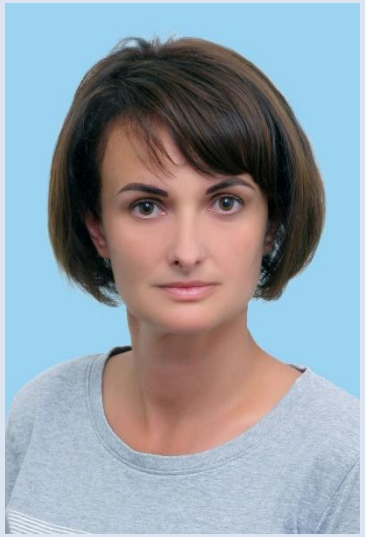
SYLLABUS OF THE EDUCATIONAL COMPONENT

INTERNAL DISEASES OF ANIMALS

speciality	**211 Veterinary medicine**	**mandatory or optional**	**Mandatory**
educational program	**Veterinary medicine**	**faculty**	**Veterinary medicine**
educational degree	**magistr**	**department**	**Internal diseases and clinical diagnosis of animals**

Teather

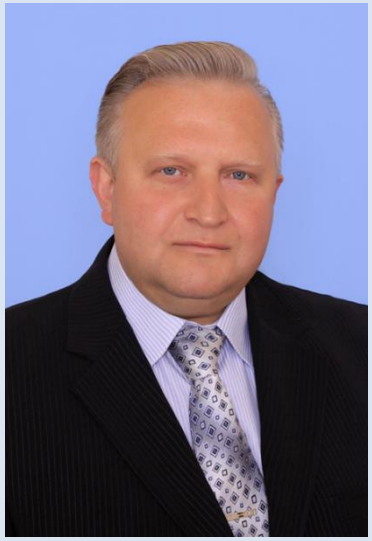
Matsenko Olena Victorivna



- Higher education - veterinary medicine specialty
- Scientific degree - candidate of veterinary sciences 16. 00. 01 - diagnosis and therapy of animals
- Academic title - Associate Professor of the Department of Internal Diseases and Clinical Diagnosis of Animals
- Work experience - 31 years
-
-
- Author of methodological instructions for laboratory, practical works from the course "Internal Diseases of Animals"
- Research internship "Poltava State Agrarian University"
- Participant of scientific and methodical conferences

phone	**0974303676**	**e-mail**	**elenam57722@gmail.com**	**distance support**	**Moodle http://moodle.btu.kharkiv.ua/course/view.php?id=407**

Mogilyovskyy Vadym Mykolayovich



- Higher education - veterinary medicine specialty
- Scientific degree - candidate of veterinary sciences, specialty 16.00.01 - diagnosis and therapy of animals
- Academic title - associate professor
- Work experience - 24 years
- Indicators of professional activity on the subject of the course:
-
- Author of methodological instructions for laboratory, practical works from the course "Internal Diseases of Animals"
- Research internship "Poltava State Agrarian University"
- Participant of scientific and methodical conferences

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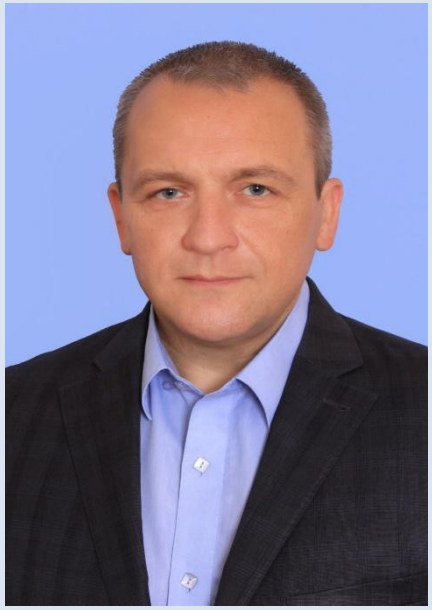
Shchepetilnikov Yury Oleksiyovych



