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 training component

Obstetric preventive technologies animal health

Specialty	211 Veterinary Medicine
Educational program	211 «Veterinary medicine»
Level of higher education	Second (master's)

Musiienko Yurii, PhD, Associate Professor Developer:

Considered, approved and approved at the meeting of the	Protoc	ol dated 04.05.2024, N	Թ11
Department of Obstetrics and	1	#	*
Surgery		0/	
	Head of Department	UF	_Oksana Shkromada
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Agreed:

Guarantor of the educational program
Dean of the Faculty, where the educational program is implementedOleksandr Nechyporenko
Review of the work program (attached) provided by: Anatolii Fotin Oleksands Stocking
Methodist of the Department of Education Quality,
licensing and accreditation <u>H. Trays</u> (Fages Transmission) (signature) (full name)
Registered in the electronic database: date:2024

SNAU, 2024

1.	Title	(Obstetric preve	ntive technolog	gies			
		animal health						
2.	Faculty/Department	Faculty of Veterinary Medicine, Department of Obstetrics and Surgery						
3.	Type (compulsory	Obligatory						
	or optional)							
4.	Program(s) to	211- Veterir	nary medicine					
	which module is							
	attached (to be							
	filled in for							
5	Compulsory types)	Obstations						
Э.	Module can be	Obstetrics a	nd gynecology					
	suggested for (to be							
	intend in for							
6	Level of the	(2 mastar's d	lagraas) 7					
0.	National	(2 master s c	legices) /					
	Qualifications							
	Framework							
7.	Semester and	6th year, 11	th semester					
<i>,.</i>	duration of module	1-15						
8.	ECTS credits	3						
	number	_						
9.	Total workload and]	Directing resear	ch	Independent			
	time allotment		-		learning			
		Lectures	Practical training	Laboratories				
	XI semester	4	uuuuug	8	78			
10.	Language of							
	instruction		En	iglish				
11.	Module leader	Ν	Ausiienko Yuriy	y Volodymyrov	ych			
12.	Module leader			ka Manau adu				
	contact information		yum.musnem	<u>co@snau.edu</u>	<u>.ua</u>			
thirteen.	Module description	OP is part of	f the educationa	l process related	d to the general			
		objectives	for the trai	ning of hig	hly qualified			
		veterinarian	s. Provides ma	astering the ab	oility to apply			
		knowledge	in practical situ	ations; adhere	to the rules of			
		labor prot	ection, asepsi	s and antise	eptics during			
		professional	activities; have	knowledge of a	animal fixation			
		techniques,	training of mid	wives' hands, ir	nstruments and			
		operating fi	eid, as well as	knowledge of	the effects of			
		analgesics, a	unumicropials a	ind other drugs	organiza and			
		implement r	negeures for the	treatment of an	imals obstatria			
		and gynecol	ogical manipule	ations and operations	ations			
14	Module aim	The nurnos	e of the educ	ational compo	nent "OK" in			
17.		obstetrics	and gynecolo	gy is to a	ssign special			
		competencie	es of students of	on the theoretic:	al foundations.			
		rules, meth	ods and techni	iques of cryop	reservation of			
		sperm. Influ	ence of cryopre	servation on sp	erm, semen			

1. GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

		quality and fertility of animals. This is a component of the learning process that ensures the achievement of goals,
		process.
15.	Module Dependencies (prerequisites, co- requisites, incompatible modules)	1. The normative discipline "Veterinary Andrology" is based on knowledge of such disciplines as "Animal Anatomy", "Cytology, Histology, Embryology", "Chemistry", "Animal Physiology", "Pathological Physiology", "Veterinary Microbiology", "Clinical Diagnosis and Diagnostics". visualization "," Pharmacology and pharmacotherapy ", studied in previous semesters.
16.	The policy of academic integrity	Assimilation of OK with observance of academic integrity, plagiarism is prohibited. In case of systematic violation of these requirements, it is recommended to re- study the OK. In case of plagiarism in the performance of tasks - they are repeated In case of plagiarism during the test - the test is repeated at an additional session
17	Link in Moodle	https://cdn.snau.edu.ua/moodle/course/view.php?id=1997

1.2 INFORMATION ABOUT THE TEACHER / TEACHERS.

1. Musienko Yuriy Volodymyrovych - Candidate of Veterinary Sciences, Associate Professor of Obstetrics and Surgery, Sumy NAU

