MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE SUMY NATIONAL AGRARIAN UNIVERSITY

Department of Virology, Pathology and Poultry Diseases. prof. II Panikar Faculty of Veterinary Medicine

MODULE SYLLABUS

Diseases of small and exotic animals selective

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: (signature)



Considered, approved and approved at the meeting of the protocol from 8.06.2021 № 12
department virology, pathoanatomy
and diseases of poultry.
prof. Panikara II The head departments <u>(signature)</u> <u>R.Petrov</u> (surgame, initials)
()
Approved by:
Guarantor of the Academic program
Dean of the Faculty O. Nechyporenko
Syllabus review (attached) is provided by :O. Shkromada
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Representative of the Department of Education quality assurance, balance, b
Registered in electronic data base 2021

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Syllabus review data:

The academic	The Academic pro	Changes revised and approved				
year in which changes are made	gram attachment number with changes description	Minutes No and date of the de- partment meeting	Head of Depart- ment	Guarantor of the Aca- demic pro- gram		
2022 - 2023	supplement	NIL 15:DE AL		•		

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

1.	Title	Research methodology					
2.	Faculty/Department	Faculty of Poultry D	Faculty of Veterinary Medicine, Virology, Pathanatomy and Poultry Diseases after Prof. I.I. Panikar Department				
3.	Type (compulsory or optional)	selective	selective				
4.	Program(s) to which module is attached (to be filled in for compulsory types)	OP Veterinary Medicine 211 - Veterinary medicine					
5.	Module can be suggested for (to be filled in for optional types)						
6.	Level of the National Qualifications Framework	7					
7.	Semester and duration of module	9 semesters, 15 weeks					
8.	ECTS credits number	3					
9.	Total workload and time		Directed stu	ıdy	Self-directed study		
	allotment	Lectures	Practical	Labs			
		8		8	74		
10.	Language of instruction	English		I			
11.	Module leader	Associate	Professor o	of Virology, P	athanatomy and Poultry		
		Diseases 1	Department, c.	vet. med. Ivano	vskaya L.B.		
11.1	Module leader contact	FVM, of	ffice 15 or	17, 09653845	85, lusj0951@gmail.com		
	information	consultati	ons every Frid	lay from 14-15 to	o 15-30		
12.	General description of the	"Diseases	of small and	exotic animals"	- as a discipline lays the		
	educational component	foundatio	ns of knowled	lge about biolog	gical features, etiology of		
		methods	methods of the	exolic allillais, (tion and combating them		
		that will b	needed in fu	iture work.	tion and combating them		
13.	The purpose of the	The purp	ose of the ed	ucational compo	onent is to form students'		
	educational component	deep the	oretical know	ledge and pract	ical skills in recognizing		
		diseases	of small don	nestic and exot	ic animals, studying the		
		etiology,	pathogenesis,	symptoms, cou	urse, prognosis, treatment		
		and preve	ention depend	ing on the spec	ific conditions of keeping		
1.4	Due no sucieita e ferra de la inc	and feeding	ng small dome	stic and exotic a	nimals		
14.	OK connection with	hased on	the foundation	tions of genera	s for clinical subjects, is		
	other educational	Animal	Physiology	Clinical Diagn	osis Epizootology and		
	components of OP	Infectious	Diseases, Pa	rasitology and I	nvasive Diseases, Internal		
	1	Medicine	, Animal Obst	etrics and Gynec	ology.		
15.	The policy of academic	Attendand	ce is mandate	ory, unacceptab	le delays, students must		
	integrity	follow the	e rules of cond	luct in the classr	oom; You are not allowed		
		to write o	ff and use mol	oile phones whil	e writing tests, taking tests		
		and exam	s. Rearrangem	ent of modules of	occurs for good reasons.		
17	Linkin Maadla	Abstracts	must have ref	erences to the lit	erature used.		
10	LINK IN MOODIE	nups://cd	n.snau.edu.ua/	mooule/enrol/inc	uex.pnp/id=1929		

