EDUCATIONAL COMPONENT SYLLABUS



Veterinary reproduction

specialty	211 – Veterinary medicine	the obligation of discipline	selective component
educational program	veterinary medicine	faculty	veterinary medicine
educational level	Master of science	department	veterinary surgery and reproduction

LECTURERS

Fedorenko Serhii Yakovych



Higher education – Kharkiv Zooveterinary Institute, 1999, specialist, qualification – doctor of veterinary medicine.

Scientific degree - Doctor of Veterinary Sciences, specialty 16.00.07 - Veterinary obstetrics

Academic rank - Professor

Work experience – 25 years

Indicators of professional activity on the course topic:

- author of over 100 scientific works, including more than 10 articles included in the scientometric databases Scopus and Web of Science, 2 textbooks, 2 monographs, 6 scientific and methodological recommendations and 8 technical specifications for veterinary drugs;
- 20 years of scientific experience.

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Naumenko Svitlana Valeriivna



Higher education – Kharkiv State Zooveterinary Academy, 2005, specialist, qualification – doctor of veterinary medicine.

Scientific degree - Doctor of Veterinary Sciences, specialty 16.00.07 - Veterinary obstetrics

Academic rank - Professor

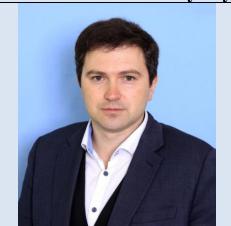
Work experience – 20 years

Indicators of professional activity on the course topic:

- author of over 140 scientific works, including 13 articles included in the scientometric database Scopus and Web of Science, 114 articles in scientific professional publications of Ukraine, 2 textbooks, 4 monographs and 2 chapters of collective monographs, 46 abstracts of reports from international and all-Ukrainian scientific and practical conferences, 8 scientific and methodological recommendations and 2 technical conditions for veterinary drugs;
- 20 years of scientific experience.

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Siehodin Oleksandr Borysovych



 $Higher\ education-Kharkiv\ Zooveterinary\ Institute,\ 2001,\ specialist,\ qualification-doctor\ of\ veterinary\ medicine.$

Scientific degree – Candidate of Veterinary Sciences (Ph.D.), specialty 16.00.05 – Veterinary surgery

Academic rank - Docent

Work experience – 24 years

Indicators of professional activity on the course topic:

- author and co-author of over 30 scientific works, including: textbooks in English -3; chapter in a collective monograph -1, patent for a utility model -1;
- 20 years of scientific experience.

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Koshevoi Vsevolod Ihorovych



Higher education – Kharkiv State Zooveterinary Academy, 2019, Master of science, qualification – doctor of veterinary medicine.

Scientific degree – Doctor of Philosophy, specialty – 211 Veterinary medicine, State Biotechnological University, 2023. Work experience – 2 years

Indicators of professional activity on the course topic:

- author of over 100 scientific works, including 6 articles included in the scientometric database Scopus, 45 articles in scientific professional publications of Ukraine (including 16 in English), 1 monograph and 2 chapters of collective monographs, 42 abstracts of reports of international and all-Ukrainian scientific and practical conferences, 6 scientific and methodological recommendations and 1 technical conditions for a veterinary drug;
- 10 years of scientific experience;
- reviewer of scientific articles in journals included in international scientometric databases (Scopus World's Veterinary Journal; Web of Science Uttar Pradesh Journal of Zoology; etc.).

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Goal	The purpose of studying the elective component "Veterinary Reproductology" is to enable higher education students to master indepth fundamental principles of the reproductive capacity of animals and their veterinary support, as well as modern means of therapy and prevention of pathological processes in the reproductive system of animals depending on the physiological period.				
Format	lectures, practical classes, independent work, individual tasks.				
Scope and forms of control 3 ECTS credits (90 hours): 18 hours of lectures, 36 hours of laboratory work, 36 hours of independent work; module control (2 modules); final control – differentiated test.					
Teacher requirements timely completion of independent work, presentations, activity, teamwork					
Enrollment conditions according to the curriculum					
	COMPLEMENTARY EDUCATION STANDARDS AND CURRICULUM				

