

**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

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(signature) (surname, initials) (academic degree and title, position)

Considered, approved and approved at the meeting of the department virology, pathoanatomy and diseases of poultry. prof. Panikara II	protocol from 8.06.2021 № 12
	The head departments <u></u> <u>R. Petrov</u> (signature) (surname, initials)

Approved by:

Guarantor of the Academic program L. Ulko

Dean of the Faculty O. Nechyporenko

Syllabus review (attached) is provided by : O. Shkromada

G. Zon

Representative of the Department of Education Quality assurance, licensing and accreditation

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Syllabus review data:

The academic year in which changes are made	The Academic program attachment number with changes description	Changes revised and approved		
		Minutes No and date of the department meeting	Head of Department	Guarantor of the Academic program

1. MODULE OVERVIEW

1.	Title	VK 29. Diseases of small and exotic animals			
2.	Faculty/Department	Veterinary medicine / virology, pathoanatomy and poultry diseases. prof. Panikara II			
3.	Type (compulsory or optional)	Selective			
4.	Program(s) to which module is attached	Veterinary medicine / 211 Veterinary medicine			
5.	Level of the National Qualifications Framework	NRC of Ukraine - level 7, QF-EHEA - second cycle, EQF-LLL - level 7			
6.	Semester and duration of module	6 semester, 18 weeks			
7.	ECTS credits number	4.0			
8.	Total workload and time allotment	Contact work (classes)		Independent work	
		Lectures	Practical / seminar	Laboratory	
		16		30	74
9.	Language of instruction	English			
10.	Module leader	Alexander Ivanovich Reshetilo			
11.1	Module leader contact information	mob. tel. +380991004548, e-mail reshetilooi@ukr.net https://vet.snau.edu.ua/kafedri/kafedra-ekonomiki/sklad-kafedri/reshetilo-oleksandr-ivanovich-k-vet-n-docent/			
11.	Module description	«Diseases of small and exotic animals "- as a discipline lays the foundations of knowledge about biological features, etiology of diseases of small and exotic animals, causes, modern methods of diagnosis, treatment, prevention and combating them that will be needed in future work.			
12.	Module aim	The purpose of the educational component is to form students' deep theoretical knowledge and practical skills in recognizing internal diseases of small domestic and exotic animals, studying the etiology, pathogenesis, symptoms, course, prognosis, treatment depending on the specific conditions of keeping and feeding small domestic and exotic animals			
13.	Module Dependencies (prerequisites, co-requisites, incompatible modules)	The educational component, being the basis for clinical subjects, is based on the foundation of general theoretical disciplines: Animal Physiology, Clinical Diagnosis, Epizootology and Infectious Diseases, Parasitology and Invasive Diseases			
14.	The policy of academic integrity	Applicants are explained the value of acquiring new knowledge; value and functions of academic integrity; report the inadmissibility of plagiarism, encourage independent performance of educational tasks, correct reference to sources of information in the case of borrowing scientific materials. Write-offs during tests and exams are prohibited (including the use of mobile devices). Papers should have correct textual references to the literature used. For violation of academic integrity, students may be held subject to the following academic liability:			

		Academic plagiarism - grade 0, re-completion of the task. Academic fraud (writing off, deception, publishing someone's work for their own) - cancellation of points; re-assessment evaluation re-execution of non-independently performed work with new source data; Use of electronic devices during the final control of knowledge - suspension from work, grade 0, re-passing the final control
15.	Link in Moodle	https://cdn.snau.edu.ua/moodle/enrol/index.php?id=1929

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

MLOs: On successful completion of the module the learner will be able to:	PLOs1	PLOs2	How assessed
MLOs 1. Understand the importance of discipline in shaping the worldview of a veterinarian. Adhere to 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 blood sampling and administration of drugs to small and exotic animals. Make blood smears, obtain blood serum and examine them, conduct clinical examinations of animals.	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture) - Laboratory and practical control (performance of tasks in laboratory work). - Written control (performance of tasks on independent work, independent study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material)) - Solving situational problems
MLOs 2. Know main infectious and invasive diseases of animals: etiology, diagnosis, treatment, prevention. Prepare the animal for vaccination and use vaccination schemes for dogs and cats for the prevention of infectious diseases; prepare the drug and perform microscopic diagnosis of dermatophytosis; to carry out coproscopic diagnosis of helminthiasis, microscopic (blood smears, native blood drop) diagnosis of babesiosis, heartworm disease and diagnosis of arachnoidoses of animals	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture) - Laboratory and practical control (performance of tasks in laboratory work). Working with animals - Written control (performance of tasks on independent work, independent study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material)) - Solving situational problems
MLOs 3. Know the sexual cycle in different animals, physiology and pathology of pregnancy, pathology of childbirth,	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture)

