

SILABUS EDUCATIONAL COMPONENT



ENSURING THE HEALTH OF HIGH-YIELD COWS

speciality	211 –Veterinary Medicine	compulsory nature of the discipline	selective
educational programme	veterinary medicine	faculty	veterinary medicine
educational level	It's not marked	department	Internal diseases and clinical diagnostics

TEACHER

Vadym Mykolayovych Mogilyovskyy



University degree in veterinary medicine

Scientific degree - Candidate of Veterinary Sciences, speciality 16.00.01 - diagnostics and therapy of animals Associate

Professor - Associate Professor

Work experience - 24 years

Indicators of professional activity on the course topics:

- - author of 11 methodological works;
- - 22 years of scientific experience;
- - participant in scientific and methodological conferences.

telephone 0661057566

e-mail

vadymther@gmail.com

remote
support

Moodle

<http://moodle.btu.kharkiv.ua/course/view.php?id=419>

They are involved in teaching the discipline:

GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT (DISCIPLINE)

Aim	Providing students with in-depth knowledge of the etiology, mechanisms of development, and the most characteristic symptoms, course and possible complications, modern methods of diagnosis, treatment and prevention of internal diseases in productive animals in modern farms.
Format	lectures, practical classes, independent work, individual assignments.
Details of the results training and their forms controls	<ul style="list-style-type: none">• the ability to follow the rules of personal safety in animal research, using knowledge of their fixation, to observe the rules of personal hygiene, to use the rules of asepsis and antisepsis when performing any intervention or research (PC3) / individual practical training.• the ability to conduct research at the appropriate level, apply knowledge in practical situations, use tools, special devices for special manipulations in the performance of professional tasks (GC1, GC2, GC7, GC8, GC9, GC10, GC11, SC2, SC6, SC13, PLO5, PLO7) / individual practical classes.•• - the ability to diagnose and treat productive animals (GC1, GC2, GC7, GC9, GC11, SC1, SC2, SC6, SC7, SC8, SC13, PC2, PC3, PC5, PC6) / individual practical training.• - understand and find out the peculiarities of conducting clinical trials in order to form conclusions about the state of the animal and establish the effectiveness of treatment (GC1, GC7, GC9, GC10, SC2, SC6, SC7, SC8, SC13, PLO3, PLO5, PLO6, PLO7) / individual practical classes.• - ability to abstract thinking, analysis, synthesis, search, processing of information from various sources• - (GC1, PLO7) / individual practical classes.
Scope and forms of control	3 ECTS credits (90 hours): 14 hours of lectures, 30 hours of laboratory and practical classes; 46 hours of independent study, current control (2 sections); Final control - differentiated credit.
Teacher requirements	timely completion of tasks, activity, teamwork
Terms of enrolment	"free enrolment"

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAMME

Competences	<ol style="list-style-type: none"> 1. GC1. Ability to think abstractly, analyse and synthesise, search, process information from various sources. 2. GC2. Ability to apply knowledge in practical situations. 3. GC7. Ability to conduct research at the appropriate level. 4. GC8. Ability to learn and master modern knowledge. 5. GC9. Ability to make informed decisions 6. GC10. Ability to communicate with representatives of other professional groups <p style="text-align: center;">different level (with experts from other areas of expertise/types economic activities)</p> <ol style="list-style-type: none"> 7. GC11. Ability to assess the quality of work performed <ol style="list-style-type: none"> 1. SC1. Ability to identify the peculiarities of the structure and functioning of cells, tissues, organs, their systems and apparatus of the body of animals of different classes and species - mammals, birds, insects (bees), fish and other vertebrates 2. SC2. Ability to use tools, special devices, instruments, laboratory equipment and other technical means to carry out the necessary manipulations during professional activities 3. SC6. Ability to carry out selection, packaging, fixing and shipping samples of biological material for laboratory testing. 	Programme learning outcomes	<ol style="list-style-type: none"> 4. SC7. Ability to organise and conduct laboratory and special diagnostic tests and analyse their results 5. SC8. Ability to plan, organise and implement measures for the treatment of animals of different classes and species suffering from non-contagious, infectious and invasive diseases. 6. SC13. Ability to develop strategies for the prevention of diseases of various etiologies <ol style="list-style-type: none"> 1. PLO1. Know and correctly use the terminology of veterinary medicine 2. PLO2. Use information from domestic and foreign sources to develop diagnostic, therapeutic and business strategies 3. PLO3. Determine the essence of physicochemical and biological processes that occur in the body of animals in normal and pathological conditions 4. PRN5. Establish the relationship between clinical manifestations of the disease and laboratory test results 5. PLO 6. Develop quarantine and health improvement measures, methods of therapy, prevention, diagnosis and treatment of diseases of various etiologies 6. PLO 7. Collect anamnestic data during the registration and examination of animals, find solutions for the selection of effective methods of animal disease prevention.
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STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINE)

