

SYLLABUS OF THE EDUCATIONAL COMPONENT



VETERINARY MYCOLOGY

speciality	211 – Veterinary Medicine	Discipline status	selective
Field of knowledge	ветеринарна медицина	Faculty	Veterinary Medicine
educational level	Master's degree	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.

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Candidates of veterinary sciences, Basko Sabina, are involved in the teaching of the discipline

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

The purpose of the discipline	"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
Format	lectures, practical employment (occupations), self-contained work of students, consultations.
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	3 ECTS credits (90 hours): 14 hours of lectures, 16 hours of laboratory-practical classes; 60 hours of self-study, current control (2 chapters); final control - differentiated assessment.
The teacher's requirements	timely completion of tasks, activity, teamwork
Enrollment conditions	"free enrollment"

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competences	<p>GC1. Ability to abstract thinking, analysis and synthesis.</p> <p>GC 2. Ability to apply knowledge in practical situations.</p> <p>GC 3. Knowledge and understanding of the subject field and profession.</p> <p>SC 2. The ability to use tools, special devices, devices, laboratory equipment and other technical means to carry out the necessary manipulations during professional activity.</p> <p>SC 3. Ability to observe the rules of labor protection, asepsis and antiseptics during professional activity.</p> <p>SC 6. The ability to select, pack, fix and send samples of biological material for laboratory research.</p> <p>SC 7. Ability to organize and conduct laboratory and special diagnostic studies and analyze their results.</p> <p>SC 11. Ability to apply knowledge of biosafety, bioethics and animal welfare in professional activities.</p> <p>SC 16. The ability to protect the environment from pollution by livestock waste, as well as materials and means of veterinary use.</p>	Program learning outcomes (PLO)	<p>PLO 1. Know and correctly use the terminology of veterinary medicine.</p> <p>PLO 2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies.</p>
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STRUCTURE OF THE EDUCATIONAL COMPONENT

Chapter 1 Theoretical foundations of veterinary mycology

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

Chapter 2. Special mycology

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

	<ol style="list-style-type: none"> Indranil S. Veterinary mycologi. – Springer, 2013. Emerging and Epizootic Fungal Infections in Animals / Editors: <u>Seyedmojtaba, Seyedmousavi, G. Sybren de Hoog, Jacques Guillot, Paul E. Verweij.</u> – 2018. Fungal Diseases in Animals: From Infections to Prevention / Editors: <u>Arti Gupta, Nagendra Pratap Singh.</u> – 2021. 		<p>Electronic information resources</p> <p>https://www.amazon.co.uk/Veterinary-Mycology-S-K-Singh-ebook/dp/B07FKVNCWD</p> <p>https://veteriankey.com/introduction-to-veterinary-mycology/</p> <p>https://www.youtube.com/watch?v=T3LMxOmuXcM</p> <p>https://www.amazon.in/Laboratory-Veterinary-Microbial-Biotechnology-Immunology/dp/9388317580</p> <p>https://www.youtube.com/watch?v=Wiu9pBBv-Ps</p> <p>https://www.youtube.com/watch?v=EJPxhDsKPbo</p> <p>https://www.youtube.com/watch?v=CAzoq8wFf5I</p> <p>https://www.youtube.com/watch?v=T3LMxOmuXcM&t=6s</p>

EVALUATION SYSTEM

SYSTEM		POINTS	ACTIVITY THAT IS ASSESSED
Final assessment (different)	100 ECTS points (standard)	up to 100	40 % - Final testing

credit, exam)Final evaluation			60 % - student's current work during the semester
Final assessment (non-differential credit)	100 points ECTS (standard)	up to 100	100 % - average grade for sections
Rating of section	100 points total	up to 30	30 % - answers to test questions
		up to 30	30 % - the result of mastering the block of independent work
		up to 40	40 % - student activity in class (oral answers)

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 SBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.