EDUCATIONAL COMPONENT SYLLABUS

REPRODUCTION OF PIG

specialty	**211 – Veterinary medicine**	**the obligation of discipline**	**selective**
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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GENERAL INFORMATION ABOUT THE EDUCATIONAL COMPONENT

Goal	to teach the applicant the basic methods of diagnosis, treatment and prevention of animal reproduction pathologies, diseases of the mammary gland and newborns, as well as a detailed study of the latest methods of pig reproduction using modern biotechnological methods**.**
Format	lectures, practical classes, independent work, individual tasks.
Scope and forms of control	3 ECTS credits (90 hours): 12 hours of lectures, 18 hours of laboratory work, 60 hours of independent work; current control; final control – differentiated credit
Teacher requirements	timely completion of independent work, presentations, activity, teamwork
Enrollment conditions	according to the curriculum

COMPLEMENTS THE STANDARD OF EDUCATION AND THE EDUCATIONAL PROGRAM

Competences	GC 2. Ability to apply knowledge in practical situations. GC 3. Knowledge and understanding of the subject area and profession. GC 9. Ability to make informed decisions. SC 2. Ability to use tools, special devices, instruments, laboratory equipment and other technical means to perform the necessary manipulations during professional activities. SC 3. Ability to comply with occupational safety, asepsis and antisepsis rules during professional activities. SC 4. Ability to conduct clinical studies to draw conclusions about the condition of animals or to establish a diagnosis. SC 7. Ability to organize and conduct laboratory and special diagnostic tests and analyze their results. SC 9. Ability to perform obstetrical-gynecological and surgical procedures and operations.	**Program learning outcomes**	PLO 4. Collect anamnestic data during registration and examination of animals, make decisions on choosing effective methods of diagnosis, treatment and prevention of animal diseases. PLO 5. Establish a relationship between the clinical manifestations of the disease and the results of laboratory tests. PLO 10. Propose and use appropriate innovative methods and approaches to solving problem situations of professional origin.

STRUCTURE OF THE EDUCATIONAL COMPONENT

Lecture 1	Obstetric, gynecological, andrological and biotechnological propaedeutics.	**Laboratory and practical lesson 1 (LPL 1)**	Obstetric, gynecological, andrological and biotechnological propaedeutics	**Independent work**	Information technologies in obstetrics, mastology, gynecology, andrology and animal reproduction biotechnology. Phytotherapy, acupuncture, homeopathy. Tissue, novocaine and ozone therapy. Blood supply and innervation of the reproductive system. Micro- and macrostructure of the organs of regulation and performance of the pig reproductive function. Determining the optimal time for
Lecture 2	Morphological structure and physiological function of the reproductive organs	**LPL 2**	Morphological structure and physiological function of the pig reproductive organs.		
Lecture 3	Biotechnology of pig reproduction	**LPL 3**	Biotechnology of pig reproduction.		

					insemination of female pigs. History of the development of artificial insemination of female pigs. Hormonal background of the sexual cycle of female pigs.
Lecture 4	Perinatal physiology and pathology	**LPL 4**	Perinatal physiology Pregnancy diagnostics.	**Independent work**	Pregnancy diagnostics. Pregnancy pathology. Labor pathology. Mammary gland diseases in the absence of lactation. Neonatology. Newborn care. Congenital pathologies and neonatal death. Infectious diseases. Pathology of the mammary gland of pigs. Pathology of the breast during lactation. Diagnostic methods of the genital tract. Ultrasound diagnostics Vaginal cytology Vaginoscopy. Infertility of female pigs. Disturbances of the sexual cycle in females. Methods of diagnosing the sexual cycle in females. Infertility of males.
Lecture 5	Neonatology. Mastology.	**LPL 5**	Perinatal pathology. Pathology of childbirth and the postpartum period.		
Lecture 6	Gynecological and andrological pathology.	**LPL 6**	Neonatology. Newborn care. Congenital pathologies.		
		LPL 7	Physiology and pathology of the mammary gland.		
		LPL 8	Gynecological pathology. Female infertility.		
		LPL 9	Male infertility.		

BASIC LITERATURE AND METHODOLOGICAL MATERIALS

Literature

1. Fiziolohiia, patolohiia ta biotekhnika vidtvorennia svynei / M.I. Kharenko ta in. Sumy: Kozatskyi val, VAT «SOD», 2010. 412s.
2. Iablonskyi V.A. Praktychne akusherstvo, hinekolohiia ta biotekhnolohiia vidtvorennia tvaryn z osnovamy androlohii. Kyiv: Meta, 2002. 319 s.

Methodical support

1. Koshevoi V.P. Imunobiolohiia laktatsii u tvaryn: navchalno-metodychne vydannia. Dnipropetrovsk: Herda, 2015. 132 s.
2. Koshovyi V.P. Veterynarna perynatolohiia: navchalnyi posibnyk. Kharkiv: RVV KhDZVA, 2008. 465 s.
3. Mazurkevych A.I., Karpovskyi V.I. Fiziolohiia tvaryn: pidruchnyk. Vinnytsia: Nova Knyha, 2010. 424 s.
4. Melnyk V.A., Kot S.P., Kravchenko O.O. Biotekhnolohiia vidtvorennia svynei. Mykolaiv, 2005. 53 s.

3. Iablonskyi V.A., Khomyn S.P. (Red.). Veterynarne akusherstvo, hinekolohiia ta biotekhnolohiia vidtvorennia tvaryn z osnovamy androlohii: pidruchnyk. Vinnytsia: Nova Knyha, 2006. 592 s.

5. Perynatalna patolohiia u svynei. Diahnostyka ta profilaktyka : metodychni rekomendatsii / V.P. Koshovyi, M.M. Ivanchenko. – Kh.: RVV KhDZVA, 2008. – 63 s.

6. Rudyk S.K. Anatomiia sviiskykh tvaryn: pidruchnyk. Kyiv: Ahrarna osvita, 2001. 575 s.

EVALUATION SYSTEM

SYSTEM		POINTS	ACTIVITY THAT IS ASSESSED
Final assessment (different credit, exam)Final evaluation	**100 ECTS points (standard)**	**up to 100**	**40 % - Final testing**
			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**
Rating of section	**100 points total**	**up to 30**	**30 % - answers to test questions**
		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.