

2018-2019

CLINICAL PROPEDEUTICS

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
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Register no.:
File no.:
Zagreb, 11 January 2019



79249	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
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Uredžbeni broj	Prilozi	Vrijednost
251-61-20-19-01	0	-

COURSE SYLLABUS

Course name: Clinical propedeutics

Academic year 2018-19

Course leader: Assoc. Prof. Ivana Kiš, DVM, PhD

Course leader substitute: Ass. Prof. Mirna Brkljačić, DVM, PhD

Teachers: prof. Vesna Matijatko PhD, prof. Nikša Lemo PhD, prof. Damjan Gračner PhD, assoc. prof. Ivana Kiš PhD, assoc. prof. Nada Kučer PhD, ass. prof. Mirna Brkljačić PhD, ass. prof. Marin Torti PhD, ass. prof. Martina Crnogaj PhD, PhD, ass. prof. Iva Šmit, PhD

Associate teachers: Jelena Gotić DVM, PhD, Ines Spajić DVM, Jurica Tršan DVM

First day of classes: 25 February 2019

Last day of classes: 21 May 2019

Timetable for LECTURES academic year 2018-2019

LECTURES				
Date	Methodological unit	Teacher	Location / time	Literature
25 February (1,2)	Introduction of course leader: assoc. prof. Ivana Kiš, PhD Handling the animals during clinical examination: Approach to different domestic animals: species differences in handling, restraint and necessary equipment	prof. Damjan Gračner, PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
26 February (3,4)	Basic methods of physical examination: inspection, palpation, percussion and auscultation Complementary methods of physical examination	assoc. prof. Nada Kučer, PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
27 February (5,6)	Order of physical examination procedures (plan according to species, history and suspected organ system involved) Signalment	assoc. prof. Ivana Kiš, PhD	8-10 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
28 February (7,8)	Order of physical examination procedures. History taking techniques. Habitus. Examples of taking medical records.	ass. prof. Mirna Brkljačić PhD ass. prof. Martina Crnogaj PhD	12-14 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
01 March (9,10)	Temperature, heart rate, respiratory rate and ruminal contractions	ass. prof. Marin Torti PhD	12-14 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.

05 March (11,12)	Examination of mucous membranes and lymph nodes.	Jelena Gotić DVM, PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
06 March (13,14)	Weight changes, anorexia, polyphagia, diarrhea and vomiting as symptoms of disease. Differential diagnostics, diagnostic plan.	ass. prof. Iva Šmit, PhD	10-12 Clinic for internal medicine - meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
07 March (15,16)	Dyspnea, effusions, hypertension, hypotension and other symptoms, differential diagnostics and diagnostic plan.	prof. Vesna Matijatko PhD	14-16 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
11 March (17,18)	Blood collection and complete blood cell count. Chemistry profiles.	prof. Vesna Matijatko PhD ass. prof. Martina Crnogaj PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
13 March (19,20)	Administration of medications in different domestic animal species	ass. prof. Mirna Brkljačić PhD	8-10 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
15 March (21,22)	Examination of upper respiratory system. Cough. Thyroid gland. Examination of lower respiratory system. Thoracocentesis.	assoc. prof. Nada Kučer, PhD	12-14 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
19 March (23,24)	Dermatologic propedeutics 1 and 2	prof. Nikša Lemo PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
21 March (25,26)	Dermatologic propedeutics 3 Clinical examination of the heart, pericardiocentesis. Symptoms of heart disease and differential diagnostics.	prof. Nikša Lemo PhD prof. Vesna Matijatko PhD	8-10 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.

25 March (27,28)	Clinical examination of the heart, pericardiocentesis. Symptoms of heart disease and differential diagnostics. ECG	prof. Vesna Matijatko PhD ass. prof. Marin Torti PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
26 March (29)	Examination of blood vessels and exercise stress testing.	ass. prof. Marin Torti PhD	12-13 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
27 March (30,31)	Examination of digestive tract: clinical signs Examination of oral cavity, mouth gags and their application.	ass. prof. Iva Šmit, PhD ass. prof. Martina Crnogaj PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
01 April (32)	Examination of esophagus and passing a stomach tube	ass. prof. Martina Crnogaj PhD	9-10 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
02 April (33,34)	Examination of abdomen and rectal examination	Jelena Gotić DVM, PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
04 April (35,36)	Examination of rumen, reticulum and omasus. Examination of the liver. Tests for anterior abdominal pain	prof. Damjan Gračner, PhD	8-10 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
08 April (37,38)	Urinary system: clinical signs 1 and 2	ass. prof. Martina Crnogaj PhD ass. prof. Iva Šmit, PhD	14-16 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
09 April (39,40)	Examination of urinary system Catheterisation and urinalysis	ass. prof. Marin Torti PhD ass. prof. Iva Šmit, PhD	10-12 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.

