

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
 Register No of the organisational unit: 61-20
 Zagreb, 28/02/2023

3



160824	REPUBLIKA HRVATSKA	
Veterinarski fakultet u Zagrebu		
Primljeno:	28.02.2023	
Klasifikacijska oznaka	Org. jed.	
605-03/22-04/35	251-61-32;	
Urudžbeni broj	Prilozi	Vrijednost
251-61-20/361-23-85	0	-

COURSE SYLLABUS

Course name: Clinical propedeutics

Academic year 2022/2023

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 Gotić, PhD; Assist. Prof. Darko Grden, PhD; Assist. Prof. Iva Šmit, PhD

Associate teachers: postdoctoral assistant Ines Jović, PhD; teaching assistant Tea Dodig; teaching assistant Maša Efendić; teaching assistant Filip Kajić; Blanka Beer Ljubić, PhD; Gabrijele Jurkić Krsteska, PhD; Luka Ečimović, DVM; Ivana Filipčić, DVM; Neja Subašić, DVM; Miroslav Vlašić, DVM

First day of classes: 27/2/2023/

Last day of classes: 16/6/2023/

Timetable for LECTURES academic year 2022/2023

LECTURES				
Date	Methodological unit	Teacher	Location / Time	Literature
27/2/2023 1 st and 2 nd lecture	Handling the animals during clinical examination: Approach to different domestic animals: species differences in handling, restraint and necessary equipment	Full Prof. Damjan Gračner, PhD	Practical Hall Parasitology 8 am-10 am	(see bibliography)
28/2/2023 3 rd and 4 th lecture	Basic methods of physical examination: inspection, palpation, percussion and auscultation Complementary methods of physical examination	Full Prof. Nada Kučer, PhD	Practical Hall Parasitology 14 pm-16 pm	(see bibliography)
1/3/2023	Introduction of course leader	Assoc. Prof. Martina Crnogaj, PhD	Practical Hall Parasitology 8 am -8:35 am	(see bibliography)
1/3/2023 5 th and 6 th lecture	Order of physical examination procedures (plan according to species, history and suspected organ system involved) Signalment	Assoc. Prof. Ivana Kiš, PhD	Practical Hall Parasitology 8:30 am-10 am	(see bibliography)
2/3/2023 7 th lecture	Order of physical examination procedures. History taking techniques	Assoc. Prof. Mirna Brkljačić, PhD	Practical Hall Parasitology 10 am-11 am	(see bibliography)

CLINICAL PROPEDEUTICS

2/3/2023 8 th lecture	Habitus. Examples of taking medical records	Assoc. Prof. Martina Crnogaj, PhD	Practical Hall Parasitology 11 am-12 pm	(see bibliography)
6/3/2023 9 th and 10 th lecture	Temperature, heart rate, respiratory rate and ruminal contractions	Assoc. Prof. Marin Torti, PhD	Clinical Lecture Room 8 am-10 am	(see bibliography)
6/3/2023 11 th and 12 th lecture	Examination of mucous membranes and lymph nodes	Assist. Prof. Darko Grden, PhD	Practical Hall Parasitology 10 am-12 pm	(see bibliography)
7/3/2023 13 th and 14 th lecture	Examination of upper respiratory system. Cough. Thyroid gland. Examination of lower respiratory system. Thoracocentesis	Full Prof. Nada Kučer, PhD	Practical Hall Parasitology 10 am- 12 pm	(see bibliography)
7/3/2023 15 th lecture	Dyspnea, effusions, hypertension, hypotension and other symptoms, differential diagnostics and diagnostic plan	Full Prof. Vesna Matijatko, PhD	Practical Hall Parasitology 12 pm-13 pm	(see bibliography)
10/3/2023 16 th lecture	Blood collection and complete blood cell count	Full Prof. Vesna Matijatko, PhD	Lecture Room Physiology 10 am – 11 am	(see bibliography)
10/3/2023 17 th lecture	Chemistry profiles	Assoc. Prof. Martina Crnogaj, PhD	Lecture Room Physiology	(see bibliography)

