Course Unit Descriptor

Study Programme: AGRONOMY

Course Unit Title: SPECIAL ZOOLOGY

Course Unit Code: 19.AGR081

Name of Lecturer(s): prof. Aleksandra Petrović, PhD, prof. Aleksandar Jurišić, PhD,

Type and Level of Studies: Doctoral academic studies

Course Status (compulsory/elective): elective

Semester (winter/summer): summer

Language of instruction: english

Mode of course unit delivery (face-to-face/distance learning): face-to-face

Number of ECTS Allocated: 7

Prerequisites: None

Course Aims:

Mastering knowledge and skills from the course content, which provides a basis for recognizing and identification of certain animal taxons, important for agricultural production, medical and veterinary practice.

Learning Outcomes:

A PhD student is qualified for independent theoretical, practical, field and scientific research in the field of special zoology.

Syllabus:

Theory

Systematics, taxonomy and identification of certain animal groups important for agriculture production, veterinary and medicine. Bioecology, morphology, anatomy and behavior of certain animal species: Annelida, Crustacea, Arthropoda, Mollusca, Pisces, Amphibia, Reptilia, Aves and Mammalia. Methods of monitoring and control of potentially harmful populations of certain animal species in agriculture, medicine and veterinary. The role of these organisms as reservoirs and vectors of various infectious pathogens of importance for human and animal health. Biodiversity and protection of endangered animal species in habitats with different degrees of protection.

Practice

Microscopy techniques and identification of taxonomically significant characteristics of Annelida, Crustacea, Arthropoda, Mollusca, Pisces, Amphibia, Reptilia, Aves and Mammalia. Identification and use of identification keys. Monitoring and methods of sampling/hunting of certain animal groups depending on the habitat type (agroecosystems, urban ecosystems). Control methods and suppression of potentially harmful populations of certain animal species in agriculture, medicine and veterinary medicine.

Required Reading:

Grzimek B. (2004): Grzimek's Animal Life Encyclopedia.Vol. 01-16. Schlager N.(Ed.). Thomson, Gale, Canada.
Hickman Jr. C.P., Roberts L.S., Keen S.L., Larson A., I'Anson H., Eisenhour D.J. (2008): Integrated Principles Of Zoology, 14th Ed.McGraw-Hill, New York, USA
Southwood T.R.E., Henderson P.A. (2000): Ecological methods. Blackwell Science
EPPO Standards, Guidelines: General standards, Moluscicides, Nematocides, Acaricides, Rodenticides, Side-effects, 1997-2018
Dorit R.L., Walker Jr W.F., Barnes R.D. (1991): Zoology. Saunders College Publishing.

Weekly Contact Hours:	**Lectures: 60**	**Practical work: 60**

Teaching Methods:

Oral presentation and consultations. Presentation, demonstration, and illustration methods for practical field and laboratory work, using specific sampling equipment for specific animal species, microscopy. Practical laboratory and experimental methods.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points

Active class participation		written exam	30
Practical work	20	oral exam	50
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.			