

Study Programme: ANIMAL SCIENCE
Course Unit Title: System of cattle housing and farm management
Course Unit Code: 19MCT1H01
Name of Lecturer(s): prof. Denis Kučević, MSc., Tamara Papović
Type and Level of Studies: GRADUATED - MASTER STUDIES
Course Status (compulsory/elective): elective
Semester (winter/summer): Winter
Language of instruction: English
Mode of course unit delivery (face-to-face/distance learning): face-to-face
Number of ECTS Allocated: 6
Prerequisites: None
<p>Course Aims:</p> <p>Introducing students to the systems of cattle housing and designing farm for cattle in order to ensure adequate conditions for the application of modern farming.</p>
<p>Learning Outcomes:</p> <p>Graduate student acquires expertise to work in scientific laboratories and research centers, institutes and faculties in the area of housing and the design of the farm for cattle</p>
<p>Syllabus:</p> <p><i>Theory</i></p> <p>The origin and zoological characteristics of cattle; The economic significance; Development directions and trends; Breed and crossbreeding; Growth and development; Fertility and reproduction; Genetic improvement of cattle; Solving technological problems; Cattle production systems; Technology and Systems rearing offspring; Growing cattle in the system of suckler cows; New biotechnological methods of importance for the improvement of cattle. Housing systems, facilities, equipment and accommodation of cattle housing; Ecology depending on the housing system; The welfare of cattle depending on the housing system; Manure and treatment of manure; The creation of technological projects of cattle farm, depending on the housing system; Terms of construction and location of the farm; Types of facilities for cattle; Norms for the construction of buildings and farms for cattle;</p> <p><i>Practice</i></p> <p>The exploitation of cattle in milk production and the impact of physiological and external factors on the phenotypes of dairy traits. The exploitation of cattle meat production and the impact of physiological and external factors on fattening traits. Introduction to the methods of scientific research in cattle; Performing experiments in cattle; Development of projects; Field exercises</p>
<p>Required Reading:</p> <ol style="list-style-type: none"> 1. Čobić T. - Antov G.: Govedarstvo - proizvodnja mleka, S Print, Novi Sad, 1996, 2. Antov G. – Čobić T.: Govedarstvo – Proizvodnja mesa, Poljoprivredni fakultet, Novi Sad, Graph Style, Novi Sad, 2001.; 3. Pavo, C.: Govedarstvo, Celeber, Zagreb, 1996. 4. Kučević, D.: Tehnologija govedarske proizvodnje, praktikum za studente stočarstva, Poljoprivredni fakultet, Novi Sad. 5. Bogdanović, V.: Biološke osnove stočarstva, Univerzitet u Beogradu, Poljoprivreni fakultet Zemun, 2016. 6. Brka, M.: Objekti za preživare, Univerzitet u Sarajevu, Poljoprivredni-prehrambeni fakultet, 2015. 7. Van Belzen Nico: Achieving sustainable production of milk. Volume 1: Milk Composition, Genetics and Breeding. Burleigh Dodds Science Publishing Limited Cambridge, United Kingdom, 2017. 8. VanOverbeke, D.L.: Handbook of Beef safety and Quality. Haworth Food & Agricultural products Press, 2007.

9. Ensminger, E. M., Perry, R.C.: Beef Cattle Science. Seventh Edition. Interstate Publishers, Inc. Danville, Illinois, 1997.
10. Phillips, C.J.C.: Principles of Cattle Production, 2nd Edition, CABI, 2010.

Weekly Contact Hours: 4	Lectures: 2	Practical work: 2
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Teaching Methods:

Lectures, and Practical classes, Consultations

Knowledge Assessment (maximum of 100 points):

Pre-exam obligations	points	Final exam	points
Active class participation		written exam	
Practical work		oral exam	50
Preliminary exam(s)	25	
Seminar(s)	25		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.