

UNIVERSITY OF ZAGREB  
FACULTY OF VETERINARY MEDICINE  
Heinzelova 55  
Tel. 01/2390 350  
Division: Clinics  
Organizational unit: Internal diseases  
E-mail of the course leader: [mcrnogaj@vef.unizg.hr](mailto:mcrnogaj@vef.unizg.hr)  
Register No of the organisational unit:  
Zagreb, 24/1/2024



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Veterinarski fakultet u Zagrebu	
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## COURSE SYLLABUS

Course name: Clinical propedeutics  
Academic year 2023/2024

Course leader: Assoc. Prof. Martina Crnogaj

Deputy course leader: Assist. Prof. Iva Šmit

Teachers: Full Prof. Damjan Gračner, PhD; Full Prof. Nada Kučer, PhD; Full Prof. Nikša Lemo, PhD; Full Prof. Vesna Matijatko, PhD; Assoc. Prof. Mirna Brkljačić, PhD; Assoc. Prof. Martina Crnogaj, PhD; Assoc. Prof. Ivana Kiš, PhD; Assoc. Prof. Marin Torti, PhD; Assist. Prof. Jelena Gotic, PhD; Assist. Prof. Darko Grden, PhD; Assist. Prof. Iva Šmit, PhD

Associate teachers: postdoctoral assistant Ines Jović, PhD; postdoctoral assistant Gabrijela Jurkić Krsteska, PhD, teaching assistant Maša Efendić; teaching assistant Filip Kajin; teaching assistant Elizabeta Pongrac, Blanka Beer Ljubić, PhD. Karol Šimonji, PhD. Miroslav Vlašić, DVM

First day of classes: 11/3/2024

Last day of classes: 28/5/2024

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First day of classes: 11/3/2024

Last day of classes: 28/5/2024

Activities - Clinical propedeutics (1/9)								
	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
11/03/2024	15:00	15:45	p1 Introduction lecture	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
12/03/2024	9:15	10:45	p2 Species differences in handling, restraint, equipment	6E-1, 6E-2, 6E-3		1:30	Gracner D.	P_fizika
12/03/2024	11:00	11:45	p3 Basic and complementary methods of physical examination	6E-1, 6E-2, 6E-3		0:45	Kucer N.	P_fiziologija
12/03/2024	12:00	12:45	p4 Order of physical examination procedures	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
13/03/2024	10:00	10:45	p5 History taking techniques.	6E-1, 6E-2, 6E-3		0:45	Brkljacic M.	P_klinike
13/03/2024	10:45	11:30	p6 Habitus. Examples of taking medical records.	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
14/03/2024	11:45	13:15	p7 Temperature, heart rate, respiratory rate and ruminal contractions	6E-1, 6E-2, 6E-3		1:30	Torti M	P_klinike
14/03/2024	13:30	15:00	p8 Mucous membranes and lymph nodes	6E-1, 6E-2, 6E-3		1:30	Grden D.	P_klinike
18/03/2024	9:00	10:30	p9 Clinical examination of the heart; pericardiocentesis	6E-1, 6E-2, 6E-3		1:30	Matijatko V.	P_klinike
18/03/2024	13:00	13:45	p10 Examination of the heart: large animals	6E-1, 6E-2, 6E-3		0:45	Torti M	P_klinike
18/03/2024	13:45	14:30	p11 ECG	6E-1, 6E-2, 6E-3		0:45	Torti M	P_klinike
19/03/2024	7:30	9:00	p13 Examination respiratory system; thoracocentesis.	6E-1, 6E-2, 6E-3		1:30	Kucer N.	P_fiziologija
19/03/2024	9:00	10:30	p14 Examination of GI tract 1	6E-1, 6E-2, 6E-3		1:30	Crnogaj M.	P_fiziologija

