

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
SUMY NATIONAL AGRARIAN UNIVERSITY**

**Department of Epizootology and Parasitology
Faculty of Veterinary Medicine**

MODULE SYLLABUS

Infectious diseases of companion animals

optional

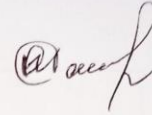
Implemented in the “Veterinary Medicine” Academic Program

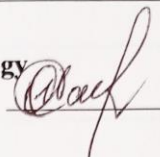
Area of specialization 211 “Veterinary Medicine”

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

Sumy-2021

Author: Dr. Veterinary Science, Professor (O.I. Kasianenko)




Module syllabus agreed at the Department meeting	Minutes No 22 dated June 18 2021
	Head of Episootology and Parasitology Department  (O.I. Kasianenko)

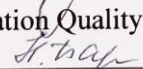
Approved by:

Guarantor of the Academic program  (Shkromada O.I.)

Dean of the Faculty  (Nechyporenko O.L.)

Syllabus review (attached) is provided by :  (Ulko L.G.)

 (Nahorna L.V.)

Representative of the Department of Education Quality assurance,
licensing and accreditation  (J. Topor)

Registered in electronic data base 30.06. 2021

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	Infectious diseases of companion animals		
2.	Faculty/Department	Veterinary Medicine / Epizootology and Parasitology Department		
3.	Type (compulsory or optional)	optional		
4.	Program(s) to which module is attached (to be filled in for compulsory types)	–		
5.	Module can be suggested for (to be filled in for optional types)	Veterinary hygiene, sanitation and examination		
6.	Level of the National Qualifications Framework	7 level		
7.	Semester and duration of module	3 semester, 15 weeks		
8.	ECTS credits number	5,0		
9.	Total workload and time allotment	Directed study		Self-directed study
		Lectures	Practicals	Labs
		8		22
				120
10.	Language of instruction	English		
11.	Module leader	Dr. Veterinary Science, Professor O.I. Kasianenko		
12.	Module leader contact information	160/3 Herasya Kondratieva Street, 81, Тел.: +8(096) 069 09 02; viber +8(095) 615 39 02 oksana_kasjanenko@ukr.net		
13.	Module description	The educational component is related to the general objectives of the OP and covers aspects of infectious and epizootic processes that underlie the development of infectious diseases of companion animals and epizootic measures. The study of the discipline strengthens the main component of "Veterinary technologies for the prevention of infectious diseases of animals" and provides additional in-depth knowledge of science-based planning, organization and conduct of preventive, curative and anti-epizootic measures for infectious diseases of companion animals.		
14.	Module aim	Training of highly qualified and professional veterinarians, able to dynamically combine knowledge, skills, communication skills, solve complex problems during professional activities and solve problems related to prevention, diagnosis, treatment of companion animals for infectious diseases and implement innovative technologies in professional activities.		
15.	Module Dependencies (prerequisites, co-requisites, incompatible modules)	The educational component is based on the study of EC: Epizootology and infectious diseases, Veterinary technologies for the prevention of infectious animal diseases, Veterinary technologies for the prevention of infectious animal diseases.		
16.	The policy of academic	No manifestations of academic dishonesty are allowed during the		

	integrity	study of EC. Plagiarism check algorithm systems are tools for counteracting violations of academic integrity. In case of violations, the response is in accordance with the regulations on the academic integrity of participants in the educational process in Sumy NAU (https://snau.edu.ua/viddil-zabezpechennya-yakosti-osviti/zabezpechennya-yakosti-osviti/akademichna-dobrochesnist/). If a violation of academic integrity is detected, the completed task is not credited and is sent for reexecution.
17	Link in Moodle	

