

UNIVERSITY OF ZAGREB  
FACULTY OF VETERINARY MEDICINE  
Heinzelova 55  
Tel. 01/2390-214  
Division: Veterinary Public Health and Food Safety  
Department / Clinic: Department of Microbiology and Infectious Diseases with Clinic  
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Register no. :  
File no. :  
Zagreb, 11/9/2023



170654	REPUBLIKA HRVATSKA
Veterinarski fakultet u Zagrebu	
Primijeno:	13.09.2023
Klasifikacijska oznaka	Org. jed.
605-03/23-04/28	251-61-32
Urudžbeni broj	Prilozi
251-61-22/343-23-29	Vrijednost
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### COURSE SYLLABUS

Course name: Infectious Diseases of Domestic Animals

Academic year 2023-2024

Course leader: Assoc. Prof. Vladimir Stevanović

Teachers: Full Prof. Nenad Turk, Full Prof. Ljubo Barbić, Full Prof. Zrinka Štritof, Assoc. Prof. Suzana Hađina, Assoc. Prof. Josipa Habuš, Assoc. Prof. Vladimir Stevanović; Assist. Prof. Matko Perharić, Iva Zečević, DVM, Iva Benvin, DVM, Ivona Čorić, DVM

Associate teachers:

First day of classes: 02/10/2023

Last day of classes: 11/01/2024

### Activities - Infectious Diseases of Domestic Animals (1/3)

Start Date ?	Start Ti	End Ti	Subject	Group	Note	Length	Instructor	Room
02/10/2023	10:00	10:45	p1 Introduction to epizootiology	9E-1, 9E-2		0:45	Turk N.	P_mikrobiologija
03/10/2023	12:00	12:45	p2 Infection, defence, immunity	9E-1, 9E-2		0:45	Stevanovic V.	P_mikrobiologija
03/10/2023	12:45	13:30	p3 Source of infection	9E-1, 9E-2		0:45	Barbic Lj.	P_mikrobiologija
04/10/2023	9:30	11:45	v1 Biosafety	9E-1, 9E-2		2:15	Nastavnici na predmetu	P_farmakologija
05/10/2023	8:15	9:45	p4 Routes and Port of entry	9E-1, 9E-2		1:30	Barbic Lj.	P_mikrobiologija
05/10/2023	10:00	12:15	v2 Pathogenesis and clinical manifestation	9E-1, 9E-2		2:15	Nastavnici na predmetu	P_mikrobiologija
06/10/2023	10:00	12:15	v3 Clinical examination	9E-1, 9E-2		2:15	Nastavnici na predmetu	V_zarazne bolesti klinika
09/10/2023	10:00	10:45	p5 Susceptibility	9E-1, 9E-2		0:45	Perharic M.	P_mikrobiologija
09/10/2023	10:45	11:30	p6 Prevention of infectious diseases	9E-1, 9E-2		0:45	Štrtlof Z.	P_mikrobiologija
12/10/2023	8:15	10:30	v4 Diagnostic methods 1	9E-1, 9E-2		2:15	Nastavnici na predmetu	P_mikrobiologija
13/10/2023	10:00	11:30	p7 Immunoprophylaxis	9E-1, 9E-2		1:30	Stevanovic V.	P_mikrobiologija
16/10/2023	9:00	11:15	v5 Diagnostic methods 2	9E-1, 9E-2		2:15	Nastavnici na predmetu	P_mikrobiologija
17/10/2023	13:15	14:00	p8 Classification and stages of an acute infectious diseases	9E-1, 9E-2		0:45	Hadina S.	P_mikrobiologija
18/10/2023	11:15	14:15	v6 Sampling and submission	9E-1, 9E-2		3:00	Nastavnici na predmetu	P_mikrobiologija

### Activities - Infectious Diseases of Domestic Animals (2/3)

Start Date ?	Start Ti	End Ti	Subject	Group	Note	Length	Instructor	Room
19/10/2023	10:00	13:00	v7 Diagnostics 1	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
20/10/2023	11:00	14:00	v8 Diagnostics 2	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
23/10/2023	9:00	12:00	v9 Diagnostics 3	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
23/10/2023	14:00	16:15	p9 Canine gastroenteritidies 1	9E-1, 9E-2		2:15	Turk N.	P_mikrobiologija
25/10/2023	10:00	12:15	p10 Canine gastroenteritidies 2	9E-1, 9E-2		2:15	Turk N.	P_mikrobiologija
25/10/2023	12:30	15:30	v10 Diagnostics 4	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
30/10/2023	10:00	12:15	p11 Feline diseases 1	9E-1, 9E-2		2:15	Habuš J.	P_mikrobiologija
15/11/2023	11:15	13:30	p12 Feline diseases 2	9E-1, 9E-2		2:15	Štrtof Z.	P_mikrobiologija
20/11/2023	13:45	16:00	p 13 Canine diseases	9E-1, 9E-2		2:15	Habuš J.	P_mikrobiologija
30/11/2023	11:00	14:00	v11 Diagnostics 5	9E-1, 9E-2		3:00	Nastavnici na predmetu V_mikrobiologija	
04/12/2023	14:00	17:00	v12 Diagnostics 6	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
05/12/2023	10:30	13:30	v13 Interpretation of serology results	9E-1, 9E-2		3:00	Nastavnici na predmetu P_farmakologija	
11/12/2023	8:00	11:00	v14 Surveillance and reporting	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
12/12/2023	10:30	13:30	v15 Intensive care and treatment	9E-1, 9E-2		3:00	Nastavnici na predmetu P_fiziologija	