CLINICAL PROPEDEUTICS

10/3/2023 18 th and 19 th lecture	Administration of medications in different domestic animal species	Assoc. Prof. Mirna Brkljačić, PhD	11 am – 12 pm Clinical Lecture Room 12 pm-14 pm	(see bibliography)
14/3/2023 20 st and 21 st lecture	Clinical examination of the heart, pericardiocentesis. Symptoms of heart disease and differential diagnostics	Full Prof. Vesna Matijatko, PhD	Practical Hall Parasitology 12 pm-14 pm	(see bibliography)
15/3/2023 22 nd and 23 rd lecture	Weight changes, anorexia, polyphagia, diarrhea and vomiting as symptoms of disease. Differential diagnostics, diagnostic plan	Assist. Prof. Iva Šmit, PhD	Practical Hall Parasitology 14 pm-16 pm	(see bibliography)
16/3/2023 24 th and 25 th lecture	ECG Examination of the heart: large animals	Assoc. Prof. Marin Torti, PhD	Clinical Lecture Room 8 am-10 am	(see bibliography)
16/3/2023 26 th lecture	Examination of blood vessels and exercise stress testing	Assoc. Prof. Marin Torti, PhD	Lecture room Physiology 10 am – 11 am	(see bibliography)
16/3/2023 27 th lecture	Examination of digestive tract: clinical signs Examination of oral cavity, mouth gags and their application	Assoc. Prof. Martina Crnogaj, PhD	Lecture room Physiology 11 am – 12 pm	(see bibliography)
20/3/2023 28 th lecture	Examination of esophagus and passing a stomach tube	Assoc. Prof. Martina Crnogaj, PhD	Lecture room Pharmacology	(see bibliography)

CLINICAL PROPEDEUTICS

			8 am - 9 am	
20/3/2023 29 th lecture	Examination of abdomen	Assist. Prof. Jelena Gotić, PhD	Lecture room Pharmacology 9 am - 10 am	(see bibliogra phy)
21/3/2023 30 th and 31 st lecture	Examination of rumen, reticulum and omasus. Examination of the liver Tests for anterior abdominal pain	Full Prof. Damjan Gračner, PhD	Clinical Lecture Room 14 am-16 am	(see bibliogra phy)
22/3/2023 32 nd lecture	Rectal examination	ass. prof. Jelena Gotić, PhD	Lecture room Pharmacology 8 am - 9 am	(see bibliogra phy)
22/3/2023 33 rd lecture	Urinary system: clinical signs 1	Assoc. Prof. Martina Crnogaj, PhD	Lecture room Pharmacology 9 am - 10 am	(see bibliogra phy)
23/3/2023 34 th lecture	Urinary system: clinical signs 2	Assist. Prof. Iva Šmit, PhD	Clinical Lecture Room 10 am-11 am	(see bibliogra phy)

CLINICAL PROPEDEUTICS

23/3/2023 35 th lecture	Examination of urinary system	Assoc. Prof. Marin Torti, PhD	Clinical Lecture Room 11 am-12 pm	(see bibliography)
24/3/2023 36 th lecture	Catheterisation and urinalysis	Assist. Prof. Iva Šmit, PhD	Clinical Lecture Room 12 pm-13 pm	(see bibliography)
24/3/2023 37 th lecture	Neurologic examination: introduction, postural reactions	Assoc. Prof. Ivana Kiš, PhD	Clinical Lecture Room 13 pm-14 pm	(see bibliography)
27/3/2023 38 th and 39 th lecture	Neurologic examination: spinal reflexes. Neurologic examination: cranial nerves, pain	Assoc. Prof. Ivana Kiš, PhD	Practical Hall Parasitology 10 am-12 pm	(see bibliography)
29/3/2023 40 th and 41 st lecture	Dermatologic propedeutics 1,2	Full Prof. Nikša Lemo, PhD	Practical Hall Parasitology 8 am-10 am	(see bibliography)
31/3/2023 42 nd lecture	Dermatologic propedeutics 3	Full Prof. Nikša Lemo, PhD	Lecture room Pharmacology 10 am - 11 am	(see bibliography)

CLINICAL PROPEDEUTICS

3/4/2023 43 rd and 44 th lecture	Small mammal clinical examination	Assoc. Prof. Mirna Brkljačić, PhD	Practical Hall Parasitology 14 am-16 am	(see bibliogra phy)
5/4/2023 45 th lecture	Creating a diagnostic plan: diagnostic procedures (example: PU/PD)	Assoc. Prof. Mirna Brkljačić, PhD	Clinical Lecture Room 9 am-10 am	(see bibliogra phy)

