

Module code	M_WE_SEM7 PARASITE ST
Field of study	Veterinary medicine
Module name	Internship –parasitology Parazytologia - staż
Language of instruction	English
Module type	obligatory
Level of studies	Long-cycle Master's degree programme
Mode of study	full-time
Year of study in the field of study	IV
Semester of study in the field of study	VII
ECTS credits, divided into contact/non-contact hours	1 ( 0.5/0.5)
Academic title/degree, name of the person responsible for the module	Krzysztof Tomczuk prof. dr. hab.
Unit teaching the module	Department of Parasitology and Fish Diseases Subdepartment of Parasitology and Invasive Diseases
Module objective	Acquisition of practical skills concerning parasitological diagnostics of various animal species and the environment. Acquisition of skills in practical parasite differentiation isolated during the performance of parasitological dissection.
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1. Knows the equipment, range of tests performed, and health and safety rules in a parasitology laboratory
	K2. Knows the basic diagnostic methods necessary for parasitological diagnosis.
	Skills:
	S1. Is able to perform basic parasitological examination and interpret the result
	Social competences:
C1. The student is aware of the dangers of parasitic zoonoses.	
Preliminary and additional requirements	Sequentiality
Module programme content	Discussion on health and safety rules in the diagnostic laboratory. Familiarisation with basic parasitology laboratory equipment. Analysis of morphological features of parasites for differentiation. Morphological differentiation of dispersal forms of parasites. Fecal examination - macroscopic, -microscopic (thin layer smear, stained smear, flotation, decantation, decantation-flotation method, quantitative methods using MC Master chambers). Smear taking and analysis as part of parasitological diagnosis. Differentiation of parasite dispersion forms typical of individual animal species and non-parasitic forms. Larvoscopic methods, Culture of nematode larvae. Scraping examination, Mucus and blood tests for parasites, Serological tests, Isolation of genetic material. Parasitological testing of environmental samples . Analysis of pathological changes during parasitological dissection.

List of basic and supplementary literature	<p>1. Principles of Veterinary Parasitology. Dennis Jacobs, Mark Fox, Lynda Gibbons, Carlos Hermosilla. ISBN: 978-0-470-67042-2</p> <p>2. Animal Parasites: Their Biology and Life Cycles. O. Wilford Olsen. Burgess, Minneapolis, Minn.</p> <p>3. Nematode Parasites of Vertebrates. Their Development and Transmission. Anderson, R. C. CABI Publishing, Wallingford UK. 2000. 672. ISBN 0–85199–421–0</p> <p>4. Clinical Parasitology. Zeibig Elizabeth. 9781416060444</p> <p>5. Basic Clinical Parasitology. Harold W. Brown, Franklin A. Neva. ISBN-10: 9780813820538</p> <p>6. Veterinary Clinical Parasitology 8th Edition. Anne M. Zajac (Editor), Gary A. Conboy (Editor). ISBN-13: 978-0813820538.</p> <p>7. Veterinary Parasitology Reference Manual (Paperback); 2001 Edition. William J. Foreyt. ASIN : B01FOD9JM2</p> <p>8. Diagnostic Parasitology for Veterinary Technicians 5th Edition. Charles M. Hendrix DVM PhD (Author), Ed Robinson CVT (Author). ISBN-13: 978-0323389822</p> <p>9. <a href="https://www.esccap.org/">https://www.esccap.org/</a></p>		
Planned forms/activities/teaching methods	Exercises, practical classes in groups of 6 persons / including performing practical tests in the laboratory including sectioning for parasitological diagnosis/		
Verification methods and ways of documenting the achieved learning outcomes.	<p>Direct verification of practical skills and knowledge of differentiating forms of parasites - practical performance of diagnostic tasks -. After the internship, practical test: performance of 5 different methods. Differentiation of 5 different dispersion forms</p> <p>Verification of knowledge - 5 questions posed in direct contact regarding the characteristics of dispersive forms of parasites of various animal species. Scale of grades in accordance with the guidelines contained in the book of quality of education.</p> <p>Documentation of the internship progress and credits in internship log.</p> <p>Verification of social competences - discussion</p>		
ECTS credits	CONTACT		
		Hours	ECTS
	laboratory classes	15	0.4
	credit makeup test	1	0.1
	TOTAL contact	16	0.5
	NON-CONTACT HOURS		
	preparation for laboratory exercises	10	0.3
	exam preparation	5	0.2
	TOTAL non-contact/ ECTS credits	15	0.5
The workload of activities that require direct participation of an academic teacher	attendance at lectures		
	attendance at practical classes	15	0.4
	credit makeup test	1	0.1
	TOTAL with direct involvement of the teacher	16	0.5
Relation of module learning outcomes to major learning outcomes	<p>C.W3+++  A.W13 ++,B.W10.+++  A.U14.+++ ,B.U2.+++ ,B.U7.++  K1)+++ ,K8)++ ,K9)++</p>		

Elements and values affecting final grade	Final grade 50% practical skills 50% knowledge on differentiation of parasitoses
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