

SYLLABUS OF THE EDUCATIONAL COMPONENT



VETERINARY MYCOLOGY

speciality	211 – Veterinary Medicine	Discipline status	selective
Field of knowledge	ветеринарна медицина	Faculty	Veterinary Medicine
educational level	Not limited	department	Department of epizootology and microbiology

TEACHER

Harahulya Halina



Higher education - veterinary medicine specialty

Scientific degree - candidate of veterinary sciences, specialty 16.00.03-veterinary microbiology, virology and immunology

Academic title - associate professor

Work experience - 24 years

Indicators of professional activity on the subject of the course:

- author of 12 methodological developments;
- 22 years of experience in scientific work;
- participant of scientific and methodical conferences.

Tel.	0661333555	e-mail	vetvir.galina@gmail.com	remote support	Moodle
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Candidates of veterinary sciences, Basko Sabina, are involved in the teaching of the discipline

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)

The purpose of the discipline	<p>"Veterinary mycology" is formation of students' competences in mastering the methods of conducting laboratory diagnostics, in relation to the detection of pathogens of infectious diseases in the sent samples. Acquaintance with the causative agents of infectious diseases, the ability to identify and differentiate causative agents of infectious diseases, to determine the morphological, physiological, antigenic and pathogenic properties of causative agents; analyze the pathogenesis of infectious diseases, the epizootic situation and apply diagnostic and treatment-prophylactic means, make a reliable diagnosis and the ability to use means for specific treatment and prevention</p>
Format	<p>lectures, practical employment (occupations), self-contained work of students, consultations.</p>
Detailing of learning results and forms of their control	<ul style="list-style-type: none"> • the ability to observe the rules of personal safety when researching animals, using knowledge about their fixation, follow the rules of personal hygiene, use the rules of asepsis and antiseptics when carrying out any intervention or research • the ability to conduct research at an appropriate level, apply knowledge in practical situations, use tools, special devices for carrying out special manipulations during the performance of professional tasks • ability to carry out vaccination by enteral and parenteral methods • understand and find out the specifics of conducting clinical research in order to form conclusions about the condition of the animal and establish the effectiveness of vaccination • ability to abstract thinking, analysis, synthesis, search, processing of information from various sources
Scope and forms of control	<p>3 ECTS credits (90 hours): 14 hours of lectures, 16 hours of laboratory-practical classes; 60 hours of self-study, modular control (2 modules); final control - differentiated assessment.</p>
The teacher's requirements	<p>timely completion of tasks, activity, teamwork</p>
Enrollment conditions	<p>"free enrollment"</p>

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competences	<ol style="list-style-type: none"> 1. Ability to think abstractly, analyze and synthesize, search, process information from various sources. 2. Ability to apply knowledge in practical situations. 3. The ability to conduct research at the appropriate level, make informed decisions, evaluate and ensure the quality of the work performed. 4. The ability to understand and find out the peculiarities of the structure and functioning of cells, 	Program learning outcomes	<ol style="list-style-type: none"> 1. PRN 7. Collect anamnestic data during registration and examination of animals, find solutions regarding the choice of effective methods of prevention of animal diseases. 2. PRN 8. Explain the essence and dynamics of the development of physiological processes that occur in the body of animals under the influence of environmental factors and the action of infectious
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tissues, organs, their systems and apparatuses of the animal body.

5. The ability to observe the rules of safety, asepsis and antiseptics during professional activities.

7. The ability to conduct clinical research in order to formulate conclusions about the condition of animals or establish a diagnosis.

8. Ability to develop prevention strategies.

9. The ability to carry out professional activities within the chosen specialization.

10. Ability to plan, organize and implement measures for the treatment of diseases of small animals.

agents.

STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

Chapter 1 Theoretical foundations of veterinary mycology

Lecture 1	Introduction to mycology.	Practical classes 1 (PC 1)	Mycology Lab Practices and Safety Rules. Direct t examination of mycosis specimens	Independent work	Evolution, morphology, physiology, ecology of fungi.
Lecture 2	Ecology and classification of fungi.				
Lecture 3	Diagnosis of mycosis	PC 2	Collection, handling and processing of clinical mycology specimens		
		PC 3	Staining a fungal specimen. Slide Culture and Lactophenol Cotton Blue Staining		
		PC 4	Fungal Culturing		
		PC 5	Serological tests in mycology. Antifungal susceptibility testing		

Модуль 2. Оцінка ефективності вакцинопрофілактики у ветеринарній медицині

Lecture 4-6	Animal and human mycoses	PC 6-7	Animal mycoses	Independent work	Tropical mycosis
		PC 8	Human mycoses		
		PC 9	Final class. Test		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

1. Indranil S. Veterinary mycologi. – Springer, 2013.
2. Emerging and Epizootic Fungal Infections in Animals / Editors: Seyedmojtaba, Seyedmousavi, G. Sybren de Hoog, Jacques Guillot, Paul E. Verweij. – 2018.
3. Fungal Diseases in Animals: From Infections to Prevention / Editors: Arti Gupta, Nagendra Pratap Singh. – 2021.

Electronic information resources

<https://www.amazon.co.uk/Veterinary-Mycology-S-K-Singh-ebook/dp/B07FKVNCWD>
<https://veteriankey.com/introduction-to-veterinary-mycology/>
<https://www.youtube.com/watch?v=T3LMxOmuXcM>
<https://www.amazon.in/Laboratory-Veterinary-Microbial-Biotechnology-Immunology/dp/9388317580>
<https://www.youtube.com/watch?v=Wiu9pBBv-Ps>
<https://www.youtube.com/watch?v=EJPxhDsKPbo>
<https://www.youtube.com/watch?v=CAzoq8wFf5I>
<https://www.youtube.com/watch?v=T3LMxOmuXcM&t=6s>

EVALUATION SYSTEM

	System	points	ACTIVITY TO BE EVALUATED
Final assessment	100 ECTS points (standard)	up to 50	50% of the average grade for the modules
		up to 50	final testing
Modular assessment	100 points total	up to 50	answers to test questions
		up to 20	oral answers in laboratory-practical classes
		up to 30	the result of mastering the block of independent work

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