Timetable for PRACTICALS academic year 2022/2023

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical (Article 31. of Regulation)	Group	Location / time	Literature
1/3/2023 1 st practical	Approach to different domestic animals: species differences in handling, restraint and necessary equipment.	Full Prof. Damjan Gračner, PhD	SCP	3	Internal diseases 10 am-12 pm	(see bibliography)
2/3/2023 1 st practical	Approach to different domestic animals: species differences in handling, restraint and necessary equipment.	Full Prof. Damjan Gračner, PhD	SCP	1	Internal diseases 8 am -10 am	(see bibliography)
3/3/2023 1 st practical	Approach to different domestic animals: species differences in handling, restraint and necessary equipment.	Miroslav Vlašić, DVM	SCP	2	Internal diseases 8 am -10 am	(see bibliography)
7/3/2023 2 nd practical	Basic methods of physical examination: inspection, palpation, percussion and auscultation.	Full Prof. Nada Kučer, PhD	SCP	3	Internal diseases 14 pm – 16 pm	(see bibliography)
8/3/2023 2 nd practical	Basic methods of physical examination: inspection, palpation, percussion and auscultation with	Full Prof. Nada Kučer, PhD	SCP	2	Internal diseases 14 pm – 16 pm	(see bibliography)
9/3/2023	Basic methods of physical examination:	Gabrijela	SCP	1	Internal	(see

CLINICAL PROPEDEUTICS

2 nd practical	inspection, palpation, percussion and auscultation.	Jurkić Krsteska, PhD			diseases 8 am-10 am	bibliography)
9/3/2023 3 rd practical	Temperature, heart rate, respiratory rate. Examination of mucous membranes and lymph nodes. Dogs and cats	Ivana Filipčić, DVM	SCP	3	Internal diseases 8 am -10 am	(see bibliography)
10/3/2023 3 rd practical	Temperature, heart rate, respiratory rate. Examination of mucous membranes and lymph nodes. Dogs and cats	Ivana Filipčić, DVM	SCP	2	Internal diseases 14 pm -16 pm	(see bibliography)
13/3/2023 3 rd practical	Temperature, heart rate, respiratory rate. Examination of mucous membranes and lymph nodes. Dogs and cats	Ivana Filipčić, DVM	SCP	1	Internal diseases 8 am -10 am	(see bibliography)
13/3/2023 5 th practical	Temperature, heart rate, respiratory rate and ruminal contractions. Examination of mucous membranes and lymph nodes. Farm animals	Miroslav Vlašić, DVM	SCP	2	Internal diseases 14 pm -16 pm	(see bibliography)
14/3/2023 4 th practical	Temperature, heart rate, respiratory rate and ruminal contractions. Examination of mucous membranes and lymph nodes. Horse	teaching assistant Maša Efendić	SCP	3	Internal diseases 8 am -10 am	(see bibliography)
15/3/2023 4 th	Temperature, heart rate, respiratory rate and ruminal contractions. Examination of mucous membranes and	teaching assistant Maša Efendić	SCP	1	Internal diseases	(see bibliography)

CLINICAL PROPEDIUTICS

practical	lymph nodes. Horse				10 am -12 pm	
15/3/2023 5 th practical	Temperature, heart rate, respiratory rate and ruminal contractions. Examination of mucous membranes and lymph nodes. Farm animals	Assoc. Prof. Martina Crnogaj, PhD	SCP	3	Internal diseases 8 am -10 am	(see bibliography)
17/3/2023 4 th practical	Temperature, heart rate, respiratory rate and ruminal contractions. Examination of mucous membranes and lymph nodes. Horse animals	Miroslav Vlašić, DVM	SCP	2	Internal diseases 14 pm – 16 pm	(see bibliography)
20/3/2023 6 th practical	Heart examination by basic clinical methods and electrocardiography (ECG) Examination of peripheral circulation (arteries, venes and capillaries) Small animals	Full Prof. Vesna Matijatko, PhD	SCP	3	Internal diseases 14 pm – 16 pm	(see bibliography)
21/3/2023 5 th practical	Temperature, heart rate, respiratory rate and ruminal contractions. Examination of mucous membranes and lymph nodes. Farm animals	Gabrijela Jurkić Krsteska, PhD	SCP	1	Internal diseases 10 am – 12 pm	(see bibliography)
22/3/2023 6 th practical	Heart examination by basic clinical methods and electrocardiography (ECG) Examination of peripheral circulation (arteries, venes and capillaries) Small animals ultrasound. Small animals	Full Prof. Vesna Matijatko, PhD	SCP	2	Internal diseases 10 am – 12 pm	(see bibliography)
22/3/2023	Heart examination by basic clinical	postdoctoral	SCP	3	Internal	(see

