

Course

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
Tel. 01/2390-390
Division:
Organizational unit: Clinic for surgery, orthopaedics and ophthalmology
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Register No of the organisational unit:
Zagreb, 25/01/2024

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178287	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	31.01.2024	
Klasifikacijska oznaka	Org. jed.	
605-03/23-04/28	251-61-32/251-61-41	
Uredžbeni broj	Prilozi	Vrijednost
251-61-21/420-24-90	0	-

COURSE SYLLABUS

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

Academic year 2023./2024.

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 Bottegaro, DECVSMR; PhD, Assoc. Prof. Marko Pećin, PhD, Asst. Prof. Andrija Musulin; PhD; Valentina Plichta, PhD, DVM, Petar Kostešić, PhD, DVM, Marija Lipar, PhD, DVM, Petra Dmitrović, PhD, DVM, Marija Mamić, DVM, Mirna Abaffy Kirin, DVM, Mirta Vučković, DVM, Niko Ivkić, DVM, Katarina Miljak, DVM

First day of classes: 26/02/2024
Last day of classes: 14/06/2024

Activities - Surgery, Orthopaedics and Ophthalmology II (1/3)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
26/02/2024	12:00	13:30	p04 Gastrointestinal diseases	8E-1, 8E-2, 8E-3		1:30	Vnuk D.	P_patologija
27/02/2024	13:30	15:00	p02 Surgery of the head	8E-1, 8E-2, 8E-3		1:30	Musulin A.	P_farmakologija
29/02/2024	12:00	13:30	p03 Hernias	8E-1, 8E-2, 8E-3		1:30	Musulin A.	P_patologija
05/03/2024	12:00	13:30	p01 Castrations	8E-1, 8E-2, 8E-3		1:30	Babic T.	P_klinike
08/03/2024	8:15	9:45	p07 Surgical oncology I	8E-1, 8E-2, 8E-3		1:30	Maticic D.	P_klinike
11/03/2024	9:15	10:45	p06 Surgical diseases	8E-1, 8E-2, 8E-3		1:30	Vnuk D.	P_fiziologija
13/03/2024	8:15	12:00	v01 Practical work	8E-2, V_kirurgija		3:45	Nastavnici na predmetu	V_kirurgija
14/03/2024	11:15	12:45	p08 Surgical oncology II	8E-1, 8E-2, 8E-3		1:30	Maticic D.	P_fizika
18/03/2024	8:15	9:45	p05 Surgery of the head	8E-1, 8E-2, 8E-3		1:30	Brkljaca Bottegaro N.	P_fizika
19/03/2024	12:00	13:30	p09 Diseases of cornea	8E-1, 8E-2, 8E-3		1:30	Pirkic B.	P_klinike
20/03/2024	12:15	16:00	v01 Practical work	8E-3, V_kirurgija		3:45	Nastavnici na predmetu	V_kirurgija
21/03/2024	12:00	13:30	p10 Diseases of vascular eye	8E-1, 8E-2, 8E-3		1:30	Pirkic B.	P_klinike
22/03/2024	11:15	15:00	v01 Practical work	8E-1, V_kirurgija		3:45	Nastavnici na predmetu	V_kirurgija
25/03/2024	11:00	16:15	v02 Practical work	8E-3		5:15	Nastavnici na predmetu	V_kirurgija
02/04/2024	14:00	15:30	p11 Diseases of retina	8E-1, 8E-2, 8E-3		1:30	Pirkic B.	P_klinike
04/04/2024	8:15	13:30	v03 Practical work	8E-3		5:15	Nastavnici na predmetu	V_kirurgija
05/04/2024	18:00	21:45	v07 Practical work	8E-1		3:45	Nastavnici na predmetu	V_kirurgija
08/04/2024	11:00	12:30	p12 Diseases of eyelids	8E-1, 8E-2, 8E-3		1:30	Pirkic B.	P_klinike