Higher education - specialty zooengineering
Scientific degree - candidate of agricultural sciences 16. 00. 06 - animal hygiene and veterinary sanitation
Academic title – Associate Professor of the Department of Internal Diseases and Clinical Animal Diagnostics
Work experience - 31 years
Indicators of professional activity on the subject of the course:

Author of methodological instructions for laboratory, practical works from the course "Internal Diseases of Animals"

Research internship "Poltava State Agrarian University"

- Participant of scientific and methodical conferences

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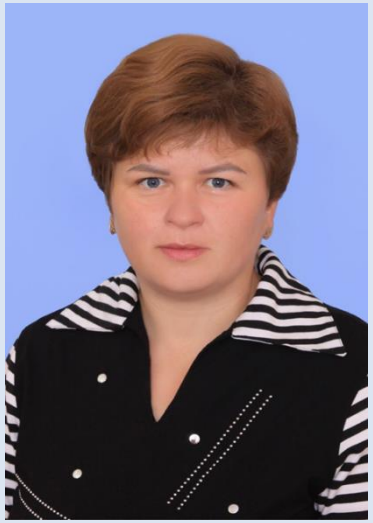
Sobakar Yuliia Viktorivna



Higher education - veterinary medicine specialty
Scientific degree - candidate of veterinary sciences, specialty 16.00.01 - diagnosis and therapy of animals
Academic title - associate professor
Work experience - 22 years

Indicators of professional activity on the subject of the course:

Author of methodological instructions for laboratory, practical works from the course "Internal Diseases of Animals"

Research internship "Poltava State Agrarian University"

- Participant of scientific and methodical conferences

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Ilyina Oksana Valeriivna

Higher education - veterinary medicine specialty
Scientific degree - candidate of veterinary sciences, specialty 16.00.01 - diagnosis and therapy of animals
Work experience - 22 years
Indicators of professional activity on the subject of the course:

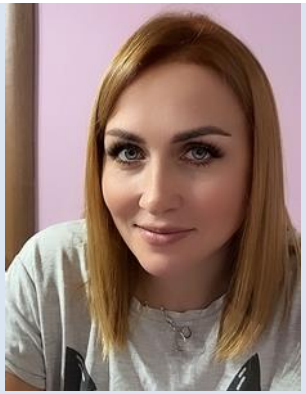
Author of methodological instructions for laboratory, practical works from the course "Internal Diseases of Animals"

Research internship "Poltava State Agrarian University"

- Participant of scientific and methodical conferences

phone	**0935583055**	**e-mail**	**Zemlanoy1980@gmail.com**	**distance support**	**Moodle http://moodle.btu.kharkiv.ua/course/view.php?id=407**

Makhotina Diana Sergiivna



- Higher education - veterinary medicine specialty
- Scientific degree - candidate of veterinary sciences, specialty 16.00.02 - pathology, oncology and morphology of animals
- Work experience - 1 year
- Indicators of professional activity on the subject of the course:
-
- practitioner of veterinary medicine;
- participant of scientific and methodical conferences.

телефон	**0664768025**	**електронна пошта**	**makhotina.diana@gmail.com**	**дистанційна підтримка**	**Moodle http://moodle.btu.kharkiv.ua/course/view.php?id=407**

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Aim	providing applicants with thorough knowledge, skills and abilities to identify the main causes of diseases of internal organs and factors contributing to their occurrence; disease pathogenesis, delivery of diagnosis, analysis of changes in various indicators of biological fluids for the purpose of diagnosis of internal diseases, control of their development and treatment of sick animals for diseases of individual systems and organs, diseases caused by metabolic disorders, poisoning and diseases of young animals, poultry, small domestic animals and fur animals.
Format	lectures, practical classes, independent work, individual tasks, laboratory work, team work
Form of control	14 ECTS credits (420 hours): 56 hours of lectures, 118 hours of laboratory hours, 186 hours of independent work; 30 hours of medical history, current control (8 chapters); final control - undifferentiated assessment, medical history, exam.
Requirements	timely completion of laboratory and practical tasks, activity, teamwork
Enrollment conditions	according to the curriculum

