Ministry of Education and Science of Ukraine Sumy National Agrarian University Faculty of Veterinary Medicine Department of Therapy, Pharmacology, Clinical Diagnostics and Chemistry

MODULE SYLLABUS

Internal diseases of animals

(compulsory)

Implemented in the "Veterinary Medicine" Academic Program

Area of specialization 211 "Veterinary Medicine"

at the second (master 's) level of higher education

Sumy-2021

Author:

O.V. Musiienko candidate of veterinary

Considered, approved and approved at the meeting of the	protocol from 08.06.2021. № 15
department	
Therapy, pharmacology, clinical	
diagnosis and chemistry	The head
chennisu y	Department Ph.D., Professor Ulko LG
Agreed: Guarantor of the Acader	nic program (L. Ulko)
Dean of the Faculty	(O. Nechyporenko)
	(O. Freehjperenke)
Review of the work prog	gram provided:
	111
Mathediat af the Day	
licensing and accreditation	nent of Education Quality, on <u>4600</u> (N. Bananik)
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Registered in the electro	onic database: date: 05.08. 2021
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Information	on reviewing	the work	program (svllabus):
monution		the work	program (Julia ab Ji

Acadomia yoor	The number of the	The changes hav	ve been reviewed and app	roved
Academic year in which changes are made	appendix to the work program with a description of the changes	Date and number of the minutes of the meeting of the department	Head of Department	Guarantor of the educational program

1.	RAL INFORMATION Name OK		eases of animals		
2.	Faculty /				Therapy, Pharmacology,
	department	Clinical Diag	gnostics and Che	emistry	
3.	Status OK	Obligatory			
4.	Program / Specialty (programs), the component of which is OK for (to be <i>filled in for</i> <i>mandatory OK</i>)	211 - veterin	ary hygiene, san	itation and examina	ition
5.					
6.	NRC level	Level 7			
7.	Semester and duration of study	6,7,8.			
8.	Number of ECTS credits	8			
9.	The total		Contact work (cl	,	Independent work
	number of hours and their distribution	Lectures 28 16/6/6	Practical / seminar	Laboratory 52 30/ 14 / 8	160 44/ 70 /4 6
10.	Language of instruction	English			
11.	Teacher / Coordinator of the educational component	O.V. Musiie	nko candidate of	veterinary sciences	s, associate professor
1 1.1	Contact Information	aleksey_mus 0507388690	•		
12.	General description of the educational component	in the syste diseases of a beyond the p methods and medicine. Th animals" lies place in anim The task of s students acq techniques, addition to g classes to a technical exp of the mater physics, cher methods of 1	m of training mimals forms more problem of prevent means are qui- ne practical sign is in the mass of mal pathology, can studying the disc uire skills in sol in the analysis eneral tasks, stud cquaint them we periment. The stu- cial with a philo mistry, biology, g aboratory researce	veterinary medicine edical thinking. The ntion and treatment ite widely used in ificance of the disc f these diseases, wh using great econom- ipline is to consolid lving certain tasks, of practical situa dents must be equip with the methods udy of the course is posphical inclinatio genetics and practic ch.	late the material studied and in mastering the necessary tions, phenomena, etc., in ped with skills and abilities. of scientific research and based on the generalization n and the achievements of e with the use of modern
13.	The purpose of the educational component	During the s knowledge modern met second level Theoretical	study of the disc from different s hods of work ac acquire the follo knowledge and	cipline, in the process sections of the dis lopted in industry lowing competencies skills will allow	ess of mastering theoretical scipline, acquaintance with aboratories, students of the : graduates of OS "Master" olve practical problems of

