# SYLLABUS OF THE EDUCATIONAL COMPONENT



## **CLINICAL DIAGNOSIS OF ANIMAL DISEASES**

specialty	211 Veterinary medicine	mandatory discipline	mandatory		
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;
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 INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)						
Aim		is 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, independent work, individual tasks.				
Detailing of learn and forms of thei	ing results r control	<ul> <li>The task of studying the discipline is based on diagnosis, because treatment and the prevention of any disease is preceded by its recognition, and its staging diagnosis, regardless of the cause of the disease, is carried out guided by the same methods and principles that are outlined in the clinical course diagnostics.</li> <li>The subject of study of the academic discipline is the necessary theoretical knowledge and practical skills on the technique of obtaining biological material and preparing it for biochemical research, the selection of biochemical indicators and their subsequer interpretation.</li> <li>Clinical diagnosis, being the basis of other clinical subjects, itself at the same time is based on the foundation of general theoretica ones disciplines - anatomy, physiology, pathological physiology, dialectics, biochemistry, without knowledge of which it is impossible to successfully meeter this subject</li> </ul>				
Scope and forms	of control	10 ECTS credits (300 hours): 30 hours of lectures, 92 hours of laboratory classes; 122 hours of independent work, modular control (8 modules); final control – exam; course work; credit from educational practice.				
Requirements of	the teacher	timely completion of tasks, activity, teamwork				
Enrollment condition	tions	according to the curriculum	the curriculum			
	COM	PLEMENTS THE STANDARD OF EDUCA	TION AND	THE EDUCATIONAL PROGRAM		
Competencies	ZK1. Abilit ZK2. Abilit ZK7. Abilit ZK8. Abilit ZK9. Abilit FK1. The functionir apparatus birds, inse FC2. The equipmer manipulat FK3. The and antise FK4. The conclusion FC5. The anatomics diagnosis FC6. Abili material f	ty to abstract thinking, analysis and synthesis. ty 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. ability to establish the features of the structure and ng of cells, tissues, organs, their systems and body ses of animals of various classes and species - mammals, ects (bees), fish and other vertebrates. ability to use tools, special devices, devices, laboratory at and other technical means to carry out the necessary tions during professional activities. ability to observe the rules of labour protection, asepsis eptics during professional activity. ability to conduct clinical research in order to formulate ns about the condition of animals or establish a diagnosis. ability to apply the methods and techniques of patho- al diagnosis of animal diseases to establish the final and the causes of their death. ity to select, pack, fix and send samples of biological or laboratory research. lity to organize and conduct laboratory and special	Program learning outcomes	PRN1. Know and correctly use the terminology of veterinary medicine PRN4. 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 PRN5. To establish a connection between the clinical manifestations of the disease and the results of laboratory studies		

