Course Unit Descriptor

Study Programme: Animal Production

Course Unit Title: Breeding programs in livestock production

Course Unit Code: 19.ANM052

Name of Lecturer(s): Full professor Snežana Trivunović, assistant professor Ljuba Štrbac, teaching assistant Momčilo Šaran

Type and Level of Studies: Undergraduate academic studies

Course Status (compulsory/elective): Elective

Semester (winter/summer): Summer

Language of instruction: Serbian, but individual consultations and materials are offered to incoming students in English

Mode of course unit delivery (face-to-face/distance learning): face-to-face

Number of ECTS Allocated: 6

Prerequisites: Animal breeding

# **Course Aims:**

Education and training of students for direct work on the implementation of breeding programs with the aim of improving the yield and quality of livestock products through genetic improvement.

## **Learning Outcomes:**

A student will have the theoretical and practical knowledge necessary to analyze and solve practical problems from areas of genetics, selection and crossing of existing breeds, lines and hybrids in production conditions on farms, breeding organizations and public services.

### Syllabus:

Theory

Structure of breeding programs. Organizations in the implementation of breeding programs. Concept and structure of breed - traditional pyramid. Implementation of breeding programs in dairy cattle breeding. Implementation of breeding programs in pig breeding. Implementation breeding programs in sheep breeding. Implementation of breeding programs in goat breeding. Implementation of breeding programs in horse breeding. Implementation of breeding programs in poultry breeding.

# Practice

Defining the direction of production. Defining breeding goals. Collecting Information: Control of productivity and registry records in dairy cattle breeding; Productivity control and registry in beef cattle breeding; Productivity control and registry records in pig breeding; Productivity control and registry records in sheep breeding; Productivity control and registry records in goat breeding; Productivity control and registry records in horse breeding; Productivity control and registry records in poultry breeding; Productivity control and registry records in horse breeding; Productivity control and registry records in horse breeding; Productivity control and registry records in poultry breeding. Evaluation of the effectiveness of the implementation of the breeding program.

# **Required Reading:**

- 1. Glavna odgajivačka organizacija za teritoriju AP Vojvodine (2019): Glavni odgajivački programi po vrstama životinja, Faculty of Agriculture, Novi Sad.
- 2. Trivunović, S. (2012): Oplemenjivanje životinja, Faculty of Agriculture, Novi Sad.
- Kor Oldenbroek en Liesbeth van der Waaij (2014): Textbook Animal breeding: Animal breeding and genetics for BSc students, Centre for Genetic Resources and Animal Breeding and Genomics Group, Wageningen University and Research Centre, the Netherlands.

Weekly Contact Hours: Lectures: 2		,	Practical work: 2
<b>Teaching Methods:</b>			
The theoretical part of t	he teaching is perform	ned with the use of film	ms and presentations that have been prepared so that
students have a visual re	presentation of lessons	s. Practical classes are	conducted with the use of computers and software for
the implementation of b	reeding programs, and	by visiting producers a	and breeding organizations.
Knowledge Assessment	t (maximum of 100 po	oints):	
Pre-exam obligations	points	Final exam	points
Active class	6	written exam	
participation	0	witten exam	-
Practical work	4	oral exam	50
Preliminary exam(s)	30		
Seminar(s)	10		
The methods of knowled	lge assessment may dif	fer; the table presents	only some of the options: written exam, oral exam,
project presentation, sen	ninars, etc.		