2. CORRELATION BETWEEN MODULE LEARNING OUTCOMES (MLOs) AND PROGRAM LEARNING OUTCOMES (PLOs)

MI Ogi			II are accorded
MILOS.	<u> </u>	Us	now assessed
On successful completion of the	1	7	
module the learner will be able	Os	Os	
to:	PL	PL	
MLOs 1. Understand the importance of discipline in shaping the worldview of a veterinarian. Follow safety rules when working with small and exotic animals. Distinguish between animal breeds and their species. Know the regulatory requirements for keeping and feeding animals, anatomical and physiological features, clinical and biochemical parameters of blood, urine. Master the technique and methods of blood sampling and administration of drugs to small and exotic animals. Make blood smears, obtain blood serum and examine them, conduct clinical	X	X	 Oral control (participation in a discussion on the topic of the lecture) Laboratory-practical control (performance of tasks in laboratory works). Written control (performance of tasks on independent work, independent elaboration of a theme as a whole or separate questions of independent work (results of testing, preparation of presentations, presentation report of independently developed material)) Solving situational problems
examinations of animals.			
MLOs 2. Know the main infectious and invasive diseases of small and exotic animals: etiology, diagnosis, treatment, prevention. Prepare the animal for vaccination and use vaccination schemes for dogs and cats to prevent infectious diseases; prepare the drug and conduct microscopic diagnosis of dermatophytosis; to carry out coprooscopic diagnosis of helminthiasis, microscopic (blood smears, native blood drop) diagnosis of babesiosis, heartworm disease and diagnosis of arachnoentomoses of animals.	X	X	 Oral control (participation in a discussion on the topic of the lecture) Laboratory-practical control (performance of tasks in laboratory works). Working with animals Written control (performance of tasks on independent work, independent elaboration of a theme as a whole or separate questions of independent work (results of testing, preparation of presentations, presentation report of independently developed material)) Solving situational problems
MLOS 5. Know the sexual cycle in different animals, physiology and pathology of pregnancy, pathology of childbirth, postpartum diseases. Provide obstetric care for normal and abnormal births, castrate males and females. Do a caesarean section Capture animals. Apply the scheme of clinical research of animals. Carry out registration and collection of anamnesis. Analyze the obtained results Understand the significance of the results of animal	X	X	 Oral control (participation in a discussion on the topic of the lecture) Laboratory-practical control (performance of tasks in laboratory works). Working with animals Written control (performance of tasks on independent work, independent elaboration of a theme as a whole or separate questions of independent work (results of testing, preparation of presentations, presentation report of
registration and anamnesis collection Use the obtained data for			independently developed material)) - Solving situational problems

further clinical research of animals.			- Final control (solving tests)
MLOs 4. Diagnose skin diseases,	х	х	- Oral control (participation in a
wounds, hernias, bone and joint			discussion on the topic of the
diseases: etiology, diagnosis.			lecture)
Carry out treatment and prevention			- Laboratory-practical control
of diseases of various etiologies.			(performance of tasks in laboratory
Learn to diagnose feline urolithiasis			works). Working with animals
and provide first aid for urethral			- Written control (performance of
obstruction.			tasks on independent work,
Diagnose diseases of turtles and			independent elaboration of a theme
iguanas of infectious and non-			as a whole or separate questions of
infectious etiology. Capture			independent work (results of
animals. Apply the scheme of			testing, preparation of
clinical research of animals. Carry			presentations, presentation report of
out registration and collection of			independently developed material))
anamnesis. Analyze the obtained			Solving situational problems
results Understand the significance			
of the results of animal registration			
and anamnesis collection Use the			
obtained data for further clinical			
research of animals.			

3. MODULE INDICATIVE CONTENT

Topic. List of issues to be addressed	Distribution of hourse			Learning resources ¹			
within the topic	Di	Directed study		Directed study		Self- directed study	
	Lectures	Practical	Labs				
Topic 1. Defining the discipline and its role in the formation of a veterinarian Small animals their	0				[1, 7, 14, 17, 20, 22]		
importance. Exotic animals and their significance.	2			6			
Topic 2. Diseases of small animals of viral etiology.	1		2	6	[1, 5, 9, 16, 19, 25]		
Topic 3. Diseases of animals of bacterial etiology.	1		2	6	[1, 10, 12, 15, 20, 27]		
Topic 4. Parasitic diseases of small and exotic animals.	2		2	12	[1, 3, 6, 8, 17, 21]		
Topic5.Anatomicalandphysiologicaldataonthereproductive system of femalesandmales.Sexualcycle.Matingfertilization.Physiologyofpregnancy.	1			10	[2, 4, 7, 9, 18, 23]		
Topic 6. Pathology of pregnancy: etiology, symptoms, diagnosis, treatment. Obstetric care. Granting				10	[4, 7, 11, 15, 24]		

¹Конкретне джерело із основної чи додатково рекомендованої літератури

rules obstetric care.				
Topic 7. Internal diseases of small and exotic animals. Urolithiasis in cats and dogs. Etiology, diagnosis, treatment, prevention.	1	2	12	[2, 6, 11, 17, 26]
Topic 8. Surgical diseases of small and exotic animals			12	[3, 5, 12, 14, 25]
Total	8	8	74	

