EDUCATIONAL COMPONENT SYLLABUS



CLINICAL DIAGNOSIS OF ANIMAL DISEASES

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

TEACHER

Vikulina Galina Viktorivna



Higher education – Master of Veterinary Medicine, Master of Higher Education Pedagogy Scientific degree - Candidate of Veterinary Sciences in specialty 16.00.01 - diagnostics and therapy of animals, Doctor of Philosophy

Academic title – associate professor

Work experience – 15 years

Indicators of professional activity on the course topic:

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

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GE	NERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)				
Aim	to study of clinical examination methods used in the diagnosis of diseases of different etiology - internal, surgical, gynecological, infectious, parasitic, and is therefore the basis of all subsequent clinical subjects: internal diseases, obstetrics, surgery, epizootology and parasitology.				
Form	lectures, laboratory classes, practical classes, independent work, individual assignments.				
Detailing of learning outcomes and forms of their control	 Know and correctly use the terminology of veterinary medicine (PLO1) / individual and laboratory classes. Use information from domestic and foreign sources to develop diagnostic, treatment, and business strategies (PLO2) / individual and laboratory classes. Determine the essence of physicochemical and biological processes that occur in the animal body in normal and pathological conditions (PLO3) / individual and laboratory classes. Establish a connection between the clinical manifestations of the disease and the results of laboratory tests (PLO5) / individual and laboratory classes. 				
Scope and forms of control	10 ECTS credits (300 hours): 30 hours of lectures, 122 hours of laboratory and practical classes; 90 hours of independent work, ongoing control; final control – exam, course work.				
Teacher requirements	timely completion of tasks, activity, teamwork				
Enrollment conditions	according to the curriculum				
	COMPLEMENTARY EDUCATION STANDARDS AND CURRICULUM				

Competencies	GC1. Ability to think abstractly, analyze and synthesize.					
	GC2. Ability to apply knowledge in practical situations.					
	GC7. Ability to conduct research at the appropriate level.					
	GC8. Ability to learn and master modern knowledge.					
	GC9. Ability to make informed decisions.					
	GC11. Ability to evaluate and ensure the quality of work					
	performed.					
	SC1. Ability to establish the features of the structure and					

and functioning of cells, tissues, organs, their systems and apparatuses of the animal body of different classes and species - mammals, birds, insects (bees), fish and other vertebrates.

SC2. Ability to use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities.

SC6. Ability to select, pack, fix and send samples of biological material for laboratory research.

SC7. 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

PLO4. Collect anamnestic data during registration and examination of animals, make decisions regarding the choice of effective methods of diagnosis, treatment and prevention of animal diseases

PLO5. To establish a connection between the clinical manifestations of the disease and the results of laboratory studies

