Module title:	Equine Diseases	ECTS	12
Polish translation:	Choroby koni		
Course:	**Veterinary Medicine**		

Module language: English			Stage: JM	
Form of studies: ■ intramural ☐ extramural	Type of module: ☐basic ■ directional ☐ accessory ☐ rotation ☐ summer practice ■ mandatory ☐ elective		Semester: …8…….. Year 4	☐winter semester ■ summer semester
Academic year:	**2023/2024**	Catalogue number:	FVM-V-JMSS-08S-D15_23	

Module coordinator:	dr hab. Bartosz Pawliński, prof. SGGW		
Teachers responsible for the module:	Staff and PhD students of the Department of Large Animal Diseases with Clinic		
Unit responsible for the module:	Department of Large Animal Diseases with Clinic		
Faculty in charge:	Faculty of Veterinary Medicine		
Objectives of the module:	Program includes lectures and practical exercises from equine reproduction, surgery, internal medicine and infectious diseases. During the course students gain knowledge and practical skills from all four disciplines. Program of the course includes presentation and use of diagnostic and treatment methods of most common internal, surgical, infectious, reproductive tract diseases and disorders. The aim is to provide knowledge on the aetiology and pathogenesis of equine diseases requiring surgical, internal or obstetrical treatment, teach to perform clinical diagnosis and examination and apply proper therapeutical procedures.		
Teaching forms, number of hours:	a) Lectures: 60 h b) Exercises : 120 h		
Teaching methods:	Oral presentations with audio-visual techniques e.g. videos, 3D animated visualizations or other multimedia presentation types with practical training on isolated organs and phantoms, training in the diagnosis and therapy of diseases in slaughter-houses and clinics, flocks and studs, on university owned teaching mares, clinical patients and production animals. The course is conducted with the use of multimedia techniques, e.g. computer programs, videos, computer presentations.		
Formal prerequisites and initial requirements:	Animal physiology modules 1-2, Animal anatomy modules 1-2, Histology and embryology modules 1-2, Veterinary pharmacology modules 1-2, Pathomorphology modules 1-3, Diagnostic imaging, Clinical and laboratory diagnostics modules 1-2, General surgery and anesthesiology, Veterinary epidemiology, Parasitology and invasiology modules 1-2, Immunology, Biochemistry modules 1-2, Veterinary microbiology modules 1-2		
Learning outcomes:	Knowledge: executes clinical examination with the focus on reproductive tract, musculoskeletal system, digestive tract, urogenital system, respiratory system both manually and with the of use appropriate additional methods e.g. instruments and utensils knows proper methods and instruments to diagnose infectious diseases, reproductive tract disorders, internal diseases, and disorders requiring surgical intervention knows how to prescribe and use drugs, medical materials and vaccines according to legal regulations and rules of their safe storage and utilization; provides clinical documentation of each patient	Skills: executes anamnesis with the aim of gathering detailed information about single animal, stud and their environment prepares evidence and documentation; uses existing files correlated with heard health, animal welfare and herd productivity creates clear documentation of clinical cases according to current legal regulations in the form that can be easily understood by other veterinarians or owners	Competences: …….. ……..
Assessment methods:	Practicals: oral/written, theory/practice tests from classes. Lectures: oral/written exam and practical exam		
Formal documentation of learning outcomes:	Signed test and exam papers, student's assessment record, grade in eHMS		

Elements impelling final grade:	Practicals: written tests 50%, oral test: 50%. Lectures: practical exam 20%, theoretical exam: 80%.
Teaching base:	The didactic part of the classes and workshops will be conducted in classrooms of the Department of Large Animal Diseases in the Clinic in Wolica and in classrooms of the Faculty of Veterinary Medicine, practical courses in the management of farm animal reproduction and reproductive disorders are conducted in the Equine Clinic (Campus Wolica) and during field trips off e.g. in major state / federal horse studs..

Mandatory and supportive materials :

Textbooks:

1. Veterinary Reproduction and Obstetrics. D.E. Noakes, T.J. Parkinson, G.C.W. England 9th ed. Sauders, Elsevier, 2009
2. Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier. 2007
3. Fossum T.W. Small Animal Surgery, 3rd edition, Mosby Elsevier, 2007.
4. Fubini S.L., Ducharme N.G. Farm Animal Surgery. Saunders, 2004.
5. Donald E. Thrall. Textbook of Veterinary Diagnostic Radiology. 5th edition, Saunders Elsevier, 2007.
6. Auer J.A., Stick J.A.: Equine surgery. Elsevier Saunders, 4th edition, 2012.
7. Muir W.W., Hubbell J.A.E.: Equine anesthesia, monitoring and emergency therapy. Elsevier, 2nd edition, 2009.
8. Ross M.W., Dyson S.J.: Diagnosis and management of lameness of the horse, Elsevier Saunders, 1st edition, 2003.
9. Stashak T.S.: Adams lameness in horses. Lea and Febiger, 1987.
10. Equine infectious diseases, D. C. Sellon & M. T. Long, Saunders, 2007
11. A.M. Johnston: *Equine Medical Disorders*, *Second Edition*, Blackwell Scientific Publication, 1994
12. D.H. Lloyd, J.D. Littlewood, J. M. Craig and L.R. Thomsett: *Practical Equine Dermatology*. Blackwell Science, 2003
13. M. Furr, S. Reed: *Equine Neurology*. Blackwell Publishing, 2008
14. M. Patteson : *Equine Cardiology*, Blackwell Science, 1996
15. M. R. Paradis: *Equine Neonatal Medicine*. Saunders Elsevier, 2006
16. O. M. Radostits, C.C. Gay, K. W. Hinchcliff, P. D. Constable: *Veterinary Medicine 10th Edition*, Saunders Elsevier, 2007

Journals:

Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction, Reproduction, Molecular Reproduction and Development, Reproductive Biology, Cloning, Archives of Andrology, International Journal of Andrology, Life Veterinary, Veterinary Medicine

ANNOTATIONS

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	**…300… h**
Total ECTS points, accumulated by students during contact learning:	**…7…. ECTS**

Learning outcomes of the module relative to the learning outcomes of the subject:

Outcome category	Learning outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*)
Knowledge -	executes anamnesis with the aim of gathering detailed information about single animal, stud and their environment	U_PUZ1	2
Knowledge -	executes clinical examination with the focus on reproductive tract, musculoskeletal system, digestive tract, urogenital system, respiratory system both manually and with the of use appropriate additional methods e.g. instruments and utensils	W_NK5, U_PUZ3	3
Knowledge	knows proper methods and instruments to diagnose infectious diseases, reproductive tract disorders, internal diseases, and disorders requiring surgical intervention	W_NK3, W_NK4, W_NK7	3;3;3
Knowledge/Skils	knows how to prescribe and use drugs, medical materials and vaccines according to legal regulations and rules of their safe storage and utilization; provides clinical documentation of each patient	WW_NP10, WW_NP12, U_OUZ3, U_PUZ10	2;2;3;2
Skills -	prepares evidence and documentation; uses existing files correlated with heard health, animal welfare and herd productivity	U_PUZ17	2

Skills	creates clear documentation of clinical cases according to current legal regulations in the form that can be easily understood by other veterinarians or owners	U_OUZ3	3
Knowledge/Skills	knows procedures in case of infectious diseases outbreak and when animal is suspected of notifiable infectious disease	W_NK6, U_PUZ8	2;3

*)

3 – Significant and detailed,

2 – Partial,

1 – Basic,