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

Learning outcomes for OK: After studying the educational component, the studying is strategies stra		Program learning outcomes, the achievement of which is aimed at OK							As							
Learning outcomes for outcomes for DK: After student is expected to be able to >>PLO1.PLO2.PLO1.PLO<															estimat	ted
Know and Use use the information terminology from of oterinary automestic veterinary automestic veterinary automestic veterinary automestic the medicine.Collect conclusions on the Monitoring of the rules of Know the Carry out effectiveness of the spread of various and means of diseases of pharmaceuticals of biosafety , professional and treating etiologics and prevention business able to >Know and Use use the informationCollect effectiveness of the spread of various and biologicals on methods of their animal examination and treating etiologies and of infectious and of infectious and of infectious and on on-infectious and of effective as production and as materials the choice diseases, as well welfare.Know the Carry out activities.MLO 1. Know and use the terminology of obstetrics and gynecology.XXXI1. Analysis of students' knowledgeMLO 1. Know and use the terminology of obstetrics and gynecology.XXXII1. Analysis of students' knowledge		PLO 1.	PLO 2.	PLO 4.	PLO 7.	Formulate	PLO 8	. PLO	15.	Know	PLO	17.	PLO	18.		
Learning outcomes for OK: After studying the educational component, the student is expected to be able to » MLO 1. Know and use the terminology of obstetrics and X X X X Use information embed as the terminology of obstetrics and the and means of diseases of pharmaceuticals of biosafety, professional and means of diseases of pharmaceuticals of biosafety, professional and biological, bioethics and activities. Treatment diseases of pharmaceuticals of biosafety, professional and biological and biological enteral or welfare. of animals, of infectious and decide on non-infectious of of effective as production and as materials strategies able to »		Know and	Use	Collect	conclusi	ions on the	Monitoring c	f the	rules	s of	Know	the	Carry	out		
Learning outcomes for OK: After studying the educational component, the student is expected to be able to » MLO 1. Know and use the terminology of obstetrics and x X X X X X X X X X X X X X X X X X X X		use the	information	anamnestic	effective	eness of	the causes of	f stora	age	of	rules	and	accour	iting		
Learning outcomes for OK: After studying the educational component, the student is expected to be able to » MLO 1. Know and use the forming of sources and component, the student is expected to be able to » MLO 1. Know and use the terminology of obstetrics and the student is expected to be able to »		terminology	from	data during	selected	d methods	the spread of	f varic	ous		require	ements	during			
Learning Outcomes for OK: After studying the educational component, the student is expected to be able to >> and foreign registration sources to and treating etiologies and methods of their animal of animals, prevention biological contamination of animals, of infectious and decide on non-infectious and decide on non-infectious and the choice diseases, as well waste, as well waste, as well mechanism of diagnosis, treatment and the choice as production and as materials their action, interaction and or exploitation of of animals of different diagnosis, treatment diseases . Image: Strategies of animals of animals of different diagnosis, treatment diseases . Image: Strategies of animals of different diagnosis, treatment diseases . Image: Strategies of animals of different diseases and species. Image: Strategies of animals of different diseases and species. Image: Strategies of animals of different diseases and species. Image: Strategies of animals of different diseases and species. Image: Strategies of animals of different diseases and species. Image: Strategies of animals of different diseases and species. Image: Strategies of animals of species. Image: Strategies of studetspies of animals of species. <td< td=""><td></td><td>of</td><td>domestic</td><td>the</td><td>and r</td><td>means of</td><td>diseases c</td><td>f phar</td><td>maceu</td><td>ticals</td><td>of bios</td><td>safety,</td><td>profess</td><td>sional</td><td></td><td></td></td<>		of	domestic	the	and r	means of	diseases c	f phar	maceu	ticals	of bios	safety,	profess	sional		
Learning outcomes for OK: After studying the educational component, the student is expected to be able to » MLO 1. Know and use the terminology of obstetrics and gynecology. Use information	I some to a	veterinary	and foreign	registration	keeping	, feeding	various	and	biolog	icals,	bioethi	ics and	activitie	es.		
OURCOMES for OK: After studying the educational component, the able to» develop diagnostic, student is expected to be able to» examination animals, prevention of animals, of infectious and decide on non-infectious and of infectious and of livestock understand the species in veterinary complex action of animals. enteral or welfare. or welfare. MLO 1. Know and use the terminology of obstetrics and gynecology. X X X X X	Learning	medicine.	sources to	and	and	treating	etiologies an	d meth	nods of	f their	anima					