COMPLIANCE WITH THE EDUCATION STANDARD AND EDUCATIONAL PROGRAM

Competencia	**GC1 Ability to abstract thinking, analysis and synthesis** **GC2 Ability to apply knowledge in practical situations** **GC7 Ability to conduct research at the appropriate level** **GC9 Ability to make informed decisions** **SC2 Ability to use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities** **SC3 Ability to comply with the rules of labor protection, asepsis and antiseptics during professional activities.** **SC4 Ability to conduct clinical studies in order to formulate conclusions about the condition of animals or establish a diagnosis** **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 studies and analyze their results** **SC8. Ability to plan, organize and implement measures to treat animals of different classes and species, sick with non-communicable, infectious**	**Program learning outcomes**	**PLO 1 Know and correctly use the terminology of veterinary medicine** **PLO 2 Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies** **PLO 3 Determine the essence of physico-chemical and biological processes that occur in the body of animals in normal and pathological conditions** **PLO 4. Collect anamnestic data during registration and examination of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal diseases.** **PLO 5 Establish a connection between the clinical manifestations of the disease and the results of laboratory tests** **PLO 6 Develop quarantine and health measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies** **PLO 7 Formulate conclusions regarding the effectiveness of selected methods and means of keeping, feeding and treating animals, prevention of contagious and non-contagious diseases, as well as production and technological processes at enterprises for keeping, breeding or exploiting animals of various classes and species** **PLO 15 Know the rules of storage of various pharmaceuticals and biological preparations, ways**

	and invasive diseases. **SC13. Ability to develop strategies for the prevention of diseases of various etiologies.** **SC16. Ability to protect the environment from pollution by livestock waste, as well as materials and means for veterinary purposes.**				**of their enteral or parenteral use, understand the mechanism of their action, interaction and complex action on the animal body.**

STRUCTURE OF EDUCATIONAL COMPONENT

Chapter 1. Basics of general prevention and therapy

Lecture 1	Introduction to the course of internal diseases of animals. Definition of the discipline, the role of veterinary science and practice in the prevention and treatment of internal diseases of animals; direct tasks facing students when studying the discipline	**LPL 1**	Introduction to the course of internal diseases of animals. Peculiarities of dispensation of productive animals. Methods of studying the discipline, tasks of the department. Requirements for students. Safety rules when working with animals. Analysis of production indicators, analysis of maintenance and feeding of animals. Peculiarities of dispensation of productive animals.	**Self work**	Examination of calves in the maternity ward. Methodology of dispensation of horses, pigs, sheep. Methods of therapy: antidote therapy, probiotic therapy, reflex therapy, laser and ultrasound therapy. General prevention of internal diseases of animals. Analysis of keeping and feeding animals.
Lecture 2	Basics of general prevention of internal diseases: general prevention of IDA. Planning of prevention measures and their	**LPL 2**	Carrying out the clinical stage of dispensation. Development of clinical research methods during dispensation in farm conditions. Formation of		

	control. Dispensarysation, its essence and meaning, stages. Health monitoring of productive animals.		reference groups of animals and their research. Obtaining biological fluids (blood, urine, milk).		
		LPL 3-5	Laboratory studies during dispensation of animals. Study of clinical (erythrocytes, leukocytes, hemoglobin, ESR, leucoformula) and biochemical indicators of blood (total protein, calcium, phosphorus, carotene, alkaline reserve. Determination of physical and biochemical composition of urine, detection of ketone bodies in milk. Interpretation of results)		
		LPL 6-7	Compilation of recommendations on planned prevention of internal diseases based on dispensary materials. Analysis of the results of clinical and laboratory animal studies. Appointment of general and special preventive measures. Compilation of the act of dispensary.		

