

2020-2021

## Surgery, orthopaedics and ophthalmology II

UNIVERSITY OF ZAGREB  
FACULTY OF VETERINARY MEDICINE

Heinzlova 55  
Tel. 01/2390 390

Division:

Department / Clinic: Clinic for surgery, orthopaedics and ophthalmology

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Register no.:

File no.:

Zagreb, 30.1.2021

	
117339	REPUBLIKA HRVATSKA
Veterinarski fakultet u Zagrebu	
Primljeno:	03.02.2021
Klasifikacijska oznaka	Org. jed.
605-03/20-04/25	251-61-21;251-61-32;
Uredbeni broj	Prilozi Vrijednost
251-61-21-21-71	0 -

### COURSE SYLLABUS

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

Academic year 2020-21

Course leader: asst. Prof. Andrija Musulin, PhD; prof. Boris Pirkić, PhD

Teachers: Assoc. prof. Tomislav Babić, PhD; Prof. Dražen Matić PhD FCA, PhD; Prof. Boris Pirkić, PhD;... Prof. Mario Kreszinger, PhD; Prof. Berislav Radišić, PhD; Prof. Dražen Vnuk, PhD; Asst. Prof. Ozren Smolec, PhD, Asst. Prof. Nika Brkljača Bottegaro, PhD, Asst. Prof. Marko Pećin, PhD, Asst. Prof. Andrija Musulin, PhD

Associate teachers: Valentina Plichta, DVM, Marija Mamić, DVM. Petar Kostešić, PhD, Marija Lipar, PhD, Mirna Abaffy Kirin, DVM, Mirta Vučković, DVM

First day of classes: 19.3.2021.

Last day of classes: 20.5.2021.

Timetable for LECTURES academic year 2020-2021

LECTURES				
Date	Methodological unit	Teacher	Location / time	Literature
19.3.2021.	Surgery of the head and neck large animals	Asst.prof.Nika Brkljača Bottegaro, PhD	Clinical Lecture Room 14-16h	Web, written materials
22.3.2021.	Surgery of the head and neck small animals	Prof. Mario Kreszinger	Clinical Lecture Room 13-15h	Web, written materials
23.3.2021.	Hernias	Asst.prof.Andrija Musulin, PhD	Clinical Lecture Room 13-15h	Web, written materials
24.3.2021.	Gastrointestinal diseases of dogs and cats	Prof.Dražen Vnuk, PhD	Clinical Lecture Room 13-15h	Web, written materials
26.3.2021.	Castration	Assoc.Prof.Tomislav Babić, PhD	Clinical Lecture Room 8-10h	Web, written materials
30.3.2021.	Surgical diseases of thorax	Prof.Dražen Vnuk, PhD	Clinical Lecture Room 12-14h	Web, written materials
7.4.2021.	Surgical oncology I	Prof.Dražen Matičić, PhD, FCA	Clinical Lecture Room 8-10h	Web, written materials
13.4.2021.	Surgical oncology II	Prof.Dražen Matičić, PhD, FCA	Clinical Lecture Room 12-14h	Web, written materials
16.4.2021.	Diseases of cornea	Prof.Boris Pirkić, PhD	Clinical Lecture Room 8-10h	Web, written materials
28.4.2021.	Diseases of vascular (middle) eye layer and lens	Prof.Boris Pirkić, PhD	Clinical Lecture Room 8-10h	Web, written materials
5.5.2021.	Diseases of retina, vitreous body, optic nerve and eye orbit. Glaucoma.	Prof.Boris Pirkić, PhD	Lecture Room Department of Physiology and Radiobiology 8-10h	Web, written materials
7.5.2021.	Diseases of eyelids, conjunctiva and lacrimal system	Prof.Boris Pirkić, PhD	Clinical Lecture Room 8-10h	Web, written materials

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11.5.2021.	Surgical diseases of abdominal cavity in ruminants	Asst.Prof.Ozren Smolec, PhD	Clinical Lecture Room 8-10h	Web, written materials
18.5.2021.	Colic surgery in horses	Prof.Berislav Radišić, PhD	Clinical Lecture Room 8-10h	Web, written materials
19.5.2021.	Diseases of urogenital system	Asst. Prof.Andrija Musulin, PhD	Clinical Lecture Room 8-10h	Web, written materials

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### Timetable for SEMINARS academic year 2020-2021

SEMINARS					
Date	Methodological unit	Teacher	Group	Location / time	Literature



## Timetable for PRACTICALS academic year 2020-2021

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical	Group	Location / time	Literature
26.3.2021.	Practical work-abdominal surgery.Ophthalmological examination. Clinical rotations	Teachers and assistant teachers	Special clinical practicals		Clinic for Surgery, Orthopaedics and Ophthalmology 10-15.30	Web, written materials
7.4.	Clinical rotations	Teachers and assistant teachers	Special clinical practicals Special clinical practicals		Clinic for Surgery, Orthopaedics and Ophthalmology 10-15.30	Web, written materials
8.4.	Clinical rotations Exam: thorax	Teachers and assistant teachers	Special clinical practicals		Clinic for Surgery, Orthopaedics and Ophthalmology 10-15.30	Web, written materials
9.4.	Clinical rotations Exam: surgical oncology	Teachers and assistant teachers	Special clinical practicals		Clinic for Surgery, Orthopaedics and Ophthalmology 10-15.30	Web, written materials
12.4.	Clinical rotation Exam:Ophthalmological examination	Teachers and assistant teachers	Special clinical practicals		Clinic for Surgery, Orthopaedics and Ophthalmology 10-15.30.	Web, written materials
6.5.	Clinic night shift		Special clinical practicals		18-22	
20.5.	Clinical rotation	Teachers and assistant teachers	Special clinical practicals		Clinic for Surgery, Orthopaedics and Ophthalmology 10-15	Web, written materials

