

Study Program/Study Programmes: DAS Agronomy			
Type and level of studies: Doctoral Studies (PhD)			
Course Unit Title: Biological diversity in animal production			
Lecturer (First Name, Middle Initial, Last Name): Prof dr. Saša B. Dragin, Associate Professor			
Course status: Elective			
Number of ECTS allocated: 10			
Prerequisites: None			
Course Aims: Training PhD students to solve problems related to the reduction of biological diversity of animal species by defining solution models and the role of man (positive and negative) on its preservation through economic and scientific actions, through factors that define biological diversity.			
Learning Outcomes: Creation of highly specialized scientific workers with academic education, who are able to engage in solving problems related to the reduction of biological diversity of animals, that is, to independently apply all principles of preservation and sustainable disposal of genetic resources in practice, considering the interdependence of livestock and environment through the organization of production that is economically and ecologically acceptable.			
Theory: Introduction; ; Importance and function of animal biodiversity; Forms and practice of reducing the biodiversity of animals; Economic and scientific importance of biodiversity of animals; Man and modern agricultural practice influence on animal genetic resources; Globalization and the future of genetic resources of animals; Sustainable use of genetic resources in livestock production; Selection of domestic animals and biodiversity; Biodiversity and selection of domestic animals; Origin and genetic development of domestic animals; Linkage of biodiversity of plant and animal species; Biodiversity in animal husbandry; Violation of genetic diversity of animal species; New biotechnologies in the role of conservation of biodiversity of animals; Legislation, agricultural development strategy, UN and EU regulations on biodiversity conservation.			
Practice: Practical works take place through individual, and include fieldwork, seminar work and active participation of master students in discussions on selected topics. Topics are adapted to students' interests and correspond to current issues in this area. Possible topics are: Biodiversity of animals in the Republic of Serbia (or selected environment); The consequences of intensive livestock production; Practical implementation of UN and EU regulations on biodiversity conservation; Techniques in animal biotechnology in the role of preserving biodiversity; Global ecological problems caused by unsustainable livestock; Ecological awareness and livestock production; Biodiversity of animals in the service of agro-eco-tourism.			
Required Reading: 1.Saša Dragin, Peter chrenek, Ivan Stančić, Milan Stegić: Žiotinjski genetički diverzitet u poljoprivredi. Monografija, Poljoprivredni fakultet Novi Sad, 2014. 2.Detlef L. Simon, Doris Buchenauer: Genetic Diversity of European Livestock Breeds, Wageningen Pers, 1993.			
Number of contact hours: 150			
Lectures: 60	Practice: /	Students research work: 90	Other classes: /
Teaching Methods: Traditional lectures and consultations, seminary work, mentoring, field practice (visits to institutions and/or companies and discussion about production problems related to biotechnology in reproduction).			
Knowledge assessment (maximum of 100 points)			
Pre-exam obligations	Points (45)	Final Exam	Points (55)
Active class participation	10		
Preliminary exam(s)	20	Written exam	30
Seminar(s)	15	Oral exam	25