OK: After studying the educational component, the student is expected to be able to >> diagnostic, treatment and of animals, decide on non-infectious and decide on non-infectious diseases, as well waste, as well processes in entrological interaction processes in veterinary mechanism of methods of interaction and and and MLO 1. Know and use the terminology of obstetrics and gynecology. X X X X Image: Strategies 1. Analysis of students' knowledge in the kahoot program	outcomes for		develop	examination	animals	, prevention	biological	ente	ral	or	welfare	э.				
studying the educational component, the student is expected to be able to >> treatment and business strategies decide on non-infectious diseases, as well waste, as well mechanism of as materials their action, and interaction and veterinary complex action or enterprises for animal animals of different diseases . of fivestock understand the waste, as well mechanism of as materials their action, and interaction and veterinary complex action or animals. MLO 1. Know and use the terminology of obstetrics and gynecology. X X X X Image: Strategies and species. 1. Analysis of students' knowledge in the kahoot program	OK: Atter		diagnostic,	of animals,	of infe	ctious and	contaminatio	n pare	nteral	use,						
educational component, the student is expected to be able to » and business strategies the choice diseases, as well waste, as well mechanism of of effective as production and methods of technological interaction and processes in enterprises for products. mechanism of as materials and or exploitation of on animals. MLO 1. Know and use the terminology of obstetrics and gynecology. X X X X Image: Strategies in the str	studying the		treatment	decide on	non-infe	ectious	of livestoc	k unde	erstand	l the						
component, the student is expected to be able to >> business strategies of effective as production and methods of technological interaction and veterinary processes in enterprises for enterprises for of animal animals of different diseases . and seterinary products. and seterinary products. MLO 1. Know and use the terminology of obstetrics and gynecology. X X X Image: Seterinary of students' knowledge in the kahoot program	educational		and	the choice	disease	s, as well	waste, as we	ll mec	hanism	n of						
strategies strategies methods of technological diagnosis, processes in reatment able to >> and veterinary products. interaction and complex action on animals. able to >> and become beco	component, the		business	of effective	as proc	duction and	as material	s their	а	ction,						
expected to be able to > aiagnosis, treatment and prevention of animal diseases . processes in enterprises for keeping, breeding or exploitation of animal animals of different classes and species. complex action on animals. MLO 1. Know and use the terminology of obstetrics and gynecology. Use information X X X Image: Section of students' knowledge in the kahoot program	student is		strategies	methods of	technolo	ogical	and	inter	action	and						
able to » treatment and prevention of animal diseases. enterprises for keeping, breeding or exploitation of animals of different classes and species. on animals. MLO 1. Know and use the terminology of obstetrics and gynecology. X X X	expected to be			diagnosis,	process	es in	veterinary	com	plex a	action						
and prevention of animal diseases. and prevention of animal diseases. animals of different classes and species. MLO 1. Know and use the terminology of obstetrics and gynecology. X X	able to »			treatment	enterpris	ses for	products.	on a	nimals							
MLO 1. Know and use the terminology of obstetrics and gynecology. Use information X X X Image: Section of the				and	keeping	, breeding										
MLO 1. Know and use the terminology of obstetrics and gynecology. X X X Image: Section of the s				prevention	or expl	loitation of										
MLO 1. Know and use the terminology of obstetrics and gynecology. X X Image: Classes and species. Image: C				of animal	animals	of different										
MLO 1. Know and use the terminology of obstetrics and gynecology. Use information X X				diseases .	classes	and										
MLO 1. Know and use the terminology of obstetrics and gynecology. X X					species.											
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MLO 1. Know and use the terminology of obstetrics and gynecology. Use information																
and use the constrained of students' constrained	MLO 1 Know														1 And	alveie
terminology of obstetrics and X X gynecology. Use information	and use the														of stud	liysis
obstetrics and X X in the kahoot program	torminology of														lon Stud	
gynecology. Use information	obstatrics and	v	v												in the ke	boot
Use information		^	^												nrogram	
	Lico information														program	1
from domostio	from domostio															