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

		non-communicable pathology (patterns of occurrence and spread of
		diseases, features of their course, diagnosis and treatment, different groups
		in farms and clinics).
	Durantation	,
14.	Prerequisites	1. The educational component is based on OK
	for studying	Animal physiology
	OK, the	Clinical diagnosis of animal diseases
	relationship	Veterinary pharmacology
	with other	2. The educational component is the basis for the following OK:
	educational	Wind Mr. Arnie technology prevention of non-communicable animal
	components of	diseases
	OP	
15.	The policy of	All tasks related to calculations, drawing up plans and registration of
	academic	accounting documentation will have individual initial data.
	integrity	Violation of academic integrity in the study of OK " Internal Diseases of
		Animals " will be considered: academic plagiarism, academic fraud
		(copying, deception, publishing someone's work for their own), the use of
		electronic devices during the final control of knowledge.
		For violations of academic integrity
		of applicants education may be prosecuted to such academic responsibility :
		Academic plagiarism - grade 0, re- completion of the task .
		Academic fraud - cancellation of points ; repeated passage
		of evaluating repeated execution of non-self-
		performed work on new source data;
		The use of electronic devices Mr Eid a final control of knowledge -
		suspension of execution of work, score 0, re- passing the final control.
16.	Course link	https://cdn.snau.edu.ua/moodle/course/view.php?id=3994
10.	in Moodle	
	in woodie	1

2. LEARNING RESULTS FOR THE EDUCATIONAL COMPONENT AND THEIR RELATIONSHIP WITH THE SOFTWARE LEARNING RESULTS

RELATIONSHIP WITH THE SOFTWA											
MLOs:			I	PLOs	5			How assessed			
On successful completion of the module the learner will be able to:	PLO _S 1	PLOs 2	PLOs 4	PLOs 5	PLOs 6	PLOs 7	PLOs 8				
MLOs 1. Know the main principles, types and methods of therapy of animals.	+							Referenceabstract			
MLOs 2. Be able to predict the development of the disease, prescribe treatment and prevention.Analyze the results obtained during the course of treatment.Understand the importance and responsibility for keeping clinical records of thesupervisingphysician.		+						Reviewbriefcase inand an alyzesituations			
MLOs 3. Know the features of the etiology, pathogenesis, symptoms, as well as the principles of treatment and prevention of animal diseases			+					Reviewbriefcase inand an alyzesituations			
MLOs 4. Ability to conduct clinical trials to draw conclusions about the condition of animals or to make a diagnosis and totake, pack, record and send samples of biological material for laboratory research.				+				Group tasks, problem solving.			
MLOs 5. Be able to develop quarantine and health measures, methods of therapy, diagnosis, treatment and prevention of diseases of various etiologies.					+			Practical test of application skills.			
MLOs 6. Know the rules of storage of various pharmaceuticals and biologicals, ways of theirenteral orparenteral use, understand the mechanism of their action, interaction and complex action on the body of animals.Formulate conclusions on the exploitation and treatment of animals of different classes and species, prevention of infectious and non-communicable diseases.						+		Practical test of application skills.			
MLOs 7. Know about the dangers of biological waste and dispose of them as required							+	Presentations			

3. CONTENT OF THE EDUCATIONAL COMPONENT (PROGRAM OF THE COURSE)

Subject .		Distribution within the			
List of issues to be addressed within the topic	tota	al timebuc	lget	resources	
	Classroo	om work	Self-		
	Lectures	Labs	directed		
			study		
6 semester					
Topic 1. Fundamentals of general therapy of internal diseases .	2	8	6	1, 2, 3, 4,	
Introduction. Subject, content and methods of studying the discipline, its				5, 6, 7, 9,	
structural and logical scheme, importance in the formation of a				11	
veterinarian. Basic rules of therapy. Classification of types of					

