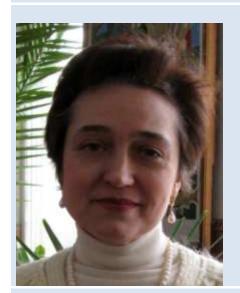




VACCINOLOGY IN VETERINARY MEDICINE

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
		TFACHER	

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

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	"Vaccinology in veterinary medicine" is to provide students with the necessary theoretical knowledge about vaccines, their types and properties, as well as practical skills in the selection and use of vaccines for the specific prevention of viral, bacterial and fungal diseases of animals of various species.
Format	lectures, practical employment (occupations), self-contained work of students, consultations.
Detailing of learning results and forms of their control	 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): 12 hours of lectures, 18 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	GC1. Ability to think abstractly, analyze and synthesize. GC2. Ability to apply knowledge in practical situations. GC3. Knowledge and understanding of the subject area and profession. SC6. Ability to select, package, fix and ship samples of biological material for laboratory research. SK 7. Ability to organize and conduct laboratory and special diagnostic tests and analyze their results.	Program learning outcomes	PLO1. Know and correctly use the terminology of veterinary medicine. PLO2. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies.
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Chapter 1. Theoretical foundations of veterinary vaccinology
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chapter in incorection roundations of veterinary vaccinology					
Lecture 1	Introduction to vaccinology.	Practical	Safety techniques when		Essay on the history of
Lecture 2	Immunological basis of	classes 1	working in a microbiological		vaccinology (the topic chosen by
	vaccinology in veterinary	(PC 1)	laboratory.		the student).
	medicine: immune response and		Methods of obtaining bacteria	ork	Methods of inactivation in the
	immunological memory.		as vaccine antigens.	t W	development of vaccines.
Lecture 3	Types of vaccines and their	PC 2	Methods of obtaining bacterial	den	Attenuation methods in the
	features		exotoxins and endotoxins.	pen	development of vaccines.
		PC 3	Methods of obtaining viral	Indep	Genetic and molecular methods of
			antigens (cultivation,	=	obtaining vaccine antigens.
			accumulation and storage).		Fundamentals of the rules of
			3-7		transportation, storage and use
					of vaccines.
Chanter 2 Evaluation of the effectiveness of vaccine prophylaxis in veterinary medicine					

Chapter 2. Evaluation of the effectiveness of vaccine prophylaxis in veterinary medicine

Lecture 4	Requirements for vaccines and methods of assessment of the main indicators of their quality.	PC 4	Types of vaccines for various farm and domestic animals.		Comparative characteristics of bacterial veterinary vaccines. Comparative characteristics of
Lecture 5	Basic methodological approaches to the use of vaccines.	PC 5	Methods of using vaccines.	ž	viral veterinary vaccines. Examples of vaccine prophylaxis schemes of a certain species of
Lecture 6	Causes of complications and ineffectiveness of vaccine prophylaxis.	PC 6	Laboratory methods of studying the properties of vaccines.	Independent work	animals (the topic of the student's choice). Types of other
		PC 7	Vaccination of various types of animals.	Directions for the dev of new immune drugs non-infectious disease (probiotics, allergy va	Directions for the development
		PC 8	Obtaining and using non- vaccine types of immunological drugs.		of new immune drugs against non-infectious diseases (probiotics, allergy vaccines, against autoimmune diseases)
		PC 9	Final class. Test		g,

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Methodological materials

Veterinary Vaccines: Principles and Applications / Edited by Samia Metwally, Ahmed El Idrissi. // Ahmed El Idrissi, 2021. – 442p.

Vaccinology: An Essential Guide / Editor(s): Gregg N. Milligan
PhD. Alan D.T. Barrett PhD // First published:5 December

Vaccinology: An Essential Guide / Editor(s): Gregg N. Milligan PhD,, Alan D.T. Barrett PhD // First published:5 December 2014. Print ISBN:9780470656167 | Online ISBN:9781118638033 | DOI:10.1002/9781118638033. The Vaccine Book / Edited by Barry R. Bloom, Paul-Henri Lambert. - Second Edition. - Academic Press is an imprint of Elsevier. - 2016. - 610p.

Electronic information resources

- 1. https://www.voutube.com/watch?v=o55r09egthg
- 2. https://www.youtube.com/watch?v=EjmOYv9hr3w
- 3. https://www.youtube.com/watch?v=QypCN2ENmqE
- 4. https://www.voutube.com/watch?v=vlRRODY7CrM
- 5. https://www.youtube.com/watch?v=r4-Y81aJhso

EVALUATION SYSTEM							
SYSTEM			ACTIVITY THAT IS ASSESSED				
Final assessment (different	100 ECTS points (standard)	up to 100	40 % - Final testing				
credit, exam)Final evaluation	100 EC15 points (standard)		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				
	100 points total	up to 30	30 % - answers to test questions				
Rating of section		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.

Literature