

Course Unit Descriptor

Study Programme: Veterinary medicine			
Course Unit Title: Clinical veterinary toxicology			
Course Unit Code: 3DVM4I55			
Name of Lecturer(s): Full professor Stojanović M. Dragica			
Type and Level of Studies: doctoral studies			
Course Status (compulsory/elective): elective			
Semester (winter/summer): 6			
Language of instruction: English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 8			
Prerequisites: Scientific research methods, Biostatistics, Courses of elective blocks 1 and 2			
<p>Course Aims:</p> <p>The aim of this course is to provide students the latest scientific and technical knowledge of the possibilities of contamination of animals and humans to pesticides (insecticides, herbicides, rodenticides, fungicides, molluscids), drugs, chemical substances of animal feed, industrial chemicals, metals and minerals, toxic plants and their active principles, toxins derived from animals and others; their toxicokinetics, mechanism of action, the degree of toxicity of the various types of domestic and wild animals and the risk of intoxication. Also, the aim of the course is to train students to recognize the clinical symptoms of poisoning, and set up a diagnosis of poisoning using biochemical and hematological, chemical and toxicological findings of blood, urine, feces, milk, food, or water content of the digestive system and the organs or parts of bodies of dead animals. The main aim of the course is to teach students to apply the appropriate specific or non-specific therapy for the majority of toxicants which animals are exposed.</p>			
<p>Learning Outcomes:</p> <p>The course outcome is training students knowledge of prevention methods and treatment of poisoning.</p>			
<p>Syllabus:</p> <p><i>Theory</i></p> <p>Toxicokinetics of xenobiotics, the effect of toxic substances (biotoxins, pesticides, pharmaceuticals, industrial chemicals, animal feed additives, metals and minerals, herbs, etc.) and their effects on cardiovascular system and blood, gastrointestinal, hepatobiliary, nervous system, reproductive, respiratory, urinary, muscular-skeletal, endocrine system, skin and mucous membranes. Effects of toxins on each of these organ systems include: mechanism of action, toxicity and risk factors for animals and humans, clinical image of poisoning, changes in biochemical parameters of blood and animal excrement, blood, pathomorphological and histological differential diagnosis, setting the final poisoning diagnosis, treatment, prognosis and prevention of poisoning.</p> <p><i>Practice</i></p> <p>Organotoxicology. Mechanisms of action poison. Methods for diagnosing poisoning and substance toxicity.</p>			
<p>Required Reading:</p> <ol style="list-style-type: none"> 1. Clinical veterinary toxicology, Plumlee, H. K., Mosby, 2004. 2. Small animal toxicology and poisonings, Roger Gfeller W., Shawn Messonnier P., Mosby Inc., 2003. 			
Weekly Contact Hours:	Lectures: 4	Practical work: 4	
<p>Teaching Methods:</p> <p>Oral presentation with video beam presentation. Students prepare term paper and oral expose it with public comment.</p>			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points

Active class participation		written exam	30
Practical work		oral exam	70
Preliminary exam(s)		
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.			