CLINICAL PROPEDEUTICS

7 th practical	methods and electrocardiography (ECG) Examination of peripheral circulation (arteries, venes and capillaries) Large animals	assistant Ines Jović, PhD			diseases 10 am – 12 pm	bibliography)
23/3/2023 6 th practical	Heart examination by basic clinical methods and electrocardiography (ECG) Examination of peripheral circulation (arteries, venes and capillaries) Small animals	Full Prof. Vesna Matijatko, PhD	SCP	1	Internal diseases 8 am – 10 am	(see bibliography)
23/3/2023 7 th practical	Heart examination by basic clinical methods and electrocardiography (ECG) Examination of peripheral circulation (arteries, venes and capillaries) Large animals	postdoctoral assistant Ines Jović PhD	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)
27/3/2023 7 th practical	Heart examination by basic clinical methods and electrocardiography (ECG) Examination of peripheral circulation (arteries, venes and capillaries) Large animals	postdoctoral assistant Ines Jović, PhD	SCP	1	Internal diseases 14 pm – 16 pm	(see bibliography)
28/3/2023 8 th practical	Blood pressure measurement in domestic animals and repetition	teaching assistant Tea Dodig	SCP	3	Internal diseases 8 am – 10 am	(see bibliography)
28/3/2023 8 th practical	Blood pressure measurement in domestic animals and repetition	Miroslav Vlašić, DVM	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)

CLINICAL PROPEDEUTICS

3/4/2023						
8 th practical	Blood pressure measurement in domestic animals and repetition	teaching assistant Tea Dodig	SCP	1	Internal diseases 8 am – 10 am	(see bibliography)
4/4/2023	Examination of upper respiratory system (nose, larynx, trachea). Examination of thorax by basic methods of clinical examination. Thoracocentesis. Small animals	Full Prof. Nada Kučer, PhD	SCP	3	Internal diseases 14 pm – 16 pm	(see bibliography)
5/4/2023	Examination of upper respiratory system (nose, larynx, trachea). Examination of thorax by basic methods of clinical examination. Thoracocentesis. Small animals	Full Prof. Nada Kučer, PhD	SCP	2	Internal diseases 14 pm – 16 pm	(see bibliography)
11/4/2023	Examination of upper respiratory system (nose, larynx, trachea). Examination of thorax by basic methods of clinical examination. Thoracocentesis. Small animals	Full Prof. Nada Kučer, PhD	SCP	1	Internal diseases 12 pm – 14 pm	(see bibliography)
12/4/2023	Examination of upper respiratory system (nose, larynx, trachea). Examination of thorax by basic methods of clinical examination. Thyroid gland. Large animals	teaching assistant Tea Dodig	SCP	3	Internal diseases 8 am – 10 am	(see bibliography)
14/4/2023	Dermatologic propedeutics	Nejra Subašić, DVM	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)

CLINICAL PROPEDEUTICS

17/4/2023 10 th practical	Examination of upper respiratory system (nose, larynx, trachea). Examination of thorax by basic methods of clinical examination. Thyroid gland. Large animals	Nejra Subašić, DVM	SCP	1	Internal diseases 14 am – 16 am	(see bibliography)
18/4/2023 10 th practical	Examination of upper respiratory system (nose, larynx, trachea). Examination of thorax by basic methods of clinical examination. Thyroid gland. Large animals	Miroslav Vlašić, DVM	SCP	2	Internal diseases 12 pm – 14 pm	(see bibliography)
18/4/2023 11 th practical	Dermatologic propedeutics	Nejra Subašić, DVM	SCP	3	Internal diseases 12 pm – 14 pm	(see bibliography)
24/4/2023 11 th practical	Dermatologic propedeutics	Nejra Subašić, DVM	SCP	1	Internal diseases 8 am – 10 am	(see bibliography)
26/4/2023 12 th practical	Repetition, preparation for the colloquium.	teaching assistant Tea Dodig	SCP	3	Internal diseases 12 pm – 14 pm	(see bibliography)
26/4/2023 12 th practical	Repetition, preparation for the colloquium.	Gabrijela Jurkić Krsteska, PhD	SCP	1	Internal diseases 12 pm – 14 pm	(see bibliography)
27/4/2023	Repetition, preparation for the colloquium.	teaching assistant Filip	SCP	2	Internal diseases	(see bibliography)

