

UNIVERSITY OF ZAGREB
FACULTY OF VETERINARY MEDICINE
Heinzelova 55
Tel. 01/
Division:
Department / Clinic
Email:
Register no.:
File no.:
Zagreb,

COURSE SYLLABUS

Course name:

Academic year 2018-19

Course leader Prof. Mirna Robić, PhD

Teachers: Prof. Nina Poljičak Milas, PhD, Prof. Romana Turk, PhD, Prof. Maja Belić, PhD

Associate teachers: Prof. David Eckersall, PhD

First day of classes: 19. November 2018.

Last day of classes:

Timetable for LECTURES academic year 2018-2019

LECTURES				
Date	Methodological unit	Teacher	Location / time	Literature
19.11.	Lecture: Pathophysiology of endocrinopathies	Prof. Nina Poljičak Milas	10-12 Computer Hall, Department of Pathophysiology	
26.11	Lecture: Pathophysiology of endocrinopathies	Prof. Nina Poljičak Milas	8-10 Computer Hall, Department of Pathophysiology	
29.11.	Lecture: Pathophysiology of inflammation and repair	Prof. Mirna Robić	14-16 Computer Hall, Department of Pathophysiology	
4.12	Lecture: Disturbances in acido-base balance	Prof. Romana Turk	13-15 lecture room Department of Pharmacology and Toxicology	
6.12	Lecture: Disorders of cell growth and pathophysiology of neoplasmas	Prof. Mirna Robić	11-13 lecture room Department of Pharmacology and Toxicology	
7.12.	Lecture: Pathophysiology of CNS diseases	Prof. Maja Belić	14-15 Computer Hall Department of Pathophysiology	

Timetable for SEMINARS academic year 2018-2019

SEMINARS					
Date	Methodological unit	Teacher	Group	Location / time	Literature
30.11	Seminar: Pathophysiology of vitamines and minerals deficiency and sufficiency	Prof. Maja Belić		8-10 Computer Hall, Department of Pathophysiology	
5.12	Seminar: Oxidative stress and antioxidative protection	Prof. Romana Turk		8-10 Computer Hall Department of Pathophysiology	

Timetable for PRACTICALS academic year 2018-2019

PRACTICALS						
Date	Methodological unit	Teacher	Type of practical	Group	Location / time	Literature
20.11.	Practicals – introduction In absorption spectrophotometry	Prof. Maja Belić	laboratory		15-17 Practical Hall, Department of Pathophysiology	
22.11.	Practicals – Total protein levels in blood	Prof. Mirna Robić	laboratory		11-13 Practical Hall, Department of Pathophysiology	
23.11.	Practicals – Acute phase proteins	Prof. David Eckersall	laboratory		12-14 Practical Hall, Department of Pathophysiology	
30.11.	Practicals: Determination of blood glucose	Prof. Romana Turk	laboratory		12-14 practical hall Department of Pathophysiology	

3.12.	Practicals: short exam	Prof. Mirna Robić	Short exam		14-16 practical hall Department of Pathophysiology	

STUDENT OBLIGATIONS

Lecture attendance	Maximal number of points – 6 Minimal number of points– 3 (one hour of lectures is 0.545 points) During the course of Pathophysiology I student must attend minimum of six hours of lectures to achieve minimal e3 points. Maximal number of points is achieved if student attends all of 11 hours of lectures. For each excused absence student gains back 0,545 points per hour of lecture..
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Seminars attendance	<p>Maximal number of points - 6 Minimal numbers of points -4 (each seminar hour is 1.5 points) Student must attend minimum two hours of seminars. Each excused absence in approved limits (two hours) students can make up in agreement with seminar leader in written form and the points for attendance will be given back..</p>
Practicals attendance	<p>Maximal number of points -6 Minimal numbers of points -4 (each hour of practice is 0.6 points) Student must be present at minimum of seven hours of practicals to achieve minimal 4 points. Each excused absence within approved limits (three hours) students can make up in agreement with practicals leader. After successful made up student achieves 0.6 points for hour.</p>
Active participation in seminars and practicals	<p>Maximal number of points -10 Minimal number of points – 5 At the beginning of each practicals leader conducts short knowledge checking. Students preparation for practicals is checked. For each student minimal five knowledge checking will be performed, each time student can gain maximum two points..</p>
Final exam	<p>For final exam attendance student must gain minimal 16 points from attendance and active participation on lectures and practicals and minimum of 20 points from continuous knowledge checking. Exam will be in written form.</p>
Examination requirements	<p>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.</p>

GRADING AND EVALUATING STUDENT WORK

Continuous knowledge-checking (mid-terms)	3./12.2019.
Final exams (dates)	11/1 2019; 1./2. 2019; 15/2 2019.
Form of final exam	written

LITERATURE

Obligatory literature	David O. Slauson, Barry J. Cooper (1982., 1999.): Mechanisms of Disease. Mosby. Steven L. Stockham and Michael A. Scott (2008.): Fundamentals of Veterinary Clinical Pathology. Blackwell Publishing. Mary Anna Thrall (2004.): Veterinary Hematology and Clinical Chemistry. Lippincott Williams & Wilkins. J. Kaneko (1980., 2008.): Clinical Biochemistry of Domestic Animals
Optional literature	Stjepan Gamulin Matko Marušić, Zdenko Kovač i sur. (1988., 2002., 2011.): Patofiziologija. Medicinska naklada, Zagreb.

	<p>Tatjana Božić (2007., 2012.): Patološka fiziologija domaćih životinja. Naučna KMD, Beograd.</p> <p>Romana Turk (2005.): Vježbe iz patofiziologije - biokemijski dio (interna skripta).</p> <p>Nina Poljičak Milas: Patofiziologija poremećaja žjelzdi s unutarnjim lučenjem, web predavanje</p> <p>Mirna Robić: Patofiziologija upale, bolesti deficit I suficita vitamin, web predavanje</p>
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OBJECTIVES AND LEARNING OUTCOMES

Course objectives	<p>During the course of Pathophysiology I students achieve knowledge on basic pathophysiological processes on cellular and tissue level during homeostatic disturbances in organism. Therefore the basis for better understanding disturbances in particular organs and organic system is achieved for understanding the course of Pathophysiology II..</p> <p>During practical part of the course students gain skills in performing basic biochemical laboratory analyses, choosing the correct method and proper interpretation of achieved results.</p>
Learning outcomes	<p>After succesfull Pathophysiology I mastering, student will be able to define the terms health and disease, describe endocrinopathies, describe bioactive substances and their role in pathophysiolgy, describe disturbances in neural system function, master biological samples handling, determine serum protein, glucose and lipid concentrations and interpret the results</p>

GRADING SCHEME

<i>Points</i>	<i>Grade</i>
Up to 59	1 (F)
60-68	2 (E)
69-76	2 (D)
77-84	3 (C)
85-92	4 (B)
93-100	5 (A)

Course leader:

Head of Department/Clinic:

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

**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