Module title:	Diagnostics of Pig Diseases in swine farm					ECTS	2		
Polish translation:	Diagnostyka chorób świń w fermie trzody								
Course:	Veterinary Me								
Module language:					IM				
Form of ⊠ intramural studies: □extramural		□ basic ☑ directional	☐ mandatory ☑ elective		Semester: 9			⊠ winter sen □summer sei	
			Academic	year:	2021/2022	Catalogue	e number:	(do uzupe	łnienia)
Module coordinator:	Piotr Matyba [DVM, PhD; Maria	Sady DVM, PhD)					
Teachers responsible for the module:	Academic teachers of Center for Translational Medicine (CMT), PhD students, visiting professors and other specialists in the field of study.								
Unit responsible for the module:	Center for Translational Medicine (CMT)								
Faculty in charge:	Faculty of Veterinary Medicine (FVM)								
Objectives of the module:	Swine Disease Diagnostics focuses on the most important veterinary diagnostic tools used in swine herds, including diagnosis of bacterial, viral and parasitic diseases, reproductive disorders and toxicoses. The class includes a discussion of the most preferred diagnostic kits (e.g. PCR or ELISA tests) for a specific clinical case. The course begins with practical training in blood sampling, swabbing, evaluation of post-mortem lesions in slaughterhouses and on-farm necropsy. Then continues with the preparation of a cover letter and the correct shipment of biological material to diagnostic laboratories, as well as the evaluation of the laboratory and autopsy results obtained in relation to the clinical signs found. Finally, differential diagnosis is carried out on the basis of the results obtained in order to make the most probable diagnosis. Monographic lectures: Diagnostic tools -how to choose the best diagnostic method for particular case, shipping of biological material — most common mistakes reducing the power of diagnostics; principles of infectious diseases monitoring at farm; serological profiles; interpretation of results. Field workshops: Sampling and shipping biological material; autopsies at farm; examination at slaughter house; biosecurity rules.								
Teaching forms, number of hours:	Lectures: 2 hours Clinical exercises: 18 hours								
Teaching methods:	Monographic lecture with multimedia presentation , followed by practical workshops in a pig farm, slaughter house and diagnostic laboratory.								
Formal prerequisites and initial requirements:		cts: Animal ar ogy, Veterinary p						, Pathophy	siology ,
Learning outcomes:	methods 02 - students biological mate to a diagnostic 03 - students	are familiar with know how to ta erial and prepare laboratory; are able to evalu cological profiles	ake a sample of a it for shipping	evalu postr labor perfo diagr	students are ate nortem atory findir orm di losis udents can ses, and	clinical, and ngs and fferential	the ability farmer problems 07- The critical knowledge sources as suppleme	student den	with the health orm health or health
Assessment methods:	Evaluation of t formulation of the classes bas a final project In the case o	evaluation of the project task base reasonable soluted on discussion cannot pass the off a top-down sulteaching, other in.	ased on the comp cions, discussion and the ability to course. Ispension of th	oliance and ar oform	e of the contents of the correct of	nt with the estions. Eve conclusion asses at t	nt activity of assigned to aluation of ass. A studer the University	during classe opic, correct student activ it who does it sity and the	inference, vity during not submit need for

Record into the eHMS system and documentation contained in the 'Course File' (i.e. student assessment cards,

attendance lists, students' essays).

Formal documentation of learning outcomes:

Elements impelling final grade:	The final course grade is influenced by the following elements: - project task, - students activity during classes.
Teaching base:	Classrooms, lecture halls and laboratories of CMT SGGW, FVM outside farms, slaughterhouse.

literature

- 1. "Diseases of Swine", Zimmerman JJ., Karriker AL., Ramirez A, Schwartz KJ, Stevenson GW, Zhang J, Wiley Blackwell USA, 2019.
- 2. "Pig Health" John Carr, Shih-Ping Chen, Joseph F. Connor, Roy Kirkwood, Joaquim Segalés, CRC Press, 2017.
- 3. "The Merc Veterinary Manual" Merck, Michael A. Moses, Melinda D. Merck, Merck & Company, USA,2016.

Annotations:

Protective clothing and individual protective equipment in accordance with accepted bio-assurance principles are mandatory during exercise classes.

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:	
Total ECTS points, accumulated by students during contact learning:	1 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 outcomes
Knowledge	01-Students are familiar with pig diagnostic methods.	A.W10, A.W11, A.W13, A.W15, A.W21, B.W1, B.W2, B.W3, B.W4, B.W5	Each 3
Knowledge	02-Students know how to take a sample of biological material and prepare it for shipping to a diagnostic laboratory.	A.W13, A.W15, B.W5, B.W6	Each 2
Knowledge	03-Students are able to evaluate laboratory results and serological profiles.	A.W10, A.W11, A.W15, B.W6, B.W8	Each 2
Skills	04-Students are able to evaluate clinical, postmortem and laboratory findings and perform differential diagnosis	A.U6,B.U2, B.U3,B.U6, B.U16, B.U20	Each 3
Skills	05-Students can examine carcases, and perform autopsy;	B.U6, B.U17	Each 2
Competences	06-The student demonstrates the ability to interact with the farmer in solving health problems on the pig farm	KS.1, KS.11, KS.2, KS.6, KS.9	Each 3
Competences	07- The student possesses a critical appraisal of one's knowledge and use of scientific sources and a willingness to supplement it and to share knowledge and competences with others.	KS.4, KS.8	Each 2