Course Unit Descriptor

Study Programme: Veterinary medicine

Course unit title: Laboratory diagnostics of internal disease in animals

Course Unit Code: 3ДВМ3И37

Name of Lecturer(s): Branislava Belić, Marko Cincović

Type and Level of Studies: Doctoral studies

Course Status (compulsory/elective): Elective

Semester (winter/summer): winter

Language of instruction: English

Mode of course unit delivery (face-to-face/distance learning): Face to face

Number of ECTS Allocated:8

Prerequisites: None

Course Aims:
The goal of this course is that students learn the indications for use of laboratory methods of diagnosis and interpretation of pathophysiological and biochemical analysis

Learning Outcomes:
After passing the exam, students will be able to perform the most important diseases using diagnostic laboratory tests and analyzes.

Syllabus:
A complete blood - diagnosis of leukemia, anemia and thrombocytopathia
Laboratory diagnosis of metabolic disorders liquids
Laboratory diagnosis of disorders of acid-base balance
Laboratory diagnosis of respiratory disorders
Laboratory diagnosis of cardiovascular disorders and ECG diagnosis
Laboratory diagnosis of alimentary disorders mono tube and ruminant Laboratory diagnosis of hepatic dysfunction and pancreas Laboratory diagnosis of disorders of kidney and urinary tract
Laboratory diagnosis of endocrine system disorders Laboratory diagnosis of central nervous system disorders
Laboratory diagnosis of diseases of bone and joint system
Laboratory diagnosis of inflammatory and paraneoplastic syndromes
Laboratory diagnosis of disorders of protein metabolism with emphasis on enzymopathy
Laboratory diagnosis of disorders of fat metabolism
Laboratory diagnosis of disorders of carbohydrate metabolism

Required Reading:
1. Belić B., Cincović M.R.: Praktikum iz patološke fiziologije. Novi Sad, 2012.
2. Dunlo, R. H., C. H. Malbert: Vetrinary Pathophysiology, Blackwell, UK, 2004.
3. Davies C., L. Shell. Common Small Animal Diagnoses: An Algorithmic Approach. W. B. Saunders Company, Philadelphia, 2002.
4. Willard M. D., H. Tvedten, G. H. Turnwald. Small animal clinical diagnosis by laboratory methods. W. B. Saunders Company, Philadelphia, 1999.
5. Kaneko. J. J.: Clinical Biochemistry of Domestic Animals, Academic Press, Inc. San Diego, 1997.

Original and review papers from journals and proceedings

Weekly Contact Hours:	**Lectures: 45**	**Practical work: 45**

Teaching Methods:
Oral presentations using audio-visual techniques, written communication - Seminars;
Practical field work and laboratory analysis and case studies.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation	10	oral exam	50
Practical work	10		
Preliminary exam(s)	30	…….	
Seminar(s)			

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.