

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE

Heinzlova 55

Tel. 01/2390.....

Division:

Organizational unit: Clinic for surgery, orthopaedics and ophthalmology

E-mail of the course leader: amusulin@vef.unizg.hr , andrijamusulin@gmail.com, bpirkic@vef.unizg.hr

Register No of the organisational unit:

Zagreb, 01/02/2023

		
159689	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	09.02.2023	
Klasifikacijska oznaka	Org. jed.	
605-03/22-04/35	251-61-32;	
Uredbeni broj	Prilozi	Vrijednost
251-61-21/260-23-61	0	-

COURSE SYLLABUS

Course name: **"Surgery, orthopaedics and ophthalmology II"**

Academic year 2022./2023.

Course leader: assis. prof. Andrija Musulin

Deputy course leader: prof. Boris Pirkić

Teachers: Assoc. prof. Tomislav Babić, PhD; Prof. Dražen Matičić PhD FCA, PhD; Prof. Boris Pirkić; PhD;.. Prof. Mario Kreszinger, PhD; Prof. Dražen Vnuk; PhD; Assoc. Prof. Ozren Smolec, PhD, Assoc. Prof. Nika Brkljača Bottegato, DECVSMR; PhD, Asst. Prof. Marko Pećin, PhD, Asst. Prof. Andrija Musulin; PhD; Valentina Plichta, PhD, DVM, Petar Kostešić, PhD, DVM, Marija Lipar, PhD, DVM, Marija Mamić, DVM, Mirna Abaffy Kirin, DVM, Mirta Vučković, DVM, Petra Dmitrović, DVM, Niko Ivkić, DVM, Katarina Miljak, DVM

First day of classes: 27/02/2023

Last day of classes: 14/06/2023

Timetable for LECTURES academic year 2022./2023.+

LECTURES				
Date	Methodological unit	Teacher	Location / Time	Literature
27.2.2023.	Surgery of the head and neck large animals	Assoc. prof. Nika Brkljača Bottegaro, PhD	Practical hall Parasitology 14-16 h	Materials in LMS-VEF
6.3.2023.	Surgery of the head and neck small animals	Prof. Mario Kreszinger, PhD	Practical hall Parasitology 8-10 h	Materials in LMS-VEF
10.3.2023.	Hernias	Assist.prof. Andrija Musulin, PhD	Practical hall Parasitology 12-14 h	Materials in LMS-VEF
16.3.2023.	Gastrointestinal diseases of dogs and cats	Prof. Dražen Vnuk, PhD	Practical hall Parasitology 10-12 h	Materials in LMS-VEF
17.3.2023.	Castration	Assoc. prof. Tomislav Babić, PhD	Practical hall Parasitology 10-12 h	Materials in LMS-VEF
20.3.2023.	Surgical diseases of thorax	Prof. Dražen Vnuk, PhD	Clinical Lecture room 11-13 h	Materials in LMS-VEF
22.3.2023.	Surgical oncology I	Prof. Dražen Matičić, PhD, FCA	Clinical lecture room 8-10 h	Materials in LMS-VEF
23.3.2023.	Surgical oncology II	Prof. Dražen Matičić, PhD, FCA	Practical hall Parasitology 12-14 h	Materials in LMS-VEF
29.3.2023.	Diseases of cornea	Prof. Boris Pirkić, PhD	Practical hall Parasitology 12-14 h	Materials in LMS-VEF
31.3.2023.	Diseases of vascular (middle) eye layer and lens	Prof. Boris Pirkić, PhD	Practical hall Parasitology 12-14 h	Materials in LMS-VEF
4.4.2023.	Diseases of retina, vitreous body,	Prof. Boris Pirkić, PhD	Practical hall Parasitology	Materials in LMS-VEF

	optic nerve and eye orbit. Glaucoma.		10,30-12 h	
11.4.2023.	Diseases of eyelids, conjunctiva and lacrimal system	Prof. Boris Pirkić, PhD Valentina Plichta, PhD, DVM	Practical hall Parasitology 9-11 h	Materials in LMS-VEF
18.4.2023.	Colic surgery in horses	Assoc. Nika Brkljača Bottegaro, PhD	Practical hall Parasitology 12-14 h	Materials in LMS-VEF
3.5.2023.	Diseases of urogenital system	Assist. prof. Andrija Musulin, PhD	Practical hall Parasitology 12-14 h	Materials in LMS-VEF
9.5.2023.	Surgical diseases of abdominal cavity in ruminants	Assoc. prof. Ozren Smolec, PhD	Practical hall Parasitology 12-14 h	Materials in LMS-VEF

Timetable for PRACTICALS academic year 2022./2023.