Activities - Surgery, Orthopaedics and Ophthalmology II (2/3)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
10/04/2024	11:00	16:15	v04 Practical work	8E-3		5:15	Nastavnici na predmetu	V_kirurgija
11/04/2024	10:45	16:00	v05 Practical work	8E-3, V_kirurgija		5:15	Nastavnici na predmetu	V_kirurgija
15/04/2024	10:15	11:45	p13 Surgical diseases in ruminants	8E-1, 8E-2, 8E-3		1:30	Smolec O.	P_klinike
17/04/2024	8:30	10:00	p14 Colic surgery in horses	8E-1, 8E-2, 8E-3		1:30	Brkljaca Bottegaro N.	P_klinike
17/04/2024	12:30	14:00	p15 Diseases of urogenital system	8E-1, 8E-2, 8E-3		1:30	Musulini A.	P_klinike
19/04/2024	8:15	13:30	v02 Practical work	8E-1		5:15	Nastavnici na predmetu	V_kirurgija
25/04/2024	18:00	21:45	v07 Practical work	8E-2		3:45	Nastavnici na predmetu	V_kirurgija
26/04/2024	8:15	13:30	v03 Practical work	8E-1		5:15	Nastavnici na predmetu	V_kirurgija
21/05/2024	8:15	13:30	v02 Practical work	8E-2		5:15	Nastavnici na predmetu	V_kirurgija
27/05/2024	9:15	14:30	v03 Practical work	8E-2		5:15	Nastavnici na predmetu	V_kirurgija
27/05/2024	18:00	21:45	v07 Practical work	8E-3		3:45	Nastavnici na predmetu	V_kirurgija
28/05/2024	8:30	13:45	v04 Practical work	8E-2		5:15	Nastavnici na predmetu	V_kirurgija
03/06/2024	9:45	15:00	v06 Practical work	8E-3		5:15	Nastavnici na predmetu	V_kirurgija

Activities - Surgery, Orthopaedics and Ophthalmology II (3/3)

	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
10/06/2024	9:00	14:15	v05 Practical work	8E-2, V_kirurgija		5:15	Nastavnici na predmetu	V_kirurgija
11/06/2024	9:00	14:15	v04 Practical work	8E-1		5:15	Nastavnici na predmetu	V_kirurgija
12/06/2024	9:00	14:15	v05 Practical work	8E-1		5:15	Nastavnici na predmetu	V_kirurgija
13/06/2024	9:00	14:15	v06 Practical work	8E-1, V_kirurgija		5:15	Nastavnici na predmetu	V_kirurgija
14/06/2024	9:00	14:15	v06 Practical work	8E-2		5:15	Nastavnici na predmetu	V_kirurgija
Total: 36						123:45		

STUDENT OBLIGATIONS

Lecture attendance	During the semester student must be present on 15 hours of lectures (50%) (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 31,5 hours (30% of hours can be absent) of exercises (from amount of 45 hours) to obtain minimum 8,4 points during the semester. Maximum obtained number of points from this element is 12. Sixty hours of exercise are divided in 7 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
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

	<p>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 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) = 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>
<p>Mid term exams</p>	<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>
<p>Final exam</p>	<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>
<p>Examination requirements</p>	<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</p>

	to take the final exam.
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GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	During practicals; additional terms 27.6.2024., 10.7.2024. and 18.9.2024.
Final exams (dates)	28.6.2024., 11.7.2024., 6.9.2024.
Form of final exam	Written and oral exam

LITERATURE

Obligatory literature	Teaching materials available on https://moodle.srce.hr/2023-2024/course/view.php?id=163897
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

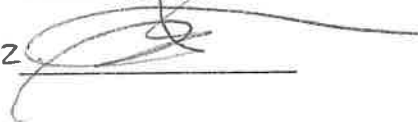
Course:

undergo basic treatment of eye disease, as well as emergency treatment, and pointing to referral clinic

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

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Head of organizational unit:



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