4. TEACHING AND TEACHING METHODS

MLOs	Teaching methods (directed	Hours	Learning methods (self-	Hours
	ctudy)		directed study)	
MLOs 1	Survey of students with explanations of key issues of the subject. Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions. Mastering practical skills, methods of laboratory work (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	3	Independent elaboration of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material of registration of the synopsis on independent work Getting acquainted with the information of official sites on the topic of the lesson or a particular issue. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further.	16
MLOs 2	Survey of students with explanations of key issues of the subject. Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions. Mastering practical skills, methods of laboratory work (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	5	Independent elaboration of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material of registration of the synopsis on independent work Getting acquainted with the information of official sites on the topic of the lesson or a particular issue. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).	18
MLOs 3	Survey of students with explanations of key issues of the subject. Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions.	4	Independent elaboration of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material of registration of the synopsis on independent work	20

	Mastering practical skills, methods of laboratory work (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.		Getting acquainted with the information of official sites on the topic of the lesson or a particular issue. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).	
MLOs 4	Survey of students with explanations of key issues of the subject. Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions. Mastering practical skills, methods of laboratory work (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	3	Survey of students with explanations of key issues of the subject. Interactive discussion of the topic in the form of a discussion, which includes information presented in diagrams and drawings, answers to students' questions. Mastering practical skills, methods of laboratory work (concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	20

5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

№	Summative assessment methods	Grades	Deadline
1.	Oral control (participation in a discussion on the topic of the lecture).	30 marcs / 30%	Weekly
2.	Written control (performance of tasks on independent work). Solving situational problems.	15 marcs / 15%	According to the schedule
3.	Laboratory and practical control (performance of tasks in laboratory work) Work with animals.	40 marcs / 40%	According to the schedule of the labs
4.	Final control (solving tests).	15 marcs / 15%	According to the schedule of modules

5.2.2. Grading criteria

Summative assessment method	Unsatisfactory	Satisfactory	Good	Excellent
	<14 points	15-24 points	25-34 points	35–40 points
Thematic survey. Oral control	The student can reproduce only individual fragments of the course.	The student has certain knowledge provided in the program of the discipline, has the	The student is generally well versed in the material, knows the basic	The student demonstrates complete and solid knowledge of the educational

		basic provisions studied at a level that is defined as the minimum allowable	principles of the material, makes an analysis of possible situations based on them and is able to apply it in solving typical practical problems, but admits some inaccuracies	material in the amount that corresponds to the program of the discipline, correctly and reasonably makes the necessary decisions in various non- standard situations.
	<9 points	10-19 points	20-29 points	30 points
Laboratory- practical control (performance of tasks in laboratory works). Working with animals	The student is not prepared to solve problems, the answer is incomplete, some components are missing or insufficient to disclose	Most of the requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue Using the basic theoretical provisions, the student has difficulty performing the task. Execution of tasks is significantly formalized: there is compliance with the algorithm, but there is no deep understanding of the work	The student has mastered the basic material, and understands the solution of problems, has suggestions on the direction of their solutions. All the requirements of the task are met, but in violation of the methods	The task is performed methodically correctly and qualitatively. The student is able to implement the theoretical provisions of the discipline in practice When performing tasks, he showed the ability to solve tasks independently
	<5 points	5-8 points	8-14 points	15 points
Written control (performance of tasks on independent work). Protection of the abstract from independent work. Solving clinical and situational problems Multiple choice	The student does not have a complete understanding of the material on the discipline. The student is not prepared to independently solve problems that outline the purpose and objectives of the discipline	Despite the fact that the student completed the program of the discipline, he worked passively, his answers during the design of works are mostly incorrect, unfounded	Knows the characteristics of the main provisions that are crucial in performing the design of tasks and explaining the decisions made, within the discipline being studied. Errors in the answers are not systemic.	When performing tasks, he showed the ability to solve tasks independently. The synopsis is an impeccably designed, logically arranged material with an understanding of the interrelationships of the processes revealed on this topic. <i>15 points</i>
tests	The student gives the correct answer	The student has	The student is generally well	The student demonstrates

