SYLLABUS OF THE EDUCATIONAL COMPONENT



Methods of laboratory clinical diagnosis of animal diseases

specialty	211 Veterinary medicine	mandatory discipline	optional
educational program	«Veterinary medicine»	faculty	veterinary medicine
educational level	master	department	internal diseases and clinical diagnosis of
			animals

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.

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GENERAL INECRMATION AROLIT THE EDUCATIONAL COMPONENT (DISCIDINE)									
Aim	G.	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 th	_	 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 pathological conditions (PRN3) / individual and practical classes To establish a connection between the clinical manifestations of the disease and the results of laboratory studies (P / individual and practical classes 					e body of animals in normal and pathological		
Scope and forn	ns of control	3 ECTS credits (90 hou modules); final contro	•			oratory classes;	46 hou	rs of independent work, modular control (3	
Requirements	of the teacher	timely completion of t	asks, activity, to	eamwork					
Enrollment con	ditions	according to the curric	culum						
COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM									
Competencies	ZK7. Abili ZK8. Abili ZK9. Abili SK1. The functionin apparatus mammals SK2. The a equipmer necessary SK6. Abili material f	Ility to apply knowledge in practical situations. Ility to conduct research at an appropriate level. Ility to learn and master modern knowledge. Ility to make informed decisions. It ability to establish the features of the structure and sing of cells, tissues, organs, their systems and body uses of animals of various classes and species - Ils, birds, insects (bees), fish and other vertebrates. It ability to use tools, special devices, devices, laboratory ent and other technical means to carry out the ry manipulations during professional activities. Ility to select, pack, fix and send samples of biological for laboratory research. Ility to organize and conduct laboratory and special tic studies and analyse their results.			Program learning outcomes	medicine PRN3. De processes pathologi PRN5. T	PRN3. Determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathological conditions PRN5. To establish a connection between the clinical manifestations of the disease and the results of laboratory		
STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)									
Lecture 1	veterinary medi-		LPC 1	Organization of laboratory work and its modern equipment Methodology for determination laboratory indicators					
Lecture 2	Emergency cone and biochemica	litions and their clinical assessment					Independent work	Clinical and biochemical assessment of metabolic disorders in the animal body	
Lecture 3	Animal endocrin	nology	LPC 2	Methods of evaluating the results of clinical and biochemical research					

Lecture 4	Clinical and biochemical constellations in the diagnosis of animal diseases	LPC 3	Planning of laboratory studies of various biological fluids			
Lecture 5	Laboratory examination of urine	LPC 4	Examination of effusions, synovial fluid, cerebrospinal fluid and tissue samples			
Lecture 6	Laboratory profiles of small animal diseases	LPC 5	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.			
Lecture 7	Exotic animal laboratory diagnosis	LPC 6	Interaction between the nervous and endocrine systems. Releasing factors: liberins and statins. Causes of endocrinopathies			
		LPC 7	Clinical biochemistry during dysfunction of the internal secretion of the pancreas, thyroid gland, adrenal glands, hypothalamus and pituitary gland.			
		LPC 8	Establishing the diagnostic value of laboratory tests. Diagnostic constellations of blood and urine laboratory parameters			
		LPC 9	Functional renal tests			
		LPC 10	Abnormalities in urine chemistry			
		LPC 11	Diagnosis by laboratory findings in small animals			
		LPC 12	Diagnosis by clinical signs and dynamic testing in small animals			
		LPC 13	Laboratory profiles of diseases of small animals			
		LPC 14	Interpretation of results from clinical pathologic testing of ferrets, rabbits, hystricomorph rodents, rats and mice			
		LPC 15	Interpretation of results from clinical pathologic testing of birds			
	BASIC LITERATURE AND METHODOLOGICAL MATER					

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. -N. 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			ACTIVITY TO BE EVALUATED			
Final assessment 100 point ECTS (standard)		to 100	50 % - final testing 50 % - current work of the student			
Modular assessment	100 points total	to 70	answers to test questions			
		to 20	independent work			
		to 10	student activity in classes			

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.