

<b>Study Programme: PHYTOMEDICINE</b>			
<b>Course Unit Title: MEDICAL ZOOLOGY</b>			
<b>Course Unit Code: 19.FT2019</b>			
<b>Name of Lecturer(s): prof. Aleksandar Jurišić, PhD; prof. Aleksandra Petrović, PhD, doc. Ivana Ivanović, PhD</b>			
<b>Type and Level of Studies:</b> Undergraduate academic studies			
<b>Course Status (compulsory/elective):</b> elective			
<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 Allocated:</b> 6			
<b>Prerequisites:</b> none			
<b>Course Aims:</b> Student education of applied zoology in medicine and veterinary. Education of students for independent identification of animal species of veterinary and medical importance. Introduction to the structure, functions and organization of animal species of importance for medical practice and research. Training to assess the state of epidemiological and environmental risk, understanding and assessing the impact on humans, other animals and habitats.			
<b>Learning Outcomes:</b> Theoretical and practical knowledge of medical zoology. Independent assessment and use of interactive relationships between anthropogenic factors and animal species, from the public health, veterinary and medical aspect. Knowledge of biology and ecology of selected animal species.			
<b>Syllabus:</b> <i>Theory</i> Introduction to medical zoology. History of zoology in medicine and veterinary. Animals of importance for medicine and veterinary: Protozoa, Platyhelminthes, Nematoda, Annelida, Arthropoda, Vertebrata. Parasitology. Zoonoses, pathogens, vectors and reservoirs. Products of animal origin in medicine and pharmaceutical industry. Animals and their products in the cosmetics industry. Certain animal species in forensic sciences. Use of animals and animal products in bioterrorism and biological warfare. <i>Practice</i> Determination of various animal taxa of importance for medical zoology: Rhizopods, Ciliata, Zoomastigophora, Apicomplex - Sprozoa, unclassified protozoa, Microspora, Trematodes, Cestodes, Nematodes, Arthropods, Myriapods, Acarins, Vertebrates. Biology, ecology, physiology and behavior of these species.			
<b>Required Reading:</b> Woods A., Bresalier M., Cassidy A., Dentinger R.M. (2018): Animals and the Shaping of Modern Medicine. Springer International Publishing AG, Switzerland. Rathoure A.K., Deshmukh N.Z., Kumar D., Goswami R. (2015): Applied and Economic Zoology. Astral International (P) Ltd, India. Goddard J. (2007): Physician's Guide to Arthropods of Medical Importance. CRC Press Taylor & Francis Group, USA. Hickman, Jr. C.P., Roberts, L.S., Keen, S.L., Larson, A., l'Anson, H., Eisenhour, D.J. (2008): Integrated Principles Of Zoology, 14th Ed. McGraw-Hill, New York, USA.			
<b>Weekly Contact Hours:</b>	<b>Lectures: 15</b>	<b>Practical work: 30</b>	
<b>Teaching Methods:</b> Lectures: presentations and consultations; Practical classes: independent laboratory exercises with microscopic and macroscopic samples, calculations			
<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	30
Practical work	5	oral exam	30

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.			