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

OK learning outcomes:	How assessed
<p>MLOs: On successful completion of the module the learner will be able to:</p>	
<p>MLOs 1. Carry out epizootological, clinical and pathological and differential diagnosis of infectious diseases of companion animals.</p>	<p>Rating control according to the 100-point scale of ECTS assessment. Polycriteria assessment of the current work of higher education students: survey of theoretical questions, written assignments during tests, assessment of knowledge, surveys during laboratory-practical classes; activity during the discussion of issues submitted for classes and role-playing epizootic games; express control during classroom classes; self-study of the topic as a whole or individual issues of independent work of higher education (writing essays, test results, individual written tests, preparation of presentations, presentation report of self-developed material). RDN is assessed during the current and final control (offset). During the current and final control in the process of assessment of the discipline are taken into account prepared by the applicant and published scientific publications in collections that are part of professional publications and / or conference proceedings.</p>
<p>MLOs 2. Identify and apply methods of prevention and treatment of companion animals using therapeutic and prophylactic agents and evaluate their effectiveness.</p>	<p>Rating control according to the 100-point scale of ECTS assessment. Polycriteria assessment of the current work of higher education students: survey of theoretical questions, written assignments during tests, assessment of knowledge, surveys during laboratory-practical classes; activity during the discussion of issues submitted for classes and role-playing epizootic games; express control during classroom classes; self-study of the topic as a whole or individual issues of independent work of higher education (writing essays, test results, individual written tests, preparation of presentations, presentation report of self-developed material). RDN is assessed during the current</p>

	and final control (offset). During the current and final control in the process of assessment of the discipline are taken into account prepared by the applicant and published scientific publications in collections that are part of professional publications and / or conference proceedings.
MLOs 3. Identify and implement measures aimed at protecting humans from diseases common to animals and humans.	Rating control according to the 100-point scale of ECTS assessment. Polycriteria assessment of the current work of higher education students: survey of theoretical questions, written assignments during tests, assessment of knowledge, surveys during laboratory-practical classes; activity during the discussion of issues submitted for classes and role-playing epizootic games; express control during classroom classes; self-study of the topic as a whole or individual issues of independent work of higher education (writing essays, test results, individual written tests, preparation of presentations, presentation report of self-developed material). RDN is assessed during the current and final control (offset). During the current and final control in the process of assessment of the discipline are taken into account prepared by the applicant and published scientific publications in collections that are part of professional publications and / or conference proceedings.

3. MODULE INDICATIVE CONTENT

Autumn semester

Topics	Directed study			Learning resources ¹	
	Classroom work		Self-directed study		
	Lectures	Practicals			Labs
Topic 1. Bacterial focal infections (Leptospirosis, salmonellosis, rabies, Aujeszky's disease. Rickettsiosis. Mycoplasmosis).	2		4	16	[1, 5, 7, 12, 13, 14, 17, 18, 19, 25, 26]
Topic 2. Adenoviral infections of dogs (Infectious hepatitis of carnivores. Infectious laryngotracheitis of dogs).	2		4	16	[3, 5, 9, 11, 22, 24]
Topic 3. Parvovirus infections of dogs and cats (Panleukopenia of cats. Parvovirus of dogs.)	2		2	14	[2, 3, 5, 7, 9, 11, 22, 24]
Topic 4. Coronavirus infections of dogs and cats (Canine coronavirus. Infectious peritonitis of cats).	2		2	14	[2, 3, 5, 7, 9, 11, 13, 22, 23, 24]
Topic 5. Calcivirosis. Leukemia of cats.			2	14	2, 3, 5, 7, 9, 11,

¹ Specific source from the main or additional recommended literature

Immunodeficiency of cats.					13, 22, 23, 24, 26]
Topic 6. Infectious diseasesfur (Myxomatosis. Viral hemorrhagic disease of rabbits).	-		2	14	[1, 5, 7, 12, 14, 17, 18, 19, 25, 26]
Topic 7. Infectious diseases of mink (Aleutian mink disease. Pseudomonas mink. Fur pasteurellosis).	–		2	16	[1, 5, 7, 12, 13, 14, 17, 18, 19, 25]
Topic 8. Mycoses and mycotoxicosis (Systemic mycoses. Dermatomyces. Mycotoxicosis)	–		4	16	[1, 4, 5, 7, 9, 11, 15]
Total	8		22	120	

