

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
Tel. 01/2390-350
Division: Clinic Division
Department / Clinic for Internal diseases
Email: martina.crnogaj@vef.hr
Register no.:
File no.:
Zagreb, 31/10/2023



174303	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	21.11.2023	
Klasifikacijske oznaka	Org. jed.	
605-03/23-04/28	251-61-32;	
Uredžbeni broj	Prilozi	Vrijednost
251-61-20/361-23-58	0	-

COURSE SYLLABUS

Course name: **Diseases and treatment of dogs and cats 2**

Academic year 2023-24

Course leader:

Assoc. prof. Martina Crnogaj, PhD

Course leader substitution:

Ass. prof Iva Šmit, PhD

Teachers: Full prof. Juraj Grizelj, PhD, Full prof. Nada Kučer, PhD, Full prof. Nikša Lemo, PhD, Full prof. Martina Lojkić, PhD, Full prof. Albert Marinculić, PhD, Full prof. Vesna Matijatko, PhD, Full prof. Andreja Prevendar Crnić, PhD, Full prof. Nikica Prvanović, PhD, Full prof. Marko Samardžija, PhD, Full prof. Silvijo Vince, PhD, assoc. prof. Mirna Brkljačić, PhD, assoc. prof. Martina

Crnogaj, PhD, assoc. prof. Ivan Folnožić, PhD, assoc. prof. Ivana Kiš, PhD, assoc. prof. Branimira Špoljarić, PhD, assoc. prof. Marin Torti, PhD, ass. prof. Jelena Gotić, PhD, ass. prof. Franjo Martinković, PhD, ass. prof. Iva Šmit, PhD

Associate teachers: Ivan Butković, DVM, PhD, Ines Jović, DVM, PhD, Gabrijela Jurkić Krsteska DVM, PhD, Karol Šimonji, DVM, PhD, Nikola Čudina, DVM, Tea Dodig, DVM, Maša Efendić, DVM, Filip Kajin, DVM, Ena Oster, DVM, Elizabeta Pongrac, DVM, Juraj Šavorić, DVM, Miroslav Vlašić, DVM

First day of classes:
Monday, 27.11.2023.

Last day of classes:
Wednesday, 20.12.2023.

Timetable for SEMINARS academic year 2023-2024

SEMINARS					
Date	Methodological unit	Teacher	Group	Location / time	Literature
Monday 27/11/2023	Parasitology	ass. prof. Franjo Martinković	1 and 2	Parasitology 1:30pm – 4:30pm	(see bibliography)
Tuesday 28/11/2023	Reproduction and Obstetrics	ass. prof. Branimira Špoljarić	1 and 2	Reproduction and Obstetrics 8am – 10am	(see bibliography)

Tuesday 28/11/2023	Parasitology	prof. Albert Marinculić	1 and 2	Parasitology lecture room 1pm – 4pm	(see bibliography)
Wednesday 13/12/2023	Toxicology	prof. Andreja Prevendar Crnić	1 and 2	Pharmacology lecture 3pm – 6 pm	(see bibliography)
Tuesday 19/12/2023	Toxicology	prof. Andreja Prevendar Crnić	1 and 2	Physiology lecture room 11am – 1pm	(see bibliography)

Timetable for PRACTICALS academic year 2023-2024

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical	Group	Location / time	Literature
Wednesday 29/11/2023	Reproduction and Obstetrics	Course teachers	Clinical practice	1	Reproduction and Obstetrics 8am – 12pm	(see bibliography)
Wednesday 29/11/2023	Endocrinology	Course teachers	Clinical practice	2	Clinic for internal diseases	(see bibliography)

					9am – 12pm	
Thursday 30/11/2023	Reproduction and Obstetrics	Course teachers	Clinical practice	2	Reproduction and Obstetrics 8am – 12pm	(see bibliography)
Thursday 30/11/2023	Dermatology	Course teachers	Clinical practice	1	Clinic for internal diseases 9am – 12pm	(see bibliography)
Monday 4/12/2023	Neurology	Course teachers	Clinical practice	2	Clinic for internal diseases 8am – 11am	(see bibliography)
Monday 4/12/2023	Endocrinology	Course teachers	Clinical practice	1	Clinic for internal diseases 8am – 11am	(see bibliography)
Thursday 7/12/2023	Emergency medicine	Course teachers	Clinical practice	1	Clinic for internal diseases 8am – 11am	(see bibliography)
Thursday	Dermatology	Course teachers	Clinical	2	Clinic for internal	(see bibliography)

