## Syllabus

Module title:	Rotation equine diseases	ECTS	6
Polish translation:	Staż choroby koni		
Course:	Veterinary Medicine		

Module lang	uage: English				Stage:	JM-FVM
Form of 🛛 intramural studies: 🔲 extramural	Type of module:	□ basic ⊠ directional	⊠mandatory □ elective	Semester: 10		□ winter semester ⊠summer semester
			Academic year:	2020/2021	Catalogue number:	FVM-V-JMSS-10S- D17_20

Module coordinator:	dr Dominika Domańska			
Teachers responsible for the module:	Academic teachers of the Institute of Veterinary Medicine; Department of Large Animal Disease and Clinic; Division of Veterinary Epidemiology and Economics; PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study			
Unit responsible for the module:	Institute of Veterinary Medicine, Department of Large Animal Diseases and Clinic, Division of Veterinary Epidemiology and Economics			
Faculty in charge:	Faculty of Veterinary Medicine			
Objectives of the module:	Students take part in field workshops on National Agricultural Support Center farms and horse studs with high number of animals. During workshops students apply knowledge from fields of herd management, reproduction, infectious diseases, internal diseases and surgery. The aim is to provide practical skills required to asses aetiology and pathogenesis of farm animals' diseases requiring surgical, internal or obstetrical treatment, perform clinical diagnosis and examination and apply proper therapeutic procedures.			
Teaching forms, number of hours:	a) Clinical exercises: 90 hours			
Teaching methods:	Reproduction         Practical workshops in university clinic and in the field (farms and studs) with the application of veterinary equipment.         Surgery:         Practical workshop in cowshed Obory         Detailed schedule will be defined by the coordinator of the course at the beginning of semester.         Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester         Internal medicine:         Clinical/laboratory classes: conducting clinical examination of animals, treatment of clinical cases, analysis of test results         Consultations for students - 1h / week. The manner of organizing consultations will be determined by the subject coordinator at the beginning of the semester         Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.         Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.         Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.         Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.         Infectious diseases:         Introduction in the horse farm organization, herd management (biosecurity protocols, deworming and prophylaxis protocols).         Work with documentation: farm veterinary documentation, horse passport and health documents         Direct contact with horses: clinical examination of animals, coll			
Formal prerequisites and initial requirements:	Passing the courses: Animal anatomy, Animal physiology, Veterinary pharmacology, Pathomorphology, Diagnostic imaging, Veterinary microbiology, Animal pathophysiology, Clinical and laboratory diagnostics, General surgery and anaesthesiology, Equine diseases Knowledge of basics of bandling of animals, safety rules, general examination of the animal			
Learning outcomes:	Knowledge: Students knows; - the physiological and pathological mechanisms of horses - the clinical manifestations of diseases and knows other diseases with similar clinical appearance	Skills: Student is able to; - describe the mechanisms of equine diseases - plan the diagnostic procedures (including differential diagnosis) in	Competences: Student: - critically analyzes the results of research and is ready to use them for diagnostics, treatment and eradication of diseases of horses	

	<ul> <li>the diagnostic schemes and protocols (including differential diagnosis) for equine diseases</li> <li>the therapeutic schemes and protocols recommended for equine diseases, pharmacodynamics properties of recommended products and the interactions among medicinal products</li> <li>the principles of conducting clinical trials and monitoring the health status of horses</li> <li>anatomopathological lesions typical for particular diseases of horses</li> <li>procedures and applicable legal provisions in the event of suspected or confirmed diseases that are subject of eradication or registration/w mandatory and notifiable</li> </ul>	equine diseases - plan, implement and monitor the treatment strategies -diagnose diseases of horses using laboratory diagnostic methods -conduct a full clinical examination of horses - collect, secure and properly mark biological samples - implement appropriate procedures in the event of a disease j/w that is subject to eradication or registration -properly conduct an epizootic investigation and eradicate infectious diseases of horses -supplement and maintain documentation related to veterinary practice in accordance with applicable law - describe radiographs and correctly interpret the findings, diagnose the most common equine diseases that require surrical intervention	<ul> <li>presents an attitude</li> <li>consistent with veterinary</li> <li>deontology and the Veterinary</li> <li>Doctor's Code of Ethics</li> <li>is ready to take responsibility</li> <li>for his actions and decisions</li> <li>is aware of the continuous</li> <li>development of science and is</li> <li>ready to expand and update</li> <li>knowledge</li> <li>works in field conditions and</li> <li>effectively cooperates with co-</li> <li>workers and personnel</li> </ul>
Assessment methods:	Reproduction           observations of student's activity and know           examination, project and practical abilities asses           Surgery           Observations of student's activity and knowle           practical abilities assessment. No extra assessment           In case of unforeseen, unusual circumstances           might be adopted.           Internal diseases           Assessment resulting from the observation of the           preparation of a patient's medical history card and ch           Classes are held once for each group.           The student has the opportunity to make up for the           who can participate in clinical classes, doing the           coordinator. 100% attendance is required from the st           The final grade in the subject is issued based on the at           project. Maximum number of points 10, weight 100%           Clinical classes (0-5 points)           - student's active participation in animal examination           - discussion of clinical cases           - performing medical and veterinary activities           - completing medical and veterinary documentation           - collecting material (blood, urine, faeces, swabs) for           - the ability to choose the right treatment method for           - filling out the patient's medical card           Laboratory classes (0-2 points)	I surgical intervention ledge during internship, pro- essment edge during internship, writte- nent methods are anticipated. mandatory remote teaching student's activity and knowledg necking of practical skills. absence with another group but classes is possible only after tudent. ictivity in the classroom. is of clinical and laboratory class s. laboratory tests r the disease cases in question pted by teacher. indatory remote teaching and re in rotation with another group ation it is necessary to contact e rotation are:	j oject, medical history card, oral en project, oral examination and and remote assessment methods ge during classes, internship project, : due to the limited number of people prior consultation with the subject ses, and preparation of an internship mote assessment methods might be up. However, due to the limited t the course coordinator.