4. TEACHING AND LEARNING METHODS

MLOs	Teaching methods (directed study)	Hours	Learning methods (self-directed study)	Hours
MLOs 1. Carry out epizootological, clinical and pathological and differential diagnosis of infectious diseases of companion animals.	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture on the etiology, epizootology, pathogenesis, clinical signs, pathological changes, differential diagnosis of infectious diseases of companion animals.</p> <p>Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, inter-faculty educational-scientific laboratory of electron microscopy).</p> <p>Demonstration of methods and results of diagnostic tests, illustration, observation.</p> <p>Use of technical means of training and problem situations, excursions, on-the-job training, group research, use of training and control tests).</p> <p>Use of multimedia technologies, spreadsheets, application of the method of analysis of specific situations (case-study), dialogue training, part-time students (cooperation).</p>	10	<p>Pobota with a book, lecture notes, educational and methodical literature (reading, translation, writing, taking notes, making tables, graphs, reference notes).</p> <p>Acquaintance with the information of official sites on a subject of employment or a separate question (the instruction on prevention and elimination of an infectious disease).</p> <p>Memorization of theoretical material, observation.</p> <p>The student must apply teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method, translational method).</p> <p>On the basis of the studied and processed material to independently generate an opinion during a theoretical survey, solving situational problems, debates, discussions, binary classes, business and role-playing games, group research).</p> <p>Use multimedia technologies, dialogue learning, student cooperation (cooperation).</p>	40
MLOs 2. Plan, organize and implement measures for the treatment and prevention of infectious diseases of companion animals using	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture on the etiology, epizootology, treatment, prevention of infectious diseases of companion animals.</p>	10	<p>Pobota with a book, lecture notes, educational and methodical literature (reading, translation, writing, taking notes, making tables, graphs, reference notes).</p> <p>Acquaintance with the</p>	40

<p>therapeutic and prophylactic agents.</p>	<p>Laboratory-practical classes in (educational-scientific laboratory of PCR-diagnostics, inter-faculty educational-scientific laboratory of electron microscopy). Demonstration of methods and results of diagnostic tests, illustration, observation. Use of technical means of training and problem situations, excursions, on-the-job training, group research, use of training and control tests). Use of multimedia technologies, spreadsheets, application of the method of analysis of specific situations (case-study), dialogue training, part-time students (cooperation).</p>		<p>information of official sites on a subject of employment or a separate question (the instruction on prevention and elimination of an infectious disease). Memorization of theoretical material, observation. The student must apply teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method, translational method). On the basis of the studied and processed material to independently generate an opinion during a theoretical survey, solving situational problems, debates, discussions, binary classes, business and role-playing games, group research). Use multimedia technologies, dialogue learning, student cooperation (cooperation).</p>	
<p>MLOs 3. Develop and implement measures to protect the population from diseases common to animals and humans.</p>	<p>Narration of theoretical questions, explanations, conversation (heuristic and reproductive), lecture, instruction on biosecurity and biosafety. Demonstration of methods and results of diagnostic tests, illustration, observation. Use of technical means of training and problem situations, excursions, on-the-job training, group research, use of training and control tests). Use of multimedia technologies, spreadsheets, application of the method of analysis of specific situations (case-study), dialogue training, part-time students (cooperation).</p>	<p>10</p>	<p>Pobota with a book, lecture notes, educational and methodical literature (reading, translation, writing, taking notes, making tables, graphs, reference notes). Acquaintance with the information of official sites on a subject of employment or a separate question (the instruction on prevention and elimination of an infectious disease). Memorization of theoretical material, observation. The student must apply teaching methods by the nature of the logic of cognition (analytical, synthesis methods, inductive method, deductive method, translational method). On the basis of the studied and processed material to independently generate an opinion during a theoretical survey, solving situational problems, debates, discussions, binary classes, business and role-playing games, group research). Use multimedia technologies,</p>	<p>40</p>

			dialogue learning, student cooperation (cooperation).	
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5. ASSESSMENT