Chapter 1: Introduction to the discipline "Ensuring the health of high-yield cows". Diagnosis, treatment and prevention of metabolic diseases in highly productive cows

Lecture 1	Medical examination of cattle on dairy farms. Monitoring the physiological status and health of cattle on dairy farms. Analysis of cows' production performance, conditions of their maintenance and operation. Feed quality assessment and analysis.	Laboratory and practical class 1 (LPC 1)	Purpose and objectives of the discipline. Medical examination. Features of digestion of high-yielding cows, modern technologies of keeping and exploitation of cows.	Independent work	Peculiarities of medical examination of high-yielding cows, modern technologies of cow maintenance and operation. Postpartum hypocalcaemia (milk fever, parturient paresis) Features of diagnosis, treatment and prevention of postpartum hypocalcaemia in cows
Lecture 2	Postpartum hypocalcaemia (milk fever, parturient paresis). Features of diagnosis, treatment and prevention of postpartum hypocalcaemia in cows	LPC 2	Postpartum hypocalcaemia (milk fever, labour palsy).		
Lecture 3	3 Acute and subclinical acidosis (SARA) of the rumen. Features of diagnosis, treatment and prevention of acidosis in cows.	LPC 3	Acute and subclinical acidosis (SARA) of the scar		Acute and subclinical rumen acidosis (SARA). Features of diagnosis, treatment and prevention of acidosis in cows.
Lecture 4	Ketosis of dairy cows. Summary of the topic: Features of diagnosis, treatment and prevention of ketosis in cows. Etiological factors of the first and second type of ketosis in cows.	LPC 4	Displacement of the rennet. Features of diagnosis and treatment. Measures to prevent the occurrence of rennet displacement in cows		Displacement of the rennet. Features of diagnosis and treatment. Measures to prevent the occurrence of rennet displacement in cows Ketosis of dairy cows. Features of diagnosis, treatment and prevention of ketosis in cows.

	Subclinical ketosis. Pathogenesis. Symptomatology. Diagnosis. Treatment and prevention of ketosis in cows.	LPC 5	Ketosis of dairy cows. Features of diagnosis, treatment and prevention of ketosis in cows.		
		LPC 6	Module I. Solving test tasks		

Chapter 2. Hepatosis of dairy cows. Diseases of newborn calves under high-intensity cattle breeding technologies					
Lecture 5	Hepatosis in dairy cows. Features of diagnosis, treatment and prevention of hepatosis in cows. Measures to prevent secondary diseases and culling of high-yielding cows.	LPC 7	Hepatosis in dairy cows. Features of diagnosis, treatment and prevention of hepatosis in cows.		Hepatosis of dairy cows. Features of diagnosis, treatment and prevention of hepatosis in cows.
Lecture 7	Etiology of diseases in newborn calves. Pathogenesis. Symptoms. Treatment of sick calves and measures to prevent these diseases. Preventive measures to prevent secondary diseases arising from immunodeficiencies.	LPC 8	Diseases of newborn calves caused by high-intensity dairy farming technologies.		Diseases of newborn calves caused by intensive dairy farming technologies.
		LPC 9	Module II. Solving test tasks		
		LPC 10	The final lesson. Conducting the test		