therapy.				
Topic 2. Methods of therapy .	2	8	8	1, 2, 3, 4,
Classification of methods of veterinary therapy.	2	0	0	1, 2, 3, 4, 5, 6, 7, 9, 17
Topic 3. General prevention of internal diseases of animals . Indicators of complete feeding of farm animals.Consideration of features of the organization of rational feeding of animals taking into account a kind, age, breed, a physiological condition, industrial use of animals, type of a diet. Study of the composition of feed, which may contain a significant amount of different chemical structure of substances that are potentially dangerous to animal and human health as consumers of livestock products. Analysis of animal feeding and feed quality. Anti- nutrients (antialimentary, protease inhibitors, antivitamins, antiminerals). Toxic substances of feed: glycosides (nitro- and thioglycosides, saponins, polyphenoliccompounds). The use of chemical and microbiological synthesis for the prevention of internal diseases of animals.	2	2	8	1, 2, 3, 4, 5, 6, 7, 20
Topic 4. Medical examination of farm animals, its theoretical foundations, stages and tasks . General prevention of internal diseases of farm animals . Medical examination. Methodology of medical examination. Consideration of the principles of sample population and continuity. Stages and plan of medical examination.	2	4	6	1, 2, 3, 4, 5, 6, 7, 13
Topic 5. Diseases of the cardiovascular system .Introduction to the main symptoms and syndromes of diseases ofthe cardiovascular system. Acute and chronic heartfailure. Pericardial diseases. Traumatic pericarditis. Differentialdiagnosisoftraumaticpericarditisand reticuloperitonitis . Treatment and prevention of pericardialdiseases. Hydropericardium ,differentialdiagnosisofpericarditis. Myocardialdiseases:myocardialfibrosis (myocardiosclerosis), myocardialinfarction ,myocardialinfarction ,myocardialinfarction .Differentialdiagnosisofmyocarditis. Treatmentofmyocardialinfarction,heartenlargement, cardiomyopathy .Differentialdiagnosis ofmyocarditis. Treatmentofanimalswithmyocarditis. Treatmentofanimalswithmyocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:endocardialdiseases:e	4	4	8	1, 2, 3, 4, 5, 6, 7, 14
Topic 6. Diseases of the respiratory system .Classification of diseases of the respiratory system, their prevalence. Rhinitis. Bleeding from the nose.Sinusitis. Frontitis. Aerocystitis. Laryngitis. Swelling of the larynx. Tracheitis. Bronchial asthma.Bronchitis. Animal studies in case of nosebleeds, rhinitis, laryngitis, laryngeal edema, tracheitis, bronchitis. Pneumonia: definition, classification by etiology, nature of exudation and the degree of lung tissue damage. Catarrhal bronchopneumonia: definition, etiology, pathogenesis, symptoms.Determination of the etiology of lobar, aspiration andatelectatic pneumonia and their differential diagnosis from catarrhal bronchopneumonia in young animals. Lobar pneumonia. Atelectatic pneumonia.Metastatic	4	4	8	1, 2, 3, 4, 5, 6, 7, 15