CLINICAL PROTOBUTICS

12 th practical		Kajin			8 am - 10 am)
27/4/2023 13 th practical	Colloquium.	Assoc. Prof. Martina Crnogaj, PhD	SCP	3	Internal diseases 8 am - 10 am	(see bibliography)
28/4/2023 13 th practical	Colloquium.	Assoc. Prof. Mirna Brkljačić, PhD	SCP	1	Internal diseases 12 pm – 14 pm	(see bibliography)
28/4/2023 13 th practical	Colloquium.	Assist. Prof. Iva Šmit, PhD	SCP	2	Internal diseases 14 pm - 16 pm	(see bibliography)
3/5/2023 14 th practical	Examination of digestive system upper and lower. (Abdominocentesis, abdominal ultrasound, rectal examination, endoscopy, Stomach tube). Small animal	Assist. Prof. Iva Šmit, PhD	SCP	2	Internal diseases 12 pm – 14 pm	(see bibliography)
3/5/2023 14 th practical	Examination of digestive system upper and lower. (Abdominocentesis, abdominal ultrasound, rectal examination, endoscopy, Stomach tube). Small animal	Assist. Prof. Iva Šmit, PhD	SCP	1	Internal diseases 14 pm – 16 pm	(see bibliography)
3/5/2023	Examination of digestive system upper and lower. (Abdominocentesis,	Assist. Prof.	SCP	3	Internal diseases	(see bibliography

CLINICAL PROPEDEUTICS

15 th practical	abdominal ultrasound, rectal examination, endoscopy, Stomach tube). Horse	Jelena Gotić, PhD			14 pm – 16 pm)
8/5/2023 14 th practical	Examination of digestive system upper and lower. (Abdominocentesis, abdominal ultrasound, rectal examination, endoscopy, Stomach tube). Small animal	Assoc. Prof. Martina Crnogaj, PhD	SCP	3	Internal diseases 10 am – 12 pm	(see bibliography)
8/5/2023 15 th practical	Examination of digestive system upper and lower. (Abdominocentesis, abdominal ultrasound, rectal examination, endoscopy, Stomach tube). Horse	Assist. Prof. Jelena Gotić, PhD	SCP	1	Internal diseases 10 am – 12 pm	(see bibliography)
11/5/2023 16 th practical	Examination of digestive system Farm animal	Full Prof. Damjan Gračner, PhD	SCP	2	Internal diseases 10 am – 12 pm	(see bibliography)
15/5/2023 16 th practical	Examination of digestive system Farm animal	Full Prof. Damjan Gračner, PhD	SCP	1	Internal diseases 8 am – 10 am	(see bibliography)
15/5/2023 15 th practical	Examination of digestive system upper and lower. (Abdominocentesis, abdominal ultrasound, rectal examination, endoscopy, Stomach	Assist. Prof. Jelena Gotić, PhD	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)

CLINICAL PROPEDEUTICS

	tube). Horse					
17/5/2023 17 th practical	Examination of urinary tract. Catheterisation Interpretation of urinalysis. Small animals	Assoc. Prof. Martina Crnogaj, PhD	SCP	1	Internal diseases 16 pm – 18 pm	(see bibliography)
17/5/2023 18 th practical	Examination of urinary tract. Catheterisation Interpretation of urinalysis. Large animals	teaching assistant Maša Efendić	SCP	3	Internal diseases 16 pm – 18 pm	(see bibliography)
19/5/2023 16 th practical	Examination of digestive system. Farm animal	Full Prof. Damjan Gračner, PhD	SCP	3	Internal diseases 8 am – 10 am	(see bibliography)
19/5/2023 17 th practical	Examination of urinary tract. Catheterisation Interpretation of urinalysis. Small animals	Assoc. Prof. Martina Crnogaj, PhD	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)
23/5/2023 18 th practical	Examination of urinary tract. Catheterisation. Interpretation of urinalysis. Large animals	teaching assistant Maša Efendić	SCP	2	Internal diseases 12 pm – 14 pm	(see bibliography)
23/5/2023 17 th practical	Examination of urinary tract. Catheterisation. Interpretation of urinalysis. Small animals	Assist. Prof. Iva Šmit, PhD	SCP	3	Internal diseases 12 pm – 14 pm	(see bibliography)