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical (Article 31. of Regulation)	Group	Location / time	Literature
24/03/2023	Clinical rotation	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 8.15-13.30 h	LMS-VEF, written materials
27/03/2023	Practical work-abdominal surgery. Ophthalmological examination.	Teachers and assistant teachers	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology 11-14.45 h	LMS-VEF, written materials
03/04/2023	Clinical rotation	Teachers and assistant teachers	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology 10-15 h	LMS-VEF, written materials
13/04/2023	Practical work-abdominal surgery. Ophthalmological examination.	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 8,15-12 h	LMS-VEF, written materials
20/04/2023	Clinical rotation Exam: thorax	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 9.15-14.30 h	LMS-VEF, written materials
21/04/2023	Clinical rotation Exam: thorax	Teachers and assistant teachers	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology 10.15-15.30 h	LMS-VEF, written materials
24/04/2023	Clinical rotation Exam: surgical	Teachers and assistant	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology	LMS-VEF, written materials

	oncology	teachers			10-16 h	
10/05/2023	Clinical rotation	Teachers and assistant teachers	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology 10.15-15.30 h	LMS-VEF, written materials
01/06/2023	Clinical rotation	Teachers and assistant teachers	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology 10.30-15.45 h	LMS-VEF, written materials
02/06/2023	Clinical rotation Exam: surgical oncology	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 10.30-15.45 h	LMS-VEF, written materials
02/06/2023	Clinic night shift	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 18-22 Clinic night shift	LMS-VEF, written materials
05/06/2023	Clinical rotation Exam: ophthalmological examination	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 10-16 h	LMS-VEF, written materials
06/06/2023	Clinic night shift	Teachers and assistant teachers	Special clinical practicals	Group 2	Clinic for Surgery, Orthopaedics and Ophthalmology 18-22 h, Clinic night shift	LMS-VEF, written materials
14/06/2023	Clinical rotation Exam: ophthalmological examination	Teachers and assistant teachers	Special clinical practicals	Group 1	Clinic for Surgery, Orthopaedics and Ophthalmology 10.30-15.45	LMS-VEF, written materials

STUDENT OBLIGATIONS

Lecture attendance	During the semester student must be present on 15 hours of lectures (from amount of 30 hours) to obtain minimum 3 points during the semester. Maximum obtained number of points from this element is 6.
Seminars attendance	-
Practicals attendance	<p>During the semester student must be present on 36 hours of exercises (from amount of 45 hours) to obtain minimum 9,6 points during the semester. Maximum obtained number of points from this element is 12. Sixty hours of exercise are divided in 8 days:</p> <ol style="list-style-type: none"> 1. 5 hours - intestinal resection and anastomosis (<i>wet and dry lab</i>) and ophthalmologic examination (practical training) 2. 7 hours- clinical rotation, practical work with patient 3. 7 hours- clinical rotation, practical work with patient 4. 7 hours- clinical rotation, practical work with patient 5. 7 hours- clinical rotation, practical work with patient 6. 7 hours- clinical rotation, practical work with patient 7. 5 hours- practical work with patients during night duty and /or weekend duty
Active participation in seminars and practicals	<p>Participating actively at the practicals students can gain 75 points max., what brings them 10 final points. Points for performing the following tasks:</p> <ol style="list-style-type: none"> a) 25 points (first exercise – thematic – participation is not evaluated, second exercise –practical clinical work during clinical rotation - 5 points max.; third exercise - practical clinical work during clinical rotation - 5 points max.; fourth exercise – practical clinical work during clinical rotation - 5 points max.; fifth exercises – practical clinical work during clinical rotation - 5 points max.; sixth exercise - practical clinical work during clinical rotation - 5 points max., seventh exercise – practical clinical work during clinical rotation will not be evaluated, but could be replaced with practical work in extracurricular time eg. afternoon round, night round or weekend round,) = keeping records of anaesthesiologic protocols in an orderly manner. Please find instructions to fill in the Anaesthesiologic protocol at LMS.vcf. b) 25 points (first exercise – thematic – participation is not evaluated, second exercise –practical clinical work during clinical rotation - 5 points max.; third exercise - practical clinical work during clinical rotation - 5 points max.; fourth exercise – practical clinical work during clinical rotation - 5 points max.; fifth exercises – practical clinical work during clinical rotation - 5 points max.; sixth exercise - practical clinical work during clinical rotation - 5 points max., seventh exercise – practical clinical work during clinical rotation will not be evaluated, but could be replaced with practical work in extracurricular time eg. afternoon round, night round or weekend round,) = keeping surgical record form in an orderly manner. Please find instructions to fill in