Lecture 3	Basics of general therapy. Basic rules of therapy, its types. Etiotropic and pathogenetic therapy: essence and varieties.	**LPL 8**	Basics of general therapy. Enteral and parenteral methods of drug administration. Types of therapy (etiotropic, substitute, symptomatic). Enteral methods of administration of medicinal substances (through the mouth using a probe, etc.). Practicing techniques of therapeutic techniques. Working out the methods of applying different types of therapy to animals, studying their effects on the animal's body..		
Lecture 4	Methods of therapy: non-specific stimulating therapy: varieties, mechanism of action, application in veterinary medicine, symptomatic therapy.	**LPL 9**	Methods of general pathogenetic therapy. Non-specific stimulating therapy. Practicing the technique of protein therapy, hemotherapy, tissue therapy). Working out of novocaine blockades in internal diseases		
Lecture 5	Therapy methods: replacement therapy, vitamin, enzyme, hormone therapy, use of mineral substances. Diet therapy, physiotherapy (light-, electro-, mechanical-, thermo-, hydrotherapy)..	**LPL 10-11**	Physiotherapy: the technique of using water procedures, thermo- and mechanotherapy Washing of the rumen in cattle, washing of the stomach, bladder, intestines. Compresses, paraffin and ozokerite therapy. Massage of individual parts of the body.		

		LPL 12	Physiotherapy. Phototherapy.The use of visible, thermal rays for the treatment and prevention of internal diseases of animals. The use of ultraviolet rays for the treatment and prevention of internal diseases of animals.		
		LPL 13	Physiotherapy. Methods of electro treatment. Techniques of galvanization, electrophoresis, electrostimulation, UHF therapy.		
		LPL 14	***Basics of general prevention and therapy. Solving test tasks***		
Chapter 2. Diseases of the cardiovascular system					
Lecture 6	Diseases of the heart and blood vessels General symptoms of cardiovascular failure. Diseases of the pericardium: pericarditis and hydropericardium.	**LPL 15**	Diseases of the pericardium (pericarditis, traumatic pericarditis, hydropericardium). Clinical studies of animals with lesions of pericardium. Provision of medical assistance; the technique of administration of medicinal substances in diseases of the heart and	**Self work**	The main symptoms of cardiovascular failure. Myocardiofibrosis, heart enlargement, vascular thrombosis. Differentiation of pericarditis and hydropericardium. Heart defects.

			blood vessels.		
Lecture 7	Diseases of the myocardium, endocardium and blood vessels: Diagnosis, therapy and prevention.	**LPL 16**	Myocardial diseases Clinical studies of animals with lesions of myocardium. Provision of medical assistance; technique of administration of medicinal substances for myocarditis, myocardial dystrophy, heart attack.		
		LPL 17-18	Diseases of the endocardium, blood vessels Development of diagnostic and therapeutic measures for lesions of the endocardium and blood vessels. Laboratory diagnosis of diseases of the cardiovascular system.		
		LPL 19	Diseases of the cardiovascular system. Development of methods of diagnosis and treatment of animals for cardiovascular pathology in farm conditions. Appointment of curators.		
		LPL 20	Diseases of the cardiovascular system.Solving situation situations..		

		LPL 21	***Diseases of the cardiovascular system. Solving test tasks***		
		LPL 22	**Final lesson**		
Chapter 3. Diseases of the respiratory system					
Lecture 8	Respiratory diseases. The main symptoms of respiratory diseases. Diseases of the upper respiratory tract: rhinitis, sinusitis, frontitis, laryngitis, bronchitis.	**LPL 23**	Respiratory diseases. Research and treatment of animals for diseases of the upper respiratory tract (rhinitis, laryngitis, tracheitis, bronchitis).	**Self work**	Etiology, pathogenesis, diagnosis, treatment and prevention of the following diseases: nosebleeds, swelling of the larynx and lungs, pulmonary hemorrhage, hydro and pneumothorax
Lecture 9	Pneumonia: classification, diagnosis and treatment of pneumonia (bronchopneumonia, croupous, atelectatic, hypostatic, aspiration, metastatic). Lung diseases of a non-inflammatory nature (alveolar and interstitial emphysema). Diseases of the pleura (pleurisy, hydrothorax).	**LPL 24**	Respiratory diseases. Research and treatment of animals for inflammatory diseases of the lower respiratory tract (pneumonia, pleurisy). Research and treatment of animals for non-inflammatory diseases of the lower respiratory tract (alveolar and interstitial lung emphysema, bronchial asthma).		
		LPL 25	Respiratory diseases. Carrying out laboratory tests of blood and their interpretation for diseases of the organs of the respiratory system..		