Program

GC 2. Ability to apply knowledge in practical situations.	learning	program learning outcomes:
GC 3. Knowledge and understanding of the subject area and profession.	outcomes	PLO 3. Determine the essence of physicochemical and biological
GC 6. Skills in using information and communication technologies.		processes that occur in the animal body normally and during pathology;
special competences:		PLO 6. Develop quarantine and health measures, methods of therapy,
SC 9. Ability to perform obstetrical-gynecological and surgical procedures		prevention, diagnosis and treatment of diseases of various etiologies;
and operations.		PLO 7. Formulate conclusions regarding the effectiveness of selected
SC 13. Ability to develop strategies for the prevention of diseases of various		methods and means of keeping, feeding and treating animals, prevention of
etiologies.		infectious and non-infectious diseases, as well as production and technological
		processes at enterprises for keeping, breeding or operating animals of various
		classes and species.

STRUCTURE OF THE EDUCATIONAL COMPONENT (DISCIPLINE)

Chapter 1. Fundamentals of animal reproduction and their veterinary care

	LECTURES	Lab	oratory and practical lesson
Lecture 1	Reproductive health of female domestic animals and factors influencing it	LPL 1	Clinical characteristics of the reproductive system of female domestic animals
Lecture 2	Reproductive health of male domestic animals and factors influencing it	LPL 2	The influence of sanitary factors, diet and season on the reproductive ability of females
Lecture 3	Regulatory mechanisms for ensuring the reproductive potential of females and males	LPL 3	Clinical status of the male reproductive system, its role in the manifestation of reproductive function and the influence of hygienic and nutritional factors
Lecture 4	Modern diagnostic devices, methods of assessment and control of reproduction	LPL 4	Neuroendocrine regulation of sexual function in females
	processes	LPL 5	Neuroendocrine regulation of male reproductive function

Competences general competences:

Information technologies in reproductive science Ontogenesis of reproductive organs in animals Evolution of the sexual process in animals Gynogonads Androgonads Effects of environmental factors on reproduction in animals Phytohormones. Characteristics of producer plants Reproductive endocrinology Endocrine organs-regulators of reproductive function in females

This academic discipline ensures the formation of the following

LPL 6	Antioxidant regulation of reproductive capacity of domestic animals	Hormones. Sex hormones. Features
LPL 7	Information and diagnostic devices in animal reproduction	
LPL 8	Modern means of online screening of sexual activity in animals, their prognostic significance and practical application	

			physiological period					
Lecture 5	Correction of pathologies that arise during gametogenesis, fertilization and implantation	LPL 9	Pathological processes that occur during gametogenesis and their role in damage to genetic material		Embryonic stem cells. Definition, obtaining, cloning of organs Sex of the embryo, fetus. Definition.			
		LPL 10	Preventive means of correcting pathologies that occur during fertilization and during the implantation period		Problems. Amniotic membranes. Characteristics			
Lecture 6	Therapy and prevention of diseases of pregnant animals, measures to prevent pathologies of childbirth and the postpartum period	LPL 11	Therapy and prevention of diseases in pregnant animals		Amniotic, allantoic fluid. Characteristics Types of placentas. Macro- and microstructure. Function Causes of labor. Existing theories			
Lecture 7	Innovative means of treating gynecological diseases: modern therapeutic strategies, practical	LPL 12 LPL 13	Measures to prevent and treat birth pathology Therapeutic and preventive measures for	Independent work	Synchronization and induction of labor Pharmacocorrection of the reproductive capacity of animals			
	application		animals in the postpartum period	der				
Lecture 8	Prevention of gynecological pathology as the basis for combating female infertility	LPL 14	Animal therapy for gynecological pathology: prevalence, pathogenetic mechanisms and modern tools	ıdepen				
	inicitiity	LPL 15	Antibiotic resistance and its role in gynecological pathology: prevention methods and alternative therapy	II				
Lecture 9	Pharmacotherapy of andrological diseases and the use of preventive	LPL 16	Preventive measures for gynecological diseases of domestic animals					
	measures	LPL 17	Modern means of correcting sexual function in males, therapy and prevention of andrological pathologies					
		LPL 18	Pharmacocorrection of antioxidant protection in fruit growers: prospects and possibilities					

