

Course Unit Descriptor

<b>Study Programme:</b> Veterinary medicine			
<b>Course Unit Title:</b> Clinical hematology and biochemistry of farm animals and horses			
<b>Course Unit Code:</b> 3IVM11O66			
<b>Name of Lecturer(s):</b> Branislava Belić, Marko Cincović			
<b>Type and Level of Studies:</b> Undergraduate Academic Studies			
<b>Course Status (compulsory/elective):</b> compulsory			
<b>Semester (winter/summer):</b> winter			
<b>Language of instruction:</b> English			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face to face			
<b>Number of ECTS</b> 2			
<b>Prerequisites:</b> Clinical hematology and biochemistry of farm animals and horses			
<b>Course Aims:</b> The aim of this course is that student acquire: 1) knowledge of hematological and biochemical signs of major health problems in farm animals and horses, 2) skills of applying basic laboratory methods in clinical hematology and biochemistry, 3) ability to perform diagnosis and differential diagnosis using hematological and biochemical laboratory findings.			
<b>Learning Outcomes:</b> When student masters and pass the exam will be able to: 1) define and describe the hematological and biochemical findings in various diseases of farm animals and horses, 2) connect and explain the relationship between biochemical and haematological disorders and the existence of various diseases, 3) recognize and evaluate pathognomonic laboratory findings, 4) implement the most important laboratory technique in the the diagnostic process, 5) evaluate the the results obtained from laboratory analysis, 6) make judgments about the existence of complications and outcome of the disease.			
<b>Syllabus:</b> <i>theory</i> Clinical hematology and biochemistry - hematology and biochemical markers in the diagnosis of major disorders of homeostasis, diseases of digestive organs, respiratory diseases, cardiovascular diseases, diseases of the urinary organs, endocrine diseases, diseases of the nervous system, diseases of the musculoskeletal system of animals. Hematologic and biochemical signs in the assessment of well-being, stress and quality of food in farm animals and horses. <i>Practical teaching:</i> Laboratory determination of the main hematological and biochemical markers in the diagnosis of major disorders of homeostasis, diseases of digestive organs, respiratory diseases, cardiovascular diseases, diseases of the urinary organs, endocrine diseases, diseases of the nervous system, diseases of the musculoskeletal system of animals. Case studies and clinical examples			
<b>Required Reading:</b> Latimer K:S. (2011) Duncan and Praces veterinary laboratory medicine – clinical pathology, Willey-Blackwell Thrall M.A., Weiser G., Allison G., Campbell T. (2012), Veterinary hematology and clinical chemistry, Willey-Blackwell			
<b>Weekly Contact Hours:</b>	<b>Lectures: 1</b>	<b>Practical work: 1</b>	
<b>Teaching Methods:</b> Lectures, Practice/ Practical classes, Consultations, study, research work			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	5	written exam	70
Practical work	20	oral exam	
Preliminary exam(s)	5	.....	
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.			