<p>postpartum diseases. Provide obstetric care in normal and pathological births, castrate males and females. Do a cesarean section Fix 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 registration and anamnesis collection Use the obtained data for further clinical study of animals.</p>			<ul style="list-style-type: none"> - Laboratory and practical control (performance of tasks in laboratory work). Working with animals - Written control (performance of tasks on independent work, independent study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material)) - Solving situational problems - Final control (solving tests)
<p>MLOs 4. Diagnose skin diseases, wounds, hernias, diseases of bones and joints: etiology, diagnosis. Carry out treatment and prevention of diseases of various etiologies. Master the diagnosis of urolithiasis in cats and provide first aid for urethral obstruction. Diagnose diseases of turtles and iguanas of infectious and non-infectious etiology. Fix 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 registration and anamnesis collection Use the obtained data for further clinical study of animals.</p>	+	+	<ul style="list-style-type: none"> - Oral control (participation in a discussion on the topic of the lecture) - Laboratory and practical control (performance of tasks in laboratory work). Working with animals - Written control (performance of tasks on independent work, independent study of the topic as a whole or individual issues of independent work (test results, preparation of presentations, presentation report of self-developed material)) - Solving situational problems

3. MODULE INDICATIVE CONTENT

Topic.	Distribution of hours				Learning resources ¹
	Directed stud			Independent work	
	Lecture	Practicals	Lab.		
Topic 1. Definition of the discipline and its role in the formation of a veterinarian. Small animals, their significance. Exotic animals and their significance	2		2	6	[1, 7, 14, 17, 20, 22]
Topic 2. Animal diseases of viral etiology.	6		4	6	[1, 5, 9, 16, 19, 25]
Topic 3. Diseases of animals of bacterial etiology.	2		2	6	[1, 10, 12, 15, 20, 27]
Topic 4. Parasitic diseases of small and exotic animals.	2		6	12	[1, 3, 6, 8, 17, 21]

¹ Specific source from the main or additional recommended literature

Topic 5. Anatomical and physiological data on the reproductive system of females and males. Sexual cycle. Mating and fertilization. Physiology of pregnancy.	2		2	10	[2, 4, 7, 9, 18, 23]
Topic 6. Pathology of pregnancy: etiology, symptoms, diagnosis, treatment. Obstetric care. Granting rules obstetric care.			4	10	[4, 7, 11, 15, 24]
Topic 7. Internal diseases small and exotic animals. Urolithiasis in cats and dogs. Etiology, diagnosis, treatment, prevention.	2		4	12	[2, 6, 11, 17, 26]
Topic 8. Surgical diseases of small and exotic animals			6	12	[3, 5, 12, 14, 25]
Total	16		30	74	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLOs1	Survey of students with explanation 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 (the concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	10	Independent processing of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material Fr. drawing up a synopsis of independent work Acquaintance with the information of official sites on a subject of employment or a separate question. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).	16
MLOs 2	Survey of students with explanation 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 (the concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	12	Independent processing of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material Fr. drawing up a synopsis of independent work Acquaintance with the information of official sites on a subject of employment or a separate question. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for	18

			further research of animals).	
MLOs 3	Survey of students with explanation 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 (the concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	12	Independent processing of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material Fr.drawing up a synopsis of independent work Acquaintance with the information of official sites on a subject of employment or a separate question. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).	20
MLOs 4	Survey of students with explanation 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 (the concept of symptom, prognosis, diagnosis, syndrome, fixation of animals). Work with animals / biological materials.	12	Independent processing of materials on the topic. Memorization of theoretical material, observation. On the basis of the studied and processed material Fr.drawing up a synopsis of independent work Acquaintance with the information of official sites on a subject of employment or a separate question. Solving situational tasks (orally: registration and collection of anamnesis, use of the obtained data for further research of animals).	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)	<i>30 points / 30%</i>	Weekly
2.	Written control (performance of tasks on independent work). Solving situational problems	<i>15 points / 15%</i>	According to the schedule
3.	Laboratory and practical control (performance of tasks in laboratory work) Work with animals	<i>40 points / 40%</i>	According to the schedule of the hospital
4.	Final control (solving tests)	<i>15 points / 15%</i>	According to the schedule of delivery of modules