Activities - Clinical propedeutics (2/9)								
	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
20/03/2024	11:00	11:45	p12 Examination of blood vessels and exercise stress testing	6E-1, 6E-2, 6E-3		0:45	Torti M	P_klinike
21/03/2024	8:00	9:30	p15 Examination of GI tract 2	6E-1, 6E-2, 6E-3		1:30	Gotic J.	P_kemija
21/03/2024	10:00	10:45	p16 Examination: rumen, reticulum, omasus	6E-1, 6E-2, 6E-3		0:45	Gracner D.	P_klinike
21/03/2024	10:45	11:30	p17 Examination- liver; Tests for anterior abdominal pain	6E-1, 6E-2, 6E-3		0:45	Gracner D.	P_klinike
22/03/2024	11:30	13:00	p18 Medication administration	6E-1, 6E-2, 6E-3		1:30	Brkljacic M.	P_fiziologija
22/03/2024	13:30	15:00	v1 Handling, restraint, medication administration, venipuncture	6E-1		1:30	Nastavnici na predmetu	V_interna
25/03/2024	9:15	10:45	v1 Handling, restraint, medication administration, venipuncture	6E-2		1:30	Nastavnici na predmetu	V_interna
25/03/2024	12:30	14:00	v1 Handling, restraint, medication administration, venipuncture	6E-3		1:30	Nastavnici na predmetu	V_interna
26/03/2024	7:30	9:00	v2 TEMP, HR, RR, m.membranes, lymph n.	6E-1		1:30	Nastavnici na predmetu	V_interna
26/03/2024	9:15	10:45	v2 TEMP, HR, RR, m.membranes, lymph n.	6E-2		1:30	Nastavnici na predmetu	V_interna
26/03/2024	11:15	12:45	p19 Symptoms of GI disease	6E-1, 6E-2, 6E-3		1:30	Šmit I.	P_klinike

Activities - Clinical propedeutics (3/9)								
	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
26/03/2024	13:15	14:45	v2 TEMP, HR, RR, m.membranes, lymph n.	6E-3		1:30	Nastavnici na predmetu	V_interna
27/03/2024	7:30	9:00	v3 Heart examination, ECG, peripheral circulation	6E-2		1:30	Nastavnici na predmetu	V_interna
27/03/2024	9:00	10:30	v3 Heart examination, ECG, peripheral circulation	6E-3		1:30	Nastavnici na predmetu	V_interna
27/03/2024	10:30	11:15	p20 Urinary system: clinical signs 1	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
27/03/2024	11:15	12:00	p21 Urinary system: clinical signs 2	6E-1, 6E-2, 6E-3		0:45	Šmit I.	P_klinike
27/03/2024	12:15	13:45	v3 Heart examination, ECG, peripheral circulation	6E-1		1:30	Nastavnici na predmetu	V_interna
02/04/2024	9:00	10:30	v4 BCS, Blood pressure measurement, repetition	6E-1		1:30	Nastavnici na predmetu	V_interna
02/04/2024	10:45	12:15	v4 BCS, Blood pressure measurement, repetition	6E-2		1:30	Nastavnici na predmetu	V_interna
03/04/2024	8:00	9:30	v4 BCS, Blood pressure measurement, repetition	6E-3		1:30	Nastavnici na predmetu	V_interna
03/04/2024	9:45	10:30	p22 Examination of urinary system	6E-1, 6E-2, 6E-3		0:45	Torti M	P_klinike
03/04/2024	10:30	11:15	p23 Catheterisation and urinalysis	6E-1, 6E-2, 6E-3		0:45	Šmit I.	P_klinike
03/04/2024	11:30	13:00	v5 Examination of the respiratory system; Thoracocentesis	6E-2		1:30	Nastavnici na predmetu	V_interna

Activities - Clinical propedeutics (4/9)								
	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
03/04/2024	13:30	15:00	v5 Examination of the respiratory system; Thoracocentesis	6E-1		1:30	Nastavnici na predmetu	V_interna
03/04/2024	15:30	17:00	v5 Examination of the respiratory system; Thoracocentesis	6E-3		1:30	Nastavnici na predmetu	V_interna
04/04/2024	9:15	10:00	p24 Order of physical examination procedures: neurologic examination 1	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
04/04/2024	10:00	10:45	p25 Neurologic examination 2	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
04/04/2024	12:30	14:00	v6 Examination of digestive system	6E-3		1:30	Nastavnici na predmetu	V_interna 2
05/04/2024	8:30	9:15	p26 Neurologic examination 3	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
05/04/2024	9:15	10:00	p27 Neurologic examination 4	6E-1, 6E-2, 6E-3		0:45	Kiš I.	P_klinike
05/04/2024	12:00	13:30	v6 Examination of digestive system	6E-1		1:30	Nastavnici na predmetu	V_interna 2
05/04/2024	14:00	15:30	v6 Examination of digestive system	6E-2		1:30	Nastavnici na predmetu	V_interna 2
08/04/2024	10:15	11:45	v7 Examination of urinary tract	6E-2		1:30	Nastavnici na predmetu	V_interna 2
08/04/2024	14:00	15:30	v7 Examination of urinary tract	6E-1		1:30	Nastavnici na predmetu	V_interna 2
09/04/2024	14:00	15:30	v7 Examination of urinary tract	6E-3		1:30	Nastavnici na predmetu	V_interna 2