		ЛПЗ 26	Respiratory diseases. Development of diagnostic and treatment measures for diseases of the respiratory organs of animals in farm conditions. Appointment of curators..		
		LPL 27	Diseases of respiratory organs. Solving industrial situations.		
		LPL 28	Diseases of the organs of the respiratory system. Solving situational tasks.		
Chapter 4. Diseases of the organs of the digestive system in animals					
Lecture 10	Diseases of the mouth, pharynx, esophagus. General information about diseases of the digestive system. Classification of diseases of the digestive system. Diseases of the mouth, pharynx and esophagus.	**LPL 29**	Diseases of the mouth, pharynx and esophagus. Studying diagnostic techniques and methods of treatment for diseases of the mouth, pharynx and esophagus in animals. Rinsing and lubrication of the mucous membranes of the mouth, introduction of antimicrobial ointment into the pharynx in case of pharyngitis.	**Self worka**	Paralysis of the pharynx. Inflammation, paralysis, narrowing, dilatation and spasms of the esophagus. Inflammation of the ileum (Hoflund's syndrome). General therapy of diseases with colic syndrome. Mechanical intestinal obstruction. Mechanical obstruction: twisting and twisting of the intestines, entrapment, intussusception and displacement of the intestines.
Lecture 11	Diseases of ruminants' stomachs. Peculiarities of	**LPL 30**	Diseases of the forestomach and abomasum. Practical		

	ruminant digestion. Classification of stomach diseases. Congestive dystonia of the forestomach. Acidosis, paresis of rumen.		assimilation of methods of diagnosis, differential diagnosis, treatment and prevention of diseases of the forestomach (hypo-, atony of the rumen), Ruminography, gastric lavage.		
Lecture 12	Bloat of the rumen: simple and foamy. Traumatic reticulitis and its complications. Diseases of the omasum and abomasum. Clogging of the omasum. Displacement, expansion and rotation of the abomasum.				
Lecture 13	Diseases of the stomach and intestines. Classification of diseases of the stomach and intestines. Gastritis, gastroenteritis, enterocolitis, peptic ulcer.	**LPL31**	Diseases of the stomach and intestines in monogastric animals. Development of diagnostic and treatment methods for stomach and intestinal dyspepsia in animals, gastritis, gastroenteritis and peptic ulcer disease in animals. Research of gastric juice in different species of animals. Examination of blood and feces		
Lecture14	Diseases of the stomach and intestines with colic symptom complex. Classification. Stomach distension, enteralgia, intestinal flatulence.	**LPL 32**	Diseases of the stomach and intestines with the symptom complex of colic. Diagnosis, features of treatment for certain types of colic: acute gastric dilatation, enteralgia. Development of methods of		

	Dynamic (paralytic) and mechanical obstruction. Causes, treatment and prevention of paralytic dynamic obstruction in horses (hemostasis and coprostasis of the intestines); Mechanical obstruction (obturational ileus; hemostatic obstruction).		providing emergency first aid for colic horses..		
		LPL 33	Diseases of the stomach and intestines with the symptom complex of colic. Diagnosis, features of treatment for certain types of colic, hemostasis, coprostasis, intestinal flatulence, intestinal obstruction. Development of methods of providing emergency first aid.		
		LPL 34	Diseases of the stomach and intestines. Development of methods of diagnosis and treatment of horses with colic in farm conditions (equestrian school). Appointment of curators.		
		LPL 35	Diseases of the stomach and intestines. Solving situations.		
		LPL 36	Diseases of the stomach and intestines. Solving test tasks.		
V course					
Chapter 5. Diseases of organs of the hepatobiliary system, pancreas and diseases of the urinary and nervous systems					
Lecture 15	Diseases of the liver and biliary tract. Classification of liver diseases. Main syndromes in liver diseases.	**LPL 37**	Liver diseases, biliary tract and peritoneum. Clinical studies of animals for diseases of the liver, biliary	**Self worka**	Syndromes for diseases of the liver and biliary tract. Liver abscesses, cirrhosis, liver amyloidosis. Ascites Pancreatitis. Pancreatic cyst, pancreatic tumors. Acute and chronic renal

