UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
Tel. 01/2390-214
Division: Veterinary Public Health and Food Safety
Organizational unit: Microbiology and Infectious Diseases
E-mail of the course leader: vladimir.stevanovic@vef.unizg.hr
Register No of the organisational unit:
Zagreb, 10/2/2025

COURSE SYLLABUS

Course name: Infectious Diseases of Domestic Animals

Academic year 2025/2026

Course leader: Assoc. Prof. Vladimir Stevanović

Deputy course leader: (title, name and surname): Assist. Prof. Matko Perharić

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

First day of classes: 30/9/2025
Last day of classes: 23/1/2026

Course: Infectious Diseases of Domestic Animals

Timetable for LECTURES and PRACTICALS academic year 2025/2026

Activities - Infectious Diseases of Domestic Animals (1/3)								
Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
30/09/2025	12:00	12:45	p1 Introduction to epizootiology	9E-1, 9E-2, 9E-3		0:45	Turk N.	P_mikrobiologija
30/09/2025	12:45	13:30	p2 Infection, defence, immunity	9E-1, 9E-2, 9E-3		0:45	Stevanović V.	P_mikrobiologija
01/10/2025	12:00	12:45	p3 Source of infection	9E-1, 9E-2, 9E-3		0:45	Barbić Lj.	P_mikrobiologija
03/10/2025	8:15	10:30	v1 Biosafety	9E-1, 9E-2a, 9E-2b, 9E-3		2:15	Nastavnici na predmetu	P_mikrobiologija
06/10/2025	10:00	11:30	p4 Routes and Port of entry	9E-1, 9E-2, 9E-3		1:30	Barbić Lj.	P_mikrobiologija
06/10/2025	13:30	15:45	v2 Pathogenesis and clinical manifestation	9E-1, 9E-2a, 9E-2b, 9E-3		2:15	Nastavnici na predmetu	P_mikrobiologija
07/10/2025	9:00	11:15	v3 Clinical examination	9E-1, 9E-2a, 9E-2b, 9E-3		2:15	Nastavnici na predmetu	V_zarazne bolesti klinika
07/10/2025	13:15	14:00	p5 Susceptibility	9E-1, 9E-2, 9E-3		0:45	Perharić M.	P_mikrobiologija
07/10/2025	14:00	14:45	p6 Prevention of infectious diseases	9E-1, 9E-2, 9E-3		0:45	Štritof Z.	P_mikrobiologija
08/10/2025	11:15	12:45	p7 Immunoprofilaxis	9E-1, 9E-2, 9E-3		1:30	Stevanović V.	P_mikrobiologija
08/10/2025	13:00	15:15	v4 Diagnostic methods 1	9E-1, 9E-2a, 9E-2b, 9E-3		2:15	Nastavnici na predmetu	P_mikrobiologija
09/10/2025	8:00	10:15	v5 Diagnostic methods 2	9E-1, 9E-2a, 9E-2b, 9E-3		2:15	Nastavnici na predmetu	P_mikrobiologija
13/10/2025	8:00	11:00	v6 Sampling and sumission	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
21/10/2025	11:00	11:45	p8 Classification and stages of an acute infectious diseases	9E-1, 9E-2, 9E-3		0:45	Hađina S.	P_mikrobiologija

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

Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
24/10/2025	8:15	11:15	v7 Diagnostics 1	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
27/10/2025	10:15	13:15	v8 Diagnostics 2	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
29/10/2025	13:00	16:00	v9 Diagnostics 3	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_fizika
30/10/2025	9:30	12:30	v10 Diagnostics 4	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
31/10/2025	13:00	16:00	v11 Diagnostics 5	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
05/11/2025	11:00	14:00	v12 Diagnostics 6	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
06/11/2025	8:00	11:00	v13 Interpretation of serology results	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
06/11/2025	13:00	15:15	p9 Canine gastroenteritidies 1	9E-1, 9E-2, 9E-3		2:15	Turk N.	P_mikrobiologija
12/11/2025	12:30	15:30	v14 Surveillance and reporting	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
13/11/2025	13:30	16:30	v15 Intensive care and treatment	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_fiziologija
14/11/2025	8:30	11:30	v16 Antibiotic therapy	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_fiziologija
27/11/2025	11:00	13:15	p10 Canine gastroenteritidies 2	9E-1, 9E-2, 9E-3		2:15	Turk N.	P_mikrobiologija
28/11/2025	10:00	12:15	p11 Feline diseases 1	9E-1, 9E-2, 9E-3		2:15	Habuš J.	P_mikrobiologija
04/12/2025	8:15	10:30	p12 Feline diseases 2	9E-1, 9E-2, 9E-3		2:15	Štritof Z.	P_mikrobiologija

