

Biotechnical Faculty / LIVESTOCK PRODUCTION / GENETIC RESOURCES IN ANIMAL HUSBANDRY

Course:	GENETIC RESOURCES IN ANIMAL HUSBANDRY			
Course ID	Course status	Semester	ECTS credits	Lessons (Lessons+Exercises+Laboratory)
8503	Optional	2	4	3+1+0
Programs	LIVESTOCK PRODUCTION			
Prerequisites	None			
Aims	introduction to the principles conservation and sustainable use of animal genetic resources			
Learning outcomes	After successfully mastering the course students will be able to: • Describe the production systems in which they are run by indigenous breeds of domestic animals • With a high level of responsibility viewed the importance of the diversity of genetic resources of farm animals for the production of sufficient quantities of food and preserve the environment, • calculate effective population size; determine the degree of vulnerability of a population, perform characterization (phenotypic and genetic). • recognize indigenous breeds of domestic animals in Montenegro • organize sustainable use and conservation of indigenous and other endangered livestock breeds			
Lecturer / Teaching assistant	Prof. Dr Bozidarka Markovic			
Methodology	Lectures, consultations, colloquiums			
Plan and program of work				
Preparing week	Preparation and registration of the semester			
I week lectures	Introduction to Biodiversity			
I week exercises	Convention of Biodiversity - Rio de Janeiro 1992 and Nagoya protocol.			
II week lectures	The roles and importance of agrobiodiversity as part of total biodiversity			
II week exercises	Overview of the species which are part of agrobiodiversity			
III week lectures	Animal genetic resources - Process of domestication of AnGR, economical social and cultural roles			
III week exercises	Diversity of species and breeds of AnGR			
IV week lectures	Flows of animal genetic resources			
IV week exercises	Impacts of gene flows on diversity			
V week lectures	Using of AnGR - economical, cultural, historical and environmental roles			
V week exercises	The main products of AnGR			
VI week lectures	The review of AnGR of Montenegro			
VI week exercises	Autochthonous and local livestock breeds in Montenegro			
VII week lectures	Colloquium I			
VII week exercises	Visit of farms with autochthonous breeds			
VIII week lectures	Risk status of AnGR			
VIII week exercises	Methods of estimation and classification of risk status			
IX week lectures	Management of AnGR, characterisation of AnGR			
IX week exercises	Information system for AnGR - EFABIS and DADiS			
X week lectures	Molecular markers used for molecular characterisation			
X week exercises	Laboratory work			
XI week lectures	Methods of conservation of AnGR			
XI week exercises	Visit of farms included in in situ program of conservation			
XII week lectures	Global plan of action of conservation and sustainable use of AnGR			
XII week exercises	National program of conservation and sustainable use of AnGR in Montenegro			
XIII week lectures	Economical value of ANGR			
XIII week exercises	Methods of estimation economical value			

XIV week lectures	Elements of breeding programs for autochthonous breeds					
XIV week exercises	Creation of breeding program					
XV week lectures	Colloquium II					
XV week exercises	Corected colloquim					
Student workload	A week: 4 x 40/30= 5 hours and 20 min Structure: 3 hours of lectures 1 hours exercise 1h 20min of student work, including consultations. During the semester: Teaching and the final exam: 5 h and 20 min x16 = 85 h 20 min. Necessary preparation (before semester administration, enrollment and verification): 2 x 5h 20 min = 10 h and 40 min. Total hours for the course: 4 x 30 = 120 hours. Additional work to prepare the corrective final exam, including the exam taking 0 to 42 hours Structure: 85 h and 20 min (lectures) + 10 hours (preparation) + 24 hours (additional work)					
Per week			Per semester			
4 credits x 40/30=5 hours and 20 minuts 3 sat(a) theoretical classes 0 sat(a) practical classes 1 excercises 1 hour(s) i 20 minuts of independent work, including consultations			Classes and final exam: 5 hour(s) i 20 minuts x 16 =85 hour(s) i 20 minuts Necessary preparation before the beginning of the semester (administration, registration, certification): 5 hour(s) i 20 minuts x 2 =10 hour(s) i 40 minuts Total workload for the subject: 4 x 30=120 hour(s) Additional work for exam preparation in the preparing exam period, including taking the remedial exam from 0 to 30 hours (remaining time from the first two items to the total load for the item) 24 hour(s) i 0 minuts Workload structure: 85 hour(s) i 20 minuts (courses), 10 hour(s) i 40 minuts (preparation), 24 hour(s) i 0 minuts (additional work)			
Student obligations			The presence of lectures and exercises, doing the homework, tests, seminar paper			
Consultations			1 hours during the week			
Literature			1. Comission on genetic resources for food and agriculture: The state of world animal genetic resources for food and agriculture. FAO 2008. 2. FAO - Comission on gen res. fpr food and agriculture : Global plan of action for AnGR i Interlakenska deklarac			
Examination methods			Regular lectures and exercises attendance (max. 5 pts), - Seminar work 10pts - I Colloquium: (max 20 pts) - II Colloquium II: (max 20 pts) - Final exam: (max 45 pts) Threshold for mark E is cumulative sum of 50 pts (≥5			
Special remarks						
Comment						
Grade:	F	E	D	C	B	A
Number of points	less than 50 points	greater than or equal to 50 points and less than 60 points	greater than or equal to 60 points and less than 70 points	greater than or equal to 70 points and less than 80 points	greater than or equal to 80 points and less than 90 points	greater than or equal to 90 points