7/12/2023			practice		diseases 8am – 11am	
Thursday 7/12/2023	Neurology	Course teachers	Clinical practice	1	Clinic for internal diseases 1:30pm – 4pm	(see bibliography)
Thursday 7/12/2023	Respiratory diseases	Course teachers	Clinical practice	2	Clinic for internal diseases 2pm – 4pm	(see bibliography)
Monday 11/12/2023	Respiratory diseases	Course teachers	Clinical practice	1	Clinic for internal diseases 2pm – 4pm	(see bibliography)
Thursday 14/12/2023	Emergency medicine	Course teachers	Clinical practice	2	Clinic for internal diseases 8am – 11am	(see bibliography)
Thursday 14/12/2023	Cardiology	Course teachers	Clinical practice	1	Clinic for internal diseases	(see bibliography)

					8am – 11am	
Thursday 14/12/2023	Nephrology	Course teachers	Clinical practice	2	Clinic for internal diseases 11am – 2pm	(see bibliography)
Monday 18/12/2023	Gastroenterology	Course teachers	Clinical practice	2	Clinic for internal diseases 8am – 11am	(see bibliography)
Monday 18/12/2023	Oncology	Course teachers	Clinical practice	2	Clinic for internal diseases 11am – 2pm	(see bibliography)
Monday 18/12/2023	Nephrology	Course teachers	Clinical practice	1	Clinic for internal diseases 11am – 2pm	(see bibliography)
Tuesday 19/12/2023	Cardiology	Course teachers	Clinical practice	2	Clinic for internal diseases 8am – 11am	(see bibliography)

Tuesday 19/12/2023	Gastroenterology	Course teachers	Clinical practice	1	Clinic for internal diseases 8am – 11am	(see bibliography)
Wednesday 20/12/2023	Oncology	Course teachers	Clinical practice	1	Clinic for internal diseases 11am – 2pm	(see bibliography)

STUDENT OBLIGATIONS

Lecture attendance	-
Seminars attendance	During the semester there are 15 hours of seminars. The maximum of this element is 9 points. During the semester the student must attend 11 hours of seminars in order to achieve a minimum of 5.5 points.
Practicals attendance	During the semester there are 30 hours of practicals. The maximum of this element is 9 points. During the semester the student must attend 21 hours of practicals in order to achieve a minimum of 5.5 points.
Active participation in seminars	Student activity in practicals/ seminars will be continuously monitored during 12 areas from

and practicals	<p>which practicals and seminars are held and will be evaluated with grades from 1 to 5. Areas are toxicology, parasitology, obstetrics and reproduction, pulmonology, dermatology, cardiology, gastroenterology, oncology, nephrology, neurology, endocrinology and emergency medicine. The maximum number of grades that a student can achieve during the semester is 12 areas x 5 = 60. The student must have a minimum score of 30 to achieve a minimum of 5 points. $10/60 = 0.1667$; therefore, one grade yields 0.1667 points, and the sum of the grades is multiplied by a coefficient of 0.1667 to get points. A student who does not collect the minimum number of points will not be entitled to a signature. During the next academic year, the student will re-attend classes and will be re-graded. A student who compensates for classes that he / she justifiably missed by writing a seminar paper cannot receive additional points from the activity.</p>
Final exam	<p>The final exam includes only written exam. It is composed of 30 questions from the courses of pulmonology, dermatology, cardiology, gastroenterology, oncology, nephrology, neurology, endocrinology and emergency medicine. Each correct answer/answers to the question is multiplied by a coefficient of 1.33, thus calculating the total number of points on the final exam. Within this evaluation element, it is possible to achieve a maximum of 40 points. A student who does not answer at least 60% of the questions asked (18 questions) did not pass the final exam.</p>
Examination requirements	<p>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 30% of the seminars and 30 % of the exercises. This means that from the subject Diseases and Treatment of Dogs and Cats II (which has 30 hours of exercises and 15 hours of seminars) a student can justifiably be absent 9 hours of exercises and 4 hours of seminars.</p>

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	After classes and after continuous testing, a mandatory colloquium will be held. The colloquium will cover the teaching units within the teaching units of the subjects Obstetrics and Reproduction, Parasitology and Toxicology, and will consist of a total of 24 questions, meaning 8 questions per area. Each correctly solved task or question is multiplied by a coefficient of 1.33 and thus the total number of points on the colloquium is calculated. From the colloquium, the student must answer a minimum of 15 questions (20 points). It is important, that from each area covered by the colloquium the student answers a minimum of 5 out of total of 8 questions. The maximum number of points that a student can get at the colloquium is 32 points.
Final exams (dates)	20/12/2023, 1/2/2024, 15/2/2024
Form of final exam	Written exam