**STUDENT OBLIGATIONS**

Lecture attendance	Student has to be present for 15 out of 30 to get minimum of 3 points. Maximal number of points is 6.
Seminars attendance	
Practicals attendance	Student has to be present on 32 out of 45 hours of practicals in order to get 8 points. Maximal number of points that can be achieved is 12.
Active participation in seminars and practicals	<p>Student can get maximal grade 75, which brings them 10 points by doing following assignments:</p> <ol style="list-style-type: none"> <li>1. Keeping patient records in an orderly manner- maximal 25 points</li> <li>2. Keeping records of anaesthesiologic protocols in an orderly manner- maximal 25 points</li> <li>3. Actively participating in clinical rotation- maximal 25 points</li> </ol> <p>The number of points students must gain in order to earn minimal 5 points is 37,5. Participation of students at exercises (practicals) will be checked continuously..</p>
Final exam	
Examination requirements	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. <b>Article 45:</b> a student can justifiably be absent from up to 50 % of the lectures; 30% of the seminars and 30 % of the exercises (practicals)

**GRADING AND EVALUATING STUDENT WORK**

Continuous knowledge-checking (mid-terms)	During the course of semester there will be 3 written examinations, during clinical rotations. Each of them has 11 questions. Student has to answer 21 questions in order to achieve minimum of 20 points. Minimal number of correct answers per exam is 7. Maximal number of points is 32. Student that fails to achieve minimal number of points can retake the exam after the semester is finished
Final exams (dates)	
Form of final exam	Prior to final exam the students will be able to retake written examination and clinical rotations if their absence was justified. Minimal conditions to pass first, second, third and fourth element are added together and their score is 36 points, while maximal number is 60 points. Final exam starts by short analysis of each student's results of first four grading elements. There will be written and oral part of the examination. Maximal number of points in final exam is 40. One correct answer is 4 points. Written part of the examination consists of 5 groups of questions which contain 4 questions. Maximal number of points for this part is 20. In order to qualify for oral part of the exam students have to answer 12 questions correctly. Oral part of the exam consists of 5 questions and answer to each one is graded 0-4. Each grade is one point. Minimal number of points required to pass oral exam is 12. Maximal number of points in oral exam is 20. Minimal number of points on final exam is 24, 12 written and 12 oral

**LITERATURE**

Obligatory literature	Written materials
Optional literature	<ol style="list-style-type: none"> <li>1. Slatter Douglas- Textbook of small animal surgery (2003)</li> <li>2. Johnston-Tobias Veterinary surgery small animal (2012)</li> <li>3. Jorg A. Auer, John A. Stick-Equine surgery (2005 and newer)</li> <li>5. Noordsy J.L.; Ames N.K.- Food animal surgery (2006 and newer)</li> <li>6. Slatter Douglas-Fundamentals of veterinary ophthalmology (2007 and newer)</li> </ol>



**OBJECTIVES AND LEARNING OUTCOMES**

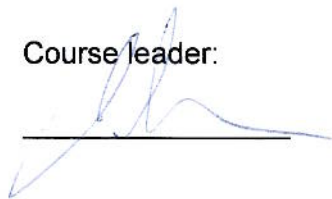
Course objectives	Students of 8 <sup>th</sup> semester will broaden the knowledge and skills acquired in 7 <sup>th</sup> semester. Students will continue and expand knowledge and skills in Patient and anesthesiology protocol of surgical patients during clinical rotation. Students will get acquainted with emergency conditions that require tracheostomy in small and large patients and how to approach patients with head trauma. During abdominal surgery practical students will learn how to approach patient with acute abdomen with special emphasis on Gastric dilatation and volvulus syndrome and obstructive urolithiasis in dogs and cats. Abdominal surgery in equine patients will be based on approach to colic attacks and applying emergency therapy and referring a patient to referral center. Student will be familiarized with examination and dealing with acute conditions in ruminants as well as reconstructing ruminant abdominal wall. Students have to learn how to correctly choose suture material as well as what suturing technique to use for reconstructing organs in acute abdomen small and farm animals. Student will get familiarized with ophthalmological examination of small animals and horses as well as diagnostics and treatment of basic pathological conditions of outer and middle part of the eye and after that with diagnostics and treatment of glaucoma.
Learning outcomes	Students have to adopt knowledge and skills that represent the aim of the course. Student have to know how to perform tracheotomy. Student must be able to recognize acute abdomen in dogs, stabilize the patient and set him up for laparotomy and he has assist in that surgery. Student must be able to diagnose colic syndrome in horse and provide adequate therapy before referring it to referral center. Student has to understand surgical correction of traumatic indigestion and changes in intestines position with special emphasis on choice of suture materials, opening and closing abdominal wall in ruminants. Student have to be able to perform ophthalmological examination of small animals and horses, recognize basic pathological changes in outer and middle eye layer and treat those conditions. Student has to be able to choose correct drugs to treat eye diseases. Finally, student has to know how to diagnose and treat glaucoma conservatively.



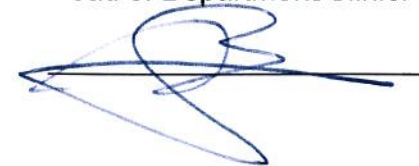
**GRADING SCHEME**

<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.