5.1. Diagnostic assessment

5.2. Summative assessment

5.2.1. Intended learning outcomes methods:

No	Summative assessment methods	Grades	Deadline
	Thematic survey	20 points / 20%	Weekly
	Execution of tasks in laboratory-practical classes	20 points / 20%	According to the schedule
	Testing	15 points / 15%	For 7-8 weeks
	Report with a presentation on the subject of independent study of the discipline	45 points / 45%	According to the schedule of delivery of modules

5.2.2. Evaluation criteria

Summative assessment method	Unsatisfactorily	Satisfactorily	Good	Excellent
Thematic survey	<12 points	12-15 points	15-18 points	19-20 points
	The student can play only individual fragments of the course.	Most requirements are met, but some components are missing or insufficiently disclosed, there is no analysis of other approaches to the issue	All requirements of the task are fulfilled	All requirements of the task are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered
Execution of tasks in laboratory-practical classes	<12 points	12-15 points	15-18 points	19-20 points
	Task requirements not met	Most of the tasks are done with using on the basis of basic theoretical principles, the student has difficulty explaining the rules for solving laboratory-practical problems. Execution of individual control tasks is significantly formalized, there is no deep understanding of the work	The student has mastered the basic material, and understands and performs laboratory-practical tasks, has suggestions for the direction of their solutions. Understands the main provisions that are decisive in the course, can solve similar problems by those discussed with the	The applicant implements the theoretical material of the discipline in the performance of laboratory and practical work, is able to analyze and compare the results based on the knowledge, skills, practical skills acquired in this discipline

			teacher, but allows a small number of inaccuracies.	
Multiple selection test	≤ 5 points	6-9 points	10-13 points	14-15 points
	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).
Design and presentation report of independently processed material	<9 points	10-19 points	20-39 points	40-45 points
	The integrity of the student's understanding of the material on the discipline is lacking. The student did not perform independent study of the material.	Despite the fact that the student completed the program of the discipline, but some components are missing or insufficiently developed, the student worked passively.	Knows the basic provisions that are crucial in performing independent work / individual tasks. Errors in the answers are not significant.	All requirements, tasks are fulfilled, creativity, thoughtfulness is shown, own solution of a problem is offered.

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.

No	Formative Assessment elements	Date
Autumn semester		
1.	Oral feedback after studying topics 1-3, 6-7	3 th week
2.	Written feedback after studying topics 4-5	8 th week
3.	Written feedback from the teacher while working on laboratory-practical tasks	During classes
4.	Oral feedback from the teacher after the report with a presentation on the topic of independent study of the discipline	During classes

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

6. LEARNING RESOURCES (LITERATURE)

The main sources

1. Yarchuk BM, Verbytsky PI, Lytvyn VP, and others. General epizootology. Bila Tserkva, 2002 - 656 p.
2. Infectious diseases of cats: textbook. way. / OE Galatyuk and others. Zhytomyr: Polissya. 2017. 132 p.
3. Infectious diseases of dogs: textbook. way. / OE Galatyuk and others. Zhytomyr: Polissya. 2018. 275 p.
4. VP Litvin, AF Yevtushenko, etc. Workshop on general epizootology. K. : VTs NAU, 2003 - 175 p.
5. Karisheva AF Special epizootology. K. : "Higher education", 2002. 703 p.
6. VP Litvin, L.V. Oliynyk, LE Kornienko, BM Yarchuk. Factor diseases of agricultural animals. White Church. 2002.- 368 p.
7. Kornienko LM Planning of veterinary measures: textbook. aid., 2nd ed., ext. and processing. / L.M. Kornienko, L.Ye. Kornienko, BM Yarchuk; for order. L.M. Kornienko. Bila Tserkva: Belotserkivdruk LLC, 2016. 364 p.
8. Workshop on veterinary virology: Textbook. Skibitsky VG, Panikar II, Tkachenko OA, Kalinina OS etc. K. 2005. 208p.
9. Ramsey J., Tennant B. Infectious diseases of dogs and cats. A practical guide. M. : Aquarium. 2005. 532 p.
10. Davidson's medicine: principles and practice: manual: lane. 23rd English kind. : y 3 т. Т. 1 / за ред. S. G. Ralston, J. D. Penman, W. J. Streken, R. P. Hobson; Science. ed. lane. V. Zhdan, L. Babinets, L. Pasieshvili, V. Velychko, N. Mykhailovska. K.: ВCB «Медицина», 2020. 258 с.
11. Tilly LP, Tilly L. Diseases of cats and dogs. Per. with English GEOTAR-Media, 2010. 506 p.
12. Chronic infectious diseases of animals / L.Ye. Kornienko, VO Busol, VV Nedosekov and others; for order. L.Ye. Kornienko. Bila Tserkva, 2008. 348 p.