<b>Activities - Clinical propedeutics (5/9)</b>								
	<b>Start T</b>	<b>End Ti</b>	<b>Subject</b>	<b>Group</b>	<b>Note</b>	<b>Length</b>	<b>Instructor</b>	<b>Room</b>
10/04/2024	12:00	12:45	p28 Blood collection and complete blood cell count	6E-1, 6E-2, 6E-3		0:45	Matijatko V.	P_klinike
10/04/2024	12:45	13:30	p29 Chemistry profiles	6E-1, 6E-2, 6E-3		0:45	Crnogaj M.	P_klinike
10/04/2024	13:45	14:30	p30 Dyspnea, effusions, changes in blood pressure	6E-1, 6E-2, 6E-3		0:45	Matijatko V.	P_klinike
10/04/2024	14:30	15:15	p31 Creating a diagnostic plan	6E-1, 6E-2, 6E-3		0:45	Brkljacic M.	P_klinike
11/04/2024	8:00	9:30	v8 Introduction to laboratory diagnostics	6E-2		1:30	Nastavnici na predmetu	V_interna 2
11/04/2024	13:30	15:00	v8 Introduction to laboratory diagnostics	6E-1		1:30	Nastavnici na predmetu	V_interna 2
11/04/2024	15:15	16:45	v8 Introduction to laboratory diagnostics	6E-3		1:30	Nastavnici na predmetu	V_interna 2
12/04/2024	8:00	9:30	v9 Repetition Clinical examination, clinical report	6E-1		1:30	Nastavnici na predmetu	V_interna 2
12/04/2024	10:00	11:30	v9 Repetition Clinical examination, clinical report	6E-2		1:30	Nastavnici na predmetu	V_interna 2
12/04/2024	13:30	15:00	v9 Repetition Clinical examination, clinical report	6E-3		1:30	Nastavnici na predmetu	V_interna 2
15/04/2024	9:45	11:15	v10 Neurologic propedeutics part 1	6E-1		1:30	Nastavnici na predmetu	V_interna 2
15/04/2024	14:30	16:00	v10 Neurologic propedeutics part 1	6E-2		1:30	Nastavnici na predmetu	V_interna 2

Activities - Clinical propedeutics (6/9)								
	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
15/04/2024	16:15	17:45	p32 Dermatologic propedeutics 1	6E-1, 6E-2, 6E-3		1:30	Lemo N.	P_klinike
15/04/2024	17:45	18:30	p33 Dermatologic propedeutics 2	6E-1, 6E-2, 6E-3		0:45	Lemo N.	P_klinike
16/04/2024	8:00	9:30	v10 Neurologic propedeutics part 1	6E-3		1:30	Nastavnici na predmetu	V_interna 2
16/04/2024	9:45	11:15	v11 Neurologic propedeutics part 2	6E-1		1:30	Nastavnici na predmetu	V_interna 2
17/04/2024	10:00	11:30	v11 Neurologic propedeutics part 2	6E-3		1:30	Nastavnici na predmetu	V_interna 2
17/04/2024	11:45	13:15	v11 Neurologic propedeutics part 2	6E-2		1:30	Nastavnici na predmetu	V_interna 2
18/04/2024	10:45	12:15	v12 Dermatologic propedeutics	6E-3		1:30	Nastavnici na predmetu	V_interna 2
18/04/2024	12:30	14:00	v12 Dermatologic propedeutics	6E-1		1:30	Nastavnici na predmetu	V_interna 2
19/04/2024	9:00	10:30	p34 Small mammal clinical examination	6E-1, 6E-2, 6E-3		1:30	Brkljadic M.	P_klinike
19/04/2024	10:45	12:15	v12 Dermatologic propedeutics	6E-2		1:30	Nastavnici na predmetu	V_interna 2
22/04/2024	8:00	9:30	v13 Repetition Clinical examination, clinical report	6E-3		1:30	Nastavnici na predmetu	V_interna 2
22/04/2024	9:45	11:15	v13 Repetition Clinical examination, clinical report	6E-2		1:30	Nastavnici na predmetu	V_interna 2