	STRUCTURE OF THE EDUCATIONAL COMPONENT						
			pter 1 General diagnosis				
Topic 1	Clinical diagnostics as a science, its purpose and tasks at the current level of animal husbandry development	LPC 1	Security and personal hygiene in the studied animals	ıt work	Features of the study of small pets. Rash. Pathological changes of the skin and subcutaneous tissue; name the elements of		
Topic 2	Recognition of the disease and prediction of its course and end	LPC 2-3 LPC 4-5	Plan and methods of clinical examination of animals Definition of animal habitus and skin research	Independent work	primary and secondary rashes and pathological changes of the skin and give them a clinical description. Physiological indicators of body temperature		
Topic 3	Study of the habitus and skin of animals	LPC 6-7 LPC 8-9	Examination of visible mucous membranes and lymph nodes Determination of basic physiological parameters in animals	I	in different species of animals. Thermometry and its importance in veterinary diagnostics. Fever		
Topic 4	Thermometry and fever		•				
_		Chapter 2 Exan	nination of the cardiovascular system				
Topic 5	Study of the cardiovascular system and its importance in assessing the state of the animal body	LPC 10	Determining the boundaries of the heart and the study of heartbeat	ıt work	Topography of the heart (its boundaries) in different species of animals and methods of their determination.		
Topic 6	Study of heart murmurs	LPC 11-12 LPC 13-14	Examination of heart tones Detection of heart murmurs and their diagnostic evaluation	Independent work	Heart murmurs are their characteristics The main syndromes of cardiovascular insufficiency.		
Topic 7	ECG, arrhythmias of the heart	LPC 15	Research of arterial pulse and blood vessels Electrocardiography	Ind	Classification of cardiac arrhythmias (list all arrhythmias depending on the violation of basic heart functions)		
Topic 8	Examination of blood vessels. Functional diagnosis of the cardiovascular system	LPC 17	Functional diagnosis of the heart		Functional tests and their practical use. Laboratory methods for diagnosing heart disease		
		Chapter 3 Exa	amination of the respiratory system				
Topic 9	Research of respiratory movements and upper respiratory tract	LPC 18	Examination of respiratory movements in animals	nt work	The main syndromes of pathology of the respiratory system		
Topic 10	Chest examination	LPC 19-20	Examination of the upper respiratory tract		Pathological rhythms of respiration and their clinical evaluation.		
Topic 11	Auscultation of the lungs	LPC 21-22	Examination of the chest and determination of the physical condition of the lungs	Independer	Classification of respiratory noises. Pathological respiratory noises at bronchitis, pneumonias and pleurisies their clinical		
		LPC 23-24	Clinical evaluation of primary and secondary respiratory noises		characteristics.		
	LPC 25 Plegaphony, thoracentesis, sputum examination						
Chapter 4 Examination of digestive system							

Topic 12	The value of the study of the digestive system	LPC 26-27	Examination of feed and water intake	vork	The main syndromes in pathology of the digestive system.		
Topic 13	Examination of the oral cavity, pharynx and oesophagus, pancreas	LPC 28	Examination of rumen and reticulum in ruminants	Independent work	Reticulitis tests. Classification of colic in horses.		
Topic 14	Study of a single-chamber stomach in animals	LPC 29	Research of omasum, abomasum and intestines in ruminants	lepend	Scheme of fecal examination and basic indicators in healthy animals		
Topic 15	Examination of the intestine and the act of defecation in animals	LPC 30-31	Research of stomach and intestines in horses, pigs, dogs	Ind	The main syndromes in liver disease.		
Topic 16	Liver examination	LPC 32	Animal intubation				
		LPC 33-34	Liver examination. Rectal examination of animals				
		LPC 35	Examination of the act of defecation and feces				
		Chapter 5 E	xamination of the urinary system				
Topic 17	Clinical significance of the study of	LPC 36-37	Examination of the kidneys, ureters,	농담	Indicators of urinary frequency and urine		
	urinary organs in animals		urinary tract and urethra	ndent work	output.		
		LPC 38	Urine tests)en	Features of the study of horse urine.		
				Independent work	The scheme of the study of urine and the main indicators in healthy animals. The main syndromes of lesions of the urinary system.		
Chapter 6 Blood system research. Diagnosis of metabolic disorders							
Topic 18	The value of hematological studies in	LPC 39	Determination of ESR, hemoglobin		Physiological properties of blood and their		
	the diagnosis of animal diseases and		and erythrocytes	№	clinical significance.		
	in assessing the state of natural			nt v	Evaluation of clinical blood test results based		
	resistance			de	on research results		
Topic 19	Morphological examination of blood	LPC 40	Determination of the number of leukocytes. Derivation of the	Independent work	Evaluation of indicators of biochemical analysis of blood according to research		
			leukogram	Ϊ́	results.		
Topic 20	Examination of hematopoiesis	LPC 41-42	Determination of biochemical parameters of blood		The main clinical syndromes of metabolic diseases.		
Topic 21	Diagnosis of disorders of protein, carbohydrate, lipid, water-electrolyte metabolism				Diagnosis of endocrine pathologies in animals		
	Chapter 7 Bases of X-ray diagnosis						
Topic 22	Tasks and significance of veterinary	LPC 43	Radioscopy	ä	The main properties of X-rays.		
	X-ray diagnostics at the present stage of animal husbandry development	LPC 44	Radiography	Indepen dent	Types of X-ray machines. Major diseases that require X-ray examination.		
Cammaton.							
Chapter 8 Examination of the nervous system							

Topic 23	The value of the study of the nervous system as the leading system of the	LPC 45		epe den	The main syndromes of diseases of the nervous system.
	body	LPC 46	Study of the state of the autonomic) Du	Zones of Zachary, Ged, Roger.
			nervous system	_	

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Bellwood, Brianne. Veterinary technician's handbook of laboratory procedures / Brianne Bellwood, Melissa Andrasik-Catton, 2014. – 201 p.