	to several questions $(\leq 33\% \text{ of the correct answers}).$	provided in the program of the discipline, has the basic principles studied and gives the correct answer to several questions (34-59% of correct answers).	versed in the material, knows the basics of the material, and gives the correct answer to several questions (60- 89% of the correct answers).	complete and solid knowledge of the study material in the amount that corresponds to the program of the discipline, correctly answers the test questions (90-100% of correct answers).
Design and	\leq 5 points	6–9 points	10–13 points	14–15 points
presentation report	The student does	Despite the fact that	Knows the basic	The student does
of independently	not have a complete	the student	provisions that are	not have a complete
processed materia	understanding of the	completed the	crucial in	understanding of
	material on the	program of the		the material on the
	discipline. The	discipline, but some		discipline. The
	student did not	components are		student did not
	perform	missing or		perform
	independent study	insufficiently		independent study
	of the material.	developed, the		of the material.
		student worked		
		passively.		

5.3. Formative assessment

Formative exercises are designed to enable students to develop particular aspects of their learning, prior to summative assessments. Formative exercises are designed to help students use feedback and self-reflection to manage and develop their learning so that they can see how to improve their work.

N⁰	Formative Assessment elements	Date	
1	Oral interview of students with explanation of key questions of	During the lesson according to	
	the subject, answers to students' questions, mastering practical	the schedule	
	skills (methods of laboratory work)		
2	Oral feedback from the teacher while working on solving	During the lesson according to	
	clinical and situational problems	the schedule	
3	Written feedback from the teacher after checking the syllabus	Within a week, after execution	
	for self-study of the discipline.		

Self-assessment can be used as an element of summative assessment and formative assessment.

6. LEARNING RESOURCES (LITERACHA)

6.1. The main sources

6.1.1 Textbooks, manuals

1. Diseases of dogs and cats. Ed. A.I. Mazurkevich. K .: "Harvest". 2006. 428 p.

2. Borisevich V.B., Borisevich B.V. Infectious and non-communicable diseases of dogs. K., 2007. 435 p.

3. Bogdanova I.B. Food for cats and dogs. M .: 2002. 354 s.

4. Gaskell R.M., Bennett M. Handbook of infectious diseases of dogs and cats. M .: "Aquarium", 2000. 222 p.

5. Carlson D.D., Giffin D.M., Carlson L.D. Home veterinary guide for cat owners. M .: Tsentrpoligraf, 2007. 573 s.

6. Nimand H.G., Suter P.B. Diseases of dogs. M .: "Aquarium", 2001. 806 p.

7. Starchenkov S.V. Diseases of small animals. S.-P. : 2009. 509 p.

8. Filippov Y.I., Pridatko A.G., Eliseev A.N., etc. Domestic cats. M. Rosagropromizdat ", 2001. 309 p.

9. Chandler E.A., Gaskell K.J., Gaskell R.M. Diseases of cats. M .: "Aquarium", 2002. 687 p.

10. Jarofke D., Lande J. Reptiles. Diseases and treatment. M .: "Aquarium", 2009. - 317 p.

11. Pritvorov A. Exotic pets. M. : Kristall, 2006. 176 p.

12. Helmutdinov R.Ya., Ivanov A.V., Panin A.N. Infectious diseases of exotic and wild animals M .: Колос, 2010. 666 p.

6.1.2. Methodical support

13. Reshetilo O.I. Methodical instructions for conducting laboratory-practical classes on the subject "Diseases of small animals" on the topic: "Diseases of dogs of viral etiology" for students of EQL "Bachelor" of the Faculty of Veterinary Medicine. Sumy: SNAU, 2015. 30 p.

12. Reshetilo O.I. Methodical instructions to laboratory-practical classes on the subject "Diseases of small animals" on the topic: "Diseases of cats of viral etiology" part 1 for students of EQL "Bachelor" of the Faculty of Veterinary Medicine. Sumy, 2015. 22 p.

13. Reshetilo O.I. Methodical instructions to laboratory-practical classes on the subject "Diseases of small animals" on the topic: "Diseases of cats of viral etiology" part 2. Sumy, 2016 - 26 p.

14. Reshetilo O.I. Methodical instructions for conducting laboratory-practical classes from the discipline "Diseases of small animals" on the topic: "Diseases of dogs of bacterial etiology" for students of the Faculty of Veterinary Medicine. Sumy, 2016. 19 p.

15. Reshetilo O.I. Methodical instructions for independent work in the discipline "Diseases of small animals" for students in the direction of training 211 "Veterinary Medicine", 212 "Veterinary Hygiene, Sanitation and Examination" EQL "Bachelor" of the Faculty of Veterinary Medicine. Sumy, 2017. 95 p.