#### diagnostic studies and analyze their results.

### STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINES)

Lecture 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		Features of the study of small pets. Rash. Pathological changes of the skin and subcutaneous tissue: name the elements of
Lecture 2	Recognition of the disease and prediction of its course and end	LPC 2-3	Plan and methods of clinical examination of animals		primary and secondary rashes and pathological changes of the skin and give them a clinical
Lecture 3	Thermometry and fever	LPC 4-5	Definition of animal habitus and skin research		description. Physiological indicators of body temperature in
Lecture 4	Study of the cardiovascular system and its importance in assessing the state of the animal body	LPC 6-7	Examination of visible mucous membranes and lymph nodes		different species of animals. Thermometry and its importance in veterinary diagnostics. Fever
Lecture 5	Study of heart murmurs	LPC 8-9	Determination of basic physiological parameters in animals		Topography of the heart (its boundaries) in different species of animals and methods of
Lecture 6	Research of respiratory movements and upper respiratory tract	LPC 10	Determining the boundaries of the heart and the study of heartbeat		their determination. Heart murmurs are their characteristics
Lecture 7	Auscultation of the lungs	LPC 11-12	Examination of heart tones		The main syndromes of cardiovascular
Lecture 8	The value of the study of the digestive system	LPC 13-14	Detection of heart murmurs and their diagnostic evaluation	¥	insufficiency. Classification of cardiac arrhythmias (list all
Lecture 9	Liver examination	LPC 15	Research of arterial pulse and blood vessels	ent wo	arrhythmias depending on the violation of basic heart functions)
Lecture 10- 11	Clinical significance of the study of urinary organs in animals	LPC 16	Electrocardiography	pende	Functional tests and their practical use. Laboratory methods for diagnosing heart
Lecture 12	The value of hematological studies in the diagnosis of animal diseases and in assessing the state of natural resistance	LPC 17	Functional diagnosis of the heart	Inde	disease The main syndromes of pathology of the respiratory system
Lecture 13	Diagnosis of disorders of protein, carbohydrate, lipid, water-electrolyte metabolism	LPC 18	Examination of respiratory movements in animals		Pathological rhythms of respiration and their clinical evaluation. Classification of respiratory noises.
Lecture 14	Tasks and significance of veterinary X-ray diagnostics at the present stage of animal husbandry development	LPC 19-20	Examination of the upper respiratory tract		Pathological respiratory noises at bronchitis, pneumonias and pleurisies their clinical characteristics.
Lecture 15	The value of the study of the nervous system as the leading system of the body	LPC 21-22	Examination of the chest and determination of the physical condition of the lungs		The main syndromes in pathology of the digestive system. Reticulitis tests.
		LPC 23-24	Clinical evaluation of primary and secondary respiratory noises		Classification of colic in horses. Scheme of fecal examination and basic
		LPC 25	Plegaphony, thoracentesis, sputum examination		indicators in healthy animals The main syndromes in liver disease.
		LPC 26-27	Examination of feed and water intake		Indicators of urinary frequency and urine
		LPC 28	Examination of rumen and reticulum in		output.

	ruminants	Features of the study of horse urine.
LPC 29	Research of omasum, abomasum and	The scheme of the study of urine and the main
	intestines in ruminants	indicators in healthy animals.
LPC 30-31	Research of stomach and intestines in	The main syndromes of lesions of the urinary
	horses, pigs, dogs	system.
LPC 32	Animal intubation	Physiological properties of blood and their
LPC 33-34	Liver examination. Rectal examination of	clinical significance.
	animals	Evaluation of clinical blood test results based
LPC 35	Examination of the act of defecation and	on research results
	feces	Evaluation of indicators of biochemical
LPC 36-37	Examination of the kidneys, ureters,	analysis of blood according to research results.
	urinary tract and urethra	The main clinical syndromes of metabolic
LPC 38	Urine tests	diseases.
LPC 39	Study of the state of the somatic nervous	Diagnosis of endocrine pathologies in animals
	system	The main properties of X-rays.
LPC 40	Study of the state of the autonomic	Types of X-ray machines.
	nervous system	Major diseases that require X-ray examination.
LPC 41	Determination of ESR, hemoglobin and	The main syndromes of diseases of the nervous
	erythrocytes	system. Zonos of Zoohomy Cod Dogor
LPC 42	Determination of the number of	Zones of Zachary, Ged, Köger.
	leukocytes. Derivation of the leukogram	
LPC 43-44	Determination of biochemical parameters	
	of blood	
LPC 45	Radioscopy	
LPC 46	Radiography	

## BASIC LITERATURE AND METHODOLOGICAL MATERIALS

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. –  $2004. - T. 20. - N_{\odot} \cdot 2. - C. \cdot 185 - 214, v.$ 

Abdisa T. Review on practical guidance of veterinary clinical diagnostic approach //International Journal of Veterinary Science and Research. -2017. -T. 3. - No. 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. 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.

Robinson N. J. et al. Investigating common clinical presentations in first opinion small animal consultations using direct observation //Veterinary record. -2015. -T. 176.  $-N_{\odot}$ . 18. -C. 463-463.

Widmer W. R., Biller D. S., Adams L. G. Ultrasonography of the urinary tract in small animals //Journal of the American Veterinary Medical Association. -2004. - T. 225. - NO. 1. - C. 46-54.

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

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

#### ELECTRONIC RESOURCES

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

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

Methodical support

EVALUATION SYSTEM					
System		Score	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.