Course Unit Descriptor

Study Programme: ANIMAL SCIENCE

Course Unit Title: New technologies in the production of beef and cattle milk

Course Unit Code: 19ДАГИ2058

Name of Lecturer(s): Prof. Denis Kučević

Type and Level of Studies: PhD- postgraduate doctorate 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

Course Aims:

Introducing students to the biotechnology of beef and milk production in order to provide adequate technology and economical production. Upon completion of the doctoral study program, experts are formed capable of scientific research work and application of scientific achievements and new technologies in the production of beef and milk.

Learning Outcomes:

The formation of experts with academic education, which has significantly expanded and deepened knowledge in the field of beef and milk production, relies on the knowledge and skills acquired at second level studies, graduate acdem-master studies and / or as a special preparation for research in the given narrow научной области. The acquired knowledge of the Doctor of Science gives students the opportunity to apply deepened knowledge, understanding and skills acquired during doctoral studies, to successfully solve complex problems in a new or unknown environment, especially in the production of beef and milk.

Syllabus:

Theory

Economic importance of beef and dairy production; Development directions and trends; Production type, breed and meat products for meat production and for the manufacture of the bag; Genetic improvement of cattle; New biotechnological methods of importance for improving cattle breeding and dairy breeds; Utilization of cattle in meat and milk production; Saw and slaughtering characteristics of cattle; SEUROP quality assessment system for beef hulls; ICAR and application of its rules in the production of beef and milk.

Required Reading:

1. Bogdanović, V.: Biološke osnove stočarstva, Univerzitet u Beogradu, Poljoprivreni fakultet Zemun, 2016. (Poglavlja br.: 5. str. od 140-160).
2. Kučević, D.: Tehnologija govedarske proizvodnje, praktikum za studente stočarstva, Poljoprivredni fakultet, Novi Sad. (Poglavlja br.: 5,6,9).
3. Van Belzen Nico: Achieving sustainable production of milk. Volume 1: Milk Composition, Genetics and Breeding. Burleigh Dodds Science Publishing Limited Cambridge, United Kingdom, 2017.
4. VanOverbeke, D.L.: Handbook of Beef safety and Quality. Haworth Food & Agricultural products Press, 2007.

Marek, E. R.: Dairy Cows: Nutrition, fertility and milk production. Nova Science Publishers, Inc. New York, 2011.

Weekly Contact Hours: 4	**Lectures: 45**	**Practical work: 45**

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)		…….	
Seminar(s)	50		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			