SYLLABUS OF THE EDUCATIONAL COMPONENT



METHODS OF LABORATORY CLINICAL DIAGNOSIS OF ANIMAL DISEASES

211 Veterinary medicine	mandatory discipline	optional
«Veterinary medicine»	faculty	veterinary medicine
Master's degree	department	internal diseases and clinical diagnosis of animals
	«Veterinary medicine»	«Veterinary medicine» faculty

TEACHER

Vikulina Galina Viktorivna



Higher education – master of veterinary medicine, master of higher education pedagogy, master of philology Scientific degree - candidate of veterinary sciences, specialty 16.00.01 - diagnosis and therapy of animals, doctor of philosophy

Academic title - associate professor

Work experience - 16 years

Indicators of professional activity on the subject of the course:

- author and co-author of about 60 scientific publications;
- co-author of the textbook "Veterinary Clinical Biochemistry" (2010)
- experience of scientific work of 19 years;
- participant of scientific and methodical conferences.

phone	0509125876	e-mail	vgv.14.vet@gmail.com	remote support	Moodle

		GENERAL II	NFORMATION	N ABOUT	THE EDUCAT	TONAL COM	PONEN	IT
Aim		formation of students' competencies to conduct and analyze laboratory and special diagnostic studies of biological fluids of animals of various species, to make informed decisions and evaluate the condition of animals according to laboratory indicators, to ensure the quality of laboratory studies.						
Form		lectures, pactical classes, independent work, individual tasks						
Detailing of lea and forms of the	-	 Know and correctly use the terminology of veterinary medicine (PRN1) / individual and practical classes. Determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathologica conditions (PRN3) / individual and practical classes To establish a connection between the clinical manifestations of the disease and the results of laboratory studies (PRN / individual and practical classes 					e body of animals in normal and pathological	
Scope and form	ns of control	3 ECTS credits (90 hours): 18 hours of lectures, 36 hours of laboratory classes; 36 hours of independent work, current control (chapters); final control - differentiated assessment.					rs of independent work, current control (3	
Requirements	of the teacher	timely completion of t	asks, activity, to	eamwork				
Enrollment cor	ditions	according to the curric	ulum					
		COMPLEMENTS THE	STANDARD	OF EDUCA	TION AND T	HE EDUCATI	ONAL	PROGRAM
Competencies	ZK7. Abili ZK8. Abili ZK9. Abili SK1. The functionin apparatus mammals SK2. The a equipmer necessary SK6. Abili material f	cy to apply knowledge in practical situations. Ty to conduct research at an appropriate level. Ty to learn and master modern knowledge. Ty to make informed decisions. Tability to establish the features of the structure and ag of cells, tissues, organs, their systems and body es of animals of various classes and species - To birds, insects (bees), fish and other vertebrates. Tability to use tools, special devices, devices, laboratory and other technical means to carry out the manipulations during professional activities. Ty to select, pack, fix and send samples of biological or laboratory research. Ty to organize and conduct laboratory and special estudies and analyse their results.		Program learning outcomes	medicine PRN3. Do processe patholog PRN5. manifest studies			
			RUCTURE OF					
Lecture 1	Clinical laborate veterinary media	ory diagnostics in cine	LPC 1	modern equipment laboratory indicate Clinical and bioche		Methodology for determining the content of laboratory indicators		
Lecture 2	•	ditions and their clinical				Clinical and biochemical assessment of metabolic disorders in the animal body		
Lecture 3	Animal endocrin		LPC 2	Methods of evaluating the results of clinical and biochemical research				
				DC 2		scarcii	_	

Planning of laboratory studies of various

LPC 3

Clinical and biochemical constellations

Lecture 4

! d 1!		high sign fluids / English dia - f		
in the diagnosis of animal diseases		biological fluids/ Examination of effusions, synovial fluid, cerebrospinal fluid and tissue samples		
Laboratory examination of urine	LPC 4	Clinical and laboratory assessment of the animal's condition in case of shock, collapse, dehydration, ketoacidosis. Clinical and laboratory assessment of the condition of the animal in case of poisoning. Clinical and laboratory evaluation of the animal's condition in case of cardiovascular, respiratory, renal insufficiency and hepatic coma.		
Laboratory profiles of small animal diseases	LPC 5	Interaction between the nervous and endocrine systems. Releasing factors: liberins and statins. Causes of endocrinopathies		
Exotic animal laboratory diagnosis	LPC 6	Clinical biochemistry during dysfunction of the internal secretion of the pancreas, thyroid gland, adrenal glands, hypothalamus and pituitary gland.		
	LPC 7	Establishing the diagnostic value of laboratory tests. Diagnostic constellations of blood and urine laboratory parameters		
	LPC 8	Functional renal tests. Abnormalities in urine chemistry		
	LPC 9	Diagnosis by laboratory findings in small animals		
	LPC 10	Diagnosis by clinical signs and dynamic testing in small animals. Laboratory profiles of diseases of small animals		
	LPC 11	Interpretation of results from clinical pathologic testing of ferrets, rabbits, hystricomorph rodents, rats and mice. Interpretation of results from clinical pathologic testing of birds		
	LPC 12	Interpretation of results from clinical pathologic testing of snakes, lizards, amphibians, fish		
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Kaneko J., Harvey J., Bruss M. Clinical Biochemistry of Domestic Animals, 6th Edition. – Academic Press, 2008. – 928 p.

Squires E.James. Applied animal endocrinology. - CABI Publishing, 2003. - 252 p.

Atlas of comparative diagnostic and experimental hematology / Clifford Smith and Alfred Jarecki; foreword by Harold Tvedten. – 2nd ed. 142 p. David L. Panciera, Anthony P. Carr. Endocrinology for the small animal practioner. – Teton NeewMedia, 2005. – 195 p.

Kerr M.G. Veterinary laboratory medicine: clinical biochemistry and haematology. – John Wiley & Sons, 2008. – 386 p.

Harvey J.W. et al. Clinical biochemistry of pregnant and nursing mares //Veterinary clinical pathology. – 2005. – T. 34. – №. 3. – C. 248-254.

Kramer J.W., Hoffmann W.E. Clinical enzymology //Clinical biochemistry of domestic animals. – Academic Press, 1997. – C. 303-325.

Radostits O.M. et al. Veterinary clinical examination and diagnosis. – WB Saunders, 2000.

Newsholme, E. A. Functional biochemistry in health and disease / Eric Arthur Newsholme and Tony R. Leech, 2010. – 561 p.

Rosenthal, Miriam D. Miriam D. Rosenthal and Robert H. Glew. Medical biochemistry: Human metabolism in health and disease, 2009. – 439 p.

N. Mallikarjuna Rao. Medical Biochemistry. – New Age International Publishers, 2006. – 838 p.

ELECTRONIC RESOURCES

http://moodle.btu.kharkiv.ua/course/view.php?id=425

Methodical support

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	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)		
NORMA OF A CARDINAL PRINCIPLE OF AND INVESTIGATION					

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.