### Activities - Infectious Diseases of Domestic Animals (3/3)

Start Date ?	Start Ti	End Ti	Subject	Group	Note	Length	Instructor	Room
13/12/2023	11:00	14:00	v16 Antibiotic therapy	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
15/12/2023	11:00	14:00	v17 Diagnosis of canine and feline gastrointestinal infections	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
18/12/2023	15:15	18:15	v18 Diagnosis of canine and feline respiratory infections	9E-1, 9E-2		3:00	Nastavnici na predmetu P_mikrobiologija	
09/01/2024	8:00	11:00	v19 Dog and cat immunoprophylaxis	9E-1, 9E-2		3:00	Nastavnici na predmetu P_patologija	
11/01/2024	8:00	11:00	v20 Vector-borne diseases	9E-1, 9E-2		3:00	Nastavnici na predmetu P_patologija	
<b>Total: 33</b>						<b>75:00</b>		

### STUDENT OBLIGATIONS

Lecture attendance	<p>During the IX semester, students can justifiably be absent from up to 50 % of the 25 hours of lectures. To obtain a minimum of 1.5 points, students must attend seven lectures or 13 hours. During the X semester, students can justifiably be absent from up to 50 % of the 50 hours of lectures. To obtain 1.5 points, the minimum students must attend 13 lectures or 25 hours. The maximal number of points is 3 per semester or 6 in total. During two semesters, a student must obtain a minimum of 3 points.</p>
Seminars attendance	-
Practicals attendance	<p>During the IX semester, students can justifiably be absent from up to 30 % of the 75 hours of practicals. To obtain 4 points, the minimum, students must attend 14 practicals or 53 hours. During the X semester, students can justifiably be absent from up to 30 % of the 30 hours of lectures. To obtain the minimal number of 4 points, students must attend six practicals or 21 hours. The maximum number of points is 6 per semester or 12 in total. During two semesters, a student must obtain a minimum of 8 points.</p>
Active participation in seminars and practicals	<p>With active participation in practicals, students must obtain at least 5 points. The maximum number of points is 10. Active participation implies understanding the subject of the practicals, which is orally assessed during the IX and X semesters. Students must collect 2.5 points per semester (a complete answer to one oral assessment will give a student 2.5 points). The oral assessment is done without previous notice during practicals. Students can be awarded 2.5 points for additional effort during practicals, a substitute for one oral evaluation.</p>
Final exam	<p>The requirement for the final exam is to achieve the minimum number of points in each of the previous four assessment elements. The added minimal points earned in the previous four assessment elements should be 36 to be able to take the final exam. The maximum number of points students can achieve before the final exam is 60. The final exam begins with a short analysis of the student's results of the other four elements of continuous assessment. The exam is oral and includes all methodical units of the course. The exam consists of 10 questions. Each answer is graded with 0 - 4 points, so the maximum possible number of points is 40. Regardless of the points earned from the previous four assessment elements, the student must demonstrate sufficient knowledge in the final exam to collect a minimum of 24 points. If the student did not pass the final exam, retaking the oral exam at another approved date is possible.</p>
Examination requirements	<p>Student requirements are defined in the Regulations on the Integrated Undergraduate and Graduate Study of Veterinary Medicine (2022). Given the above, the student must acquire minimum points from all assessment elements to take the final exam. <b>Article 41:</b> A student can justifiably be absent from up to</p>



50 % of the lectures, 30% of the seminars, and 30 % of the exercises.

### GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	During two semesters of the Infectious Diseases of Domestic Animals course, one oral colloquium with 8 questions will be held. The colloquium covers the curriculum of the first semester - General Epizootiology (lectures and practicals). Students can take a colloquium after the end of the IX semester. At the colloquium, the student must obtain a minimum of 20. As part of this evaluation element, achieving a maximum of 32 points is possible. A student who does not reach a minimum of 20 points can take a remedial colloquium two times in the academic year. The remedial oral colloquium contains the same number of questions and is graded the same way as the initial colloquium. A student with a minimum of 20 points on the remedial colloquium has the right to take the final exam.
Final exams (dates)	07/11/2023/, 12/12/2023, 14/2/2024, 22/2/2024
Form of final exam	Oral exam

