



The Hebrew University of Jerusalem

Syllabus

SYSTEMIC PATHOLOGY(A) - 65717

Last update 09-12-2023

HU Credits: 3

Degree/Cycle: 2nd degree (Master)

Responsible Department: Veterinary Medicine

Academic year: 0

Semester: 1st Semester

Teaching Languages: Hebrew

Campus: Rehovot

Course/Module Coordinator: Dr. Kobi Aharoni

Coordinator Email: Kobi.aharoni@mail.huji.ac.il

Coordinator Office Hours: By appointment

Teaching Staff:

Prof Shmuel Perl,
Dr. KOBI AHARONI,
Dr. LIONEL SEBBAG

Course/Module description:

The course in systemic pathology is divided into both semesters of the second year, so that for each anatomical system of the body, 1-3 lectures are dedicated. During the course, we will describe the major pathological conditions specific for each system- the etiologic background, pathophysiology, common gross and histologic lesions and their outcomes.

Course/Module aims:

To integrate the information included in the general pathology course, for better understanding of the clinical entities typical for different anatomical organ systems. For each system, the macroscopic and microscopic typical anatomical-pathological lesions of prevalent diseases in domesticated animals (including farm and pet species), will be demonstrated. These lesions will also be followed by their pathophysiologic counterparts.

Learning outcomes - On successful completion of this module, students should be able to:

1. Understanding the pathological basis of common clinical diseases in domesticated animals.
2. Bridging between the knowledge obtained in preclinical courses (e.g., Anatomy, Physiology, and Histology) and the knowledge learned in clinical courses. Sound pathologic base is crucial for better understanding clinical aspects of diseases, such as diagnosis, prevention, prognosis and treatment.
3. Acquiring basic techniques for performing a necropsy, while applying theoretical pathological knowledge previously learned.
4. Understanding how to read and interpret necropsy and histopathology reports.

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Teaching methods include frontal lectures and necropsy labs. During the labs, groups of 8-9 students will perform necropsies under the supervision of a pathologist.

Course/Module Content:

The following organ systems will be included in each course:

Semester A - nervous system, skeletal muscles, the eye, urinary system, hepatobiliary system, cardiovascular system, digestive system and exocrine pancreas.

Semester B - hemolymphatic system, respiratory system, the integument, endocrine system, reproductive system, skeletal system and forensic pathology.

Required Reading:

- Lectures (Moodle)*
- Necropsy protocol and video*
- Relevant chapters: Pathologic basis of veterinary disease by James F. Zachary*

Additional Reading Material:

Pathology of domestic animals by Jubb, Kennedy and Palmer
Pathophysiologic basis of disease by Robbins and Cotran
Tumors in domestic animals by Donald J. Meuten

Grading Scheme:

Written / Oral / Practical Exam 100 %

Additional information:

Attendance at the necropsy lab during the semester, is mandatory for successfully passing the course. The test will be held in the computer classrooms of the campus university. It will include multiple choice questions, with possible pictures and diagrams.

Changes in the manner of conducting the test (e.g., location and date) are possible due to the corona pandemic, and will take place in accordance with the guidelines of the university.

Video records of lessons will be available for students, at a date decided by the school management and according to the school policy.

Attendance policy: online registration via Moodle, with possible manual checks according to school policy.