

Module of classes:

**Parasites of domestic and wild animals**

ECTS	3
Status	complementary
Form of final credit	project
Prerequisites	Basics of zoology

**Field of study:**

**ANIMAL SCIENCE**

Profile of study	General-academic
The code of the form of study and the level of study	bachelor or master of thesis
Semester of study	winter or summer
Language of study	English

**The leading faculty, department and the lecturer of the module:**

Name of the competent unit for the coordinator	Faculty of Animal Sciences, Department of Zoology and Animal Welfare
Course coordinator	dr Jerzy Kowal, Ph.D.

**Learning outcomes of the module/subject**

The code of the description component (symbol of the effect)	Description	Relation to (code)	
		field effect	discipline#

**KNOWLEDGE – the student knows and/or understands:**

PDA_W1	principals about: definitions used in parasitology, parasitic species occurred in animals and parasite's life cycles, host-parasite interactions with emphasis of adaptations for parasiticism	ZOO1_W01	RZ
PDA_W2	impact of different factors on level of parasitic invasions in animals as well as invasion management and control	ZOO1_W10	RZ

**SKILLS – the student can:**

PDA_U1	recognize species/family of parasitic organisms in the base of morphology of adult parasites, their larvae or propagules	ZOO1_U01	RZ
PDA_U2	choose principle diagnostic method in relation to type of parasitic infection occurred in animals, estimate infection level and compile parasite control patterns	ZOO1_U09	RZ

**SOCIAL COMPETENCE- the student is ready to:**

PDA_K1	carry about parasitological status in different types of environments	ZOO1_K01	RZ
PDA_K2	do work in groups and manage work of small teams compiling prophylactics and prevention of animal parasitic diseases	ZOO1_K07	RZ

**Teaching content:**

<b>Lectures</b>	<b>10 hours</b>
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Subjects of lectures	<ol style="list-style-type: none"> <li>1. Introduction to the course. Key definitions. Parasites as pathogens</li> <li>2. Infection and disease. Factors affecting the epizootiology of parasitic diseases</li> <li>3. The spectrum of parasitism. Institute's collection of parasite specimens</li> <li>4. Characterization of protozoa. Life cycles of coccidia and their importance to epizootiology and control programmes</li> <li>5. Characterization of helminths. Life cycles of flukes, tapeworms and nematodes, and their importance to epizootiology and control programmes</li> <li>6. Characterization of arthropods (mites, ticks, fleas, lice and flies). Myiasis</li> <li>7. Parasitic zoonoses</li> </ol>
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Realized learning outcomes	<i>PDA_W1, PDA_W2</i>
Verification methods and criteria of effects evaluation	<i>Preparation and presentaion of project realized in laboratories</i>
<b>Classes (laboratories, field exercises, auditorium exercises etc. ...)</b>	
<b>20 hours</b>	
Subjects of the classes	Methods, tools and techniques used in diagnostic parasitology (flotation, McMaster technique, autopsy, making permanent dyed microscopic preparations, sporulation). Determination of the species of acquired internal parasites of animals (main diagnostic features)
Realized learning outcomes	<i>PDA_U1, PDA_U2, PDA_K1, PDA_K2</i>
Verification methods and criteria of effects evaluation	<i>Preparation and presentaion of project realized on laboratories</i>
Realized learning outcomes	<i>code of learning outcomesof the seminars</i>
Verification methods and criteria of effects evaluation	<i>together with participation in the final evaluation</i>

#### Literature:

Basic	<i>Anonymous, 1986: Manual of veterinary parasitological laboratory techniques. Ministry of Agriculture, Fisheries and Food, London.</i> <i>Kaufmann J., 1996: Parasitic infections of domestic animals. Birkhäuser Verlag, Basel.</i> <i>Samuel, W.M., Pybus M.J, Kocan A.A. 2001. Parasitic diseases of wild mamals. Iowa State University Press, Ames.</i>
Supplementary	<i>Thienpont D. et al., 1986: Diagnosing helminthiasis by coprological examination. Jannsen Research Foundation, Beerse.</i> <i>Urquhart G. M. et al., 1996: Veterinary parasitology. Blackwell Science, Oxford.</i> <i>Atkinson C.T., Thomas N.J., Hunter D.B. 2008. Parasitic Diseases of Wild Birds. Wiley-Blackwell; Ames.</i>

#### Structure of learning outcomes:

Dyscipline – animal husbandry and fishery (RZ)	3	ECTS*
Dyscipline –...	0	ECTS*

#### Structure of student's activities:

classes carried out with direct participation of the teacher	42	hours	1,7	ECTS*
including:				
lectures	10	hours		
classes and seminars	20	hours		
consultations	9	hours		
participation in research	0	hours		
mandatory practices and internships	0	hours		
participation in the exam and credits	3	hours		
classes carried out with the use of e-learning	0	hours	0	ECTS*
student's own work	33	hours	1,3	ECTS*

) \* - Reported to the nearest to 0,1 ECTS, where 1 ECTS = 25-30 hours of classes

) # discipline code: RZ - zootechnics and fishery, PB - biological sciences