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Methodical support

- 1. Biotekhnolohichni i molekuliarno-henetychni osnovy vidtvorennia tvaryn / [V.A. Yablonskyi, S.P. Khomyn, V.I. Zaviriukha ta in.] ; pid zah. red. Yablonskoho V.A., O.I. Serhiienka ta R.S. Stoika. Lviv: TzOV "VF «Afisha»", 2009. 218 s.: il.
- 2. Veterynarna perynatolohiia : navch. posibnyk dlia studentiv vyshchykh navchalnykh zakladiv / [V.P. Koshovyi, M.M. Ivanchenko ta in.] ; za zah. red. V.P. Koshovoho. Kharkiv: RVV KhDZVA, 2008. 465 s.
- 3. Berezovskyi A.V., Kharenko M.I. (Red.). Fiziolohiia ta patolohiia rozmnozhennia dribnykh tvaryn: navchalnyi posibnyk (2-e vydannia, pereroblene i dopovnene). Zhytomyr: Polissia, 2017. 392 s.
- 4. Yablonskyi V.A. Praktychne akusherstvo, hinekolohiia ta biotekhnolohiia vidtvorennia tvaryn z osnovamy androlohii. Kyiv: Meta, 2002. 319 s.
- 5. Yablonskyi V.A., Khomyn S.P. (Red.). Veterynarne akusherstvo, hinekolohiia ta biotekhnolohiia vidtvorennia tvaryn z osnovamy androlohii: pidruchnyk. Vinnytsia: Nova Knyha, 2006. 592 s.
- 6. Berezovskyi A.V., Kharenko M.I. (Red.). Fiziolohiia ta patolohiia molochnoi zalozy u tvaryn: navchalnyi posibnyk. Kyiv: DIA, 2018. 476 s.

- 1. Koshevoi V.P., Fedorenko S.Ia., Ivanchenko M.M., Naumenko S.V., Besedovska K.S., Skliarov P.M. Termohrafichna diahnostyka u veterynarnomu akusherstvi, hinekolohii ta androlohii (metodychni rekomendatsii). Kharkiv: RVV KhDZVA, 2013. 52 s.
- 2. Koshevoi V.P., Fedorenko S.Ia., Naumenko S.V., Ivanchenko M.M., Besedovskyi V.P., Onyshchenko O.V., Besedovska K.S., Pasternak A.M., Chuiko L.V., Koshevoi V.I., Skliarov P.M., Holota V.I., Taran H.V., Kravtsov M.N. Ozonomistski preparaty ta yikh vykorystannia u veterynarnii reproduktolohii (metodychni rekomendatsii). Kharkiv: RVV KhDZVA, 2014. 81 s.
- 3. Koshevoi V.P., Fedorenko S.Ia., Naumenko S.V., Ivanchenko M.M., Onyshchenko O.V., Besedovska K.S., Pasternak A.M., Hladtsinova I.O., Koshevoi V.I., Skliarov P.M., Maliukin Yu.V., Yefimova S.L., Klochkov V.K. Kompleksni preparaty, stvoreni na osnovi nano-biomaterialiv ta yikh vykorystannia u veterynarnii reproduktolohii (metodychni rekomendatsii). Dnipro: vydavnytstvo «Porohy», 2016. 110 s.
- 4. Skliarov P.M. Biotekhnolohiia vidtvorennia sobak i kotiv: navchalnyi posibnyk. Dnipro: FOP Shliupenkov O.A., 2022. 92 s.

EVALUATION SYSTEM						
	SYSTEM	POINTS	ACTIVITY THAT IS ASSESSED			
Final assessment (different	100 ECTS points (standard)	up to 100	40 % - Final testing			
credit, exam)Final evaluation	100 EC 18 points (standard)		60 % - student's current work during the semester			
Final assessment (non-differential credit)	100 points ECTS (standard)	up to 100	100 % - average grade for sections			
	100 points total	up to 30	30 % - answers to test questions			
Rating of section		up to 30	30 % - the result of mastering the block of independent work			
		up to 40	40 % - student activity in class (oral answers)			

NORMS OF ACADEMIC ETHICS AND INTEGRITY

All participants in the educational process (including students) must adhere to the code of academic integrity and the requirements stipulated in the regulation "On Academic Integrity of Participants in the Educational Process of SBTU": to demonstrate discipline, good manners, respect each other's dignity, show kindness, honesty, and responsibility.