

<b>Study Program: MAS Animal Science</b>
<b>Course Unit Title: Biodiversity of Domestic Animals</b>
<b>Course Unit Code:</b>
<b>Name of Lecturer(s): Dragin B. Saša</b>
<b>Type and Level of Studies: Master Studies – Animal Science</b>
<b>Course Status (compulsory/elective): Elective</b>
<b>Semester (winter/summer):</b>
<b>Language of instruction:</b>
<b>Mode of course unit delivery (face-to-face/distance learning): Face-to-face</b>
<b>Number of ECTS Allocated: 6</b>
<b>Prerequisites: None</b>
<b>Course Aims: Training students of master studies to solve problems related to the reduction of biological diversity of animal species and about the role of man (positive and negative) on its preservation through economic and scientific actions, through factors that define biological diversity.</b>
<b>Learning Outcomes: Ability of the student to successfully solve 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.</b>
<p><b>Syllabus:</b></p> <p><i>Theory: Introduction; Importance and function of animal biodiversity; Identifying the problem of reducing the biodiversity of animals; Economic and scientific importance of biodiversity of animals; Evolutionary processes and diversity of animal genetic resources; Origin and genetic development of domestic animals; Linkage of biodiversity of plant and animal species; Biodiversity in animal husbandry; Sustainable use of genetic resources in livestock production; Selection of domestic animals and biodiversity; Violation of genetic diversity of animal species; Globalization and the future of genetic resources of animals; Biotechnology in the role of conservation of biodiversity of animals; Conservation of animal genetic resources; Legislation, agricultural development strategy, UN and EU regulations on biodiversity conservation</i></p> <p><i>Practice: Practical works take place through individual or team work, 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; The consequences of intensive livestock production; Importance of application of standards in livestock management; Techniques in animal biotechnology in the role of preserving biodiversity; Local ecological problems caused by unsustainable livestock; Ecological awareness and livestock production; Biodiversity of animals in the service of agro-eco tourism</i></p>
<b>Required Reading: 1) Saša Dragin, Peter Chrenek, Ivan Stančić, Milan Stegić: Genetic diversity of animals in agriculture. Monograph, Faculty of Agriculture, Novi Sad, 2014.</b>

**2) Detlef L. Simon, Doris Buchenauer: Genetic Diversity of European Livestock Breeds, Wageningen Pers, 1993.**

**Weekly Contact Hours: 60**

**Lectures: 30**

**Practical work: 30**

**Teaching Methods: Face-to-face lectures, seminars, discussion groups, mentoring, field practice (visits to institutions and/or companies and discussion about basic economic problems in the field of biodiversity)**

**Knowledge Assessment (maximum of 100 points):**

<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	5	written exam	
Practical work	5	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.