16. Reshetilo O.I. Methodical instructions to lectures on the subject "Diseases of small animals" for students majoring in 211 "Veterinary Medicine" educational degree "Bachelor" of the Faculty of Veterinary Medicine. Sumy, 2018. 93 p.

6.1.3. Other sources

17. Belov AD, Danilov EP, Dukur II и bo. Болезни собак: Справочник [Electronic resource] / собак: Справочник. M.: Agropromizdat, 2000. Болезни 368 p.: Access mode:http://www.rulit.net/tag/biology/bolezni-sobak-spravochnik-download-free-170032.html 18. Berghoff P. K. Small pets. Diseases and treatment. [Electronic resource] .. Small pets. Diseases and treatment. M .: Aquarium, 1999. 224 p. Access mode: http://do.gendocs.ru/docs/index-363020.html

19. Diseases of dogs. [Electronic resource]. Moscow Veterinary Web Center. - Access mode:<u>http://webmvc.com/bolezn/dog.php</u>

20. Diseases of dogs. Veterinary reference book [Electronic resource]. -Access mode: http://www.petshealth.ru/pets/dog/veterinar/sprav/vet_sprav.shtml

21. Dubrovina EV Skin diseases of cats.[Electronic resource]. Access mode:<u>http://vet-online.wwstudio.net/practics/Details/5</u>

22. <u>Diseases of dogs</u>. <u>ZOOVET Training Center[Electronic resource]</u>. - Access mode: http://www.zoovet.ru/diseases.php?vid=82

23. Moskovkina NN, <u>Sotskaya</u> MN Genetics and hereditary diseases of dogs and cats [Electronic resource]. / H.H.<u>Moskovkina,</u>. Genetics and hereditary diseases of dogs and cats. M .: OOO "Aquarium LTD", 2000. 448 p. Access mode: http://www.rulit.net/tag/biology/genetika-i-nasledstvennye-bolezni-sobak-i-koshek-download-free-178130.html

24. Starchenkov SV Diseases of small animals. Diagnosis. Treatment. Prevention. [Electronic resource. Diseases of small animals. Diagnosis. Treatment. Prevention. - Doe. - 2009. - Access mode:<u>http://mirknig.com/2011/10/08/bolezni-melkih-zhivotnyh-diagnostika-lechenie-profilaktika.html</u>

6.2. Additional sources

25. Bratyukha S., Nagorny I, Revenko I., etc. Diseases of your pets. K. "Alterpress". 2005. 335 p.

26. Allen V.E. Complete course in obstetrics and gynecology for dogs. M .: "Aquarium", 2002. 446 p.

27. Kuzmin AA Aibolit's tips. H. ICP "Parity", 2005. 427 p.

Syllabus review data:

The academic	The Academic	Change	es revised and approved	
year in which changes are made	program attachment number with changes description	Minutes No and date of the department meeting	Head of Department	Guarantor of the Academic program
2022-2023		No 12 dated 15.06.2022		

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

9.	Total workload and time	Directed study			Self-directed study
	allotment	Lectures	Practical	Labs	
		8		8	74

3. MODULE INDICATIVE CONTENT

Topic. List of issues to be addressed within	Distribution of hourse				Learning resources ²
the topic	Directed study		Self- directed study		
	Lectures	Practical	Labs	•	
Topic 1. Defining the discipline and its role in the formation of a veterinarian. Small animals, their importance. Exotic animals and their significance.	2			6	[1, 7, 14, 17, 20, 22]
Topic 2. Diseases of small animals of viral etiology.	1		2	6	[1, 5, 9, 16, 19, 25]
Topic 3. Diseases of animals of bacterial etiology.	1		2	6	[1, 10, 12, 15, 20, 27]
Topic 4. Parasitic diseases of small and exotic animals.	2		2	12	[1, 3, 6, 8, 17, 21]
Topic 5. Anatomical and physiological data on the reproductive system of females and males. Sexual cycle. Mating and fertilization. Physiology of pregnancy.	1			10	[2, 4, 7, 9, 18, 23]
Topic 6. Pathology of pregnancy: etiology, symptoms, diagnosis, treatment. Obstetric care. Granting rules obstetric care.				10	[4,7,11,15,24]
Topic 7. Internal diseases of small and exotic animals. Urolithiasis in cats and dogs. Etiology, diagnosis, treatment, prevention.	1		2	12	[2, 6, 11, 17, 26]
Topic 8. Surgical diseases of small and exotic animals				12	[3, 5, 12, 14, 25]
Total	8		8	74	