

Course Unit Descriptor

Study Programme: Agronomy			
Course Unit Title: Genetical improvement in livestock production			
Course Unit Code: 3DAI4127			
Name of Lecturer(s): Vlada T. Pantelić, Senior Research Associate			
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: 10			
Prerequisites: None			
Course Aims: Acquisition of basic knowledge in the field of genetic improvement in livestock as well as education and training of students for scientific research in the field of genetic improvement of livestock production.			
Learning Outcomes: Students trained to understand and successfully solve complex problems related to genetic improvement in livestock when working in scientific Laboratories and research Institutes, Centers and Faculties.			
Syllabus: <i>Theory</i> The organization controls productivity; Control measures Obligatory by the species of livestock - legislation, Control measures productivity in the EU; Managing registry books - legislation; Managing registry books - the application of computer programs, methods of evaluation of breeding values - legislation; Methods of estimation of breeding values in the EU. <i>Practice</i> Managing registry books - the practical work; Methods of estimation of breeding values - practical work.			
Required Reading: 1. Richard M. Bourdon (2000): Understanding Animal Breeding. Prentice Hall, Upper Saddle River, NJ 07458 2. EU Legislation; 3. Law on Livestock of the Republic of Serbia; 4. ICAR R International Agreement of Recording Practices			
Weekly Contact Hours:	Lectures: 4	Practical work: 6	
Teaching Methods: The theoretical part of study is done with the use of films and presentations that have been prepared so that students have visual representation the teaching units. Practical work is carried out use of computers and software in the field of genetics and biotechnology in livestock production.			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation	10	written exam	

Practical work		oral exam	50
Preliminary exam(s)	20	
Seminar(s)	20		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			