pneumonia. Hypostatic pneumonia. Aspiration pneumonia. Purulent -necrotic pneumonia, pulmonary gangrene. Research of sick animals.Introduction to diagnostic methods for pneumonia.Development of treatment and prevention measures for lung diseases of inflammatory nature. Providing medical care to animals with pneumonia.Consideration of medical history. Hyperemia and pulmonary edema. Alveolar and interstitialemphysema of the lungs. Pulmonary hemorrhage.Pleural diseases. Pleurisy: etiology, pathogenesis, symptoms, diagnosis and treatment. Hydrothorax, pneumothorax. Research of sick animals.Consideration of medical history.				
		4		1.2.2.4
Topic 7. Diseases of the digestive system, liver and bile ducts . Classification of diseases of the digestive system.Diseases of the oral cavity, pharynx and esophagus.Stomatitis. Pharyngitis. Pharyngeal paralysis.Inflammation of the esophagus. Enlargement of the esophagus. Narrowing of the esophagus. Obstruction of the esophagus. Paralysis of the esophagus. Esophageal spasm. Diseases of the pancreas and abomasum. Hypotension of the scar. Scar acidosis.Scar alkalosis. Scar overflow. Paresis of the scar.Parakeratosis of the scar. Ruminite . Acute tympanic scar. Reticulitis . Traumatic reticulitis andreticuloperitonitis . Closi ng the book. Abdominaldisplacement and abomasum inflammation, Hofflund'ssyndrome . Diseases of the stomach and intestines: gastritis, gastroenteritis, gastric ulcer, enterocolitis.Diseases of the stomach and intestines with colic syndrome: classification, main symptoms, diagnostic methods, principles of treatment. Stomach enlargement. Himostasis . Coprostasis. Enteralgia .Flatulence. Intes tinal obstruction. Mechanical obstruction: torsion and torsion of the intestines, pinching, intussusception and displacement of the intestines. Thromboembolism of the mesentericarteries. Registration and consideration of medical history, diagnosis, treatment. Providing medical care for diseases of the gastrointestinal tract. Development of treatment and prevention measures for diseases of the gastrointestinal tract. Classification of diseases of the liver and bile passages . Main symptoms (jaundice , cholestasis) fo r diseases of the liver and bile passages . Hepatitis. Amyloidosis . Cirrhosis .Hepatod ystrophy : etiology , pathogenesis, symptoms ,diagnostic methods . Differential diagnosi s (hepatodystrophy , parenchymal and purulent hepatitis, cirrhosis), treatment and Prof. ilaktyka diseases of the liver . Diseases of the biliary tract : cholecystitis,cholangitis , gallstone disease . Prof. prevention oflive	2	4	22	1, 2, 3, 4, 5, 6, 7, 16
r disease . Tania 8 Paritanaal	0	2	10	1 2 2 4
Topic 8. Peritoneal diseases . Diseases Sectionidshlunkovoyi cancer . Peritoneal diseases. Peritonitis. Hydrocephalus.Differential diagnosis, treatment and prevention.Research of sick animals. Consideration of medical history. Classification of diseases of the pancreas.The main symptoms of diseases of the pancreas, pain,cholestatic and exocrine insufficiency. Pancreatitis.	0	2	10	1, 2, 3, 4, 5, 6, 7, 23
Topic 9. Diseases of the kidneys and urinary tract .	2	2	12	1, 2, 3, 4,

