (oral interview, written interview, test work);• ability to understand the logical sequence of actions and be able to draw up appropriate documentation during forensic veterinary examination (GC1, GC2, GC7, SC14, PLO1, PLO13)/ test work;• ability to understand and apply in forensic expert activities the norms and rules of professional ethics, deontology, confidentiality in the work of a forensic expert (GC1, GC10, SC14, PLO13) / test work;• ability to conduct research at the appropriate level, apply knowledge in practical situations, use tools, special devices for conducting special research while performing professional tasks (GC2, GC7, PLO1, PLO7) / test work;• possess moral and deontological principles in communicating with law enforcement agencies, interested persons (GC1, PLO1, PLO13)/ test work.;• ability to carry out educational activities among industry workers, the population, law enforcement agencies in order to inform about the latest opportunities in forensic veterinary examination (GC10, PLO1, PLO7) / test work.
Scope and forms of control	4 ECTS credits (120 hours): 30 hours of lectures, 30 hours of laboratory classes; 60 hours of independent studies, current control (2 chapters); final control – credit.
Teacher requirements	timely completion of tasks, activity, teamwork.
Enrollment conditions	"free enrollment".

COMPLIANCE WITH THE EDUCATION STANDARD AND EDUCATIONAL PROGRAM

Competencies:

GC 1. Ability to abstract thinking, analysis and synthesis.
 GC 2. Ability to apply knowledge in practical situations.
 GC7. Ability to conduct research at the appropriate level.
 GC9. Ability to make informed decisions.
 GC 10. Ability to communicate with representatives of other professional groups of different levels (with experts in other fields of knowledge/types of economic activity).
 SC5. Ability to apply methods and techniques of pathological and anatomical diagnosis of animal diseases to establish the final diagnosis and causes of their death.
 SC6. Ability to select, pack, fix and send samples of biological material for laboratory research.
 SC14. Ability to conduct forensic veterinary examination.

Program learning outcomes:

PRN1. Know and use terminology correctly.
 PRN3. To determine the essence of physicochemical and biological processes that occur in the body of animals in normal and pathological conditions.
 PRN7. To formulate conclusions on the effectiveness of the selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-communicable diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species.
 PRN13. Understand the logical sequence of actions and be able to draw up the appropriate documentation during the forensic veterinary examination.

STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1. ORGANIZATIONAL AND LEGAL BASIS OF FORENSIC VETERINARY EXAMINATION IN UKRAINE. FORENSIC VETERINARY EXAMINATION OF LIVE ANIMALS, FORENSIC VETERINARY THANATOLOGY, TRAUMATOLOGY AND TOXICOLOGY

Lectures		Laboratory classes (LC)		Independent work (SR)	
Lecture 1.	Organizational and legal foundations of forensic veterinary examination in Ukraine.	LC 1	Procedure for the appointment and rules for the preparation, conduct and registration of materials for forensic veterinary examination (research).	SR 1	History of the formation, development and current state of forensic veterinary examination.
Lecture 2.				SR 2	Sample documents in forensic veterinary examination.

	Forensic veterinary examination of live animals.	LC 2	Forensic veterinary determination of the severity of damage caused to the animal's health.	SR 3	General tasks of forensic veterinary examination.
		LC 3	Forensic veterinary definition of animal mutilation.	SR 4	Research, verification and evaluation of the conclusion of a forensic veterinary expert.
Lecture 3.	The study of dying and death. Forensic veterinary assessment of cadaveric phenomena (forensic veterinary thanatology).	LC 4	Methodology for examining the scene of an incident and the corpse of an animal at the scene of an incident.	SR 5	Forensic veterinary diagnostics and assessment of damage caused to the health of an animal due to changes in atmospheric pressure, radiation damage.
Lecture 4.	Forensic veterinary examination of sudden death, exhumed and dismembered corpses, as well as corpses of newborn animals.	LC 5	Procedure for conducting a forensic veterinary examination of animal corpses in the section hall of a specialized expert institution and drawing up a conclusion of a forensic veterinary expert based on the results of the examination of the corpse.	SR 6	Forensic veterinary characteristics of fractures, fracture-dislocations, dislocations and subluxations of bones of the animal skeleton, which are classified as serious bodily injuries.
Lecture 5.	General forensic veterinary traumatology.	LC 6		SR 7	Forensic veterinary criteria for injuries that penetrate the body cavities of an animal.
Lecture 6.	Forensic veterinary examination of blunt force injuries.	LC 7	Forensic veterinary diagnostics and assessment of damage caused to the health of an animal by blunt objects	SR 8	Forensic veterinary characteristics and diagnostics of animal poisoning with anticoagulant rodenticides.
Lecture 7.	Forensic veterinary examination for blunt force injuries.	LC 8	Forensic veterinary diagnostics and assessment of damage caused to the health of an animal due to thermal injuries and electric shock.		
Lecture 8.	Forensic veterinary examination for sharp force injuries.	LC 9	Forensic veterinary diagnostics and assessment of damage caused to the health of an animal due to gunshot injuries and explosive trauma.		