<ol style="list-style-type: none"> 1. Kibkalo D.V. Khvoroby vysokoproduktyvnykh koriv: monohrafiia/ D.V. Kibkalo, V.M., Mohilovskyi, V.A. Pasichnyk – Kharkiv, - 2023. – 102 s. 2. Veterynarnaia dyspanseryzatsiia selskokhoziaistvennykh zhyvotnykh/V.Y Levchenko y dr., pod red. V.Y.Levchenka. K.: Urozhai, 1991. 304 s. 3. Vnutrennye bolezny zhyvotnykh / podobshchei redaktsyei H.H.Shcherbakova, A.V.Korobova. M., 2002. 736 s. 4. Vnutrennye nezaraznye bolezny krupnogo rohatoho skota / pod. red. P.S. Yonova. – 3- e yzd. pererab. y dop. M.: Kolos, 1975. 416 s. 5. Vnutrishni nezarazni khvoroby tvaryn / M.O. Sudakov ta in., za red. M.O. Sudakova. – K.: Meta, 2002. 352s. 6. Vnutrishni khvoroby tvaryn /V.I.Levchenko ta in., za red. V.I. Levchenka. Bila Tserkva, 1999. – Ch 1. 376 s. 7. Vnutrishni khvoroby tvaryn /V.I.Levchenko ta in., za red. V.I.Levchenka. Bila Tserkva, 2001. Ch.2. 544 s. 8. Zahalna terapiia i profilaktyka vnutrishnikh khvorob tvaryn: Praktykum /V.I.Levchenko ta in., za red. V.I.Levchenka. Bila Tserkva, 2000. 224 s. 9. Klinichna diahnostryka vnutrishnikh khvorob tvaryn / V.I. Levchenko ta in., za red. V.I. Levchenka. – Bila Tserkva, 2004. 608 s. 10. Naibilsh poshyreni vnutrishni khvoroby tvaryn: navchalnyi posibnyk/ M.Ye. Pavlov ta in.,za red. M.Ye.Pavlova. Kharkiv, 2015. 208s. 11. Pavlov M. Ye., Mytrofanov O.V., Mohilovskyi V.M. Profilaktyka vnutrishnikh khvorob v molochnomu skorotarstvi: monohrafiia. Kharkiv, 2009. 223 s.: il. 12. Pavlov, O. V. Mytrofanov, V. M. 	<p>Methodological support</p> <ol style="list-style-type: none"> 1. Pavlov M.Ye., Pasichnyk V.A., Mytrofanov O.V., Mohylovskyi V.M Metodychni rekomendatsii do laboratornykh zaniat studentiv 4-6 kursiv z vnutrishnikh khvorob tvaryn. Kharkiv: RVV KhDZVA, 2014. 224 s. 2. Pavlov M.Ye., Mytrofanov O.V., Mohylovskyi V.M. Biokhimichni doslidzhennia v diahnostrytsi vnutrishnikh khvorob tvaryn: Navchalnyi posibnyk dlia studentiv s.-h. vuziv. Kharkiv, 2006. 246 s. 3. Pavlov M. Ye., Maslii M. L. Metodychni rekomendatsii z profilaktyky shlunko- kyskovykh khvorob u teliat i porosiat z vykorystanniam kompleksu askorbinativ mikroelementiv i probiotyktiv. Kharkiv: RVV KhDZVA, 2014. 45 s. 4. Robochyi zoshyt dlia laboratornykh zaniat z dystsyplyny «Zabezpechennia zdorovia vysokoproduktyvnykh koriv» Modul I. Vstup do dystsyplyny «Zabezpechennia zdorovia Vysokoproduktyvnykh koriv». Diahnostryka, likuvannia ta profilaktyka khvorob obminu rehovyn u vysokoproduktyvnykh koriv. /V.M. Mohilovskyi ta in. – Kh., 2024.- 81 s. 5. Robochyi zoshyt dlia laboratornykh zaniat z dystsyplyny «Zabezpechennia zdorovia vysokoproduktyvnykh koriv» Modul II. Hepatoz molochnykh koriv. Khvoroby novonarodzhennykh teliat za vysokointensyvnykh tekhnolohii skotarstva. /V.M. Mohilovskyi ta in. – Kh., 2024.- 81 s. 6. Rubizhnyi kontrol znan studentiv z vnutrishnikh khvorob tvaryn /M.Ye. Pavlov ta in. Kharkiv: RVV KhDZVA, 2004. 