UNIVERSITY OF ZAGREB FACULTY OF VETERINARY MEDICINE

Heinzelova 55 Tel. 01/2390-214

Division: Veterinary Public Health and Food safety

Department / Clinic: Microbiology and Infectious Diseases

Email: vladimir.stevanovic@vef.hr

Register no.:

File no .:

Zagreb, 9/2/2023



251-61-08/422-23-66

COURSE SYLLABUS

Course name: Infectious Diseases of Domestic Animals

Academic year 2022/2023

Course leader: Assoc. Prof. Vladimir Stevanović

<u>Teachers</u>: Full Prof. Nenad Turk; Assoc. Prof. Vilim Starešina; Full Prof. Ljubo Barbić; Assoc. 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 Ćorić, DVM

Associate teachers:

First day of classes: 1/3/2023

Last day of classes: 17/5/2023

Timetable for <u>LECTURES</u> academic year 2022/2023

CTURES		Taachan	Location/time	Literature
Date	Methodological unit	Teacher	Locationnine	Written material
1/3/2023	Equine Infectious Anaemia. African Horse Sickness.	Assoc. Prof. Vladimir Stevanović	12-14 h LECTURE, Lecture Room Microbiology	Sellon, D. C., M. T. Long (2014): Equine infectious diseases. 2 nd 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 se W. B. Saunders Ltd. Aiello S. E., M. A. Moses (2016): The Merck Veterinary Manual. 11th Ed. Wiley, Hoboken, New Jersey, SAD.
2/3/2023	Equine Influenza. Equine Viral Arteritis. Equine Rhinopneumonitis.	Full Prof. Ljubo Barbić	12-14 h LECTURE, Lecture Room Microbiology	ии
3/3/2023	Contagious Equine Metritis, Equine Coital Exanthema, Equine Salmonellosis.	Assoc. Prof. Zrinka Štritof	9-11 h LECTURE, Lecture Room Microbiology	u u
7/3/2023	West Nile Fever. Bovine Viral Diarrhoea.	Full Prof. Ljubo Barbić	12-14 h LECTURE, Lecture Room Microbiology	a a
9/3/2023	Strangles. Rhodococcus equi infection.	Assoc. Prof. Zrinka Štritof	12-14 h LECTURE, Lecture Room Microbiology	st st
14/3/2023	Shipping Fever Pneumonia. Infectious Bovine Rhinotracheitis. Malignant Catarrhal Fever. Infectious Bovine Keratoconjunctivitis.	Assoc. Prof. Suzana Hađina	14-16 h LECTURE, Lecture Room Microbiology	ar a
21/3/2023	Enzootic Bovine Leukosis. Bovine spongiform encephalopathy.	Assoc. Prof. Josipa Habuš	13-15 h LECTURE, Lecture Room Microbiology	u u

27/3/2023	Viral Enteritis in Calves. Winter Dysentery. Lumpy Skin Disease.	Assoc. Prof. Vladimir Stevanović	13-15 h LECTURE, Lecture Room Microbiology	иц
28/3/2023	Classical Swine Fever. African Swine Fever.	Full Prof. Nenad Turk	14-16 h LECTURE, Lecture Room Microbiology	ии
30/3/2023	Erysipelas. Exudative Epidermitis. Streptococcus sp. and Staphylococcus sp. infections in pigs	Assoc. Prof. Suzana Hađina	13-15 h LECTURE, Lecture Room Microbiology	αн
3/4/2023	Swine Dysentery. Transmissible gastroenteritis. Colibacillosis. Oedema Disease.	Assoc. Prof. Zrinka Štritof	12-14 h LECTURE, Lecture Room Microbiology	ич
11/4/2023	Porcine Enzootic Pneumonia. Glässer's Disease. Swine Pleuropneumonia.	Full Prof. Ljubo Barbić	13-15 h LECTURE, Lecture Room Microbiology	u «
13/4/2023	Blue Tongue Disease. Foot Rot. Caseous Lymphadenitis of Sheep and Goat.	Assoc. Prof. Josipa Habuš	13-15 h LECTURE, Lecture Room Microbiology	
17/4/2023	Caprine Arthritis and Encephalitis. Contagious Ecthyma. Sheep Pox. Goat Pox.	Assoc. Prof. Vladimir Stevanović	12-14 h LECTURE, Lecture Room Microbiology	es is
20/4/2023	Porcine Circovirus Infection. Porcine Reproductive and Respiratory Syndrome. Inclusion Body Rhinitis. Atrophic Rhinitis.	Assoc. Prof. Zrinka Štritof	12-14 h LECTURE, Lecture Room Microbiology	ии
25/4/2023	Anthrax. Tetanus. Botulism.	Full Prof. Ljubo Barbić	12-14 h LECTURE, Lecture Room Microbiology	
26/4/2023	Rabies. Aujeszky's Disease.	Assoc. Prof. Vladimir Stevanović	8-10 h LECTURE, Lecture Room Microbiology	ци
2/5/2023	Enterotoxemia. Blackleg. Malignant Oedema.	Assoc. Prof. Suzana Hađina	12-14 h LECTURE, Lecture Room Microbiology	ац
4/5/2023	Tularemia. Listeriosis.	Assoc. Prof. Josipa Habuš	12-14 h LECTURE, Lecture Room Microbiology	шш

