Ministry of Education and Science of Ukraine Sumy National Agrarian University Faculty of Veterinary Medicine Department of Obstetrics and Surgery

Work program (syllabus) of the educational component (Obligatory)

Specialty	211 "Veterinary Medicine"				
Educational program	Veterinary oncology (Фахова вибіркова дисципліна)				
Level of education	second (master's) level of higher education				

Developer: Shk	kromada Oksana, D. v.s., Professor
Considered, approved and approved at the meeting of the Department of Obstetrics and Surgery	Protocol of <u>24.05-2024</u> NM Head of the department Shkromada O.I.

Agreed:

Guarantor of the educational program

Dean of the faculty

O.Nechiporenko

Work program review (attached) provided:

Methodist of the Department of Education Quality,

bap Magie toparier licensing and accreditation 1

Registered in the electronic database: date: _______ 2024

©SNAU, 2024 years

1.	Name OK	Surgical diseases of productive animals				
2.	Faculty / department	Faculty of Veterinary Medicine, Department of Obstetrics and Surgery				
3.	Status OK	Obligatory				
4.	Program / Specialty (programs), the component of which is OK for (to be <i>filled in for mandatory OK</i>)	211- Veterinary medicine				
5.	OK can be suggested for (to be <i>filled in for selective OK</i>)	surgical dis	eases of hors	ses		
6.	NRC level	(2 master's)7			
7.	Semester and duration of study	7 semester 1-18				
8.	Number of ECTS credits	V II semester: 5 credits total. nav: 150 years, aud incl years lectures, 4 hours lpz, alone. slave. 145 years , credit				
9.	The total number of hours and	Co	ntact work (classes)	Independent work	
	their distribution	Lectures	Practical / seminar	Laboratory 4	146	
10.	Language of instruction	English				
11.	Teacher / Coordinator of the educational component			Musiienko Yuri	ii	
1 1.1	Contact Information		<u>yurii.</u>	musiienko@snau	i.edu.ua	
12.	educational component	OP with x irurhichn s disease of farm animals is part of the educational process related and with common goals to train highly qualified veterinarians . Provides mastering of methods of carrying out treatment of pathologies of animals by surgical methods , prepares students for mastering of OP from clinical, disciplines at the expense of studying of pathological processes of all systems of an organism and existence of an organism as a whole. Assimilation of material from this OP forms the basis of surgical knowledge of the student and the future veterinarian, contributes to the				
13.	The purpose of the educational component	professional development of the student.The purpose of the educational component of OK 's irurhichn s disease of farm animals has a goal of students' special competences on theoretical foundations, rules, methods and techniques use different methods of treatment of animals with surgical pathology in animals . It is a component of the learning process that ensures the achievement of goals, competencies and significant results in the learning process.				
14.	Prerequisites for studying OK, the relationship with other educational components of OP	Normative discipline "Surgical diseases of productive animals " is based on knowledge of such disciplines as "Animal Anatomy", "Cytology, Histology, Embryology", "Animal Physiology", "Pathological Physiology", "Veterinary Microbiology", "Clinical Diagnosis and Diagnosis "," Pharmacology and pharmacotherapy ", studied in previous semesters . Is a precursor to the master's thesis				
15.	The policy of academic integrity	Assimilatio plagiarism requiremen In case of p repeated	n of OK in c is prohibited ts, it is recon lagiarism in	ompliance with a . In case of system nmended to re-stu- the performance	academic integrity, matic violation of these ady the OK. of tasks - they are	

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

		In case of plagiarism during the credit - the credit is repeated at the additional session
16.	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=3977

