

Study Programme: Veterinary Medicine
Course Unit Title: Vector and zoonoses
Course Unit Code: 3IVM10I103
Name of Lecturer(s): Aleksandar S. Potkonjak
Type and Level of Studies: Undergraduate academic 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: 5
Prerequisites: Biology, Microbiology, Immunology, Veterinary Epidemiology
<p>Course Aims:</p> <p>Students should be familiar with the appearance, the way of spreading and movement of vector-borne diseases common to the humans and animals, as well as to learn the basic techniques of collecting and identifying insects that are vectors of these infections</p>
<p>Learning Outcomes:</p> <p>Students should be trained to diagnose and monitor the spread and movement of vector-borne diseases that are common to humans and animals, as well as communicate with specialized organizations in the world dealing with this issue.</p>
<p>Syllabus:</p> <p><i>Theory</i></p> <p><i>Introduction. Review of the current prevalence of vector-borne diseases in Serbia and rest of the world. Basic knowledge of biology, taxonomy and identification of vectors. Consequences of occurrence of vector-transmitted diseases. Key elements for diagnostic of vector-transmitted diseases. Lyme disease, Ehrlichiosis, Bartonellosis, Q fever, T-ularemia, Rickettsiales, Anaplasmosis, Yersinia pestis, Arbovirus encephalitis, West Nile encephalitis, Hemorrhagic fever, Yellow fever, European Ixodes encephalitis, Rift Valley fever. Measures, preventions and programs of diseases control. Development immunoprophylactic strategy against vector-transmitted diseases, Basic programs of control of vector-transmitted diseases.</i></p> <p><i>Practice</i></p> <p><i>Methods of gathering, transport, keeping and determination of taxonomic belongings of vectors. Use of bio security and bio safety standards during the laboratory work with vectors. Direct and indirect diagnostic of vector-transmitted. Review and interpretation of laboratory results. Communication with National and worldwide specialized organizations which are monitoring spread of vector-borne diseases</i></p>
<p>Required Reading: Cvetnić Ž. Bakterijske i gljivične zoonoze. Medicinska naklada, Zagreb, Hrvatska, 2013. Potkonjak A. Bolest mačijeg ogreba. Zadužbina Andrejević, Beograd, 2009. Antonijević B. Zoonoze-bolesti u čijem nastanku životinje imaju značajnu ulogu. Zavod za udžbenike i nastavna sredstva, Beograd, 2001. Acha P. Zoonoses and Communicable Diseases Common to Man and Animals. Third edition, PAHO, 2001. Goddard J. Infectious Diseases and Arthropods, second edition, Humana Press, 2008. Marquardt W.H. Biology of Disease Vectors. Second edition, Academic Press, 2004. Gibb T. Arthropod Collection and Identification: Laboratory and Field Techniques. Academic Press; First edition, 2005. Kettle D.S. Medical and Veterinary Entomology, Second edition. Cab International, 1995.</p>

Weekly Contact Hours:	Lectures: 2	Practical work: 2	
Teaching Methods: Lectures, PowerPoint presentations, discussion in the group			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	0	written exam	50
Practical work	0	oral exam	0
Preliminary exam(s)	0	
Seminar(s)	50		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			