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

Start Date	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
11/12/2025	13:45	16:00	p 13 Canine diseases	9E-1, 9E-2, 9E-3		2:15	Habuš J.	P_kemija
12/01/2026	10:00	13:00	v17 Diagnosis of canine and feline gastrointestinal infections	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
20/01/2026	8:15	11:15	v18 Diagnosis of canine and feline respiratory infections	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
21/01/2026	8:15	11:15	v19 Dog and cat immunoprophilaxis	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
23/01/2026	11:15	14:15	v20 Vector-borne diseases	9E-1, 9E-2a, 9E-2b, 9E-3		3:00	Nastavnici na predmetu	P_mikrobiologija
Total: 33						75:00		

STUDENT OBLIGATIONS

Lecture attendance	During the ninth semester of the Infectious Diseases of Domestic Animals course, students must attend at least 50% of the lectures, amounting to 25 hours (a minimum of 13 hours, or 7 lecture sessions), to obtain a minimum of 1.5 credits. In the tenth semester, students must be present for at least 50% of the lectures, totalling 50 hours (a minimum of 25 hours, or 13 lecture sessions), to achieve a minimum of 1.5 credits. In each semester, the maximum number of credits obtainable from this assessment component is 3. Over the two semesters, students must earn at least 3 credits, while the maximum number of credits from this assessment component is 6.
Seminars attendance	
Practicals attendance	During the ninth semester of the Infectious Diseases of Domestic Animals course, students must attend at least 70% of the practicals, amounting to 75 hours (a minimum of 53 hours, or 14 practicals), to obtain a minimum of 4 credits. In the tenth semester, students are required to be present for at least 70% of the practicals, which totals 30 hours (a minimum of 21 hours, or 6 practicals), to achieve a minimum of 4 credits. In each semester, the maximum number of credits obtainable from this assessment component is 6. Over the two semesters, students must earn a minimum of 8 credits, while the maximum number of credits from this assessment component is 12.
Active participation in seminars and practicals	Through participation in practical sessions, students can accumulate a minimum of 5 credits and a maximum of 10 credits. The activity assessment during practicals is conducted through oral continuous monitoring of preparedness for the practical topics throughout the ninth and tenth semesters. To achieve this, a student must collect a minimum of 2.5 credits in each semester (one question carries 2.5 credits). Oral examinations are conducted without prior notice during the practical sessions. Notable activity during clinical and professional work allows students to earn 2.5 credits, which can replace one oral examination during the practical sessions.
Final exam	The minimum requirement for access to the final examination is the achievement of the minimum number of credits in each of the previous four assessment components. The minimum number of credits required by adding the credits obtained in these four assessment components as a prerequisite for taking the oral examination is 36. The maximum number of credits that students can attain by the time of the final examination is 60. The final examination begins with a brief analysis of the student's results from the previous four components of continuous assessment. The examination is oral, covers specific methodological units from the curriculum, and consists of 10 questions. Each response to the posed question is scored from 0 to 4 points, resulting in a maximum possible score of 40. Regardless of the credits obtained from the previous four assessment components, a student must demonstrate sufficient knowledge during the final examination to accumulate a minimum of 24 points in this assessment component. If a student does not pass the final examination, the right to retake the oral examination is granted by the approved examination schedules.
Examination requirements	Student requirements are defined in the Regulations on the Integrated Undergraduate and Graduate Study of Veterinary Medicine (2022). The student must acquire minimum points from all assessment elements to take the final exam. **Regulations On Undergraduate And Graduate Studies, Article 41: a student can justifiably be absent from up to 50% of the lectures,** 30% of the seminars and 30% of the exercises.