1.2 INFORMATION ABOUT THE TEACHER / TEACHERS .

1. Musiienko Yurii - Candidate of Veterinary Sciences, Associate Professor of Obstetrics and Surgery, Sumy NAU

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

	Program learning outcomes, the achievement of which is						As		
OK learning outcomes: After studying the educational component, the student is expected to be able to »	PLO 1. Know and use the terminolo gy of veterinary medicine.	PLO 2. Use informatio n from domestic and foreign sources to develop diagnosti c, treatment and business strategies	PLO 4. Collect anamnesti c data during registratio n and examinati on of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal diseases.	PLO 7. To formulate conclusions on the effectivenes s of selected methods and means of keeping, feeding and treatment of animals, prevention of infectious and non- communicab le diseases, as well as production and technologica l processes at enterprises for keeping, breeding or operation of animals of different classes and enceries	PLO 8. Monitor the causes of the spread of disease s of various etiologie s and biologic al pollution of livestock waste, as well as and veterinar y products	PLO 15. Know the rules of storage of various pharmaceutic als and biologicals, ways of their enteral or parenteral use, understand the mechanism of their action, interaction and complex action on the body of animals.	PLO 17. Know the rules and requiremen ts of biosafety, bioethics and animal welfare.	PLO 18. Carry out accountin g reporting profession al activities.	
MLO 1. Know and use surgical terminology compete ntly . Using information from local and foreign sources for diagnostics ki , medi ting animals with surgical pathology	x								1. Survey in laboratory- practical classes.
MLO 2. Collect anamnestic data during registration and examination of animals, make decisions on the choice of effective methods of operations		x							1. Computer survey and analysis of kahoot students' knowledge
MLO 3. Formulate conclusions about the effectiveness of selected methods of surgical treatment and prevention of infectious and non- communicable diseases.			x						1. Written survey, solving situational problems
MLO 4. Monitor causes of the spread of diseases of surgical pathology, environmental pollution by waste from operations, as well as				x					1. Registratio n of the abstract

materials and means of veterinary							
use.							
MLO 5. Know the rules of storage various pharmaceuticals and biological products, drugs and ways of their enteral or parenteral use, to understand the mechanism of their action, interaction and complex action on the body of animals.			x				1. Survey in laboratory- practical classes, notebook design
MLO 6 Know the rules and requirements of biosafety, bioethics and animal welfare.				x			2. Computer survey and analysis of students' knowledge (certificatio n)
MLO 7 Carry out accounting reporting of sick animals, operations, use of drugs and potent drugs.					Х	х	 Multiple choice test (exam)

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

Topic.	Distribution within the total time budget				Recommended
List of issues to be addressed within the	Classroom work Independen			Independent	Books
topic	Trades	D (T.1. '41	work	
7 som:	Lecture	P.Z / semin. with	Lab. with.		
Topic 1 Oncology			1	6	123
Topic 1. Oncology			1	Ū	4, 17, 21, 22, 26
Topic 2. Classification of tumors.			1	14	1.2
Tumors and tumor-like processes.					
Topic 3. Morphological methods of			1	14	1.3-7
examination. Cytological studies of					
neoplasms.					
Topic 4 Etiology of tumors.			1	14	8-2.4
Chemical, physical and biological					
carcinogens. Biomarkers in					
oncology					
Topic 5. Cancer screening				14	10-25
Topic 6. Sarcoma, prostate				14	14-26
Topic 7. Genomic, transcriptomic,				14	11-26
proteomic and metabolomic					
technologies.					
Topic 8. Oncological diseases of				14	11-2 5
the skin. Mast cells.					
Topic 9. Oncological diseases of				14	26
the gastrointestinal tract and					
bladder in dogs.					
Topic 10. Acute and chronic				14	16
lymphoblastic cancer in dogs,					
lymphoma					
Topic 11. Breast cancer				14	18
Total			4	146	