21 s. 	<p>ELECTRONIC RESOURCES</p> <ol style="list-style-type: none"> 1. Invited review: pathology, etiology, prevention, and treatment of fatty liver in dairy cows. URL: https://pubmed.ncbi.nlm.nih.gov/15377589 2. Держпродспоживслужба. URL: https://dpss.gov.ua/ 3. 21 Major Types of Cattle Diseases (With Treatments). URL: https://www.yourarticlelibrary.com/diseases/21-major-types-of-cattle-diseases-with-treatments/89194 4. Cattle Diseases. URL: https://www.farmhealthonline.com/ 5. http://dspace.nubip.edu.ua:8080/jspui/ – Електронна бібліотека НУБіП України 6. https://library.btu.kharkov.ua/ - Електронна бібліотека ДБТУ, Харків. 7. https://www.rada.gov.ua/ - Офіційний вебпортал парламенту України 8. http://www.nbuv.gov.ua/ - Національна бібліотека України імені В.І. Вернадського 9. https://dns.gb.com.ua/ - Національна наукова сільськогосподарська бібліотека Національної академії аграрних наук України 10. https://www.fao.org/home/en - Food and Agriculture Organization of the United Nations
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	<p>Mohilovskyi. Biokhimichni doslidzhennia v diahnostytsi vnutrishnikh khvorob tvaryn: navchalnyi posibnyk dlia s.-h. vuziv. Kharkiv: Vydavnytstvo Brovin O. V., 2009. 218 s., il.</p>	<p>7. Samostiina robota studentiv z vnutrishnikh khvorob tvaryn: Metodychni vkazivky /M.Ye. Pavlov ta in. Kharkiv: RVV KhDZVA, 2004.17 s.</p> <p>8. Syndromy naibilsh poshyrenykh vnutrishnikh nezaraznykh khvorob tvaryn: Metodychni vkazivky / M.I. Tsvilikhovskiy ta in. K.: NAU, 2000. 30 s.</p> <p>9. Pavlov M.Ye., Mytrofanov O.V., Mohylovskiy V.M., Pasichnyk V.A. Sytuatsiini zadachi z vnutrishnikh khvorob tvaryn. Kharkiv: RVV KhDZVA, 2018. 53 s.</p> <p>10. Pavlov M.Ye., Mohylovskiy V.M., Mytrofanov O.V., Pasichnyk V.A. Testovi zavdannia dlia studentiv 4-5 kursiv. Kharkiv: RVV KhDZVA, 2004. 48s.</p>	
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ASSESSMENT SYSTEM			
	SYSTEM	SCORE	ACTIVITY THAT EVALUATED
Final assessment (differentiated credit, exam)	100-point ECTS (standard)	до 100	40% – final testing, 60% – student’s ongoing work during the semester
Final assessment (non-graded)	100-point ECTS (standard)	до 100	100% – averaged score for all course sections
Section Assessment	Cumulative 100-point scale	до 30	30% – answers to test questions
		до 30	30% – performance on the independent study block
		до 40	40% – student activity during classes (oral responses)

NORMS OF ACADEMIC ETHICS AND CHARITY

All participants in the educational process (including those seeking education) must adhere to the code of academic integrity and the requirements prescribed in the provision "On academic integrity of participants in the educational process of SBU": show discipline, education, respect each other's dignity, show kindness, honesty, responsibility.