Module title:	Parasitology and Invasiology 1				ECTS	4	
Polish translation:	Parazytologia i Inwazjologia						
Course:	Veterinary Medicine						
Module language:	- -	_			Stage: J	_	
Form of ■ intramural studies: □ extramural	Type of module:	☐ basic directional	mandatory elective	Semester: 4		winter semester summer semester	
			Academic year:	2022/2023	Catalogue number:	FVM-V-JI D55	
Module coordinator:	Dr Maciej Klockie	wicz (DVM, PhD)					
Teachers responsible for the module: Objectives of the module:	accordance to the Student acquires I parasitic infection relations, sympton measurements of Topics of lectures in animals. Adapt infection in the hollil-IV. Characterist (Giardia spp., Hist V-VIII. Characterist Leishmania sp., Bd IX-X. Biology of the Paramphistomatidae for XIII-XIV. Cetodes intermediate and XV-XVI. Epidemio Diplostomatidae and XV-XVI. Epidemio Davaneidae and IXV-XVIII. Nemativeterinary mediciti XIX-XX. Role of An XXI-XXIII. Trichostrintestinal nemato XXIII-XXIV. Nemativeterinary mediciti XIX-XXV. Infectio Ascaroidoidae and XXVII-XXVIII. Previor Draschia sp., Theleskin and heart dira XXIIX-XX. Prevalen Trichuris sp.) in far Note: Description Topics of classes: Rules and method Infections of Sartanium, and Tox Infections caused (2h] Infections caused (2h) Infections caused (2h) Infections of D. Infections of	e internal legal acknowledge concerd parasitic diseasems of parasitic diseasems. - [2h]: I-II. Definit ations to parasitic st. - [2h]: I-II. Definit st. - [2h]: I-II. Definit st. - [2h]: I-II. Definit st. - [2h	e of Veterinary Medicine; ets; visiting professors; ot rning General Parasitolog ses of veterinary importar fections, clinical and labor s. Zoonotic aspects of parasitisms. Main ways of parasitisms. Main ways of parasitisms. Main ways of parasitisms. Main ways of parasitisms of Sarcomastigophora formonas spp., Entamoeboras of Sarcomastigophora for sp., Plasmodium sp.). of tegument in fluke pogenesis and fluke infectiology and pathology infections in animals and tegument in pathogenicit Zoonoses casued by tapevology and pathology due transitizing in birds and man morphology, occurrence enorhabditis elegans – a round pathology, occurrence enorhabditis elegans – a round pathology of nematode in respiratory tract of point in Poland and Europe. In Poland and Europe. In Poland and Europe. In Poland and Europe. In animals. Epidemiologic de infection – here only destection of parasitic infect sitological diagnostics in farm, companion animals parasitizing in blood (Baberon, rabbits) and foals (Edin animals – laboratory diaffections. [3h] alves, rabbits and foals (Edin animals – laboratory diaffections in large and smalode infections in animals.	ther specialists y and Invasiolo ince. The course ratory diagnost asite infections in. Relations are infections are parasitizing in rasp.). ra & Apicomp athogenicity. (1) ions – consider of Schistos humans. ry. Epidemiolog worms: cystice to tapeworm in mematode used yloidoidea (the ruminants. Ph ultry, ruminant iostrongylus va farm and com infections caused al and clinical of uring lectures ions in farm are als and humans asia spp. in catt rans (Eimeria sp imeria spp., Cry iagnostics – pra ill ruminants: F indexions caused al and clinical of course in farm are als and humans asia spp. in catt rans (Eimeria sp imeria spp., Cry iagnostics – pra ill ruminants: F indexions caused al course ions in farm are als and humans asia spp. in catt rans (Eimeria sp imeria spp., Cry iagnostics – pra ill ruminants: F indexions caused al course ions in farm are als and humans asia spp. in catt rans (Eimeria sp imeria spp., Cry iagnostics – pra ill ruminants: F indexions caused al course ions in farm are als and humans asia spp. in catt rans (Eimeria sp imeria spp., Cry iagnostics – pra ill ruminants: F indexions caused al and clinical of course ions in farm are als and humans asia spp. in catt rans (Eimeria sp imeria spp., Cry iagnostics – pra ill ruminants: F indexions caused al and clinical of	in the field of study pay, e.g.: parasite, parasite covers bases of epidem pays either of infections, control of are presented and discounting hosts and parasites and parasite attitudes that the intestine and represented and represented and represented and parasite attitudes that the intestine and represented and parasite attitudes that the intestine and represented and parasite and parasitizing in the characteristics of Fascion attions in animals and hustomatidae, Opistorchid and proposed portance of parasitic median in experimental parasitic eadworms) in humans a enomena found during the proposed proposed portance of parasitic median enomena found during the proposed portance of parasitic median in experimental parasitic eadworms) in humans a enomena found during the proposed portance of parasitic median para	tism, parasition, parasition, parasition, parasition, preventuring and animals. It development arrivorans: The preventuring animals and the next semitable animals a	e life cycle, parasite tive e of parasite blishment of ct of animals mosoma sp., coelidae and nogonimidae, apeworms in ccosis. enolepididae, human and nt of gastro-Syngamidae, unobiology of bronema sp., erspectives of chinella spp., d humans. hester (5). ical and mania spp., spora). [2h] 2 godz.] tidae, Alaria