Classification and main syndromes of diseases of the urinary				5, 6, 7,
system. Study of kidney diseases:glomerulonephritis (nephritis),				12
pyelonephritis and its complications (peri- and paranephritis,				
pyonephrosis), kidney abscess,				
nephrosclerosis, nephrosis (nephroticsyndrome),				
hydronephrosis. Differential diagnosis, treatment and prevention of				
kidney disease. Study of urinary tract				
diseases: urocystitis . neurogenicdysfunction of the bladder (the				
sphincter spasms, paresis and paralysis of the bladder). Urolithiasis				
(nephro- and urolithiasis). Chronic hematuria of cattle.Diseases of				
the lower urinary tract: urethral obstruction and				
urethritis, diagnosis, appointment and treatment and prevention.				
Topic 10. Diseases of the nervous system .	2	2	10	1, 2, 3, 4,
Classification and syndromes of diseases of	2	2	10	5, 6, 7,
thenervous system . Vascular disorders main brain , the				13
thermal re p Joanna (hyperthermia), sun stroke				15
(hiperinsolyatsiya); ischemia and hyperemia of				
the brain and its membranes. Hydrocephalus of the ventricles of the brain (by droepeapholitic). The study of diseases of the brain				
the brain (hydroencephalitis). The study of diseases of the brain				
and spinal cord and brainmembranes inflammatory				
disorders, meningitis, encephalitis, myelitis, meningoencephalitis,				
meninhomislit . Functional nerve disease, neurosis, ep ilepsiya, ecl				
ampsia. Stress and its prevention.				
Topic 1 1. Diseases of the blood system .	0	2	8	1, 2, 3, 4,
Classification of diseases of the blood system. Study of				5, 6, 7.
anemias: posthemorrhagic , hypoplastic (myelotoxic and alimentary				
-deficient) and hemolytic (toxic, postpartum hemoglobinuria				
of cows, paroxysmal hemoglobinuria, iso-				
and autoimmune). Treatment and prevention of				
anemia. Hemorrhagicdiathesis: hemophilia				
and thrombocytopenia. Tumor lesions of the blood system				
(hemoblastosis): leukemia (leukemia), hematosarcoma .				
Topic 1 2 . Diseases of	0	2	8	1, 2, 3, 4,
the immune system .Allergic diseases (allergies) .				5, 6, 7,
Study of cellular and humoral mechanisms of protection of				14
an organism . Immune deficiencies .Study gap iferatyvnyh diseases				
of the				
immune system: hiperleykotsytozy, hiperimunohlobulinemiyi, limf				
ohranulotsytoz, plasmacytoma, macroglobulinemia, a disease				
" heavy chains ".Autoimmune diseases . General characteristics				
ofautoimmune diseases . And Dr. iopatychni disease ,autoimmune				
hemolytic disease of the				
newbornanimals, autoimmune hemolytic anemia dogs				
and cats(AGA), an autoimmune dermatosis				
(rederythematosus). Differential diagnosis, treatment and Prof. ila				
ktyka diseases of the immune system .General mechanisms				
of allergic reactions . Mediatorsof				
allergic reactions, her 's would iolohichna action. Methods				
of diagnosis of allergic diseases. Generalprinciples and methods				
for the treatment of allergicdiseases : antihistamines and anti-				
0				
inflammatory, heartand antispasmodic agents. Phytotherapy for all				
inflammatory, heartand antispasmodic agents. Phytotherapy for all ergicdiseases. Definition, etiology,				
inflammatory, heartand antispasmodic agents. Phytotherapy for all ergicdiseases. Definition, etiology, pathogenesis, diagnosis and l ikuvannya certain allergic diseases. He				
inflammatory, heartand antispasmodic agents. Phytotherapy for all ergicdiseases. Definition, etiology, pathogenesis, diagnosis and l ikuvannya certain allergic diseases. He morrhagic disease. Allergic shock. Allergic rhinitisand conjunctiva				
inflammatory, heartand antispasmodic agents. Phytotherapy for all ergicdiseases. Definition, etiology, pathogenesis,diagnosis and l ikuvannya certain allergic diseases.He morrhagic disease. Allergic shock. Allergic rhinitisand conjunctiva it. Food allergy. Drug allergy andserum sickness. Allergy to snak				
inflammatory, heartand antispasmodic agents. Phytotherapy for all ergicdiseases. Definition, etiology, pathogenesis, diagnosis and l ikuvannya certain allergic diseases. He morrhagic disease. Allergic shock. Allergic rhinitisand conjunctiva				