Lecture 9.	Forensic veterinary examination for gunshot injuries.	LC 10	Forensic veterinary diagnostics and assessment of damage caused to the health of an animal in cases of mechanical asphyxia.		
Lecture 10.	General forensic veterinary toxicology. Forensic veterinary diagnostics and assessment of individual poisonings.	LC 11	Forensic veterinary diagnostics and assessment of damage caused to animal health due to individual poisonings.		

Chapter 2. FORENSIC VETERINARY EXAMINATION IN CASE OF DISEASES AND DEATH OF ANIMALS DUE TO VIOLATIONS IN THEIR FEEDING, CONDITIONS OF KEEPING AND OPERATION; REGARDING DEFECTS IN THE PROVISION OF VETERINARY CARE AND THE ORGANIZATION AND IMPLEMENTATION OF VETERINARY SANITARY MEASURES; MATERIAL EVIDENCE OF ANIMAL ORIGIN

Lecture 11.	Forensic veterinary examination in case of diseases and death of animals due to violations of their feeding.	LC 12	Methods of forensic veterinary detection of damage caused to the health of animals as a result of violations of their feeding, maintenance, care, and operation.	SR 9	Clinical manifestations and pathomorphological changes in animals with certain microelementosis and hypovitaminosis.
Lecture 12	Forensic veterinary examination in case of diseases and death of animals due to violations of their maintenance and exploitation, regarding cruel treatment.	LC 13	Forensic veterinary examination of defects in the provision of veterinary care	SR 10	Clinical manifestations and pathomorphological changes in animals with diseases of the digestive system that occur in case of feeding disorders.
Lecture 13.	Forensic veterinary examination of defects in the provision of veterinary care	LC 14	Forensic veterinary examination of defects in the organization and conduct of veterinary and sanitary measures. Methods of forensic veterinary examination of blood	SR 11	Clinical manifestation and pathomorphological changes in animals with respiratory diseases that occur in case of violation of the conditions of their maintenance and operation.

Lecture 14.	Forensic veterinary examination of defects in the organization and conduct of veterinary and sanitary measures.	LC 15	Forensic veterinary examination of defects in the organization and conduct of veterinary and sanitary measures. Methods of forensic veterinary examination of blood	SR 12	Clinical manifestation and pathomorphological changes in animals with diseases of the musculoskeletal system that occur in case of violation of the conditions of their maintenance and operation
Lecture 15.	Forensic veterinary examination of material evidence of animal origin.			SR 13	Forensic veterinary examination of catatrauma, automobile and railway trauma, sudden death.
				SR 14	Forensic veterinary characteristics of feed poisoning

BASIC LITERATURE AND METHODOLOGICAL MATERIALS:

1. Pathological anatomy of animals / P.P. Urbanovich, M.K. Pototsky, I.I. Gevkan and others. – Kyiv: Vetinform, 2008. – 836 p.
2. Pathological anatomy of animals: a textbook / Zon G.A., Skrypka M.V., Ivanovska L.B. – Donetsk: P.P. Glazunov R.O. – 2009. – p.189
3. Pathological anatomy of animals. Part 1: Textbook / B.V. Borysevich, V.V. Lisova, K.A. Chumakov. – Kyiv: Agrar Media Group, 2020. – 418 p.
4. Pathological anatomy of animals. Part 2: Textbook / B.V. Borysevich, V.V. Lisova, K.A. Chumakov. – Kyiv: Agrar Media Group, 2020. – 449 p.
5. On forensic examination: Law of Ukraine. Bulletin of the Verkhovna Rada of Ukraine (VVR), 1994, No. 28, p. 232. URL: <https://zakon.rada.gov.ua/laws/show/4038-12#Text>.
6. Instructions on the appointment and conduct of forensic examinations. Approved by the order of the Ministry of Justice of Ukraine dated 08.10.1998 No. 53/5 (as amended by the order of the Ministry of Justice of Ukraine [від 26.12.2012 № 1950/5](#)). URL: <https://zakon.rada.gov.ua/laws/show/z0705-98#Text>.
7. Criminal Procedure Code of Ukraine: Law of Ukraine No. 4651-VI. URL: <https://zakon.rada.gov.ua/laws/show/4651-17#Text>.
8. Civil Procedure Code of Ukraine: Law of Ukraine dated 18.03.2004 No. 1618-IV. URL: <https://zakon.rada.gov.ua/laws/show/1618-15#Text>.
9. Commercial Procedure Code of Ukraine: Law of Ukraine dated 06.11.1991 No. 1798-XII. URL: <https://zakon.rada.gov.ua/laws/show/1798-12#Text>.