CLINICAL PROPEDEUTICS

23/5/2023 18 th practical	Examination of urinary tract. Catheterisation. Interpretation of urinalysis. Large animals	teaching assistant Maša Efendić	SCP	1	Internal diseases 14 pm – 16 pm	(see bibliography)
23/5/2023 19 th practical	Neurologic propedeutics part 1	Assoc. Prof. Ivana Kiš, PhD	SCP	3	Internal diseases 14 pm – 16 pm	(see bibliography)
25/5/2023 19 th practical	Neurologic propedeutics part 1	Assoc. Prof. Ivana Kiš, PhD	SCP	1	Internal diseases 8 am – 10 am	(see bibliography)
25/5/2023 21 st practical	Repetition Clinical examination. Writing of clinical report.	Assoc. Prof. Mirna Brkljačić, PhD	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)
31/5/2023 20 th practical	Neurologic propedeutics part 2	teaching assistant Filip Kajin	SCP	1	Internal diseases 14 pm – 16 pm	(see bibliography)
1/6/2023 19 th practical	Neurologic propedeutics part 1	teaching assistant Filip Kajin	SCP	2	Internal diseases 14 pm – 16 pm	(see bibliography)
1/6/2023	Neurologic propedeutics part 2	Assoc. Prof.	SCP	3	Internal	(see

CLINICAL PROPEDEUTICS

20 th practical		Ivana Kiš, PhD			diseases 14 pm – 16 pm	bibliography)
2/6/2023 21 st practical	Repetition Clinical examination. Writing of clinical report.	Assoc. Prof. Mirna Brkljačić, PhD	SCP	3	Internal diseases 10 am – 12 pm	(see bibliography)
2/6/2023 20 th practical	Neurologic propedeutics part 2	teaching assistant Filip Kajin	SCP	2	Internal diseases 12 pm – 14 pm	see bibliography)
2/6/2023 21 st practical	Repetition Clinical examination. Writing of clinical report.	teaching assistant Tea Dodig	SCP	1	Internal diseases 14 pm – 16 pm	see bibliography)
5/6/2023 28 th , 29 th , 30 th practical	Field course Farm animal Writing of clinical report.	Assist. Prof. Darko Grden, PhD	SCP	1	Field 10 am – 16 pm	(see bibliography)
5/6/2023 22 nd practical	Repetition/ Clinical examination horse. Writing of clinical report. Horse	Assist. Prof. Jelena Gotić, PhD	SCP	2	Internal diseases 10 am – 12 pm	(see bibliography)
5/6/2023 22 nd	Repetition/ Clinical examination horse. Writing of clinical report. Horse	Assist. Prof. Jelena Gotić, PhD	SCP	3	internal diseases	(see bibliography)

CLINICAL PROPEDEUTICS

practical					12 pm – 14 pm	
6/6/2023 28 th , 29 th , 30 th practical	Field course Farm animal Writing of clinical report.	Assist. Prof. Darko Grden, PhD	SCP	2	Field 10 am – 16 pm	(see bibliography)
6/6/2023 24 th practical	Introduction to laboratory diagnostics	Blanka Beer Ljubić, PhD	SCP	3	Internal diseases 10 am – 12 pm	(see bibliography)
6/6/2023 22 nd practical	Repetition/ Clinical examination horse. Writing of clinical report. Horse	Assist. Prof. Jelena Gotić, PhD	SCP	1	Internal diseases 12 pm – 14 pm	(see bibliography)
7/6/2023 25 th practical	Examination of small mammals	Gabrijela Jurkić Krsteska, PhD	SCP	3	Internal diseases 8 am – 10 am	(see bibliography)
7/6/2023 23 rd practical	Administration of medications in different domestic animal species (routes of administration, systemic and topical medications). Venipuncture	Assoc. Prof. Mirna Brkljačić, PhD	SCP	1	Internal diseases 8 am – 10 am	(see bibliography)
7/6/2023 23 rd practical	Administration of medications in different domestic animal species (routes of administration, systemic and topical medications). Venipuncture	Full Prof. Vesna Matijatko, PhD	SCP	2	Internal diseases 14 pm – 16 pm	(see bibliography)

