SYLLABUS OF THE EDUCATIONAL COMPONENT

VETERINARY PREVENTIVE MEASURES FOR EMERGENT ZOONOSES

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 Vasilivna

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.**

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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.**

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. Cojocaru V.-G., Migot T., Jaber A. Controlling infection in predator-prey systems with transmission dinamics. 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/;**

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.