10 April (41,42)	Neurologic examination: introduction, postural reactions and spinal reflexes.	assoc. prof. Ivana Kiš, PhD	10-12 Clinic for internal medicine – meeting room	Dewey, C. W., da Costa R. C. (2016). Practical guide to canine and feline neurology, 3 rd ed. Wiley Blackwell. Ch 1: Signalment and history.; Ch 2: Performing the neurologic examination.
16 April (43,44)	Neurologic examination: cranial nerves, pain. Creating a diagnostic plan: diagnostic procedures (example: PU/PD)	assoc. prof. Ivana Kiš, PhD ass. prof. Mirna Brkljačić PhD	10-12 Clinic for internal medicine – meeting room	Dewey, C. W., da Costa R. C. (2016). Practical guide to canine and feline neurology, 3 rd ed. Wiley Blackwell. Ch 1: Signalment and history.; Ch 2: Performing the neurologic examination. Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.
18 April (45)	Small mammal clinical examination. Consultations.	ass. prof. Mirna Brkljačić PhD	12-13 Clinic for internal medicine – meeting room	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.

Timetable for PRACTICALS academic year 2018-2019

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical	Group	Location / time	Literature
06 March (1)	Introduction to practicals in clinical propedeutics	Kiš		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
08 March (2)	Approach to different domestic animals: species differences in handling, restraint and necessary equipment.	Kučer		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten
11 March (3)	Basic methods of physical examination: inspection, palpation, percussion and auscultation	Kučer		1	14-16	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
13 March (4)	Temperature, heart rate, respiratory rate and ruminal contractions.	Torti		1	10-12	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
18 March (5)	Examination of mucous membranes and lymph nodes. Repetition.	Gotić		1	14-16	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia.

						Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
20 March (6)	Taking history, signalment and clinical findings of patients at admission. Clinical examination of hospitalised patients. Basic interpretation of laboratory findings.	Crnogaj		1	10-12	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
22 March (7)	Administration of medications in different domestic animal species (routes of administration, systemic and topical medications)	Brkljačić		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
27 March (8)	Examination of upper respiratory system (nose, larynx, trachea). Cough. Thyroid gland.	Kučer		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
28 March (9)	Examination of thorax by basic methods of clinical examination, bronchoscopy.	Šmit		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
03 April (10)	Taking history, signalment and clinical findings of patients at admission. Clinical examination of hospitalised patients.	Matijatko		1	10-12	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
05 April	Heart examination by basic	Matijatko		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001):

(11)	clinical methods) and electrocardiography (ECG)					Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
10 April (12)	Cardiac ultrasound	Torti		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
11 April (13)	Examination of peripheral circulation (arteries, venes and capillaries. Repetition.	Spajić		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
12 April (14)	Examination of cardiovascular system and circulation in large animals.	Gotić		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
15 April (15)	Taking history, signalment and clinical findings of patients at admission. Clinical examination of hospitalised patients. Repetition.	Kiš		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
17 April (16)	Colloquium	Šmit		1	10-12	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.

02 May (17)	Examination of digestive system (oral cavity, pharynx and esophagus)	Crnogaj		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
03 May (18)	Examination of abdomen and liver. Passing a stomach tube in ruminants, examination of rumen contents.	Gotić		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
06 May (19)	Examination of rumen, reticulum and omasum. Tests for cranial abdominal pain. Use of endometalloscopy	Gračner		1	13-15	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
07 May (20)	Endoscopy of digestive tract, abdominocentesis, cPL, abdominal ultrasound	Šmit		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
08 May (21)	Rectal examination	Brkljačić		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
09 May (22)	Taking history, signalment and clinical findings of patients at admission. Clinical examination of hospitalised patients. Basic interpretation of laboratory	Brkljačić		1	11-13	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion

	findings.					animals. Saunders Elsevier, Houten.
10 May (23)	Examination of urinary tract. Interpretation of urinalysis. Creating a problem list and a diagnostic plan. Work up of patients with problem in urinary tract.	Crnogaj		1	10-12	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
13 May (24)	Catheterisation	Torti		1	13-15	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
14 May (25)	Neurologic propedeutics part 1	Kiš		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
15 May (26)	Neurologic propedeutics part 2	Gračner		1	10-12	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
16 May (27)	Dermatologic propedeutics part 1	Lemo		11	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
17 May (28)	Dermatologic propedeutics part 2	Lemo		1	8-10	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical

						history and physical examination in companion animals. Saunders Elsevier, Houten.
20 May (29)	Taking history, signalment and clinical findings of patients at admission. Clinical examination of hospitalised patients.	Spajić		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
21 May (30)	Repetition, preparation for the exam.	Brkljačić		1	12-14	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J.(2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.

STUDENT OBLIGATIONS

Lecture attendance	Minimal number of points: 3 (23 hours); maximal number of points: 6 (45 hours). During the semester for course „Clinical propedeutics" student has to attend to minimally 23 hours of lectures in order to collect the minimal number of points (3 points). Maximal number of points is 6, as attending to single lecture amounts 0,133 points (45 hours of lectures x 0,133 points = 6 points).
Practicals attendance	Minimal number of points: 8 (42 hours); maximal number of points:12 (60 hours). During the semester student has to attend to 21 practicals in order to collect the minimal number of points (8 points). Maximal number of points is 12, as attending to single practical amounts 0,4 points (30 practicals x 0,4 points = 12 points). For each practicals that the student did not attend to, 0,4 points is being deducted from maximal number of points. Each excused non-attendance within allowed maximum (20 hours ie. 30%) should be recompensed in agreement with the teacher that held the practicals (short knowledge test).
Active participation in practicals	Minimal number of points: 5; maximal number of points: 10.