CLINICAL PROPEDEUTICS

7/6/2023			SCP	1	Internal diseases	(see bibliography)
24 th practical	Introduction to laboratory diagnostics	Blanka Beer Ljubić, PhD			14 pm – 16 pm	
12/6/2023			SCP	1	Internal diseases	(see bibliography)
25 th practical	Examination of small mammals	Assoc. Prof. Mirna Brkljačić, PhD			8 am – 10 am	
12/6/2023			SCP	3	Internal diseases	(see bibliography)
23 rd practical	Administration of medications in different domestic animal species (routes of administration, systemic and topical medications). Venipuncture	Nejra Subašić, DVM			8 am – 10 am	
12/6/2023			SCP	2	Internal diseases	(see bibliography)
25 th practical	Examination of small mammals	Gabrijela Jurkić Krsteska, PhD			12 pm – 14 pm	
13/6/2023			SCP	2	Internal diseases	(see bibliography)
24 th practical	Introduction to laboratory diagnostics	Luka Ečimović, DVM			10 am – 12 pm	
13/6/2023			SCP	1	Internal diseases	(see bibliography)
26 th practical	Repetition Clinical examination Writing of clinical report. Small animals	Assoc. Prof. Ivana Kiš, PhD			12 pm – 14 pm	
13/6/2023	Field course	Assist. Prof.	SCP	3	Field	(see

CLINICAL PROPEDEUTICS

28 th , 29 th , 30 th practical	Farm animal Writing of clinical report.	Darko Grden, PhD			10 am – 16 pm	bibliography
14/6/2023 26 th practical	Repetition Clinical examination Writing of clinical report. Small animals	postdoctoral assistant Ines Jović, PhD	SCP	3	Internal diseases 8 am – 10 am	(see bibliography)
14/6/2023 27 th practical	Repetition, preparation for the exam.	postdoctoral assistant Ines Jović, PhD	SCP	1	Internal diseases 10 am – 12 pm	see bibliography
14/6/2023 26 th practical	Repetition Clinical examination Writing of clinical report. Small animals	Assist. Prof. Iva Šmit, PhD	SCP	2	Internal diseases 10 am – 12 pm	(see bibliography)
16/6/2023 27 th practical	Repetition, preparation for the exam.	teaching assistant Filip Kajin	SCP	3	Internal diseases 8 am – 10 am	(see bibliography)
16/6/2023 27 th practical	Repetition, preparation for the exam.	Assoc. Prof. Ivana Kiš, PhD	SCP	2	Internal diseases 8 am – 10 am	(see bibliography)

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 (48 hours, 80%); maximal number of points: 12 (60 hours). During the semester for the course „Clinical propedeutics“ the student must be present at 24 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 practical is 0,4 points). Each excused absence within allowed maximum (12 hours, 20%) 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 teacher performs 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 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. Maximum number of points: 40.

CLINICAL PROPEDEUTICS

	Minimum number of points: 24
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. Article 41: a student can justifiably be absent from up to 50 % of the lectures; 20% of the seminars and 20 % 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 27 th and 18 th April 2023 in scheduled time for practicals. Students are expected to answer to each question with more than 51% of content. One insufficient answer in 5 questions will lead to negative colloquium outcome.
Final exams (dates)	21/3/2023 25/4/2023 27/6/2023 12/7/2023 6/9/2023 20/9/2023
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.
-----------------------	--

CLINICAL PROPEDEUTICS

	RIJNBERK, A., F. J. VAN SLUIJS (2009): Medical history and physical examination in companion animals. 2nd ed., Saunders Elsevier, Houten.
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 & 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>

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.</p>
-------------------	---

CLINICAL PROPEDEUTICS

Learning outcomes	<p>After successfully completing the course, the student will be able to:</p> <ol style="list-style-type: none">1. Students shall be able to take adequate disease history.2. Students will be able to make clinical examination3. Students will have adequate knowledge for basic differential diagnostics of most common clinical problems.4. Students shall be able to perform additional clinical examinations (depending of the organ system involved).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)
-------------------	--

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

McGrogan

Head of organizational unit:

Smit

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