LITERATURE

Obligatory literature	<p>Lecture handouts via the LMS and/or printed handouts</p> <p>Selected chapters from:</p> <p>INTERNAL MEDICINE:</p> <p>Nelson R. W., Couto C. G. (2020): Small Animal Internal Medicine, 6th Ed., Mosby, St. Louis, United States.</p> <p>Ettinger S. J., E. C. Feldman, E. Cote (2017): Textbook of Veterinary Internal Medicine Expert Consult, 8th Edition, Elsevier, Inc. St. Louis, Missouri, United States.</p> <p>REPRODUCTION AND OBSTETRICS</p> <p>Noakes, D., T. Parkinson, G., England (2018): Veterinary Reproduction and Obstetrics, 10th</p>
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	<p>Edition, Elsevier Health Sciences, W. B. Saunders Co Ltd, London, United Kingdom.</p> <p>England, G. (2011): BSAVA Manual of Canine and Feline Reproduction and Neonatology, British Small Animal Veterinary Association, Quedgeley, Gloucs, United Kingdom.</p> <p>TOXICOLOGY</p> <p>Gupta, R.C. (2018): Veterinary Toxicology: Basic and Clinical Principles. 3rd Edition, Elsevier, Philadelphia, United States.</p> <p>Peterson, M. E., P. A. Talcott (2013): Small animal Toxicology, 3rd Edition, Elsevier Health Sciences, W. B. Saunders Co Ltd, London, United Kingdom.</p> <p>Poppenga, R. H., S.M. Gwaltney-Brant (2011): Small Animal Toxicology Essentials, Iowa State University Press. Arnes, AI, United States.</p> <p>PARASITOLOGY</p> <p>Taylor, M. A., R. L. Coop (2015): Veterinary Parasitology, 4th Edition, Wiley-Blackwell, New York, United States.</p> <p>Bowman, D. (2013): Georgis' Parasitology for Veterinarians 10th Edition, W B Saunders Co Ltd., London, United Kingdom.</p> <p>Zajac, A. M. , G. A. Conboy (2012): Veterinary Clinical Parasitology, 8th Edition, Wiley-Blackwell, Arnes, AI, United States.</p>
Optional literature	INTERNAL MEDICINE:

Nelson R. W., Couto C. G. (2020): Small Animal Internal Medicine, 6th Ed., Mosby, St. Louis, United States.

Ettinger S. J., E. C. Feldman, E. Cote (2017): Textbook of Veterinary Internal Medicine Expert Consult, 8th Edition, Elsevier, Inc. St. Louis, Missouri, United States.

REPRODUCTION AND OBSTETRICS

Noakes, D., T. Parkinson, G., England (2018): Veterinary Reproduction and Obstetrics, 10th Edition, Elsevier Health Sciences, W. B. Saunders Co Ltd, London, United Kingdom.

England, G. (2011): BSAVA Manual of Canine and Feline Reproduction and Neonatology, British Small Animal Veterinary Association, Quedgeley, Gloucs, United Kingdom.

TOXICOLOGY

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Peterson, M. E., P. A. Talcott (2013): Small animal Toxicology, 3rd Edition, Elsevier Health Sciences, W. B. Saunders Co Ltd, London, United Kingdom.

Poppenga, R. H., S.M. Gwaltney-Brant (2011): Small Animal Toxicology Essentials, Iowa State University Press. Ames, AI, United States.

PARASITOLOGY

Taylor, M. A., R. L. Coop (2015): Veterinary Parasitology, 4th Edition, Wiley-Blackwell, New

	<p>York, United States.</p> <p>Bowman, D. (2013): Georgis' Parasitology for Veterinarians 10th Edition, W B Saunders Co Ltd., London, United Kingdom.</p> <p>Zajac, A. M. , G. A. Conboy (2012): Veterinary Clinical Parasitology, 8th Edition, Wiley-Blackwell, Arnes, AI, United States.</p>
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OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The aim of this course is to increase the level of knowledge and skills of students in internal medicine, obstetrics, parasitic diseases and toxicology. Unlike previous subjects, the emphasis is on dogs and cats, which are the most common patients in everyday practice. Within these subjects, the most common diseases encountered in the daily work of veterinarians will be addressed.
Learning outcomes	<p>After successfully mastering the course the student will be able to:</p> <ul style="list-style-type: none"> - choose the method of material sampling - choose which diagnostic procedures to use based on the anamnesis and the findings of the clinical examination - carry out clinical procedures and interpret clinical and laboratory findings and thus diagnose the most common internal diseases of dogs and cats - identify conditions that need to be referred for further specialist treatment - sample materials for histopathological and cytological examinations - recognize dermatological diseases and the most common tumors in dogs and cats - treat dogs and cats with rational use of antimicrobial and antiparasitic drugs, use certain drugs for certain diseases - diagnose and treat gynecological diseases of dogs and cats - prove or exclude, and determine ecto or endoparasites as an etiological factor in the

development of clinical signs in the most common invasive diseases of dogs and cats

- perform a parasitological examination
- determine the most common parasites of dogs and cats in which prevention and treatment is an integral part of care for the health of animals and humans
- after the suspicion of a parasitic disease, take the material correctly and submit it to a specialized laboratory with all the necessary information
- recognize poisoning
- approach the treatment of a poisoned animal
- assess the success of the treatment of the poisoned animal
- sample material for diagnostic tests in an appropriate manner, primarily for toxicological analysis.

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:

M. Long

Head of Department/Clinic:

SMT

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