8 semester				
Topic 1 3 . Diseases are caused by metabolic disorders .	4	4	20	1, 2, 3, 4,
Classification, distribution, features of the course and	-			5, 6, 7,
diagnosis. Study of diseases caused by predominant disorders of				15
protein, carbohydrate and lipid metabolism: ketosis of cows and				10
sheep, myoglobinuria, obesity, alimentary dystrophy. Diseases				
caused by disorders of macronutrient metabolism : osteodystrophy				
(alimentary, enzootic, secondary),hypomagnesemia (pasture				
tetany), postpartumhypophosphatemia . Microelementosis				
of animals Distribution, general principles of diagnosis and				
prevention. Iodine deficiency. hypocobaltosis ,hypocuprose, zinc				
deficiency (paraxratosis ofpiglets), manganese, fluorine,				
selenium. Excess fluorine, boron, selenium, nickel, strontium				
andmolybdenum. Hypovitaminosis . Insufficiency of fat-soluble				
vitamins: A, D, E, K. Insufficiency of water-soluble vitamins:				
•				
thiamine, riboflavin, nicotinic acid, pyridoxine, cyanocobalamin,				
ascorbic acid.Hypervitaminosis A and. D. Differential diagnosis,				
treatment and prevention of animals with metabolic disorders.		2	6	1 2 2 4
Topic 1 4 . Diseases of the endocrine organs .Skin diseases . Study of the causes and mechanisms of endocrine	-	2	6	1, 2, 3, 4,
5				5, 6, 7,
diseases. Hypothalamic and pituitary dysfunction .Diabetes				22
mellitus. Diseases of the adrenal				
glands:hypoadrenocorticism and Cushing's syndrome Disorders of				
endocrine function of the pancreas.Diabetes.Diseases of				
the thyroid gland:hypoparathyroidism,				
postpartum hypocalcemia .Thyroid diseases: hypothyroidism,				
endemic goiter, diffuse toxic goiter. Disorders of endocrine				
function of the thymus . Allergic skin diseases: eczema, urticaria,				
atonic dermatitis, sputum. Autoimmune skin diseases: vesicular				
dermatoses, disc-shaped lupus				
erythematosus . Dermatosparaxia . Differential diagnosis of skin				
diseases. Diseases of the skin glands: seborrhea, sweat				
gland dysfunction, pyoderma. Symptoms of skin lesions: alopecia,				
excessive hair growth, changes in skin and hair pigmentation, itchy				
skin. Psychogenic skin lesion syndrome.	-	-		
Topic 1 5 . Diseases of young animals .	2	2	20	1, 2, 3, 4,
Spread of diseases in young animals. Features of agephysiology				5, 6, 7,
of young animals . And m unny protection				22
of newborn young growth . Immunodeficiency of young				
animals. Classification of diseases of young				
animals. Antenatal malnutrition . Acute hypoxia introand - and				
neonatal periods . Neonatal diseases withdiarrhea syndrome : casei				
n-				
bezoar disease, colostrumtoxicosis, dyspepsia. Differential diagnos				
is, treatmentand prevention of gastrointestinal diseases				
of newbornanimals . Omphalitis and omphalophlebitis . Metabolic				
disease of young, Mr. ipohlikemiya, hypoplasticanemia piglets,				
calves and lambs; D -hypovitaminosis(rickets); white				
muscle disease of young animals;enzootic ataxia of				
lambs. Diseases of the digestive system . Periodic tympanic scar in				
calves and lambs.Bezoar disease .				
Total	28	52	160	

MLOs	Teaching methods (directed	hours	Learning methods (self-	hours
	study)		directed study)	
MLOs 1.	Lecture, story, explanation, instruction, work with books and other sources . Learning the basic principles, types and shall t o e s use of drugs of different dosage forms . Work with animals / biological materials, in a group of 2-3 students		Reading (elaboration of theoretical material)	
MLOs 2.	Multimedia lecture, story, explanation, instruction, work with books and other sources. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 3.	Multimedia lecture, story, explanation, instruction, work with books and other sources. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 4.	Demonstration of available equipment and devices, videos, their use during diagnostic, preventive, veterinary and sanitary works.		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 5.	Demonstration of available equipment and devices, videos, their use during diagnostic, preventive, veterinary and sanitary works.		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 6.	Thematic survey during laboratory (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals, methods of laboratory work. Work with animals / biological materials, in a group of 2-3 students		Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals). Registration of the synopsis on independent work	
MLOs 7.	Thematic survey during laboratory (concept of		Solving situational tasks (orally: registration and	

4. METHODS OF TEACHING AND TEACHING

symptom, prognosis, diagnosis,	collection of anamnesis, use
syndrome, fixation of animals,	of the obtained data for
methods of laboratory work.	further research of
Work with animals / biological	animals). Registration of the
materials, in a group of 2-3	synopsis on independent
students	work

5. EVALUATION BY EDUCATIONAL COMPONENT

5.1. Diagnostic evaluation (indicated if necessary)

Computer testing for knowledge of the etiology, pathogenesis, symptoms and pathological signs of major non-communicable diseases and other issues on which the study of internal diseases of animals is based. The grade is not issued.