10. Yatsenko I. V. The subject of forensic veterinary examination and its significance in the theory and practice of forensic examination. *Scientific Bulletin of the Uzhhorod National University*. 2022. Provo Series. Issue 73, Part 2. Pp. 154-173. DOI: [10.24144/2307-3322.2022.73.55](https://doi.org/10.24144/2307-3322.2022.73.55).
- Yatsenko I. Principles of forensic expert activities in Ukraine and their implementation in forensic veterinary research. *Archives of Criminology and Forensic Sciences*. 2022. № 1 (5). C. 115–142. DOI: [10.32353/acfs.3.2021.0](https://doi.org/10.32353/acfs.3.2021.0).
12. Yatsenko I., Simakova-Efremyan E., Derecha L. Forensic examination methods and their application in forensic veterinary research. Theory and practice of forensic examination and forensics: collection of scientific works. Kharkiv: National Scientific Center "ISE named after Honored Professor M. S. Bokarius". 2021. Issue 2(24). P. 52–76. DOI: 10.32353/khrife.2.2021.04.
13. Yatsenko I. V. Legal status of a forensic veterinary expert as a subject of forensic activity in the context of the latest legislation of Ukraine. Theory and practice of forensic examination and forensics. 2022. Issue 4 (29). P. 68–109. DOI: 10.32353/khrife.4.2022.04.
14. Yatsenko I. V., Derecha L. M., Parylovskiy O. I. Peculiarities of the structure of the conclusion of a forensic veterinary expert based on the results of the examination of an animal corpse with signs of violent death. Theory and practice of forensic examination and criminalistics: collection of scientific works. Kharkiv: Pravo, 2020. Issue 21. P. 615–639. DOI: 10.32353/khrife.1.2020.44.
15. Yatsenko I. V. Tasks of forensic veterinary examination: theoretical and praxeological problems and ways to solve them. *Forum Prava*. 2023. Issue 74, No. 1. P. 68–81. DOI: DOI: 10.5281/zenodo.7319900.
16. Yatsenko I. Problems of concluding an expert opinion based on the results of a forensic veterinary examination of a live animal and ways to solve them. *Law. Human. Environment*. 2022. Vol. 13, No. 4. Pp. 71–88. DOI: 10.31548/law2022.04.008.13 (4).
17. Yatsenko I. Theoretical justification and praxeological significance of the stages of expert research of a living animal. *Law. Human. Environment*. 2023. Vol. 14. No. 1. Pp. 107–131. DOI: 10.31548/law/1.2023.107.
18. Yatsenko I. V. Theoretical and epistemological construction of the phenomenon of the severity of harm caused to the health of an animal in forensic veterinary examination. *Forum of Law*. 2023. Issue 75. No. 2. 65–88 DOI: <http://doi.org/10.5281/zenodo.7699531>.
19. Yatsenko I. V. Legal status and epistemological characteristics of objects of forensic veterinary examination. Theory and practice of forensic examination and criminalistics. 2023. Issue 2 (31). P. 63–102. DOI: 10.32353/khrife.2.2023.05. Yatsenko I. Epistemological construction doctrine of the veterinary care defect phenomenon in forensic veterinary examination. *Law. Human. Environment*. 2023. Vol. 14, No. 3. Pp. 115–132. DOI: 10.31548/law/3.2023.115.
- Yatsenko I. Methodology of forensic veterinary examination to determine defects in veterinary care. Theory and practice of forensic examination and criminalistics. 2023. Issue 4 (33). Pp. 57–86. DOI: 10.32353/khrife.4.2023.05.

GRADING SYSTEM

	SYSTEM	POINTS	ACTIVITY THAT IS ASSESSED
Final evaluation	100 ECTS points (standard)	up to 50	50% of the average grade for chapters
		up to 50	final testing

Rating of section	100-point total	up to 60	answers to test questions
		up to 20	the result of performing tasks on cytological diagnostics during laboratory classes
		up to 10	oral answers in laboratory classes
		up to 10	result of mastering the independent work block

NORMS OF ACADEMIC ETHICS AND INTEGRITY

All participants in the educational process (including students) must adhere to the code of academic integrity and the requirements stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of DBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.