	valid life and accident insurance (ubezpieczenie NNW in Polish)				
	<ul> <li>awareness of health and safety rules during any contact with animals</li> </ul>				
	awareness of biosecurity rules				
	The final evaluation depends on attendance and student's activity during rotation: clinical examinations of				
	horses, cases discussion, horse passport and health documents and clinical cases discussion during the				
	rotation – the scale 0-2 points				
	0-5 points – 2.0				
	6 points - 3.0				
	7 points - 3.5				
	8 points - 4.0				
	9 points - 4.5				
	10 points - 5.0				
	No extra assessment methods are anticipated.				
	In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods				
	might be adopted.				
Formal documentation of loarning	eHMS entry.				
outcomes:	Records collected in the course portfolio i.e. individual records of student results, presence lists, database of				
outcomes.	oral and written questions, written assessments of the students.				
	Reproduction				
	oral examination and practical abilities assessment 50%, observations of student's activity and knowledge				
	25%, project, medical history cards 25 %				
	Surgery				
	oral examination and practical abilities assessment 50%, observations of student's activity and knowledge 25%,				
	written project 25 %.				
Elements impelling final grade:	Internal diseases				
	The assessed activity during classes and the internship project constitutes 100% of the final grade.				
	Infectious diseases:				
	The final evaluation depends on the number of points received during the rotation – 100%				
	Final grade is the unsighted mean result of grades from all four subjects where unsights are subjects				
	rinal grade is the weighted mean result of grades from all four subjects where weights are: reproduction-				
Teaching base:	Department of Large Animal Disease with Clinic, horse farms, horse clinics and horse events.				
Obligatory and supportive materi	als <sup>23</sup> :				
1. Handbook of Veterinary Obster	trics / Peter G. G. Jackson ; il. John Fuller ; Saunders Ltd.;				
2. Veterinary Reproduction and C	bstetrics. D.E. Noakes, T.J. Parkinson, G.C.W. England 9th ed. Sauders, Elsevier,				
3. Large Animal Theriogenology. R.F. Youngquist, W.L. Threlfall. 2nd ed. Saunders, Elsevier.					
4. Manual of Diagnostic Tests and Vaccines for Terrestial Animals. OIE,					
5. Veterinary Medicine 10th Edition, O. M. Radostits, C.C. Gay, K. W. Hinchcliff, P. D. Constable. Saunders Elsevier,					
6. Equine Medical Disorders, A.M. Johnston .Second Edition, Blackwell Scientific Publication, 1994					
7. Practical Equine Dermatology D.H. Lloyd, J.D. Littlewood, J. M. Craig and L.R. Thomsett:. Blackwell Science, 2003					
8. Equine Neurology. M. Furr, S. Reed: Blackwell Publishing, 2008					
9. Equine Cardiology M. Patteson, Blackwell Science, 1996					
10. Equine Neonatal Medicine M. R. Paradis:. Saunders Elsevier, 2006					
11. Veterinary Medicine 10th Edition O. M. Radostits, C.C. Gay, K. W. Hinchcliff, P. D. Constable:, Saunders Elsevier, 2007					
12."Equine infectious diseases 2nd edition, D. C. Sellon & M. T. Long, Saunders, 2013					
13. Infectious Diseases of the Hor	se: Diagnosis, pathology, management, and public health, JH van der Kolk & EJB Veldhuis Kroeze, Oxford				
University Press USA, 2013					

