

Animal breeding

STRUCTURE

Study program	English Program
Year of study	II
Semester	II
Type of discipline	Animal Production
Total number of hours / week	Course – 2 hours; PW – 2 hours
Total number of hours according to curriculum	Course – 28 hours; PW -28 hours
ECTS	4

DISCIPLINE OBJECTIVES

The discipline provides the students the necessary knowledge for animals rearing and breeding. They will study the domestic animals origin and setting up, the breeding process of animal species, and also the breeds setting up within their species. The discipline consists of the principles and the methods used in domestic animals breeding application, so the main aspects of the growing up and developing process of the animal youth. There are approached problems about: animal production and animal production systems, domestic animal external features knowledge, animal population and its structures knowledge, basic notions in animal breeding.

DISCIPLINE CONTENT

COURSE	Nr. ore
Introduction in animal breeding	2
Chapter I – Basics of animal breeding	4
Chapter II –The breeding goal	2
Chapter III – Collecting information for breeding decisions	2
Chapter IV – Genetic models	2
Chapter V – Genetic diversity and inbreeding	4
Chapter VI – Ranking the animals	2
Chapter VII –Response to selection	2
Chapter VIII –Selection and mating	4
Chapter IX -Crossbreeding	2
Chapter X –Evaluation of the breeding program	2

PRACTICAL WORK PW/S/P	Nr. ore
Introduction Animal terminology.	2
Chapter I. Livestock identification. Applications on species.	4
Chapter II - Growth and development. Performance data.	2
Chapter III - Evidence of origin. Animals recording. Types of pedigrees.	6
Chapter IV - Relationship coefficient. Inbreeding coefficient.	4
Chapter IV - External features and BCS applications in horses, bovine, ovine, goats.	6
Chapter V - External features and BCS applications in pigs. External features in poultry. Colour and feather patterns.	2

BIBLIOGRAPHY

1. Kor Oldenbroek, Liesbeth van der Waaij - Textbook of Animal breeding, Wageningen Publishing House 2014.
2. Iuliana Neagu, Dana Tapaloaga-2014, Creșterea animalelor, Aplicatii practice, Ed. Granada, Bucuresti.
3. Iuliana Neagu, C. Culea, I. Petroman- 2007, Creșterea animalelor, Ed. Eurostampa, Timișoara.
4. Dana Tapaloaga, Raluca-Aniela Gheorghe Irimia, Tapaloaga P.R., *Practical works in animal breeding and husbandry*, Editura PIM, Iasi, 978-606-13-8227-9, 436 pg., 2024.

EVALUATION

Type of activity	Evaluation criteria	Method of evaluation	Percentage of final grade %
Course	Interactive exposure to the material provided and approved, included in the syllabus of the course. The presentation is conducted in multimedia system (PowerPoint)	Onsite written examination	70
PW/P/S	Interactive exposure to the practical knowledge and abilities included in the syllabus.	Onsite written and practical examination	30
Other activities	-	-	-

Course teaching staff: Professor Dana Tapaloaga

Practical work teaching staff PW: Assistant Teodora Furtuna