5.2. Summative assessment

5.2.1. To assess the expected learning outcomes provided

№	Methods of summative evaluation	Points / Weight in the overall score	Date of compilation
	6 semester	overall score	
1.	Thematic survey	20 points / 20%	Weekly
2.	Working with animals	10 points / 10%	According to the schedule of the hospital
3.	Solving situational problems	25 points / 25%	According to the schedule
4.	Protection of the abstract from independent work	15 points / 15%	According to the schedule of delivery of modules
5.	Multiple choice tests	15 points / 15%	According to the schedule
6.	Intermediate certification (multiple choice test)	15 points / 15%	according to the schedule
	7 semester		
1.	Thematic survey	20 points / 20%	Weekly
2.	Working with animals	10 points / 10%	According to the schedule of the hospital
3.	Solving situational problems	25 points / 25%	According to the schedule
4.	Protection of the abstract from independent work	15 points / 15%	According to the schedule of delivery of modules
5.	Multiple choice tests	15 points / 15%	According to the schedule
6.	Intermediate certification (multiple choice test)	15 points / 15%	according to the schedule
	8 semester		
1.	Thematic survey	20 points / 20%	Weekly
2.	Working with animals	10 points / 10%	According to the schedule of the hospital
3.	Solving situational problems	10 points / 10%	According to the schedule
4.	Protection of the abstract from independent work	15 points / 15%	According to the schedule of delivery of modules
5.	Multiple choice tests	15 points / 15%	According to the schedule
6.	Exam	30 points / 30%	In the session

	5.1.1. Evaluation criteria				
Compone nt[3]	Unsatisfact orily	Satisfactoril y	Fine	Perfectly[4]	
	<12 points i n	12-15	15-18 points	20 points	
Thematic survey	The student can play only individual fragments of the course.	The student has certain knowledge provided in the program of the discipline, has the basic provisionsst udied at a level that is defined as the minimum allowable	The student in general is well versed in the material, knows the basic provisions of the material, makes an analysis of possible situations based on them and is able to apply in solving typical practical problems, but admits some inaccuracies	The student demonstrates complete and solid knowledge of the educational material in the amount that corresponds to the program of the discipline, correctly and reasonably makes the necessary decisions in various non-standard situations.	
	<2 points	2-5	5-8 points	10 points	
Working with animals	Task requirement s not met	Most requirements are met, but some components are missing or insufficientl y disclosed, there is no analysis of other approaches to the issue	All the requirements of the task are met , but in violation of themethods	The task isperformedmethodicallycorrectly andqualita tively .Students in Mierealize thetheoretical position of the discipline in practice	
Solving situational problems	The student is not prepared to solve problems, theanswer is incomplete, some components are missing or insufficient to disclose	Using the basic theoretical provisions, the student has difficulty performing the task.Tasks are significantly formalized: there is a corresponde	The student has mastered the basic material, and understands the solution of problems, has suggestions on the direction of their solutions.Under stands the main provisions that are decisive in the course, can solve similar	The correct answer . P ri performingtasks demonstrated the ability to independently solve the set task	

5.1.1. Evaluation criteria

nce of the	problems with	
algorithm,	those discussed	
but there is	with the teacher,	
no deep	but allows a	
understandin	small number of	
g of the	inaccuracies	
work		

5.1. Formative assessment:

To assess current progress in learning and understanding areas for further improvement

N⁰	Elements of formative assessment	Date
1	Oral questioning by a laboratory (concept symptoms,	During the lesson
	prognosis, diagnosis, syndrome, fixing animals, methods	
	of implementation of laboratory work)	
2	Verbal feedback from the teacher Mr. Eid while working	During the lesson
	ona yrishennya of situation tasks (orally, registration and	
	medical history, use of the data for further study of	
	animals)during the sessions	
3	Pysmovmy feedback from	Within a week, after execution
	teacher Mr. donkey checkcompendium of independent study	
	courses	
	Self-assessment can be used as an eleme	ent of summative assessment

and formative assessment.

6. LEARNING RESOURCES (LITERATURE)

6.1. The main sources

6.1.1. Textbooks guide

1. Internal diseases of animals / Levchenko VI, etc .; VI Levchenko . Bila Tserkva, 2012. Part 1. 528 p.

2. Internal diseases of animals / Levchenko VI and others; for order. VI Levchenko . Bila Tserkva, 2001. Part 2. 544 p.

3 Internal non-communicable diseases of animals: textbook . / Tsvilikhovsky MI and others. 3rd ed., Revised . and add . Kyiv: Agrarian Education, 2014. 614 p.