	At the beginning of each practicals teacher conducts short knowledge test. Knowledge test consists of questions related to practicals to be held on that day (new material for which students should be prepared in advance) or check up of practicals that have already been held. During each practicals student has to perform a certain number of clinical procedures or examinations on animals which also adds points for active participation. The level of active participation is estimated by teacher and is noted in students personal records for each student.
Final exam	Final exam begins with short analysis of achieved results for each student and for each of four types of activities that continuous attendance of classes consists of. Questions in the final exam are oral and often at least in part answering the question requires the demonstration of practical work or clinical examination. Final exam consists of 6 theoretical and practical questions: minimal number of points 24; maximal number of points 40. Each question can maximally add 6,66 points to total score (grade 1 = 0 points; 2 = 4,0 points; 3 = 4,9 points; 4 = 5,8 points; 5 = 6,66 points). Students have to answer to each question with more than 51% of knowledge. One insufficient answer at any time in the course of exam is the cause of the end of exam with negative outcome.
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. Article 45: 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 positively answered by the student. Minimal number of points: 20; maximal number of points: 32. Each question can maximally add 6,4 points (grade 1 = 0 points; 2 = 4,0 bod points; 3 = 4,8 points; 4 = 5,6 points; 5 = 6,4 points). Colloquium (mid-term test) is held after 50% of practicals have been held. Colloquium will be held in the regular practicals time on 17 April 2019. Students have to answer to each question with more than 51% of knowledge. One insufficient answer at any time in the course of colloquium is the cause of the end of colloquium with negative outcome. The repetition of colloquium for students that havent passed the colloquium will be held on 9 May 2019 at 13.00 hours in front of Small animal examination rooms.
Final exams (dates)	10/6/2019 28/6/2019 12/7/2019 5/9/2019 19/9/2019
Form of final exam	Final exam begins with short analysis of achieved results for each student and for each of four types of activities that continuous attendance of classes consists of. Questions in the final exam are oral and often at least in part answering the question requires the demonstration of practical work or clinical examination. Final exam consists of 6 theoretical and practical questions: minimal number of points 24; maximal number of points 40. Each question can maximally add 6,66 points to total score (grade 1 = 0 points; 2 = 4,0 points; 3 = 4,9 points; 4 = 5,8 points; 5 =

6,66 points). Students have to answer to each question with more than 51% of knowledge. One insufficient answer at any time in the course of exam is the cause of the end of exam with negative outcome.

LITERATURE

Obligatory literature	Radostits, O., Mayhew, I., Houston, D. (2001): Veterinary clinical examination and diagnosis. Saunders, Philadelphia. Rijnberk, A., van Sluijs, F. J. (2009): Medical history and physical examination in companion animals. Saunders Elsevier, Houten.
Optional literature	Bexfield, N., Lee, K. (2010): BSAVA Guide to procedures in small animal practice. BSAVA, Quedgeley. Rockett, J., Bosted, S. (2016): Veterinary clinical procedures in large animal practice. Cengage Learning, Boston. Speirs, V. E., Wrigley, R. H. (1997): Clinical examination of horses. Saunders, Pennsylvania. Jackson, P. G. G., P. D. Cockroft (2002): Clinical examination of farm animals. Blackwell, Oxford. Aspinall, V., Aspinall, R. (2013): Clinical procedures in small animal veterinary practice. Saunders Elsevier, Edinburgh. Costa, L. R. R., Paradis, M. R. (2018): Clinical procedures in the horse. Willey Blackwell, New Delhi. Englar, R. E. (2017): Performing the small animal physical examination. Willey Blackwell, New York.

OBJECTIVES AND LEARNING OUTCOMES

Course objectives	The aim of this course is acquisition of basic knowledge and skills needed for performing clinical examination of large and small animals, creating a problem list and diagnostic plan, as well as to acquire the basic skills and abilities to use additional diagnostic methods and interpret laboratory and other diagnostic findings.
Learning outcomes	After the acquisition of knowledge and skills student is capable to perform clinical examination of large and small animals on its own, as well as to conduct basic additional diagnostic and therapeutic procedures during patient work-up. Knowledge and skills acquired in this subject prepare the student for clinical work in clinics enabling him/her for further upgrading and learning in clinical work.

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:

Jvaws Kir

Head of Department/Clinic:

Jvaws Kir

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

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

Type of activity	Minimum number of points	Maximum number of points
Lectures attendance	3	6
Seminar attendance	4	6
Practicals attendance	4	6
Active participation in seminars and practicals	5	10
Continuous knowledge checking (mid-terms)	20	32
Final exam	24	40
TOTAL	60	100

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

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

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

Type of activity	Minimum number of points	Maximum number of points
Seminar / practicals attendance	11	18
Active participation in seminars and practicals	5	10
Continuous knowledge checking (mid-terms)	20	32
Final exam	24	40
TOTAL	60	100