<b>Activities - Clinical propedeutics (7/9)</b>								
	<b>Start T</b>	<b>End Ti</b>	<b>Subject</b>	<b>Group</b>	<b>Note</b>	<b>Length</b>	<b>Instructor</b>	<b>Room</b>
<b>22/04/2024</b>	11:30	13:00	v13 Repetition Clinical examination, clinical report	6E-1		1:30	Nastavnici na predmetu	V_interna 2
<b>23/04/2024</b>	9:15	10:45	v14 Colloquium	6E-3		1:30	Nastavnici na predmetu	V_interna 2
<b>23/04/2024</b>	11:00	12:30	v14 Colloquium	6E-1		1:30	Nastavnici na predmetu	V_interna 2
<b>23/04/2024</b>	13:00	14:30	v14 Colloquium	6E-2		1:30	Nastavnici na predmetu	V_interna 2
<b>25/04/2024</b>	9:00	10:30	v15 Examination of small mammals	6E-3		1:30	Nastavnici na predmetu	V_interna 2
<b>25/04/2024</b>	11:00	12:30	v15 Examination of small mammals	6E-2		1:30	Nastavnici na predmetu	V_interna 2
<b>25/04/2024</b>	12:45	14:15	v15 Examination of small mammals	6E-1		1:30	Nastavnici na predmetu	V_interna 2
<b>26/04/2024</b>	9:15	10:45	v16 Creating a diagnostic plan	6E-3		1:30	Nastavnici na predmetu	V_interna 2
<b>26/04/2024</b>	11:00	12:30	v16 Creating a diagnostic plan	6E-2		1:30	Nastavnici na predmetu	V_interna 2
<b>26/04/2024</b>	14:30	16:00	v16 Creating a diagnostic plan	6E-1		1:30	Nastavnici na predmetu	V_interna 2
<b>06/05/2024</b>	7:30	11:15	v17 Clinical propedeutics of farm animals and horses 1	6E-1		3:45	Nastavnici na predmetu	V_štala
<b>07/05/2024</b>	10:00	13:45	v17 Clinical propedeutics of farm animals and horses 1	6E-2		3:45	Nastavnici na predmetu	V_štala

<b>Activities - Clinical propedeutics (8/9)</b>								
	<b>Start T</b>	<b>End Ti</b>	<b>Subject</b>	<b>Group</b>	<b>Note</b>	<b>Length</b>	<b>Instructor</b>	<b>Room</b>
<b>08/05/2024</b>	11:15	15:00	v17 Clinical propedeutics of farm animals and horses 1	6E-3		3:45	Nastavnici na predmetu	V_interna 2
<b>09/05/2024</b>	10:00	13:45	v18 Clinical propedeutics of farm animals and horses 2	6E-1		3:45	Nastavnici na predmetu	V_štala
<b>10/05/2024</b>	11:15	15:00	v18 Clinical propedeutics of farm animals and horses 2	6E-2		3:45	Nastavnici na predmetu	V_štala
<b>13/05/2024</b>	10:00	13:45	v18 Clinical propedeutics of farm animals and horses 2	6E-3		3:45	Nastavnici na predmetu	V_interna 2
<b>14/05/2024</b>	12:00	15:45	v19 Clinical propedeutics of farm animals and horses 3	6E-1, V_interna propedeutika		3:45	Nastavnici na predmetu	V_interna 2
<b>15/05/2024</b>	11:15	15:00	v19 Clinical propedeutics of farm animals and horses 3	6E-2		3:45	Nastavnici na predmetu	V_štala
<b>16/05/2024</b>	11:15	15:00	v19 Clinical propedeutics of farm animals and horses 3	6E-3		3:45	Nastavnici na predmetu	V_interna 2
<b>17/05/2024</b>	11:15	15:00	v20 Clinical propedeutics of farm animals and horses 4	6E-1		3:45	Nastavnici na predmetu	V_štala
<b>20/05/2024</b>	10:00	13:45	v20 Clinical propedeutics of farm animals and horses 4	6E-2		3:45	Nastavnici na predmetu	V_štala
<b>21/05/2024</b>	10:00	13:45	v20 Clinical propedeutics of farm animals and horses 4	6E-3		3:45	Nastavnici na predmetu	V_interna 2
<b>22/05/2024</b>	10:00	14:30	v21 Clinical propedeutics of farm animals and horses 5	6E-1, 6E-2, 6E-3		4:30	Nastavnici na predmetu	V_štala
<b>27/05/2024</b>	10:00	11:30	v22 Repetition Clinical examination, clinical report	6E-1		1:30	Nastavnici na predmetu	V_interna 2