8/5/2023	Leptospirosis. Q-fever	Full Prof. Nenad Turk	12-14 h LECTURE, Lecture Room Microbiology	α μ
9/5/2023	Brucelosis, Melitococosis.	Assist. Prof. Matko Perharić	10-12 h LECTURE , Lecture Room Microbiology	a a
10/5/2023	Tuberculosis. Paratuberculosis. Actinomycosis. Botryomycosis.	Full Prof. Nenad Turk	12-14 h LECTURE, Practical Hall Microbiology	ип
11/5/2023	Foot and Mouth Disease. Vesicular Stomatitis.	Full Prof. Nenad Turk	12-14 h LECTURE, Lecture Room Microbiology	ии
15/5/2023	Dermatophytosis. Papillomatosis. Eperythrozoonosis.	Assoc. Prof. Suzana Hađina	12-14 h LECTURE, Lecture Room Microbiology	a a
17/5/2023	Myxomatosis. Rabbit Haemorrhagic Disease. Pasteurellosis in Rabbits.	Assoc. Prof. Josipa Habuš	12-14 h LECTURE, Lecture Room Microbiology	пи

The state of the s

Timetable for PRACTICALS academic year 2022/2023

Date	Methodological unit	Teacher	Type of practical	Group	Location/time	Literature
8/3/2023	1. Differential diagnosis of respiratory and gastrointestina I infections in horses	Assoc. Prof. Zrinka Štritof Ivona Ćorić, DVM	Special clinical practical	1,2	8-10 h practicals, groups 1,2 Lecture Room Microbiology	Written material 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.
23/3/2023	Differential diagnosis of infectious abortions and immunoprophylaxis in horses	Iva Benvin, DVM Iva Zečević, DVM	Special clinical practical	1,2	11-13 h Lecture Room Microbiology 13-15 h Clinic of Infectious	
4/4/2023	3. Differential diagnosis of respiratory infections and immunoprophylaxis in cattle	Iva Benvin, DVM Assist. Prof. Matko Perharić	Special clinical practical	1,2	12-14 h Lecture Room Microbiology 14-16 h Clinic of Infectious Diseases	u a

21/4/2023	4. Differential diagnosis of infectious abortions and gastrointestinal	Assist. Prof. Matko Perharić Ivona Ćorić, DVM	Special clinical practical	1,2	12-14 h Lecture Room Microbiology 14-16 h Clinic of Infectious Diseases	u u
27/4/2023	infections in cattle 5. Differential diagnosis of infectious abortions and gastrointestinal infections in pigs	Iva Zečević, DVM Assist. Prof. Matko Perharić	Special clinical practical	1,2	12-14 h Lecture Room Microbiology 14-16 h Clinic of Infectious Diseases	
3/5/2023	6. Differential diagnosis of infectious abortions and gastrointestinal	Iva Zečević, DVM Ivona Ćorić, DVM	Special clinical practical	1,2	8-10 h Lecture Room Microbiology 10-12 h Clinic of Infectious Diseases	u u
10/5/2023	7. Differential diagnosis of infectious diseases of sheep and goats	Iva Zečević, DVM Ivona Ćorić, DVM	Special clinical practical	1,2	8-10 h Lecture Room Microbiology 10-12 h Clinic of Infectious Diseases	33186
17/5/2023	8. Differential diagnosis of central nervous system	Iva Benvin, DVM Iva Zečević, DVM	Special clinical practical	1,2	8-10 h Lecture Room Microbiology 10-12 h Clinic of Infectious Diseases 8	u u