	Hepatitis. Hepatodystrophy.		tract and peritoneum. Laboratory studies (Weltman's test, total protein, and others).		failure. Kidney abscess. Hydronephrosis. Neurogenic bladder dysfunction. Chronic hematuria of cattle. Hyperemia and ischemia of the brain, hydrocephalus of the ventricles of the brain. Meningoencephalitis, epilepsy, eclampsia. Stress syndrome, porcine stress syndrome, spongiform encephalopathy.
Lecture 16	Gallstone disease. Diseases of the peritoneum. Peritonitis. Ascites.	**LPL 38**	Liver diseases and peritoneum. Solutions of situations.		
Lecture 17	Kidney and urinary tract diseases. Main syndromes. Glomerulonephritis, pyelonephritis, nephrosis. Urocystitis.	**LPL 39**	Kidney and urinary tract diseases. Diagnosis of kidney diseases. The main syndromes of kidney damage in animals, obtaining urine for laboratory tests.		
Lecture 18	Kidney and urinary tract diseases Urolithiasis. Chronic hematuria of cattle. Diseases of the lower parts of the urinary tract. .	**LPL 40**	Diseases of the kidneys and urinary tracts. Laboratory studies of urine and blood in diseases of the kidneys and urinary tracts.. Diseases of the kidneys and urinary tract. Development of methods of diagnosis and treatment of animals for diseases of the liver and organs of the urinary system in farm conditions. Appointment of cures.		
Lecture 19	Diseases of the nervous system. Classification of	**LPL 41**	Diseases of the kidneys and urinary tract. Solutions of		

	diseases of the nervous system. Organic diseases of the brain and spinal cord and meninges (Hyperemia, ischemia, meningitis, meningoencephalitis). Functional nervous diseases (neurosis, epilepsy, eclampsia).		situations.		
		LPL 42	Diseases of the nervous system. Development of methods of clinical diagnosis and treatment of organic and functional diseases of the nervous system. Clinical and laboratory diagnostics.		
		LPL 43	Diseases of the nervous system. Development of methods of diagnosis and treatment of animals for diseases of the nervous system in farm conditions Appointment of cures..		
		LPL 44	Diseases of the nervous system. Solving situations.		
		LPL 45	Diseases of organs of the hepatobiliary system, pancreas and diseases of the urinary and nervous systems. Solving test tasks.		
Chapter 6. Diseases of the blood system and the immune system					
Lecture 20	Diseases of the blood system. Classification of blood diseases. Anemias: posthemorrhagic, hemolytic and hypoplastic. Hemorrhagic diatheses:	**LPL 46**	Diseases of the blood system. Working out clinical and hematological studies in diseases of the blood system in animals. Diagnosis and	**Self work**	Classification of anemias, hemophilia, allergic diseases, drug and food allergies, immune deficiencies.

	hemophilia, thrombocytopenia, hemorrhagic disease..		treatment.		
Lecture 21	Diseases of the immune system. Characteristics of immunodeficiencies. Immunity to the introduction of pathogens of infectious and invasive diseases - as a cause of ID and AID. Allergic diseases (drug and food allergy).	**LPL 47**	Diseases of the immune system. The main clinical manifestations of diseases of the immune system. Development of clinical and hematological research methods. Treatment of patients.		
		LPL 48	Diseases of the blood system and the immune system. Laboratory research methods (clinical and biochemical blood analysis).		
		LPL 49	Diseases of the blood system and the immune system. Solving situations.		
		LPL 50	Diseases of the blood system and the immune system. Solving test tasks.		
VI course					
Chapter 7. Diseases caused by metabolic disorders, endocrine organs and skin. Poisoning of animals with fodder and feed additives					
Lecture 22	Ketosis of cows and sheep. Myoglobinuria. Obesity. Alimentary dystrophy.	**LPL 51**	Diseases caused by metabolic disorders. Study of clinical manifestations and laboratory methods of diagnosis of metabolic disorders.	**Self worka**	Secondary osteodystrophy of cows, secondary osteodystrophy of bulls. An excess of selenium, fluorine, borum, molybdenum.
Lecture 23	Macroelementoses. Osteodystrophy,				

