

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE

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Division: Veterinary Public Health and Food Safety

Department / Clinic Department of Parasitology and Parasitic Diseases with Clinics

Email: albert.marinculic@gmail.com

Register no.:

File no.:

Zagreb, September 6th 2024



190812	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	10.09.2024	
Klasifikacijska oznaka	Org. jed.	
602-04/24-22/38	251-61-41;251-61-32;	
Urudžbeni broj	Prilozi	Vrijednost
251-61-06-24-65	0	-

COURSE SYLLABUS

Course name: Parasitology and Parasitic Diseases

Academic year 2024-2025

Course leader: Prof.dr.sc. Franjo Martinković

Teachers: Prof.dr.sc. Albert Marinculić

Associate teachers: Nika Konstantinović, DVM
Lea Grbavac, DVM

First day of classes: October 7th 2024

Last day of classes: December 19th 2024

STUDENT OBLIGATIONS

Lecture attendance	During the course the student must attend 10 lecture hours in order to gain 3 minimal points. Maximally can gain 6 points.
Seminars attendance	
Practicals attendance	During the course the student must attend 8 (out of 12) exercise lessons (8 programmes out of 12 programmes) in order to gain 8 minimal points. Maximal points that student can gain is 12. Non attendance must be justified in order to compensate the points.
Active participation in seminars and practicals	Students must be prepared for every practical. Preparedness will be tested by short oral questions. During the course preparedness will be tested totally four times by students engagement or by teachers choice. At each test, student can gain 1.5 points. After completion of chapters Protozoa, Cestoda, Trematoda, Nematoda, knowledge and skills to perform coprological examination (colloquium " Coprological examination) will be tested. Within this test, student can gain 4 points. Maximal points for the activity at practicals is 10. Minimal points for the activity at practicals is 5. In order to collect minimum number of points, student must pass the colloquium " Coprological examination" and collect 1.5 points among short oral tests. Students will receive materials to prepare the practical on time.
Final exam	At the final exam the student answers the questions orally. Minimal examination points are 24. Maximal examination points are 40.
Examination requirements	Student requirements are defined in the Regulations on the Integrated Undergraduate and Graduate Study of Veterinary Medicine. Given the above, the student must acquire a minimum number of points from all assessment elements in order to take the final exam. Article 45: a student can justifiably be absent from up to 50 % of the lectures and 30 % of the exercises.

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	In the winter semester, the student has to solve 2 colloquia, which will be organized after processing the methodological unit Protozoa and Platyhelminthes. The colloquia will be solved during the exercises, and each one consists of 20 questions with four answers that are offered. With the 100% solved colloquium (20/20) student achieves maximally eight points. A student will achieve minimally 5 points with 11 correct answers among /20 questions.. Each subsequent correct answer above of the prescribed minimum brings 0.3334 points. With 11 correct answers per colloquium in two colloquia, the student achieves a total of 10 points. A student who does not achieve minimally five points per each colloquium has the right to solve a remedial colloquium that will be held after the end of classes. The colloquia will be held: Colloquium I (Protozoa): November 20 th -22 nd November 2024 Colloquium II (Cestoda-Trematoda): 18 th and 19 th December 2024
Final exams (dates)	Regular: 4 th February 2025 and 18 th February 2025 Supplemental: 10 th December 2024
Form of final exam	At the final exam the student answers the questions orally.

LITERATURE

Obligatory literature	Veterinary Clinical Parasitology, A. Zajac, G. Conboy, 2012.	
	Essentials of Veterinary Parasitology, H.M. Eisheikha, N.A. Khan, 2011	
	Focus on Small Animal Parasitology, M. Fisher, J. MacGarry, 2006	
Optional literature	1. Laboratory Procedures, 2002. 4 th edition C. M. Hendrix,	
	2. Small animal clinical diagnosis by laboratory methods, Willard – Tvedten, 2004., 4.th edition	

OBJECTIVES AND LEARNING OUTCOMES

Course objectives	This course aims to provide core training in the theoretical and practical aspects of veterinary parasitology, covering the protozoan and metazoan parasites of animals and the vectors which transmit them, and equip students with specialised skills to enable them to pursue a career as a veterinary professional.
Learning outcomes	Understanding the biology and ecology of parasites and vectors of medical and veterinary importance (DEVELOPMENT CYCLES) Recognition of clinical signs and symptoms of parasitic disease (ANAMNESIS, CLINICAL MANIFESTATION, DIFFERENTIAL DIAGNOSIS) Differentiation and identification of individual groups of parasites as well as individual parasites and their developmental forms within groups (BASIC TAXONOMY AND MORPHOLOGY) Understanding the way of infection and pathogenesis of diseases caused by parasites (PATHOGENESIS) Achieving diagnostic skills and competencies for taking, preparing and processing samples (PARASITOLOGICAL AND SEROLOGICAL DIAGNOSTICS) Establishing a diagnosis by identifying parasites or their developmental stages Knowledge of treatment, prevention and monitoring of parasitic diseases

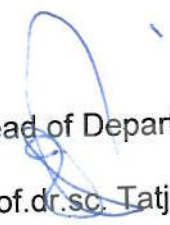
GRADING SCHEME

<i>Points</i>	<i>Grade</i>
Up to 59	1 (F)
60-68	2 (E)
69-76	2 (D)
77-84	3 (C)

85-92	4 (B)
93-100	5 (A)

Course leader:

Prof.dr.sc.  Martinković


Head of Department/Clinic:

Prof.dr.sc. Tatjana Živičnjak

Note: The course leader is required to submit a Course Syllabus to all teachers and associates pertaining to the Course.