5.2.2. Grading criteria

Summative assessment method	Unsatisfactory	Satisfactory	Good	Excellent
	<i><14 points</i>	<i>15-24 points</i>	<i>25-34 points</i>	<i>35-40 points</i>
Thematic survey. Oral control	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 provisions studied 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.
	<i><9 points</i>	<i>10-19</i>	<i>20-29 points</i>	<i>30 points</i>
Laboratory and practical control (performance of tasks in laboratory work). Working with animals	The student is not prepared to solve problems, the answer is incomplete, some components are missing or insufficient to disclose	Most 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. Tasks are significantly formalized: there is a correspondence of 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
	<i><5 points</i>	<i>5-8</i>	<i>8-14 points</i>	<i>15 points</i>
Written control (performance of tasks on independent work). Protection of the abstract from independent work. Solving clinical and	The student does not have a complete understanding of the material on the discipline. The student is not prepared to independently solve problems that	Despite the fact that the student completed the program of the discipline, he worked passively, his answers during the registration of works are mostly	Knows the characteristics of the main provisions that are crucial in performing the design of tasks and explaining the decisions made, within the	When performing tasks, he showed the ability to solve tasks independently. The abstract is decorated with impeccably, logically arranged material with an

situational problems	outline the purpose and objectives of the discipline	incorrect, unfounded	discipline being studied. Errors in the answers are not systemic.	understanding of the relationships of the processes disclosed on this topic.
Multiple choice tests	The student gives the correct answer to several questions ($\leq 33\%$ of the correct answers).	The student has some knowledge provided in the program of the discipline, has the basic provisions being studied and gives the correct answer to several questions (34-59% of correct answers).	The student is generally well versed in the material, knows the basic provisions of the material, and gives the correct answer to several questions (60-89% of the correct answers).	The student demonstrates 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).

5.3. Formative assessment

To assess current learning progress and understand areas for further improvement

No	Elements of formative assessment	Date
1	Oral interview students with an explanation of key questions of the subject, answers to students' questions, mastering practical skills (methods of laboratory work)	During the lesson
2	Oral feedback from the teacher while working on the solution of clinical and situational problems	During the lesson
3	Written feedback from the teacher after checking the synopsis with independent study of the discipline.	Within a week, after execution

6. LEARNING RESOURCES

.The main sources

6.1.1. Textbooks guide

1. Diseases of dogs and cats. Ed. A.I. Mazurkevich. K. : "Harvest". 2006. 428 p.
2. Borisevich VB, Borisevich BV Infectious and non-communicable diseases of dogs. K., 2007. 435 p.
3. Bogdanova IB Food for cats and dogs. M. : 2002. 354 s.
4. Gaskell RM, Bennett M. Handbook of infectious diseases of dogs and cats. M. : "Aquarium", 2000. 222 p.
5. Carlson DD, Giffin DM, Carlson LD. Home veterinary guide for cat owners. M. : Tsentrpoligraf, 2007. 573 s.
6. Nimand HG, Suter PB. Diseases of dogs. M. : "Aquarium", 2001. 806 p.
7. Starchenkov SV Diseases of small animals. S.-P. : 2009. 509 s.
8. Filippov YI, Pridatko AG, Eliseev AN, etc. Domestic cats. M. Rosagropromizdat ", 2001. 309 p.
9. Chandler EA, Gaskell KJ, Gaskell RM. Diseases of cats. M. : "Aquarium", 2002. 687 p.
10. Jarofke D., Lande J. Reptiles. Diseases and treatment. M. : «Aquarium», 2009. - 317 p.

