

SYLLABUS OF THE EDUCATIONAL COMPONENT



VETERINARY PREVENTIVE MEASURES FOR EMERGENT ZOOSES

specialty	211 Veterinary medicine	mandatory discipline	selective
educational program	«Veterinary medicine»	faculty	veterinary medicine
educational level	Master's degree	department	Epizootology and microbiology

TEACHER

Severin Raisa Vasiliivna



Higher education – master of veterinary medicine

Scientific degree - candidate of veterinary sciences, specialty 16.00.03 – veterinary microbiology, virology, epizootology, mycology and immunology, doctor of philosophy

Academic title - associate professor of epizootology and microbiology department

Work experience - 41 years

Indicators of professional activity on the subject of the course:

- author and co-author of about 55 scientific publications;
- co-author of 2 electronic textbooks;
- co-author of more than 55 methodological instructions for laboratory, practical works;
- experience of scientific work of 21 years;
- Research internship at the National Scientific Center "Institute of Experimental and Clinical Veterinary Medicine", Kharkiv; International under qualification Lublin (Republic of Poland 2023).
- participant of scientific and methodical conferences.

phone	0661430276	e-mail	Raisa.severin2018@gmail.com	remote support	Moodle
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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Aim	Acquiring skills in forecasting, recognizing threats, identifying causes, differential diagnosis, and developing measures for the prevention, response, and elimination of emerging, especially dangerous animal diseases.
Form	lectures, laboratory classes, independent work, individual tasks.
Scope and forms of control	3 ECTS credits (90 hours): 14 hours of lectures, 30 hours of laboratory classes; 46 hours of independent work, current control (2 chapters); final control - differentiated assessment.
Requirements of the teacher	timely completion of tasks, activity, teamwork
Enrollment conditions	according to the curriculum

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competencies	GC 1. Ability to abstract thinking, analysis and synthesis. GC 2. Ability to apply knowledge in practical situations. GC 7. Ability to conduct research at an appropriate level. GC 8. Ability to learn and master modern knowledge. GC 9. Ability to make informed decisions. GC 10. Ability to communicate with representatives of other professional groups of different levels (with experts of other fields of knowledge/types of economic activity). GC 11. The ability to evaluate and ensure the quality of the work performed. SC2. The ability to use tools, special devices, devices, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities. SC 4. The ability to conduct clinical research in order to formulate conclusions about the condition of animals or establish a diagnosis. SC 6. Ability to select, pack, fix and send samples of biological material for laboratory research. SC 7. Ability to organize and conduct laboratory and special diagnostic studies and analyse their results. SC 8. Ability to plan, organize and implement measures for the treatment of animals of various classes and species suffering from non-contagious, infectious and invasive diseases SC 13. The ability to develop strategies for the prevention of diseases of various etiologies	Program learning outcomes	PLO 1. Know and correctly use the terminology of veterinary medicine PLO 2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies PLO 3. Determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathological conditions PLO 6. Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies PLO 7. Formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-contagious diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species PLO 9. Develop measures aimed at protecting the population from diseases common to animals and humans. PRN19. Carry out educational activities among industry workers and the population.
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STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1.

Emerging animal diseases: international monitoring and forecasting. Vesicular syndrome animal diseases.

Lecture 1	The concept of the structure of the international epizootic bureau and its main priorities. Risk assessment and introduction of dangerous infectious diseases into the territory of Ukraine.	LC 1.	Diagnosis of bovine herpesvirus mammitis	Independent work	1.Differential diagnosis of foot-and-mouth disease. 2.Differential diagnosis of vesicular diseases of animals.
Lecture 2	Foot-and-mouth disease	LC 2.	Diagnosis of vesicular diseases of animals		
		LC 3.	Diagnosis of nodular dermatitis		

Chapter 2.

Emerging and transboundary diseases of cattle and small cattle.

Lecture 3	Schmallenberg's disease	LC 4.	Diagnosis of bluetongue	Independent work	1. Modern methods of differential diagnosis of rinderpest 2. Differential diagnosis of contagious pleuropneumonia of cattle. 1.Methods for differential diagnosis of ASF. 2. Differential diagnosis of highly pathogenic avian influenza, Newcastle disease
Lecture 4	Rift Valley Fever	LC 5.	Diagnosis of peste des petits ruminants		
Lecture 5	African swine fever	LC 6.	Diagnosis of sheep and goat pox		
Lecture 6	Avian influenza	LC 7.	Diagnosis of Spongiform Encephalopathy		
		LC 8.	Diagnosis of Newcastle disease.		
		LC 9.	Basics of stamping out		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Literature	1.Price E. O. Predation. infectious diseases and parasites. 2022/ https://doi.org/10.1079/9780851995977.01 2.Infectious Diseases of Wild Mammals Iowa State University Press / Ames Edited by Elizabeth S. Williams and Ian K. Barker THIRD EDITION. 2001. https://onlinelibrary.wiley.com/doi/pdf/10.1002/9780470344880.fmatter 3. Cojocar V.-G., Migot T., Jaber A. Controlling infection in predator-prey systems with transmission dynamics. Elsevier, 2020. https://s100.copyright.com/AppDispatchServlet?publisherName=ELS&contentID=S2468042719300429&orderBeanReset=true	Methodical support	ELECTRONIC RESOURCES - www.consumer.gov.ua; - http://www.who.int/en/; - http://www.oie.int/; - http://vetlabresearch.gov.ua/; - http://www.biocontrol.com.ua/; - http://ivm.kiev.ua/golovna.html; - www.iso.org; - www.nbuv.gov.ua; - http://vet.in.ua/;
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EVALUATION SYSTEM

System		Score	ACTIVITY TO BE EVALUATED
Final assessment (differentiated credit, exam)	100-point ECTS (standard)	до 100	40% – final testing, 60% – student’s ongoing work during the semester
Final assessment (non-graded)	100-point ECTS (standard)	до 100	100% – averaged score for all course sections
Section Assessment	Cumulative 100-point scale	до 30	30% – answers to test questions
		до 30	30% – performance on the independent study block
		до 40	40% – student activity during classes (oral responses)

NORMS OF ACADEMIC ETHICS AND CHARITY

All participants in the educational process (including those seeking education) must adhere to the code of academic integrity and the requirements prescribed in the provision "On academic integrity of participants in the educational process of DBTU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.