Methodical support

13. Campylobacteriosis of birds: [monograph] / TI Fotina, AV Berezovsky, OI Kasyanenko, YE Dvorskaya. - S.: Sumy National Agrarian University, 2010. - 140 p.
14. Kassich VY, Rebenko GI Methodical recommendations "Prevention of factor diseases of animals" - Sumy, 2010 - 23 p.
15. Rebenko GI, Gurova TV, Vershnyak TV Methodical recommendations "Biological wastes and methods of their disinfection." - Sumy, 2011 - 34 p.
16. Kassich VY, Rebenko GI, Methodical recommendations "Emerging and exotic infections." - Sumy, 2011 - 16 p.
17. Rebenko GI Natural focal infectious diseases. Tutorial. - Sumy, 2012 - 52 p.
18. Kassich VY, Rebenko GI Antimicrobial therapy for infectious diseases of animals. Tutorial. - Sumy, 2013 - 50 p.
19. Rebenko GI, Baidevlyatov Yu.A. Probiotics and biotherapy. Methodical instructions - Sumy, 2014. - 28 p.
20. Kassich VY, Rebenko GI, Baidevlyatov YA Methodical instructions Execution of course works on epizootology. - Sumy, 2014 - 32 p.
21. Nosocomial infections and infection control: textbook. manual / K.V. Yurko, VM Kozko, GO Solomennik. K.: ВCB «Медицина», 2020. 296 с.
22. Kalinina OS, Panikar II, Skibitsky VG Veterinary virology. K. Higher education, 2004. 432p. 3. Laboratory diagnosis of tuberculosis infection: textbook. way. / Yu.I. Фещенко, О.А. Журило, А.І. Barbova. K.: ВCB «Медицина», 2019. 304 с.
23. Maksimovich VV Epizootology and infectious diseases: Workshop. 2015. 462 p. 5.
24. Massimov NA, Lebedko SI Infectious diseases of dogs and cats. SPb. : Doe. 2009. 224 p.
25. Semanyuk VI, Gufriy DF, Gunchak VM, Zakhariv OY, Kanyuka OI, Turko IB For the general ed. D.F. Gufriya, VI Semanyuk. -Lviv, 2007. 307p.
26. Infectious Diseases: textbook / OA Holubovska, MA Andreichyn, AV Shkurba et al. ; edited by OA Holubovska. Kyiv: AUS Medicine Publishing, 2018. 664 p 8. Pediatric Infectious Diseases: textbook / SO Kramarov, OB Nadruga, LV Pyra et al. ; edited by SO Kramarov, OB Nadruga. 4th edition. Kyiv: AUS Medicine Publishing, 2020. 240 p.

Other sources

Website of the State Veterinary and Phytosanitary Service: <http://www.vet.gov.ua/>

MEB website: <http://www.oie.int/>

Website of the State Food and Consumer Services <http://www.consumer.gov.ua>