	hypomagnesemia. Postpartum hypophosphatemia; Microelementosis, Iodine deficiency. Hypocobaltosis, hypocuporosis, Parakeratosis, deficiency of manganese, selenium. Hypovitaminosis Insufficiency of fat-soluble vitamins A, D, E, K. Vitaminosis of water-soluble vitamins of group B, C, etc				
Lecture 24	Diseases of endocrine organs. Diabetes and non-diabetes; Hypoparathyroidism, hypothyroidism; diffuse toxic goiter..	**LPL 52**	Diseases of endocrine organs in animals. Diseases of endocrine organs. Development of methods of diagnosis and treatment of certain diseases (diabetes and non-diabetes, hypoparathyroidism, hypothyroidism; diffuse toxic goiter). Laboratory diagnostics.		
Lecture 25	Diseases of endocrine organs. Diabetes and non-diabetes; Hypoparathyroidism, hypothyroidism; diffuse toxic goiter.	**LPL 53**	Skin diseases in animals. Working out the methods of diagnosis and treatment of certain diseases (allergic lesions (hives, ringworm, eczema); autoimmune skin diseases).		
Lecture 26	Poisoning by feed and feed	**LPL 54**	Poisoning by feed and feed		

	additives.		additives. Development of methods of diagnosis and treatment of certain types of food poisoning. Laboratory methods of diagnosis of fodder poisoning..		
		LPL 55	Diseases caused by metabolic disorders, endocrine organs and skin. Poisoning of animals with fodder and feed additives. Solutions test tasks.		
Chapter 8. Diseases of young animals, poultry and fur animals					
Lecture 27	Diseases of young animals.	**LPL 56**	Diseases of young animals. Classification. Development of methods of diagnosis and treatment of animals.	**Self work**	Hemolytic disease of the young. Bezoar disease of young. Hypoplastic anemia of young animals. Periodic tympany of calves. Apteriosis and alopecia of birds, aerocystitis, inflammation of the ox, alimentary gastritis, inflammation of the cloaca: principles of disease prevention: diagnosis and control .Poisoning of birds, toxins. Diseases of fur animals: B-hypovitaminoses, steatitis, wetting, red-footedness, big-headedness, acute expansion of the stomach, liver dystrophy, urolithiasis, lactational exhaustion, allopecia.
Lecture 28	Diseases of poultry and fur animals.	**LPL 57**	Diseases of poultry and fur animals. Development of methods of diagnosis and treatment of poultry and animals.		
		LPL 58	Diseases of young animals, poultry and fur animals. Solutions of test tasks.		

BASIC LITERATURE ANS ADDITIONAL MATERIALS

Literaturea

Basic

1.Large Animal Internal Diseases 5 th edition Bradford P. Smith. Elsevier, 2015. 2024 p.
2.The Merck Veterinary Manual, 11-th edition. Susan E. Aiello and Michael A. Moses.
3.Cardiology for Veterinary Technicians and Nurses Edward Durham Jr, 2017. 536 p.
4.Digestive Disorders in Ruminants, An Issue of Veterinary Clinics of North America: Food Animal Practice. Meredith L. Jones, Robert J. Kallan. Elsevier, 2018, 365 p.
5.Diagnostic Atlas of Renal Pathology. Agnes B. Fogo, Michael Kashkarian. Elsevier, 2021, 435 p.
6.Veterinary Neuroanatomy and Clinical Neurology.de Lahunta's. Elsevier, 2020. 324 p.
7.Hematology Techniques and Concepts for Veterinary Technicians. Greg L. Foit, Shannon L. Swist. John Wiley and Sons LTD, 2011. 254 p.
8.Veterinary Immunology. Ian Tizard. Elsevier, 2017. 453 p.
9.Color Atlas of Farm Animal Dermatology. Danny W. Scott. John Wiley and Sons LTD, 2018. 254 p.