Teaching forms, number of	hours:	a) Lectures; hours - 30; b) Laboratory classes; hours - 30; c) Seminars; hours; d) Clinical laboratories; hours; e) Field exercises; hours;					
Teaching methods:	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.						
Formal prerequisites and in requirements:	itial						
Learning effects		Course outcomes:		Impact on the course outcomes*			
	1	Students knows characteristics of parasite species, their life cycles and hosts		3 2 1			
Knowledge:	2		A.W.13, B.W.10 A.W.11,	3			
		Student knows the consequences of the parasite infections (incl. zoonotic potency infections) in animals and humans	A.W.12 A.W.10, B.W.1, B.W.2, B.W.3, B.W.4, B.W.8, B.W.9	1			
	3	Students knows antiparasitic compounds (drugs) and rules concerning their use in the control of parasite infection in animals		3 2			
Skills:	1	Student is able to recognise clinical symptoms of parasitic infections	A.W.21 A.U.4. B.U.2, B.U.3 B.U.3, B.U.5, B.U.16	1 3 2 1			
	2	Student is able to recognise pathological lesions caused by parasite in affected host		3 2 1			
	3	Student is able to choose the adequate diagnostic method(s) to detect parasitic infection		3 2 1			
Commetan	Student is ready to use knowledge to set up the optimal control method of parasitic infections		KS.4 KS.7, KS.8, KS.9 KS.5	3 2 1			
Competences:	2	Student is able to communicate with owner using proper language and terms to discuss the infection's issues	KS.1, KS.9 KS.7, KS.11 KS.2	3 2 1			
Objectives of the module required to obtain learning effects:		Introduction to basic definitions concerning General and Veterinary Parasitology. Meaning of terms: parasite, host and parasitism. Parasite life cycle – importance in Veterinary medicine. Definitions of final, intermediate and paratenic hosts. Epidemiological description of infection: intensity, prevalence, etc. Detection significance of invasive forms, ways of infection of endo- and ectoparasites in farm and companion animals. Impact of parasitic diseases on animal health and productivity. Presentation of parasitic diseases in the context of Veterinary Public Health. Role of veterinarian in the control of zoonotic parasite diseases. Characteristics of the particular infections caused by protozoans, trematodes and cestodes in farm, companion animals and humans.					
Assessment methods:		Two oral examinations: Colloquium 1 & 2. There are 5 questions, incl. 1 considering zoonotic / anthropozoonotic infection. Condition: colloquium is passed when > 51% achieved, but general objection: question concerning zoonotic infection must be assessed positively. In case of unforeseen, unusual circumstances mandatory remote teaching and remote assessment methods might be adopted.					
Detail description of assessment		No extra assessment methods are anticipated.					
Formal documentation of learning outcome:		eHMS entry. Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and written questions, written assessments of the students.					
Elements impelling final gra	ide:	o get the semester credit, student has to pass both colloquiums (C1 /protozoan infections & C2 /trematode and cestode fections). The semester credit is calculated as arithmetic mean of C1 & C2 grades.					
Teaching base:		Lecture hall at the Faculty of Veterinary Medicine, laboratories in the Department of Preclinical	al Sciences				

Mandator	and \prime	supportive	materials	

- 1. Taylor M.A., Coop R.L., Wall R.L. Veterinary Parasitology, Blackwell Publishing, 2007.
- Bowman D.D. Parasitology for Veterinarians. WB Sanders 2000.
 Kassai T. Veterinary Helminthology. Butterworth-Heinemann, 1999

- Urquhart G.M. et al. Veterinary Parasitology, Longman Group UK 1987.
 Georgi J.R., Georgi M.E. Canine clinical parasitology, Lea & Febiger 1992.

Relevant scientific publications including those of the module coordinator.

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:	100. h
Total ECTS points, accumulated by students during contact learning:	4. ECTS

^{* 3 –} complete and detailed, 2 – moderate, 1 – basic.