GRADING SCHEME CONCERNING ACTIVITY AND RESULTS DURING THE COURSE

Type of activity	Minimal number of points	Maximal number of points
Lecture attendance	3	6
Practical attendance	8	12
Activity during practicals	5	10
Continuing knowledge assessment	20	32
Final exam	24	40
Totally	60	100

Activities - Parasitology and Parasitic Diseases I (1/4)

Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
07/10/2024	10:00	11:30	p01 introduction to parasitology	5E-1, 5E-2, 5E-3		1:30	Marinculić A.	V_parazitologija
08/10/2024	9:15	10:45	v01 Introduction to parasitology	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
08/10/2024	13:00	14:30	v01 Introduction to parasitology	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
09/10/2024	14:00	15:30	v01 Introduction to parasitology	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
14/10/2024	11:45	13:15	p02 Coccidiosis of poultry and carnivores, Tissue coccidia	5E-1, 5E-2, 5E-3		1:30	Marinculić A.	V_parazitologija
14/10/2024	13:30	15:00	v02 Coccidia	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
15/10/2024	13:45	15:15	v02 Coccidia	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
15/10/2024	15:30	17:00	v02 Coccidia	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
22/10/2024	14:00	15:30	v03 Tissue coccidia	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
23/10/2024	12:00	13:30	v03 Tissue coccidia	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
24/10/2024	13:30	15:00	v03 Tissue coccidia	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
25/10/2024	11:30	13:00	p03 Piroplasmosis, giardiasis, cryptosporidiosis, neosporosis	5E-1, 5E-2, 5E-3		1:30	Marinculić A.	V_parazitologija

Activities - Parasitology and Parasitic Diseases I (2/4)

Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
28/10/2024	13:45	15:15	v04 Babesia, Giardia	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
29/10/2024	8:15	9:45	v04 Babesia, Giardia	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
30/10/2024	8:15	9:45	v04 Babesia, Giardia	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
30/10/2024	13:30	15:00	p04 Leishmaniasis	5E-1, 5E-2, 5E-3		1:30	Martinković F.	V_parazitologija
04/11/2024	14:45	16:15	v05 Leishmania	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
05/11/2024	8:15	9:45	v05 Leishmania	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
05/11/2024	16:00	17:30	v05 Leishmania	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
06/11/2024	15:15	16:45	v06 Diagnostics of protozoal infections	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
07/11/2024	10:15	11:45	v06 Diagnostics of protozoal infections	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
08/11/2024	13:45	15:15	v06 Diagnostics of protozoal infections	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
08/11/2024	15:30	17:00	v07 Trematoda	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
11/11/2024	16:00	17:30	v07 Trematoda	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
12/11/2024	8:15	9:45	p05 Diseases caused by trematodes	5E-1, 5E-2, 5E-3		1:30	Marinculić A.	V_parazitologija

Activities - Parasitology and Parasitic Diseases I (3/4)

Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
12/11/2024	15:15	16:45	v07 Trematoda	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
20/11/2024	13:45	15:15	v08 Diagnostics of trematodes	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
21/11/2024	7:30	9:00	v08 Diagnostics of trematodes	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
22/11/2024	16:00	17:30	v08 Diagnostics of trematodes	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
25/11/2024	7:30	9:00	p06 Diseases caused by cestodes	5E-1, 5E-2, 5E-3		1:30	Martinković F.	V_mikrobiologija
26/11/2024	8:15	9:45	v09 Tapeworms of herbivores, canine tapeworms pt. 1.	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
26/11/2024	10:15	11:45	v09 Tapeworms of herbivores, canine tapeworms pt. 1.	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
27/11/2024	8:15	9:45	v09 Tapeworms of herbivores, canine tapeworms pt. 1.	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
28/11/2024	10:15	11:45	p07 Tapeworms of carnivores	5E-1, 5E-2, 5E-3		1:30	Martinković F.	V_parazitologija
03/12/2024	8:15	9:45	v10 Tapeworms of carnivores pt.2, Larval stages	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
04/12/2024	10:00	11:30	v10 Tapeworms of carnivores pt.2, Larval stages	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
04/12/2024	13:00	14:30	v10 Tapeworms of carnivores pt.2, Larval stages	5E-2		1:30	Nastavnici na predmetu	V_parazitologija

Activities - Parasitology and Parasitic Diseases I (4/4)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
05/12/2024	10:00	11:30	p08 Echinococcosis, cysticercosis, introduction to nematodes	5E-1, 5E-2, 5E-3		1:30	Marinculić A.	V_parazitologija
06/12/2024	12:00	13:30	v11 Echinococcosis, cysticercosis	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
09/12/2024	15:15	16:45	v11 Echinococcosis, cysticercosis	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
11/12/2024	10:00	11:30	v11 Echinococcosis, cysticercosis	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
12/12/2024	12:00	13:30	p09 Ascaridae, Ancylostomidae, Oxyuridae,	5E-1, 5E-2, 5E-3		1:30	Marinculić A.	V_parazitologija
18/12/2024	10:15	11:45	v12 Introduction to nematodes, Ascarids and Oxyurida	5E-3		1:30	Nastavnici na predmetu	V_parazitologija
19/12/2024	8:15	9:45	v12 Introduction to nematodes, Ascarids and Oxyurida	5E-2		1:30	Nastavnici na predmetu	V_parazitologija
19/12/2024	10:15	11:45	v12 Introduction to nematodes, Ascarids and Oxyurida	5E-1		1:30	Nastavnici na predmetu	V_parazitologija
Total: 45						67:30		

Total: 45