STUDENT OBLIGATIONS

_ecture attendance	During the 9th semester, students must attend at least 50% of the lectures (13 hours or 7 methodologica units). Minimal number of points: is 1,5 (13) hours; the maximal number of points is 3 (25 hours) During the 10th semester, students must be present at a minimum of 50 % of the lectures (25 hours or 13 methodological units). Minimal number of points: is 1,5 (26) hours; the maximal number of points is 3 (50 hours).
Seminars attendance	- the state of the practicals (60 hours or 16
Practicals attendance	During the 9th semester, students must attend at least 80 % of the practicals (60 hours or 16 methodological units). Minimal number of points: is 4 (60 hours); the maximal number of points is 6 (75
	hours) During the 10th semester, students must attend at least 80 % of the practicals (24 hours or 7 methodological units). Minimal number of points: is 4 (24 hours); the maximal number of points is 6 (30 hours)
Active participation in seminars and practicals	During practicals, students can be examined orally without prior notice. The complete answer to display the question at practicals is 2.5 points. Students must earn at least 2.5 points per semester (5 in two semesters). The maximum number of points students can earn during the semester is 5 (10 in two
Final exam	The final exam is in oral form and consists of 10 questions. The maximum number of points a state in can earn on the final exam is 40 (4 points per question). The minimum number of points earned on the
Examination requirements	final exam must be 24. Student requirements are defined in the Regulations on the Integrated Undergraduate and Graduate Study of Veterinary Medicine. To take the final exam, the student must acquire minimum points from all assessment elements.

GRADING AND EVALUATING STUDENT WORK

(mid-terms)	of points gained at colloquium must be 20.
Final exams (dates)	26/6/2023; 6/7/2023; 14/7/2023; 6/9/2023; 20/9/2023
Form of final exam	Oral exam

LITERATURE

Obligatory literature	Sellon, D. C., M. T. Long (2014): Equine infectious diseases. 2 nd 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. Cvetnić, Ž. (2013): Bakterijske i gljivične zoonoze. Medicinska naklada, Zagreb. Seol 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. 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

OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The study of Infectious diseases of domestic animals includes understanding underlying mechanisms of occurrence, spreading and eradicating of infectious diseases diagnostics and application of measures and procedures in the prophylaxis of infectious diseases to eradicate them. Awareness of natural foci and infection reservoirs for zoonotic causative agents is particularly important in preserving animal health as well as the health of stock breeders and veterinarians. Students are to gain practical knowledge on diagnostics of infectious diseases occurring in one or more animal species by epizootiological, clinical, microbiological, serological, pathalogicoanatomical and therapeutic methods, and biological experiments. In that way, attendants are enabled to be independent in practice and to comprehend all the procedures taken elsewhere as support in objective diagnostics. In case of infection, it is important for a veterinarian to be competent in using the right procedure while taking the samples for diagnostics and to use the statutory prophylactic measures.
Learning outcomes	After successfully mastering the course the student will be able to: - recognize the suspicion of an infectious disease - identify the factors that determine the occurrence, spread and termination of infectious disease - apply measures to temporarily prevent the spread of infectious diseases - carry out a diagnostic procedure with the aim of raising the suspicion of an infectious disease - choose the sampling method of diagnostic material and the necessary laboratory tests for objective diagnosis of infectious diseases - evaluate the laboratory test results - choose a further procedure with the animals suffering from an infectious disease - carry out targeted treatment - implement legally prescribed measures for the control and/or eradication of infectious diseases - recommend measures for the suppression and prevention of infectious diseases that are not legally regulated

GRADING SCHEME

Points	Grade
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)

GRADING AND EVALUATION OF STUDENT WORK ON COURSES WITH LECTURES, SEMINARS and PRACTICALS

	and the second second	Maximum number of points
Type of Activity	Minimum number of points	6
Lectures attendance	3	<u> </u>
	4	0
Seminar attendance	4	6
Practicals attendance	5	10
Active participation in seminars and		
practicals	20	32
Continuous knowledge checking (mid-	20	
terms)	24	40
Final exam	of the control of the	100
TOTAL	60	

GRADING AND EVALUATION OF STUDENT WORK ON COURSES WITH LECTURES and PRACTICALS

at the	Minimum number of points	Maximum number of points	
Type of activity	2	6	
_ecture attendance	3	12	
Practicals attendance	8	10	
Active participation in practicals	5	32	
Continuous knowledge checking (mid-	20	32	
terms)	24	40	
Final exam		100	
TOTAL	60		

GRADING AND EVALUATION OF STUDENT WORK ON COURSES WITH SEMINARS and EXERCISES

	Minimum number of points	Maximum number of points
Type of Activity	Milliman rames	18
Seminar/practicals attendance	11	10
Active participation in seminars and	5	10
practicals Continuous knowledge checking (mid-		32
terms)	24	40
Final exam	60	100
TOTAL		

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