

Study Programme: <i>ANIMAL SCIENCE</i>		
Course Unit Title: ANIMAL MORPHOLOGY AND PHYSIOLOGY		
Course Unit Code: 19DAI1036		
Name of Lecturer(s): Prof. dr Aleksandar Božić , Prof. dr Dragan Žikić		
Type and Level of Studies: DOCTORAL ACADEMIC STUDIES		
Course Status (compulsory/elective): elective		
Semester (winter/summer): winter		
Language of instruction: Serbian		
Mode of course unit delivery (face-to-face/distance learning): face to face		
Number of ECTS Allocated: 10		
Prerequisites:		
Course Aims: A clear understanding of the morphological and physiological characteristics of animals in the area covered by the subject content. Acquiring knowledge for successfully overcoming professional teaching subjects crucial for the development of selected PhD theses		
Learning Outcomes: Students achieved an average 75% success rate in completing the pre-examination and examination duties, allowing them to more easily understanding of other subjects in further study.		
Syllabus: <i>Theory</i> Morphological characteristics of the musculoskeletal system. Morphological parameters and histological structure of digestive tract. Skin characteristics and importance in modern livestock production. Morphological characteristics of the endocrine glands. Morphological characteristics of the reproductive organs. The morphology and physiology of the muscles. Enzymes and digestion flow. Factors relevant to the course and scope of absorption in the digestive tract. The importance of microbial digestion. Metabolic processes and homeostatic principles in maintaining proper metabolic flux. Acid-base balance and its regulation. Liver function and relationship to the intensity of metabolic processes. Relationship neural and humoral regulation. Reproductive Physiology. <i>Practice</i> Histological structure of digestive and reproductive tract. Preparation of histological preparations, staining techniques, and analysis of results. Metabolic experiments in animal science and physiological research methodology. Modern techniques for finding parameters in animal husbandry. The interpretation of physiological parameters..		
Required Reading: Konig HE, Liebich HG. Veterinary anatomy of domestics mammals. Schattauer, 2003 Sjaastad, Q.V., Hove, K., Sand, O. Physiology of domestic animals, Scandinavian veterinary Press, 2003		
Weekly Contact Hours:	Lectures:3	Practical work: 5
Teaching Methods: Oral presentation, interactive methods (CD presentations, quiz), individual and group laboratory, microscopy, visit the reference laboratories		
Knowledge Assessment (maximum of 100 points): 100		

Pre-exam obligations	points	Final exam	points
Active class participation	5	written exam	60
Practical work	5	oral exam	
Preliminary exam(s)		
Seminar(s)	30		

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