and foreign sources to									
develop diagnostic									
treatment									
obstetrics and									
gynecology									1 Analysis
Collection of									of students'
anamnestic data									knowledge in the kahoot
and inspection									program
of animals, to make the	х	х	х						
decision on a									
effective									
methods in the help									
MLO 3.									1. Written
conclusions									survey
about									
effectiveness of									
selected methods of			X	Х					
obstetrics and									
gynecology and non-									
communicable									
MLO 4.									1. Abstract
Monitor the									
diseases of									
gynecology									
pathology,				x					
pollution with									
waste care, as well as materials									
and veterinary									
MLO 5.									1. Notebook
Know the rules									design
various									
pharmaceuticals and									
biological									
and ways of					x				
their enteral or parenteral use.					~				
to understand									
of their action,									
interaction and									
on the body of									
animals. MLO 6									2. Computer
Know the rules									survey and
and requirements of						x			analysis or students'
biosafety ,									knowledge (certification)
animal welfare.									
MLO 7 Maintain									 Multiple choice test
accounting							~	~	(exam)
animals, use of							Ă	~	
drugs and									
r storit urugo.					1	1			

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

Topic.	Dist	tribut	tion of	hours	
					es
	Cl	assro	om		ource
	work			ent	res
	Lectures	Practice	Laboratory	Independe learning	Training
Topic 1: Pathology of pregnancy.					
The importance of external and internal factors in the occurrence of pathology of pregnant females. The main diseases of pregnant females. Abortions, their causes, prevalence, clinic, classification, losses and prevention. Care of animals in the period after abortion. Restoration of reproductive function of females after abortion.			2	10	1, 2
Topic 2: Pathology of childbirth. Causes of pathological childbirth. Obstetric examination plan and diagnosis. Obstetric instruments and its application. Basic principles of obstetric care in pathological childbirth. Weak contractions and attempts. Strong contractions and attempts. Uterine torsion. Narrowness of the pelvis. Narrowness of the vulva and vagina. Narrowing of the cervical canal. Cervical spasm. Dry childbirth. Incorrect fetal relationships and patrimonial ways. Wrong positions and submissions. Wrong positions and placement .			2	10	1, 3- 7
Topic 3: Pathology of the postpartum period . Causes of postpartum diseases . Injuries to the birth canal. Local inflammatory processes. General postpartum infection. Postpartum pathology of non-inflammatory nature.	2			10	8-9
Topic 4: Pathology of newborn animals. Physiological parameters of the newborn. Care for newborns and parturients. Major diseases of newborns.				10	1-5
Topic 5: Pathology of the breast. Influence of external and internal factors on the development and function of the breast. Hypo - and agalactia - types, causes, prevention. Mastitis - causes, spread, economic losses. Classification of mastitis . Forms of mastitis in females - causes, clinic, diagnosis, prognosis, treatment and prevention			2	8	1-8
Topic 6: Veterinary gynecology. Definition of discipline. The essence of infertility and infertility, losses, consequences. Classification of forms of infertility, prevention measures. Causes of infertility. Gynecological pathology.	2			12	1-5
Topic 7: Intensification of reproductive function of females. Definition of terms: recovery, stimulation, synchronization, suppression and intensification. Purpose, methods and ways of intensification and suppression of reproductive function in females of different species.				10	1, 3- 7
Topic 8: Obstetrics and gynecology. Definition and significance of medical examination. Components of medical examination and their role in improving the reproduction of livestock. Stages and frequency of obstetric and gynecological medical examinations.			2	8	8-9
Total	4		8	78	

4. METHODS OF TEACHING AND TEACHING

MLO	Teaching methods	Number	Teaching methods	Number
	(work to be done by	of hours	(what types of	of hours
	the teacher <u>during</u>		educational activities	
	<u>classes</u> ,		the student must	
	consultations)		perform independently	
)	
MLO 1. Know and use the terminology of veterinary medicine.	- presentation of lecture material according to the plan;	2 years	mastering research methods;independent work	8 hours
Using information from local and foreign sources to develop diagnostic, therapeutic and	- proposals for literature on each topic of lectures;		during the research - recording the results of the study; analysis of research	
			results;	
MLO 2. Collect anamnestic data during the registration and examination of animals, decide 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 student work; control of the educational process 	2 years	 registration of the journal of sick animals; fixation of lecture material obligatory preparation for hospital, mastering of lecture material for hospital 	8 hours
MLO 3. Draw conclusions	presentation of lecture	4 years	registration of the	8 hours
ALCO 5. Draw conclusions about the effectiveness of selected methods and means of treatment of animals, prevention of infectious and non-infectious 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	4 years	registration of the journal of sick animals, medical history; - fixation of lecture material - obligatory preparation for hospital, mastering of lecture material for hospital.	8 hours
MLO 4. Monitor the causes of the spread of diseases of various etiologies and biological contamination 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	4 years	draw conclusions from the data obtained; - fixation of lecture material - obligatory preparation for hospital, mastering of lecture material for	8 hours
MLO 5 Know the rules of	consultations of	4 years	compiling a journal of	10 hours
storage of various drugs and	students in the process	i years	class A and B drugs;	10 110015
biological products, methods	of mastering OK -		- fixation of lecture	
of their enteral or parenteral	methodical		material	
use, understand the	registration of all		- obligatory preparation	
mechanism of their action,	types of student work;		for the hospital,	
interaction and complex action	- control of the		mastering the lecture	
on animals.	educational process			