6.1.2. Methodical support

11. Reshetilo OI 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, 2015. 30 p.
12. Reshetilo OI 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 OI 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 OI 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 OI 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 OI 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 во. Болезни собак: Справочник [Electronic resource] / Болезни собак: Справочник. М .: Agropromizdat, 2000. 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. М .: 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: <http://webmvc.com/bolezni/dog.php>
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: <http://vet-online.wvstudio.net/practics/Details/5>
22. [Diseases of dogs. ZOOVET Training Center](#)[Electronic resource]. - Access mode: <http://www.zoovet.ru/diseases.php?vid=82>
23. Moskovkina NN, [Sotskaya MN](#) Genetics and hereditary diseases of dogs and cats [Electronic resource]. / H.H.[Moskovkina](#), . Genetics and hereditary diseases of dogs and cats. М .: ООО "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: <http://mirknig.com/2011/10/08/bolezni-melkih-zhivotnyh-diagnostika-lechenie-profilaktika.html>

6.2. Additional sources

25. Bratyukha S., Nagorny I, Revenko I., etc. Diseases of your pets. К. "Alterpress". 2005. 335 p.
26. Allen V.E. Complete course in obstetrics and gynecology for dogs. М .: "Aquarium", 2002. 446 p.
27. Kuzmin AA Aibolit's tips. H. ICP "Parity", 2005. 427 p.

6.3. Software

- Microsoft Power Point - data visualization Microsoft Power BI - analytics and data visualization
- Multimedia projector, whiteboard and screen;
- Moodle distance learning and control system

Рецензія на Робочу програму (силабус)

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента гарантом або членом проєктної групи	Так	Ні	Коментар
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) відповідають передбаченим ПРН (для обов'язкових ОК)	+		
Результати навчання за освітнім компонентом дають можливість виміряти та оцінити рівень їх досягнення	+		

Член проєктної групи ОП _____ Шкромада О.І.

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента викладачем відповідної кафедри	Так	Ні	Коментар
Загальна інформація про освітній компонент є достатньою	+		
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) дають можливість виміряти та оцінити рівень їх досягнення	+		
Результати навчання (ДРН) стосуються компетентностей студентів, а не змісту дисципліни (містять знання, уміння, навички, а не теми навчальної програми дисципліни)	+		
Зміст ОК сформовано відповідно до структурно-логічної схеми	+		
Навчальна активність (методи викладання та навчання) дає змогу студентам досягти очікуваних результатів навчання (ДРН)	+		
Освітній компонент передбачає навчання через дослідження, що є доцільним та достатнім для відповідного рівня вищої освіти	+		
Стратегія оцінювання в межах освітнього компонента відповідає політиці Університету/факультету	+		
Передбачені методи оцінювання дозволяють оцінити ступінь досягнення результатів навчання за освітнім компонентом	+		
Навантаження студентів є адекватним обсягу освітнього компонента	+		
Рекомендовані навчальні ресурси є достатніми для досягнення результатів навчання (ДРН)	+		
Література є актуальною	+		

Рецензія на Робочу програму (силабус)

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента гарантом або членом проектної групи	Так	Ні	Коментар
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) відповідають передбаченим ПРН (для обов'язкових ОК)	+		
Результати навчання за освітнім компонентом дають можливість виміряти та оцінити рівень їх досягнення	+		

Член проектної групи ОП _____ Шкромда О.І.

Параметр, за яким оцінюється робоча програма (силабус) освітнього компонента викладачем відповідної кафедри	Так	Ні	Коментар
Загальна інформація про освітній компонент є достатньою	+		
Результати навчання за освітнім компонентом (ДРН) відповідають НРК	+		
Результати навчання за освітнім компонентом (ДРН) дають можливість виміряти та оцінити рівень їх досягнення	+		
Результати навчання (ДРН) стосуються компетентностей студентів, а не змісту дисципліни (містять знання, уміння, навички, а не теми навчальної програми дисципліни)	+		
Зміст ОК сформовано відповідно до структурно-логічної схеми	+		
Навчальна активність (методи викладання та навчання) дає змогу студентам досягти очікуваних результатів навчання (ДРН)	+		
Освітній компонент передбачає навчання через дослідження, що є доцільним та достатнім для відповідного рівня вищої освіти	+		
Стратегія оцінювання в межах освітнього компонента відповідає політиці Університету/факультету	+		
Передбачені методи оцінювання дозволяють оцінити ступінь досягнення результатів навчання за освітнім компонентом	+		
Навантаження студентів є адекватним обсягу освітнього компонента	+		
Рекомендовані навчальні ресурси є достатніми для досягнення результатів навчання (ДРН)	+		
Література є актуальною	+		

Рецензент викладач кафедри вірусології, патанатомії та хвороб птиці, професор Зон Г.А. _____
(назва) (посада, ПІБ) (підпис)