- 14. Infectious Diseases of the Horse Tim S. Mair, R. E. Hutchinson, Equine Veterinary Journal Ltd., 2009
- 15. H.E. Veterinary Anatomy Domestic Mammals Textbook and Color Atlas, Koenig. Blackwell Science. 2006.
- 16. Textbook of Veterinary Anatomy K.M. Dyce, Wolfgang O. Sack, C. J. G. Wensing:, 3rd edition. Elsevier. 2002.
- 17. Clinical anatomy of the horse H.M. Clayton, P.F. Flood, D.S. Rosenstein: Mosby, Elsevier. 2005.
- 18. Illustrated atlas of clinical equine anatomy and common disorders of the horse. R.J. Riegel, S.E. Hakolan: 1999, Equiston publication, vol.1 and 2.
- 19. The equine distal limb. J.M. Denoix:, Manson Publishing, 2002.
- 20. Lameness of the horse M. Ross, S. Dyson:. 2003.
- 21. Equine surgery, J. Auer, J. Stick, Saunders Elsevier, 2006.
- 22. Lameness in horses T.S. Stashak Adams. Lea and Febiger, 1987.
- 23. www.oie.int
- 24. www.aaep.org
- 25. www.defra.gov.uk
- 26. www.isid.org
- 27. www.thehorse.com
- 28. www.beva.org.uk
- Journals:

Theriogenology, Animal Reproduction Science, Reproduction of Domestic Animals, Biology of Reproduction, Reproduction, Fertility and Sterility, Reproductive BioMedicine Online, Archives of Andrology, International Journal of Andrology, Andrology

ANNOTATIONS

During clinical and laboratory classes, protective clothing is required: apron and covered footwear.

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:	100 h
Total ECTS points, accumulated by students during contact learning:	4 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 each for course
Knowledge –	Students knows the physiological and pathological mechanisms	B.W.1;B.W.2	3
K.1	of horses	B.W.3	2
Knowledge –	Students knows the clinical manifestations of diseases and	B.W.4; B.W.5	3
K.2	knows other diseases with similar clinical appearance	B.W.6; B.W.9 B.W.13	
Knowledge –	Students knows the diagnostic schemes and protocols	B.W.4	3
K.3	(including differential diagnosis) for equine diseases	B.W.5; B.W.6; B.W.9	
	Students knows the therapeutic schemes and protocols	B.W.6	2
Knowledge –	recommended for equine diseases, pharmacodynamics		
K.4	properties of recommended products and the interactions		
	among medicinal products		_
Knowledge –	Students knows the principles of conducting clinical trials and	B.W. 4, B.W.5, B.W. 6, C.W. 3	3
K.5	monitoring the health status of horses		
Knowledge –	Students knows anatomopathological lesions typical for	B.W. 3, B.W. 1	3
К.б	particular diseases of norses		2
Knowledge –	students knows procedures and applicable legal provisions in		3
K.7	the event of suspected or confirmed diseases that are subject	B.W. 7, B.W. 8, B.W. 16, C.W. 3, C.W.2	
	Student is able to describe the mechanisms of equipe diseases		2
SKIIIS -S.1	Student is able to describe the mechanisms of equine diseases		3
Skills –S.2	differential diagnosis) in hereos	A.U. 12, B.U.0, B.U. 1, B.U. 3	5
	Student is able to plan implement and monitor the treatment		3
Skills –S.3	strategies	A.0. 11, A.0. 12, B.0. 1, B.0. 9, B.0. 13	5
	Student is able to diagnose diseases of horses using laboratory		3
Skills –S.4	diagnostic methods	B.U.6. B.U.20. C.U. 2	3
Skills –S.5	Student is able to conduct a full clinical examination of horses	A.U. 12, B.U.6, B.U. 1, B.U. 3	3
	Student is able to collect, secure and properly mark biological	B.U.8. B.U. 1. B.U.6. A.U. 10	3
Skills –S.6	samples		
	Student is able to properly conduct an epizootic investigation	A.U. 12, B.U. 1, B.U.13, B.U. 19, B.U.20,	2
SKIIIS - S.8	and eradicate infectious diseases of horses	B.U. 21	
Skille S.O.	Student is able to supplement and maintain documentation	A.U. 14, A.U. 23, C.U. 4	3
SKIIIS - 5.9	related to veterinary practice in accordance with applicable law		
	Student is able to describe radiographs and correctly interpret	B.U.14, B.U.13, B.U.11, B.W.4, B.W.3	3
Skills – S.10	the findings, diagnose the most common equine diseases that		
	require surgical intervention		
Competences	Student critically analyzes the results of research and is ready	K.S.4, K.S.5, K.S.7	3
-C.1	to use them for diagnostics, treatment and eradication of		
	diseases of horses		-
Competences-	Student presents an attitude consistent with veterinary	KS.2	1
0.2	deontology and the Veterinary Doctor's Code of Ethics		
Competences-	student is ready to take responsibility for his actions and	K2.1	2
C.3	decisions		
Competences-	student is aware of the continuous development of science and	K5.4	1
C.4	Is ready to expand and update knowledge		2
Competences-	student works in field conditions and effectively cooperates	KS.9, KS.10	3
0.5	ן אונו נס-אטו גפו אונע פו אטווופו		1