4. METHODS OF TEACHING AND TEACHING

MLO MLO 1. Know and use the terminology of veterinary medicine. Use information from domestic and foreign sources to develop diagnostic, treatment and business strategies	Teaching methods (work to be carried out by the teacher <u>during classes</u> , consultations) - presentation of lecture material according to the plan; - proposals for literature on each topic of lectures; - use Moodle , Zoom	Number of hours	Teaching methods (what types of educational activities the <u>student</u> must perform <u>independently</u>) - mastering research methods; - independent work during research - fixation of research results; - analysis of research results ;	Number of hours 20 hours
MLO 2. Collect anamnestic data during registration and examination of animals, make decisions on the choice of effective methods of diagnosis, treatment and prevention of animal diseases	 consultations of students in the process of mastering OK - methodical registration of all types of students' works; control of the educational process 		 registration of the journal of sick animals; fixation of lecture material obligatory preparation for the hospital, mastering the lecture material for the hospital. 	20 hours
MLO 3. Formulate conclusions on the effectiveness of selected methods and means of treatment of animals, prevention of infectious and non-communicable diseases, as well as production and technological processes in enterprises for keeping, breeding or operation of animals of different classes and species.	presentation of lecture material according to the plan; - proposals for literature on each topic of lectures; - use Moodle , Zoom	2 hours	registration of the journal of sick animals, medical history ; - fixation of lecture material - obligatory preparation for the hospital, mastering the lecture material for the hospital.	20 hours
MLO 4. Monitor the causes of the spread of diseases of various etiologies and biological pollution of livestock waste, as well as materials and veterinary products.	presentation of lecture material according to the plan; - proposals for literature on each topic of lectures; - use Moodle , Zoom		drawing conclusions from the received data; - fixation of lecture material - obligatory preparation for the hospital, mastering the lecture material for the hospital.	20 hours

MLO 5. Know the rules of storage of various pharmaceuticals and biologicals, ways of their enteral or parenteral use, understand the mechanism of their action, interaction and complex action on the body of animals.	consultations of students in the process of mastering OK - methodical registration of all types of students' works; - control of the educational process	drawing up a journal of class A and B medicines ; - fixation of lecture material - obligatory preparation for LPZ, mastering of lecture	20 hours
MLO 6 Know the rules and requirements of biosafety, bioethics and animal welfare.	presentation of lecture material according to the plan; - proposals for literature on each topic of lectures; - use Moodle , Zoom	drawing conclusions from the received data; - fixation of lecture material - mandatory preparation for the hospital,	20 hours
MLO 7 Carry out accounting reporting during professional activities.	consultations of students in the process of mastering OK - methodical registration of all types of students' works; - control of the educational process	drawing up logs of the work of the enterprise or clinic - fixation of lecture material - obligatory preparation for the hospital, mastering the lecture material for the hospital.	26 hours

5. EVALUATION BY EDUCATIONAL COMPONENT

5.1. Diagnostic evaluation (indicated if necessary)

5.2. Summative assessment

5.2.1. To assess the expected learning outcomes provided

N⁰	Methods of summative evaluation	Points / Weight in the overall	Date of compilation				
		score	r r				
Autumn semester							
1.	Survey in laboratory-practical classes, notebook design	60/ 60%	3, 8, 12.15 weeks				
2.	Design Abstract	15/15%	15 weeks				
3.	T ect multiple choice (exam)	25/25%	Week 18				

5.3. Evaluation criteria

Autumn semester

Component[2]	Unsatisfactorily	Satisfactorily	Fine	Perfectly[3]
Survey in	< 42 points	42-45 points	45-50 points	60 points
laboratory- practical classes	The student has only some concepts, can not draw conclusions	Has a general concept of the topic, makes a significant amount of mistakes	Has all the questions, makes a small number of unprincipled mistakes	Fully masters all questions, does not make mistakes
Design Abstract	< 8 points	9-11 points	12-14 points	15 points
	Task not performed	The abstract is designed without understanding the relationship between the tasks to be solved, not able to critically	The abstract at a good level of analysis, synthesis, generalization and critical evaluation of data from literature	The abstract is designed flawlessly, logically arranged material with an understanding of the relationships of the processes disclosed on this

