Course Unit Descriptor

Study Programme: AGRONOMY

Course Unit Title: SUSTAINABLE USE AND CONSERVATION OF AGRICULTURAL BIODIVERSITY

Course Unit Code: 19.AGR146

Name of Lecturer(s): prof. Dejana Džigurski, PhD; prof. Aleksandra Petrović, 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:

Basic concepts of biological diversity and the importance of sustainable use, conservation and preservation of agricultural biodiversity.

Learning Outcomes:

Theoretical and practical knowledge in the field of biodiversity with an emphasis on agricultural biodiversity, regarding its sustainable use and conservation.

Syllabus:

Theory

Definition and levels of biodiversity. Global, scientific and economic importance of agricultural biodiversity. The practical importance of preserving agricultural biodiversity. Diversity of different animal groups in Serbia with an overview of species of international importance. Richness and taxonomic diversity of the vascular flora of Serbia. Terrestrial and aquatic habitats. Meadows and pastures. Forest ecosystems. Agricultural ecosystems. Aquatic ecosystems. Endangering agricultural biodiversity. Negative anthropogenic impact on agricultural biodiversity. Introduction of foreign species. Endangerment of non-biota. Conservation of agricultural biodiversity. International agreements, standards, criteria and programs of importance for the preservation and maintenance of agricultural biodiversity. Protection of agricultural biodiversity through sustainable use.

Practice

Research studies will be organized individually through the seminar paper writing and presentation, and group workshops for study case analysis and discussions.

Required Reading:

Group of authors (1995): Biodiversity of Yugoslavia with the international importance species overview. Ekolibri and Faculty of Biology Belgrade.

Anđelković M. (2005): Biodiversity at the beginning of the new millennium. SANU, Belgrade.

Mijović A., Sekulić N., Popović S., Stavretović N., Radović I. (2012): Biodiversity of Serbia - state and perspectives, Monograph, Institute for Nature Protection of Serbia, Belgrade.

Lévêque C., Mounolou J-C. (2003): Biodiversity. John Wiley & Sons Ltd, UK.

Levin S.A. (editor in chief) (2000): Encyclopedia Of Biodiversity. Volume 1-5, Academic Press.

Weekly Contact Hours:	**Lectures:** 4	**Practical work:** 4

Teaching Methods:

Oral presentation and consultations. Methods of presentations, demonstrations and illustrations in practical work in the field and in the laboratory. Practical laboratory and experimental methods.

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	**Final exam**	points
Active class participation		written exam	
Practical work	20	oral exam	50
Colloquium		…….	

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.			