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	4 years	draw conclusions from the data obtained; - fixation of lecture material - mandatory preparation for hospital,	12 hours
MLO 7 Carry out accounting in the course of professional activities.	consultations of students in the process of mastering OK - methodical registration of all types of student work; - control of the educational process	4 years	compiling logs of the enterprise or clinic - fixation of lecture material - obligatory preparation for hospital, mastering of lecture material for hospital.	12 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	Date of
		in the overall	compilation
		score	
	Autumn semester		
1.	Survey in laboratory-practical classes, notebook design	55/55%	3, 8, 12,14
			weeks
2.	Design Abstract	15/15%	14 weeks
3.	Computer survey and analysis of students' knowledge	15/15%	14 weeks
	(testing, current control)		
4.	Multiple selection text (credit)	15/15%	Week 15

5.3. Evaluation criteria

Autumn semester

Final evaluation	Unsatisfactorily	Satisfactorily	Fine	Perfectly
method				
Survey in	<6 points	6 - 8 points	9 - 12 points	13 - 15 points
laboratory-	The student has only	Has a general	Has all the	Completely masters
practical classes	a few concepts, can	idea of the topic,	questions, makes a	all questions, is not
	not draw	makes a	small number of	mistaken
	conclusions	significant	unprincipled	
		number of	mistakes	
		mistakes		
Abstract design	<8 points	9-11 points	12-14 points	15 points
	Task	The abstract is	Abstract at a good	The abstract is a
	not executed	developed	level of analysis,	flawlessly, logically
		without	synthesis,	arranged material with
		understanding the	generalization and	an understanding of
		relationship	critical evaluation of	of the processes
		between the tasks	data from literature	revealed on this tonic
		to be solved, is	sources cited in	demonstrates a highly
		not able to	Abstract, able to	developed ability to
		critically evaluate	critically evaluate	critical academic

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

5.4. Formative assessment:

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

N⁰	Elements of formative assessment	Date
1	Survey in laboratory-practical classes, design of a notebook	According to the schedule
	with comments	
2	Registration of abstracts and comments	Within a week until the end of
		the educational process

6. LEARNING RESOURCES 6.1. Key resources

1. Veterinary obstetrics, gynecology and biotechnology of animal reproduction with the basics of andrology / [Yablonsky VA, Хомин С.П., Kalinovsky GM etc.]. - Vinnytsia: Nova kinyha, 2011. - 608 p.

2. Cap. VV, Valchuk OA, Derkach SS, Zhuk Yu.V., Masalovich Yu.S. Biotechnological methods in veterinary reproductive medicine : a textbook. - Kyiv, NULES of Ukraine, 2020. - 102 p.

3. Lyubetsky VY, Zhuk YV, Valchuk OA, Derkach SS, Kovpak. V.V. Laboratory and functional diagnostics in veterinary obstetrics, gynecology and andrology: a textbook. - Kyiv, NULES of Ukraine, 2020. - 258 p.

4. Valchuk OA, Mazur VM, Kovpak VV, Derkach SS, Zhuk Yu.V. Methods of research in veterinary medicine: Textbook. - Kyiv: NULES of Ukraine, 2020. - 146 p.

5. Lakatosh VM Obstetrics, gynecology and biotechnology of reproduction of dogs and cats. Textbook . К.: ФОП " Ямчинський О.В"., 2020. - 301 с.

6. Berezovsky AV, Kharenko MI, Lyubetsky VY, Koshevoy VP, Fotina TI, Zhelavsky MM, Sklyarov PM, Stravsky JS, Chekan O.M., Baidevlyatova Yu.V., Saletska OV, Zhuk Yu.V., Valchuk OA, Derkach SS, Fedorenko S.Ya., Luzan MP, Musienko Yu.V. ., Dmitriev O.Ya., Kostyshyn E.Ye., Khomutov SL Physiology and pathology of the mammary gland in animals: Textbook / for general . ed .. A.V. Berezovsky and MI Kharenka - K .: DIA, 2018. - 476 p.

6.2. Instructions

7. Methodical recommendations for laboratory-practical classes on "Obstetrics, gynecology and biotechnology of animal reproduction" for full-time students majoring in 6.11010101 "Veterinary Medicine" shortened period. - Sumy: Sumy National Agrarian University, 2016. - 114 p.

6.3 Electronic resources

8. <u>http://library.sau.sumy.ua</u>

9. <u>http://veterinary.net.ua/books/veterinarne-akusherstvo-ginekologiya-ta-biotehnologiya-vidtvorennya-tvarin-z-osnovami</u>

10. <u>http://www.studmed.ru/yablonskiy-va-praktichne-akusherstvo-gnekologya-ta-botehnologya-vdtvorennya-tvarin-z-osnovami-andrologyi_ace66ddb090.html</u>