

Course Unit Descriptor

<b>Study Programme:</b> Veterinary Medicine			
<b>Course Unit Title:</b> Immunity and Infection			
<b>Course Unit Code:</b> 3DVM2I25			
<b>Name of Lecturer(s):</b> Dragan R. Rogan, Aleksandar S. Potkonjak			
<b>Type and Level of Studies:</b> Doctoral academic studies			
<b>Course Status (compulsory/elective):</b> elective			
<b>Semester (winter/summer):</b> summer			
<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 Allocated:</b> 6			
<b>Prerequisites:</b> Scientific research methods			
<b>Course Aims:</b> The Course Immunity and Infection is designed for those students who wish to increase their knowledge and understanding of infectious diseases, infection control and the functioning of the immune system.			
<b>Learning Outcomes:</b> After completion of this course, students will be able to effectively participate in future veterinary health care or research programs in infection and immunity.			
<b>Syllabus:</b> <i>Evolution of the Immune System, The Defense of the Body, Innate Immunity, Systemic Responses to Inflammation, Cytokines and Their Receptors, Antigens, The Major Histocompatibility Complex, Organs of the Immune System, Adaptive Immunity, Antibodies, Immunity in the Fetus and Newborn, Immunity to Bacteria and Fungi, Immunity to Viruses, Immunity to Parasites, Attachment to and Entry of Microorganisms into the Body, Events Occurring Immediately After the Entry of the Microorganism, The Encounter with the Phagocytic Cell and the Microbe's Answers, The Spread of Microbes through the Body, Recovery from Infection, Failure to Eliminate Microbe, Concepts of Virulence, Biofilms, Pathogenesis in the Post-Genomic Era, Evolution of Pathogens, What are Pathogens and How do They Emerge.</i>			
<b>Required Reading:</b> Tizard I.R. Veterinary Immunology, Ninth edition, Saunders, 2012. Delves P.J. Roitt's Essential Immunology, Tenth edition, Mims C.A. et al. Mims' Pathogenesis of Infectious Disease, Fifth edition, Academic Press, 2000. Gyles C.L et al. Pathogenesis of Bacterial Infections in Animals, Fourth edition, Wiley-Blackwell, 2010. Demuth D.R., Lamont R. Bacterial Cell-to-Cell Communication: Role in Virulence and Pathogenesis. First edition, Cambridge University Press, 2006.			
<b>Weekly Contact Hours:</b>	<b>Lectures: 3</b>	<b>Practical work: 2</b>	
<b>Teaching Methods:</b> Direct Instruction (Lecture); Experimental Learning (working in research laboratory); Instructional Skills (Explaining, Demonstrating).			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	0	written exam	50
Practical work	0	oral exam	0
Preliminary exam(s)	0	Project presentation	50

Seminar(s)	0		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			