Activities - Clinical propedeutics (9/9)								
	Start T	End Ti	Subject	Group	Note	Length	Instructor	Room
27/05/2024	14:00	15:30	v22 Repetition Clinical examination, clinical report	6E-2		1:30	Nastavnici na predmetu	V_interna 2
28/05/2024	13:30	15:00	v22 Repetition Clinical examination, clinical report	6E-3		1:30	Nastavnici na predmetu	V_interna 2
Total: 98						159:45		

### STUDENT OBLIGATIONS

Lecture attendance	Minimal number of points: 3 (23 hours, 50%); maximal number of points: 6 (45 hours). During the semester for the course „Clinical propedeutics“ the student must be present at 23 hours of lectures in order to obtain minimal 3 points. Maximal number of points that can be obtained with attendance to lectures is 6 points (45 hours of lectures, 1 hour of lectures is 0,133 points).
Practicals attendance	Minimal number of points: 8 (42 hours, 70%); maximal number of points: 12 (60 hours). During the semester for the course „Clinical propedeutics“ the student must be present at 42 hours of practicals in order to obtain minimal 8 points. Maximal number of points that can be obtained with attendance to practicals is 12 points (60 hours of practicals, one hour of practical is 0,2 points). Each excused absence within allowed maximum (18 hours of practicals, 30%) student has to compensate in agreement with the practicals leader.
Active participation in seminars and practicals	Minimal number of points: 5; maximal number of points: 10. At the beginning of each practicals the teacher performs a short knowledge test. The content of the knowledge test is theoretical knowledge necessary for the practicals that are going to be held (new practicals content) and/or knowledge from already held practicals. During practicals students will learn predetermined number of procedures and/or examinations. Activity during practicals is recorded in personal file of each student. Activity at the practicals is estimated by the teacher that is holding each practicals.
Final exam	The final exam consists of a written and an oral part. A student can obtain a maximum of 20 points on the written part of the exam. The written part of the exam consists of 20 questions. Each correct answer carries 1 point. The student must answer 12 questions correctly to obtain the minimum of 12 points, in order to meet the requirement for participation in the oral part of the exam. A student can obtain a maximum of 20 points on the oral part of the exam. The oral part of the exam consists of 5 questions. The minimum number of points per question is 2.4 points, and the maximum is 4 points. In order to pass the exam, the student must obtain a minimum of 12 points in the oral part of the exam. The minimum number of points that a student must achieve in the final written and oral exam is 24 points, and the maximum that can be achieved is 40 points.

	The oral part of the final exam also contains a mandatory practical part. The questions on the final exam cover the entire course material.
Examination requirements	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. <b>Regulations On Intergraduate And Graduate Studies, Article 41:</b> a student can justifiably be absent from up to 50% of the lectures; 30% of the seminars and 30% of the exercises.

### GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	Colloquium consists of 5 theoretical and practical questions that have to be answered by the student orally and/or practically. Minimal number of points: 20, maximal number of points: 32. Each question is maximally 6,4 points. (Grades: 1 = 0 points; 2 = 4,0 points; 3 = 4,8 points; 4 = 5,6 points; 5 = 6,4 points). This year colloquium will be held on 23/4/2024 in scheduled time for practicals. Students are expected to answer each question with more than 51% of content. One insufficient answer from those 5 questions will lead to negative colloquium outcome.
Final exams (dates)	17/6/2024; 8/7/2024; 4/9/2024; 18/9/2024
Form of final exam	The final exam consists of a written and an oral part

### LITERATURE

Obligatory literature	Lecture handouts via the LMS and/or printed handouts  Selected chapters from:  RADOSTITS, O. M., I. G. MAYHEW, D. M. HOUSTON (2000): Veterinary clinical examination and diagnosis. WB Saunders, London, Edinburgh, New York, Philadelphia, St Louis, Sydney, Toronto. RIJNBERK, A., F. J. VAN SLUIJS (2009): Medical history and physical examination in companion animals. 2nd ed., Saunders Elsevier, Houten.
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Optional literature	<p>ASPINALL, V., R. ASPINALL (2013): Clinical procedures in small animal veterinary practice. Saunders Elsevier, Edinburgh.</p> <p>BEXFIELD, N., K. LEE (2010): BSAVA Guide to procedures in small animal practice. BSAVA, Gloucester.</p> <p>COSTA, L. R. R., M. R. PARADIS (2018): Manual of clinical procedures in the horse. Willey Blackwell, New Delhi.</p> <p>ENGLAR, R. E. (2017): Performing the small animal physical examination. Willey Blackwell, New York.</p> <p>ROCKETT, J., S. BOSTED (2016): Veterinary clinical procedures in large animal practice. 2nd ed., Cengage Learning, Boston.</p> <p>JACKSON, P. G. G., P. D. COCKCROFT (2002): Clinical examination of farm animals. Blackwell science, Oxford, Malden, Iowa, Victoria, Berlin.</p> <p>MILLER, W. JR, C. GRIFFIN, K. CAMPBELL (2013): Muller &amp; Kirk's Small Animal Dermatology. 7th ed., Saunders-Elsevier, St Louis.</p> <p>SPEIRS, V. E., R. H. WRIGLEY (1997): Clinical examination of horses. Saunders, Pennsylvania</p>
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## OBJECTIVES AND LEARNING OUTCOMES

Course objectives	<p>The objective of the course is to acquire basic knowledge and skills necessary to perform physical examination of the domestic animals, compose the list of clinical problems and form the diagnostic plan. Furthermore, the objective of the course is to become acquainted with basic additional diagnostic methods and interpretation of laboratory and other additional findings. Knowledge and skills acquired through participation in this course prepare the students to be able to work in clinical departments and give them base for further learning and specialization in clinical disciplines. Preparation of domestic animals and little carnivores for clinical exam, recognition of internal diseases symptoms using inspection, palpation, percussion and auscultation, sense of smell and measuring (changes of body weight, retarded growth, weakness and syncope, anorexia and polyphagia, changes of behaviour, pain, hypothermia and hyperthermia, cough, dyspnoea, ascites, peritonitis and other causes of abdominal distention, cardiopulmonary arrest, sneezing and nasal discharge, abnormal heart sounds and heart murmurs, EKG, changed pulse qualities, oedema, liquidothorax, vomiting, regurgitation and dysphagia, diarrhoea, constipation, tenesmi, incontinence, melanea, haematochesia, ptyalism, joint effusion, lameness, tremor, ataxia, paresis, paralysis, stupor and coma, epileptiform seizures, polyuria, polydipsia, incontinence, enuresis, dysuria, urinary tract obstruction, urinalysis, vaginal and preputial discharge, anaemia, cyanosis, jaundice, skin changes (alopecia, pruritus, lumps), lymphadenopathies, performing of clinical lab studies of animals according to body systems, intubation, catheterization, venepuncture, rectal examination, therapy preparation for application and i/m, s/c, i/v application, infusion therapy.</p>
Learning outcomes	<ol style="list-style-type: none"><li>1. Students shall be able to take adequate disease history.</li><li>2. Students will be able to make clinical examination</li><li>3. Students will have adequate knowledge for basic differential diagnostics of most common clinical problems.</li><li>4. Students shall be able to perform additional clinical examinations (depending of the organ system involved).</li><li>5. Students will be able to decide which advanced additional clinical methods of examination should be employed and be able to partly conduct those methods, eg. blood analysis).</li></ol>

**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 Course