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GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	During the two semesters of the Infectious Diseases of Domestic Animals course, one oral colloquium of 8 questions will be organised. The colloquium will cover the curriculum of the first semester – General Epizootiology (lectures and practicals) and will take place after the completion of the ninth semester. In the colloquium, a student must achieve a minimum of 20 points out of a maximum of 32 to obtain a minimum score of 20 points in this assessment component. The maximum possible score for this component is 32 points. A student who does not achieve at least 20 points in the oral colloquium is entitled to a retake, which may be conducted a maximum of two times in the academic year during which they are enrolled in the Infectious Diseases of Domestic Animals course. The retake oral colloquium will consist of the same number of questions and will be assessed in the same manner as the initial oral colloquium following the ninth semester. A student who scores at least 20 points on the retake colloquium will be eligible to sit for the final examination.
Final exams (dates)	03/11/2025, 15/12/2025, 03/02/2026, 17/02/2025
Form of final exam	oral

LITERATURE

Obligatory literature	Sellon, D. C., M. T. Long (2014): Equine infectious diseases. 2nd 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. 7th Ed., Ferdinand Enke Verlag., Stuttgart. Naglić, T., D. Hajsig, J. Madić, L. Pinter (2005): Specijalna veterinarska bakteriologija i mikologija. Veterinarski fakultet Sveučilišta u Zagrebu i Hrvatsko mikrobiološko društvo, Zagreb. Hajsig, D., Lj. Pinter, T. Naglić, 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, 2nd Ed., Elsevier Saunders, St. Louis, Missouri, SAD. Sykes, J. E. (2013): Canine and feline infectious diseases, 1st 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 & 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

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OBJECTIVES AND LEARNING OUTCOMES

Course objectives	In the Infectious Diseases of Domestic Animals course, students will acquire knowledge about the conditions that lead to the emergence, spread, and cessation of infectious diseases, as well as the diagnosis and implementation of measures and procedures for the prophylaxis of these diseases, with the ultimate goal of eradicating them. Particular emphasis is placed on understanding the natural foci of infectious diseases, reservoirs of infection, and zoonotic pathogens to ensure the well-being of healthy animals and to safeguard the lives of farmers and veterinarians when working with animals. Students are expected to gain practical knowledge in diagnosing infectious diseases that affect multiple animal species or are specific to individual species using epizootiological, clinical, microbiological, serological, pathological-anatomical, and therapeutic methods and biological assays. This approach equips students with the independence to carry out their work and understand all procedures conducted elsewhere to support objective diagnosis. Developing the veterinarians' ability to respond appropriately to outbreaks is paramount by correctly collecting diagnostic samples and implementing prescribed prophylactic measures.
Learning outcomes	Upon successful completion of the course, the student will be able to: • Recognise the suspicion of an infectious disease. • Identify the factors contributing to the emergence, spread, and cessation of infectious diseases. • Apply measures for the temporary prevention of the spread of infectious diseases. • Carry out a diagnostic procedure to establish suspicion of an infectious disease. • Select appropriate methods for sampling diagnostic material and the necessary laboratory tests for objectively diagnosing an infectious disease. • Interpret the findings of laboratory tests on the diagnostic material. • Determine the subsequent actions for the animal(s) affected by the infectious disease. • Implement targeted treatment. • Execute legally mandated measures to control and/or eradicate infectious diseases. • Recommend measures to control and prevent infectious diseases that are not legally regulated.

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GRADING SCHEME

Points	*Grade*
Up to 59	1 (F)
60-76	2 (D, E)
77-84	3 (C)
85-92	4 (B)
93-100	5 (A)

Course leader

Head of organizational unit:

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