4. Internal diseases of animals / Tsvilikhovsky MI and others. Kyiv: Aristei , 2004. 139 p.

5 . General therapy and prevention of internal diseases of animals: workshop / Levchenko VI and others; for order. VI Levchenko . Bila Tserkva, 2000. 224 p.

6. Internal diseases of animals: a workshop. / Tsvilikhovsky MI and others. Kyiv: Aristei , 2005. 148 p.

7. Kondrahyn Y.P, LevchenkoV.Y., Talented, GA Handbook of veterinary therapist and toxicologist. Moscow: Kolos S. 2005. 544 p.

6.1.2. Methodical support

8. Internal diseases of animals. Methods of fixation and taming of animals and basic methods of research of animals at internal diseases. Methodical instructions for laboratory-practical classes for 3rd year students in the direction of training 6.110101 - "veterinary medicine" / L.G. Ulko, VM Musienko, OI Sklyar, OV Musienko, OI Shkromada, R.V. Dolbanosova, OS Tank. - Sumy, SNAU. - 2015. - 31 p.

9. METHODICAL MANUAL "Methods of therapeutic techniques" for independent work of students of the Faculty of Veterinary Medicine on internal diseases of animals for 3rd year students of the Faculty of Veterinary Medicine in the field of training 6.110101 - "Veterinary Medicine" - Sumy: Sumy State Agrarian University, - 49

10. The use of dietary feed for internal diseases of animals. Methodical manual. - Sumy. - 2015. - 37 p.

11. General prevention of internal diseases of animals. Methodical manual for laboratory - practical classes and independent work of 3rd year students of the Faculty of Veterinary Medicine in the discipline "Internal Diseases of Animals". - Amounts 2015 - 100 s.

6.1.3. Other sources

12. http://zoolife.rv.ua

13. https://studfiles.no

14. http://tvarunu.com.ua/tsikave/130/144/

15. http://ukranimals.ru

16. http://medbib.in.ua

6.2. Additional sources

17. Workshop on clinical diagnosis of animal diseases to laboratory classes and independent work of students / [\Box N.I. Suslova, P.P. Antonenko, P.M. Sk larov and others.] \Box // Dnipropetrovsk State Agrarian University, Department of Clinical Diagnostics and Internal Diseases of Animals - Dnipropetrovsk: DSAU Publishing House, 2013. - 274 p.

18. Antonenko PP Medicinal plants in animal husbandry; textbook / N.I. Suslova, VO Postoenko (etc.) Kherson Oldie- Plus , 2014, 424p.

19. Lokes . P.I. Medicinal plants. Textbook / P.I. Lokes , I.S. Postoenko . Poltava: Environment.- K., 2010.- 264 p.

20. Lokes P.I. basics of veterinary formulation and technology of dosage forms: textbook . manual./ P.P. Shekhtakhin , TP Lokes - Krupka, NS Kanivets - Poktava , FOP Tovarov SV 2014.- 152 p.

21. Yevushenko MD Maryutin FM, Turenko VP tv etc., Phyto - pharmacology / textbook MD Yevtushenko, FM Martin, VP, VP. Turenko. Higher education, -K .:, 2004.- 432p.

22. Kozachok VS Clinical study of exotic animals: Textbook / V.S. Козачок, O.O. Skiba,

MI Tsvilikhovsky . - К .: Арістей , 2010. - 252 с.

23. Mazurkevich A.Y. Pathophysiology of animals / Mazurkevich AY, Tarasevich VL, Klyugi J. - K .: Higher school, 2000. -352 p.

6.3. Software

- Computers with software for practical work
- Microsoft Power Point data visualization Microsoft Power BI analytics and data visualization
- Multimedia projector, whiteboard and screen;
- Moodle distance learning and control system