Code of subject	M_WE_SEM8 PW 1F/2F MYKOL		
Field of study	Veterinary medicine		
Name of the training module including	Veterinary mycology		
the Polish name	Mykologia weterynaryjna		
Language of instruction	English		
Type of the training module	elective		
Level of the training module	Master level		
Form of studies	Stationary		
Location in the programme (year)	IV		
Location in the programme (semester)	VIII		
Number of ECTS credits with a division	1 (0,73/0,27)		
into contact/noncontact			
Name and surname of the person in	Aneta Nowakiewicz dr hab.		
charge			
Unit offering the subject	Sub-Department of Veterinary Microbiology		
Aim of the module	The aim of the module is to familiarize the student with the		
	knowledge and practical aspects of veterinary mycological		
	diagnostics, both clinical and laboratory, as well as the type,		
	course and therapy of diseases in animals caused by		
	dermatophytes, filamentous fungi and yeast-like fungi.		
Learning outcomes	Konowledge:		
	K1. Knows the biology of the main ethological factors causing		
	fungal diseases in animals in terms of their use in laboratory and clinical diagnostics.		
	K2. Knows the principles of conducting a clinical examination, in-		
	depth analysis (assessment) of clinical symptoms, making a		
	diagnosis including differential diagnosis, taking therapeutic and /		
	or prophylactic measures		
	Skills:		
	S1. Student can describe the etiological factors of fungal diseases		
	in animals and use this knowledge in taking appropriate actions		
	S2 Is able to select and apply appropriate laboratory techniques		
	and perform diagnostic procedures, properly and safely handle		
	infectious material as well as analyze and interpret the results of these tests in order to identify the etiological factors of fungal		
	diseases		
	S3. Student can take an interview, conduct a clinical examination		
	for the diagnosis of mycoses		
	S4. is able to take therapeutic and prophylactic measures to		
	combat mycoses in animals		
	Social competences:		
	S1. Can cooperate and work in a group, has a sense of		
	responsibility for other team members		
	S2. Is aware of the importance of social and professional		
	responsibility for the tasks performed in the aspect of animal		
	health and the protection of public health.		

	S3. Is aware of his own limitations, in the era of rapidly emerging		
	new diagnostic techniques and therapeutic methods,		
	understands the need for constant training and deepening		
	knowledge of the module issues		
Preliminary and additional	-		
requirements			
Contents of the training module – a	Content of lab classes:		
compact description of approx. 100	Fungi as pathogens - division, classification, nomenclature of		
words.	mycoses.		
words.	Material for mycological diagnostics - selection, rules of		
	collection and transport, initial preparation		
	Dermatophytosis of companion animals - etiological factors and		
	their classification, laboratory morphological and phenotypic		
	diagnostics, methods of isolation of fungal DNA, selection of		
	genetic markers for identification, epidemiological investigation		
	in molecular terms, interpretation of genomic analysis results.		
	Dermatophytosis of farm animals, horses and birds - etiological		
	factors, macro- and micromorphological description, application		
	of the hair perforation test in diagnosis		
	Companion animal dermatophytosis- clinical symptoms,		
	principles of diagnosis, treatment and prevention		
	Livestock dermatophytosis - clinical symptoms, principles of		
	diagnosis, treatment and prevention - classes in a diagnostic		
	laboratory, work with patients and clinical material		
	Candidiasis and cryptococcosis in animals - etiological factors,		
	laboratory diagnostics (phenotypic and genomic)		
	Malassezia infections in companion animals - pathogenic species,		
	growth requirements, phenotypic diagnostics, molecular markers of identification and their application in diagnostics		
	Malaseziosis- diagnostic and therapeutic approach- laboratory		
	classes, work with clinical material		
	Aspergillosis and other opportunistic mycoses in animals -		
	diagnosis based on the direct preparation, phenotypic testing		
	Opportunistic mycoses - diagnosis, treatment and prevention		
	Mastitis mycotica - ( <i>Candida, Geotrichum</i> ), mammary gland		
	prototecosis: the most common etiological factors		
	Mastitis mycotica - clinical, laboratory and differential diagnosis,		
	treatment - laboratory classes, work with clinical material Mycoses of tropical origin - histoplasmosis, blastomycosis,		
	coccidioidiomycosis, trichosporonosis, (laboratory diagnostics		
	and sources of infection, endemic regions of occurrence)		
	Mycograms - selection of drugs, rules and execution of tests,		
	interpretation of results		
Recommended and obligatory reading	Scott D.W. Farm animal dermatology. Color atlas. Second ed.		
list	Wiley Blackwell. 2018		
	Scott D.W, Miller W.H., Griffin C.E Muller and Kirk's small		
	animal dermatology. 6 <sup>th</sup> ed. WB Saunders Comp. 2011		
The intended forms/activities/ teaching	discussion, independent project of the diagnostic procedure		
methods	and the diagnostic procedure		
methods			

Methods of verification and documentation forms of the achieved learning outcomes	K –pass the module is based on a positive result obtained in the thematic test: answer to 4 open-ended questions at a minimum level of 61%  - oral response during each exercise S - assessment of self-conducted laboratory procedures and experiments by the teacher, S - participation in the discussion, answer to the questions at the beginning of each laboratory class, written tests.  The grading scale is in line with FBQC				
	CONTACT	Codzinu	ECTS		
	Lab classes	Godziny 15	0,6		
	consultations	13	0,03		
Balance of ECTS credits	Grade	3	0,03		
Balance of Let's creaks	Total	18	0,73		
	NON CONTACT				
	Preparation for lab classes	3	0,1		
	Preparation for passing	5	0,17		
	Total	8	0,27		
Number of contact hours	Lab classes	15	0,6		
	consultations	1	0,03		
	Grade	3	0,1		
	Total	18	0,73		
Relationship between subject learning	K1-A.W13+++				
outcomes and veterinary studies	K2-A.W15+++, A.W18++, B.W5++, B.W6++				
learning outcomes	S1-A.U10++, A.U14+, A.U16+				
	S2- A.U23+, B.U6++ S3-B.U2+B.U3+				
	S4-B.U13++, B.U19+				
	C1-WE_K11++				
	C2-K1++				
	C3-K1++, K10				
Impact of selected compounds to final	The number of absences cannot exceed 2 hours. Final grade: 80%				
grade	final pass grade, 20% grade for active participation in classes.				