

<b>Study Program: OAS Animal Science</b>
<b>Course Unit Title: Animal Biodiversity</b>
<b>Course Unit Code:</b>
<b>Name of Lecturer(s): Dragin B. Saša</b>
<b>Type and Level of Studies: Bachelor Studies</b>
<b>Course Status (compulsory/elective): Elective</b>
<b>Semester (winter/summer):</b>
<b>Language of instruction: Serbian</b>
<b>Mode of course unit delivery (face-to-face/distance learning):</b>
<b>Number of ECTS Allocated: 6</b>
<b>Prerequisites: None</b>
<b>Course Aims: Introducing students of basic studies with the concept and forms of biodiversity of animal species and with 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: Students` will be able to successfully complete the course Biodiversity of Animals and to independently apply principles of conservation and sustainable disposal of genetic resources in practice, considering the interdependence of livestock and environment, through an organization of production that is economically and environmentally friendly.</b>
<p><b>Syllabus:</b></p> <p>Theory: Introduction; The notion and importance of biodiversity of animals; Forms of 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 and EU regulations on preserving biodiversity;</p> <p>Practice: Practical work take place through team work and include fieldwork, seminar work and active participation of 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;</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: 64**

**Lectures: 30**

**Practical work: 34**

**Teaching Methods: face-to-face lectures, seminar papers, discussion groups, mentoring with students, field exercises (visits to institutions and / or businesses and discussion of basic economic problems in the production of organic products).**

**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.