Jackson P. G. G. et al. Clinical examination of farm animals. - Oxford: Blackwell Science, 2002.

Dirksen G. et al. Clinical examination of cattle. – Verlag Paul Parey, 1990. – №. Ed. 3.

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

Constable P. D. Clinical examination of the ruminant nervous system //The Veterinary clinics of North America. Food animal practice. − 2004. − T. 20. − №. 2. − C. 185-214, v.

Abdisa T. Review on practical guidance of veterinary clinical diagnostic approach //International Journal of Veterinary Science and Research. -2017. -T. 3. -N 0.1. -C. 030-049.

Bagley R. S. Fundamentals of veterinary clinical neurology. – Blackwell Pub., 2005.

Douglas G., Nicol F., Robertson C. (ed.). Macleod's Clinical Examination E-Book. – Elsevier Health Sciences, 2013.

Hill P. B. et al. Survey of the prevalence, diagnosis and treatment of dermatological conditions in small animals in general practice //Veterinary record. $-2006. -T. 158. -N_0. 16. -C. 533-539.$

Veterinary Clinical Procedures in Small Animal Practice, Vicki Judah – 2014 – 418 p.

Performing the Small Animal Physical Examination Ryane E. Englar, DVM, DABVP (Canine and Feline Practice) – 2017 – 1221 p.

Bowen J., Heath S. Behaviour problems in small animals: practical advice for the veterinary team. – Elsevier Health Sciences, 2005.

Braun J. P. et al. The preanalytic phase in veterinary clinical pathology //Veterinary Clinical Pathology. − 2015. − T. 44. − № 1. − C. 8-25.

Roudebush P. et al. Application of evidence-based medicine to veterinary clinical nutrition //Journal of the American Veterinary Medical Association. − 2004. − T. 224. − №. 11. − C. 1766-1771.

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Hodges B. D. The objective structured clinical examination: three decades of development //Journal of Veterinary Medical Education. -2006. -T, 33. $-N_2$, 4. -C, 571-577.

Hinchcliff K. W., Byrne B. A. Clinical examination of the respiratory system //Veterinary Clinics of North America: Equine Practice. – 1991. – T. 7. – Ng. 1. – C. 1-26.

Ohlerth S., Scharf G. Computed tomography in small animals—Basic principles and state of the art applications //The Veterinary Journal. – 2007. – T. 173. – Ng. 2. – C. 254-271.

Tyrrell D., Beck C. Survey of the use of radiography vs. ultrasonography in the investigation of gastrointestinal foreign bodies in small animals //Veterinary radiology & ultrasound. -2006. -T. 47. -N2. 4. -C. 404-408.

Tams T. R., Rawlings C. A. Small Animal Endoscopy-E-Book. – Elsevier Health Sciences, 2010.

Radostits O. M. et al. (ed.). Veterinary Medicine E-Book: A textbook of the diseases of cattle, horses, sheep, pigs and goats. – Elsevier Health Sciences. 2006.

Willard M. D., Tvedten H. Small Animal Clinical Diagnosis by Laboratory Methods-E-Book. – Elsevier Health Sciences, 2011.

ELECTRONIC RESOURCES

http://moodle.btu.kharkiv.ua/course/view.php?id=423

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SYSTEM POINTS ACTIVITY THAT IS ASSESSED

Summative assessment (differentiated test, exam)

100 ECTS points (standard)

to 100

40 % - final testing 60 % - student's current work during the semester

Section evaluation	100-point total	to 30	answers to test questions
		to 30	result of mastering the independent work block
		to 40	student activity in classes (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 DBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.