	<p>the Patient protocol at LMS.vcf.</p> <p>c) 25 points (first exercise – thematic – participation is not evaluated, second exercise – practical clinical work during clinical rotation - 5 points max.; third exercise - practical clinical work during clinical rotation - 5 points max.; fourth exercise – practical clinical work during clinical rotation - 5 points max.; fifth exercises – practical clinical work during clinical rotation - 5 points max.; sixth exercise - practical clinical work during clinical rotation - 5 points max., seventh exercise – practical clinical work during clinical rotation will not be evaluated, but could be replaced with practical work in extracurricular time eg. afternoon round, night round or weekend round,) = active participation in the work with patients.</p> <p>Students must obtain minimally 5 final points (37.5 points x coefficient 0.1333). Active participation at exercise during surgical rotation will be continuously evaluated.</p>
Mid term exams	<p>During the semester there will be three (3) mid term exams (surgical oncology, thorax and ophthalmic exam) organised at the time of exercises each containing eleven (11) problems or questions. Each correctly solved problem or correctly answered question is worth one (1) point. A student must gain the total of 21 points from 3 mid term exams (minimal 7 from each mid term exam) in order to earn minimally 20 final points (21 point multiply with 0.9696). The maximal number of points a student can gain from this evaluation element is 32 final points (33 point multiply with 0.9696). A student who does not gain minimally 21 points during the semester from mid term exam has a right to take 2 makeup mid term exams only those which failed. A student who passes the makeup mid term exam with minimally 7 correct answers has a right to take the final exam.</p>
Final exam	<p>Minimal conditions for passing the first, second, third and fourth – (lecture attendance, exercise (practicals) attendance, active participation in exercise, mid term exams) evaluation element are summed up and they are worth 37.6 points all together. Maximum points to gain from all 4 elements is 60.</p> <p>Questions in the final exam will be put in a way that a student can answer in written and oral form. In the written form there will be 20 questions divided in 5 groups (20 points), 12 of which must be answered correctly in order to take the oral exam. The maximum number of points that can be gained at the oral exam is 20 points (five questions), where maximally 4 points can be gained for 1 correct answer (0-4). The minimal number of points a student must gain at the final exam is 24 (12 points minimal at written and 12 as well at oral exam). The maximal number of points on written exam together with oral exam can be 40 points. If student does not gain minimum 12 points on written exam one can not take oral exam. If student does not gain minimum 12 points in oral exam, one fails.</p> <p>The final grade from a course program is expressed in quantity, by a numeric point-system value and by a grade adequate to its value in points, from 1 to 5. Student is marked by grade 1 in case she/he did not master the program course successfully, in other words grade 1 means insufficient standing.</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 a minimum number of points from all assessment elements in order to take the final exam. Article 41: a student can justifiably be absent from up to 50 % of the lectures; 20% of the seminars and 20 % of the exercises.</p>

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	During practicals; additional terms 27.6.2023. and 12.7.2023.
Final exams (dates)	28.6., 6.7., 11.7., 4.9. i 19.9.2023.
Form of final exam	Written and oral exam

LITERATURE

Obligatory literature	Teaching materials available on http://lms.vef.hr/
Optional literature	<ol style="list-style-type: none"> 1. Welch Fossum, T. (2018): Small Animal Surgery, 5th ed. 2. Auer, J.A., J.A. Stick, J.M. Kummerle, T. Prange (2019): Equine Surgery. 5th ed. 3. Kent Ames, N. (2013): Noordsy's Food Animal Surgery, 5th ed. 4. Maggs, D., P. Miller, R. Ofri (2018): Slatter's fundamentals of veterinary ophtalmology. 6th ed.

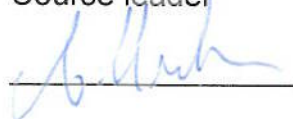
OBJECTIVES AND LEARNING OUTCOMES

Course objectives	Objective is to introduce the student with the basic knowledge in ophthalmology, abdominal and thoracic surgery, and oncology of domestic animals.
Learning outcomes	<p>Student will be able to:</p> <ul style="list-style-type: none"> - recognize certain diseases of head and neck of small and large animals, as well as undergo basic treatment - recognize thoracic diseases and undergo basic treatment - stabilize thoracic patient and point him to referral clinic - recognize various types of hernias and decide the type of treatment - recognize indications for castration in various animal species - recognize the patient with alimentary and urogenital disease, type of treatment and indication for pointing him to referral clinic - deciding the indication for laparotomy in ruminants - recognize the abdominal disease in a horse, with colic pain as the cardinal symptom - discuss the basic postulates of surgical diagnostics and treatment of oncologic patient - recognize the eye diseases of small and large animals <p>undergo basic treatment of eye disease, as well as emergency treatment, and pointing to referral clinic</p>

GRADING SCHEME

<i>Points</i>	<i>Grade</i>
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 Cours