Computer survey and analysis of students' knowledge (certification)	< 20 points Task not performed	evaluate information from the literature 20 - 34 points The computer survey was performed without understanding the relationship between the tasks to be solved, unable to critically evaluate information from the literature	sources cited in the Abstract , able to critically evaluate information from literature sources 35 - 44 points Computer survey performed at a good level conducted analysis, synthesis, generalization and critical evaluation of data from literature sources , able to critically evaluate information from literature sources	topic, demonstrates a highly developed ability to critical academic literature and other sources of information <u>4 5 points</u> The computer survey is performed perfectly, logically arranged material with an understanding of the relationships of the processes disclosed on this topic, demonstrates a highly developed ability to critical academic literature and other sources of information
T ect multiple	< 10 points	10-14 points	15-24 points	2 5 points
choice (test)	Task	Task	Task	Task
	not performed	done by 50%	75% completed	100% done

5.4. Formative assessment:

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

N⁰	Elements of formative assessment	Date
1	Survey in laboratory-practical classes, notebook design	According to the schedule
2	Design Abstract in	Within a week until the end of the educational process
3	Offset and sleep - multiple choice test	According to the exam schedule

6. LEARNING RESOURCES 6.1. Key resources

1. Noakes, D. E., Parkinson, T. J., & England, G. C. W. (2019). Veterinary Reproduction and Obstetrics. W.B. Saunders.

2. Noakes, D. E., Parkinson, T. J., & England, G. C. W. (2009). Veterinary reproduction and obstetrics. Edinburgh: Saunders.

3. Singh, K. P., & Singh, B. (2019). Handbook of Veterinary Gynaecology and Obstetrics: Veterinary Gynaecology and Obstetrics.

4. Shivhare, M., Thakur, M. S., & Shukla, S. P. (2015). Practical manual of veterinary gynaecology & obstetrics.

5. Zenuto, R. R., Vitullo, A. D., & Busch, C. (August 01, 2003). Sperm characteristics in two populations of the subterranean rodent ctenomys talarum (rodentia: octodontidae). Journal of Mammalogy, 84, 3, 877-885.

6. Williams, W. L. (2010). Veterinary obstetrics, including the diseases of breeding animals and of the new-born. Memphis, Tenn: General Books.

7. Jackson, P. G. G. (2004). Handbook of veterinary obstetrics. Edinburgh: Saunders.

8. Akhtar, M. S. (2012). Practical manual of veterinary obstetrics: Bovine obstetrics. Saarbrücken: LAP Lambert Academic Publishing.

6.2. Guidelines

- 2. American Journal of Obstetrics and Gynaecology
- 3. Animal Reproduction
- 4. Animal Reproduction Science
- 5. Animal Science Journal
- 6. Bibliography of Reproduction
- 7. Biology of Reproduction
- 8. Equine practice

6.3 e-Resources

- 9. www.anirgyep.elsevier.com (Animal Reproduction Science)
- 10. www.blackwellpublilshing.com (International Journal of Andrology)
- 11. www.bioreprod.org (Biology of reproduction)
- 12. www.domesticanimalendo.com (Domestic Animal Andocrinology)
- 13. www.reproduction-onlline.org (Journal of Andrology)
- 14. www.reproduction-online.org (Reproduction)
- 15. www.interscience.wiley.com (Reproduction in domestic animals)
- 16. www.theriojournal.com (Theriogenology)
- 17. www.buffaloresearch.com (Buffalo Journal)
- 18. www.eje-online.org (European journal of Endocrinology)
- 19. www.sciencedirect.com (The Veterinary Journal)
- 20. www.blackwellpublishing.com (Asian journal of Andrology)
- 21. www.editorijar@yahoo.co.in (Indian Journal of Animal Reproduction)

6.4. Computer Applications and soft

22. Computer assisted semen analysis (CASA).