### LITERATURE

Obligatory literature	Sellon, D. C., M. T. Long (2014): Equine infectious diseases. 2 <sup>nd</sup> Ed., Elsevier Saunders, St. Louis, Missouri, SAD. Green, C. (2012): Infectious diseases of dog and cat. 4th edition. Saunders Elsevier Constable P., K. W. Hinchcliff, S. Done, W. Gruenberg (2016): Veterinary Medicine, A Textbook of the Diseases of Cattle, Horses, Sheep, Pigs and Goats, 11th Ed., 2 Volume set, W. B. Saunders Ltd. Aiello S. E., M. A. Moses (2016). The Merck Veterinary Manual. 11th Ed. Wiley, Hoboken, New Jersey, SAD.
Optional literature	Hagan, W. A. and Bruner, D. W. (1998): Microbiology and Infectious Diseases of Domestic Animals. 8th ed., Comstock, Ithaca. Rolle, M. (2001): Mikrobiologie, Infektions- und Seuchenlehre. 7 <sup>th</sup> Ed., Ferdinand Enke Verlag, Stuttgart. Nagić, T., D. Hajsig, J. Madić, L. Pinter (2005): Specijalna veterinarska bakteriologija i mikologija.

	<p>Veterinarski fakultet Sveučilišta u Zagrebu i Hrvatsko mikrobiološko društvo, Zagreb.  Hajsig, D., Lj. Pinter, T. Naglič, R. Antolović (2012): Veterinarska klinička imunologija. Sveučilišni udžbenik, Veterinarski fakultet Sveučilišta u Zagrebu i Hrvatsko mikrobiološko društvo, Zagreb.  Pugh, D. G., N. Baird (2012): Sheep and Goat Medicine, 2<sup>nd</sup> Ed., Elsevier Saunders, St. Louis, Missouri, SAD.  Sykes, J. E. (2013): Canine and feline infectious diseases, 1<sup>st</sup> Ed., Elsevier Saunders, St. Louis, Missouri, SAD.  Cvetnić, Ž. (2013): Bakterijske i gljivične zoonoze. Medicinska naklada, Zagreb.  Šeol Martinec, B., V. Herak Perković, urednice hrvatskog izdanja (2013): Veterinarska imunologija, Načela i primjena, prijevod: M. J. Day, R. D. Schultz: Veterinary Immunology: Principles and Practice, 1st. Ed. CRC Press, Taylor &amp; Francis Group, 2010. Medicinska naklada, Zagreb.  Cvetnić, S. (1993): Opća epizootiologija; Školska knjiga, Zagreb.  Zaharija, I. (1980): Opća epizootiologija; Školska knjiga, Zagreb.  Cvetnić, S. (1997): Virusne bolesti životinja; Školska knjiga, Zagreb.  Cvetnić, S. (2002): Bakterijske i gljivične bolesti životinja, Medicinska naklada, Zagreb  Zaharija, I. (1978): Zarazne bolesti domaćih životinja; Školska knjiga, Zagreb.  Jukić, B. (2003): Tropske zarazne bolesti životinja; Veterinarski fakultet Sveučilišta u Zagrebu</p>
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**OBJECTIVES AND LEARNING OUTCOMES**

<p>Course objectives</p>	<p>The course on Infectious diseases of domestic animals will give an understanding of mechanisms of the occurrence, spreading and eradication of infectious diseases; students will gain comprehension of infectious disease diagnostics and available prophylactic measures and procedures for eradicating infectious diseases. Understanding the natural foci of infectious diseases, reservoirs, and zoonotic pathogens is particularly important for the protection of animal health as well as the health of animal breeders and veterinarians working with animals. Students are to gain practical knowledge of infectious disease diagnostics through epizootiological, clinical, microbiological, serological, pathological and therapeutic methods and biological experiments. In that way, attendants can be autonomous in practice and comprehend all the procedures taken elsewhere as support in objective diagnostics. In case of infection. It is essential for a veterinarian to be competent in using the right approach while taking the samples for diagnostics and to introduce adequate prophylactic measures.</p>
<p>Learning outcomes</p>	<p>After successfully finishing the course, students will be able to:</p>



- Identify the suspicion of an infectious disease
- Identify the factors that determine the occurrence, spread and end of infectious disease
- Introduce measures to prevent the spread of infectious diseases temporarily
- Carry out adequate diagnostic procedures to confirm an infectious disease
- Choose the proper method of sampling and the necessary laboratory tests for objective diagnosis of infectious diseases
- Analyse results of diagnostic tests
- Decide on the proper management of animals suffering from an infectious disease
- Carry out specific treatment of infectious diseases
- Implement prescribed measures for the control and/or eradication of infectious diseases
- Recommend additional preventive and control measures that are not legally regulated

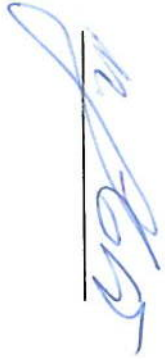
**GRADING SCHEME**

<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:

Head of Department/Clinic:





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

