

<b>Study Programme: ANIMAL SCIENCE</b>
<b>Course Unit Title: Technology of cattle production</b>
<b>Course Unit Code: 19.ANM034</b>
<b>Name of Lecturer(s): prof. Denis Kučević, MSc., Tamara Papović</b>
<b>Type and Level of Studies: UNDERGRADUATE ACADEMIC STUDIES</b>
<b>Course Status (compulsory/elective): Compulsory</b>
<b>Semester (winter/summer): Summer</b>
<b>Language of instruction: English</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>
<p><b>Course Aims:</b></p> <p>To familiarize students with basic indicators of cattle production in order to ensure adequate and economically viable production of cattle milk and beef meat.</p>
<p><b>Learning Outcomes:</b></p> <p>The acquired knowledge provides expertise to work in agricultural organization: co-operatives, entrepreneurial firms and their own farms engaged in livestock production, then the advisory professional services, secondary school education etc.</p>
<p><b>Syllabus:</b></p> <p><i>Theory</i></p> <p>Biological and economic base of cattle production. Condition of cattle breeding and tendencies of its further development. Systems of cattle production. The founders and relatives cattle. Types of cattle under the direction of production and the most important race - representatives. The technique of breeding cattle to the application procedures for the intensification of fertility. Technology and Systems rearing offspring. The exploitation of cattle in milk production and the impact of physiological and external factors on the phenotypes of dairy traits. Dairy cows. Meat production in cattle. Growing cattle in the system of suckler cows. Basics of genetic improvement of cattle. Rating breeding value and selection of cattle. New biotechnological methods of importance for the improvement of cattle. Keeping systems and facilities for cattle housing. The production and handling of manure. Management</p> <p><i>Practice</i></p> <p>Exercise, Other modes of teaching, Study research work Introduction to the exterior of cattle (pictures, slides, models and live animals). Getting to know the specifics of morphological and physiological and production characteristics of different types and breeds of cattle (pictures, slides, models and live animals). Introducing the necessary elements and procedures for implementing the selection bovine animal identification, control, productivity, milk production, meat production, fertility, implementation and support of the parent bookkeeping records, assessment and grading of breeding cattle.</p> <p>Other forms of teaching - field Exercise : Visit cattle farms for the production of milk, meat, dairy, slaughterhouse.</p>
<p><b>Required Reading:</b></p> <ol style="list-style-type: none"> <li>1. Čobić T. - Antov G.: Govedarstvo - proizvodnja mleka, S Print, Novi Sad, 1996,</li> <li>2. Antov G. – Čobić T.: Govedarstvo – Proizvodnja mesa, Poljoprivredni fakultet, Novi Sad, Graph Style, Novi Sad, 2001.;</li> <li>3. Pavo, C.: Govedarstvo, Celeber, Zagreb, 1996.</li> <li>4. Kučević, D.: Tehnologija govedarske proizvodnje, praktikum za studente stočarstva, Poljoprivredni fakultet, Novi Sad.</li> <li>5. Bogdanović, V.: Biološke osnove stočarstva, Univerzitet u Beogradu, Poljoprivredni fakultet Zemun, 2016.</li> <li>6. Van Belzen Nico: Achieving sustainable production of milk. Volume 1: Milk Composition, Genetics and Breeding.</li> </ol>

Burleigh Dodds Science Publishing Limited Cambridge, United Kingdom, 2017.

7. VanOverbeke, D.L.: Handbook of Beef safety and Quality. Haworth Food & Agricultural products Press, 2007.

**Weekly Contact Hours: 7**

**Lectures: 4**

**Practical work: 2**

**Teaching Methods:**

Lectures, and Practical classes, field Exercise

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

<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	20	written exam	
Practical work		oral exam	40
Preliminary exam(s)	2 x 20= 40	.....	
Seminar(s)			

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