Additional

1. Weinberger S.E. 2006. Presentation of the patient with pulmonary disease, p 22. In Weinberger SE (ed), Principles of pulmonary medicine. Saunders, Philadelphia, PA. 2. Pierce JA. 19980. Cough, p 317. In Blacklow RS (ed), MacBryde's signs and symptoms: applied pathologic physiology and clinical interpretation, ed 6. Lippincott, Philadelphia, PA.
3. Muran O. 2002. Cough, p 12. In Glauser FL (ed), Signs and symptoms in pulmonary medicine. Lippincott, Philadelphia, PA.
4. Robinson NE. 1986. Pathophysiology of coughing. Proc Am Assoc Equine Pract 32:291.
5. Cornelius LM.2007. Coughing, p 207. In Lorenz MD, Cornelius LM (eds), Small animal medical diagnosis, ed 2. Lippincott, Philadelphia, PA.

Mwthodical supportя

1. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль І» / Маценко О. В., Могільовський В. М, Маслак Ю. В., та ін. – Х., 2022.- 87 с.
2. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль ІІ» / Маценко О. В., Щепетільніков Ю. О., Могільовський В.М. та ін. – Х., 2022.- 34 с.
3. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин Модуль ІІІ» / Маценко О. В., Щепетільніков Ю. О., Могільовський В. М. та ін. – Х., 2022.- 30 с.
4. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль IV» / Маценко О. В., Щепетільніков Ю. О., Могільовський В. М. та ін. – Х., 2022.- 62 с.
5. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль V» / Маценко О. В., Щепетільніков Ю. О., Могільовський В.М. та ін. – Х., 2022.- 67 с.
6. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль VI» / Маценко О. В., Щепетільніков Ю. О., Могільовський В.М. та ін. – Х., 2022.- 35 с.
7. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль VII» / Маценко О. В., Щепетільніков Ю. О., Могільовський В.М. та ін. – Х., 2022.- 34 с.
8. Робочий зошит для лабораторних занять з дисципліни «Внутрішні хвороби тварин. Модуль VIII» / Маценко О. В., Щепетільніков Ю. О., Могільовський В.М. та ін. – Х., 2022.- 24 с.
9. Ільіна О.В., Маценко О.В., Тимошенко О.П., Маслак Ю.В., Щепетільніков Ю. О., Могільовський В.М. Методичні рекомендації: Фітотерапія за захворювань нервової та серцево-судинної системи у тварин: методичні рекомендації. Харків: ДБТУ, 2023 - 46 с.
10. Собакар Ю.В., Маценко О.В., Могільовський В.М., Щепетільніков Ю.О., Ільіна О.В., Фурда І.В. Клініко-лабораторні та спеціальні методи дослідження собак і котів за хвороб ендокринної системи. Харків, ДБТУ, 2024

Link

To prepare for classes with the aim of more fully mastering the discipline, students can use the following electronic sites:

1. www.consumer.gov.ua
2. http://www.who.int/en/
3. http://www.oie.int/ https://veteriankey.com/noninfectious-diseases-of-the-gastrointestinal-tract/
4. https://www.youtube.com/watch?v=NQN2UvWKCy0&ab_channel=Dr.Bestoonvet
5. https://goodhouse.com.ua/poradi/19274-zaxvoryuvannya-pechinki-u-sobak-simptomi-oznaki-prichini-likuvannya-diyeta-i-xarchuvannya-sobaki-pri-zaxvoryuvannyax-pechinki-likuvalnij-korm.html http://dspace.nubip.edu.ua:8080/jspui/ https://library.btu.kharkov.ua/ - http://http//www.nbuv.gov.ua/

EVALUATION SYSTEM

SYSTEM		SCORE	ACTIVITY THAT EVALUATED
Final score	100 score ECTS (standart)	up 50	50% from total score by chapters
		up 50	final score
Rating of section	100 score sum up	up 50	test
		up 20	oral answers in laboratory-practical classes
		up 30	the result of mastering the block of independent work

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 SBU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.