

COURSE LAYOUT

1. GENERAL

SCHOOL	Animal Biosciences		
DEPARTMENT	Animal Science		
STUDY LEVEL	Bachelor		
COURSE CODE	2995	SEMESTER	7 th
COURSE TITLE	FARMING OF DOMESTIC RUMINANTS		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
Theory		3	3
Laboratory Practicals		3	3
			6
COURSE TYPE	Field of Science		
PREREQUISITES	-		
LANGUAGE	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	Yes (in English)		
COURSE WEB PAGE (URL)	-		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The course “Farming of Domestic Ruminants” aims to familiarize students, in theoretical and practical level, with the contemporary methods applied in husbandry of large and small ruminants. In particular, lectures and practice focus on the understanding of:</p> <ul style="list-style-type: none"> • The necessary conditions for an efficient farming, the possibilities of development and the perspectives of dairy, beef, sheep and goat production through the estimation of the global livestock (live animals, meat and milk production). • The characteristics of the most common breeds of cow, sheep and goat with the intention of their evaluation through the appropriate breeding systems. • The factors that influence the conception rate, the duration of gestation and parturition but also the factors used for the estimation of the reproductive potential (prolificacy rate, viability rate, profitability rate). • The factors that affect the process of milk production, the growth of mammary gland and the development of lactation in ruminants. • The factors that influence carcass and meat production in ruminants.
General Competenses
<ul style="list-style-type: none"> • Individual and group work • Producing new research ideas • Promotion of free, creative and inductive thinking

3. COURSE CONTENT

<p>1. Cattle and beef farming</p> <p>i. Origin. Breeds, cow meat productive, milk productive, dual purpose productive and indigenous breeds.</p> <p>ii. Cattle and beef farming in Greece, Europe and Worldwide.</p> <p>iii. Management of cattle breeding.</p> <p>iv. Cattle reproduction: Body condition, reproductive management during mating and gestation. Cow birth. The care of newborn calf. The nursing calf. Feeding and growth of calf. Reproductive performance of the herd. Troubleshooting in reproductive performance.</p> <p>v. Milk production: Milking. Factors affecting milk production. Milk productive efficiency. Troubleshooting in milk production.</p> <p>vi. Fattening calves: conditions of an effective fattening. Weaning. Requirements for calf fattening and different systems. Slaughter conditions and carcass quality. Management of a beef farm enterprise unit.</p> <p>2. Sheep farming</p> <p>i. Origin, domestication and evolution of sheep and goat. Global animal production and distribution.</p> <p>ii. Global meat production, milk and wool production.</p> <p>iii. Breeds of milk-, meat-, wool- producing sheep and goats</p> <p>iv. Estimation of sheep and goat body condition.</p> <p>v. Reproduction and reproductive control.</p> <p>vi. Sheep and goat milk production and quality.</p> <p>vii. Growth and fattening. Quality of lamb carcass and meat.</p> <p>viii. Genetic improvement. Management of the flock. Productive systems in sheep farming.</p>
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4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	In class, face to face.	
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	PowerPoint and video presentations. Communication with students via e-mail. Teaching support through access to the e-class platform, to on-line databases etc.	
TEACHING ORGANISATION	Activities	Work load per semester
	Lectures	40
	Laboratory practice	30
	Training tours (visits in animal farms).	10
	Individual study of students	70
	Total work load (25 h work load per ECTS)	150
STUDENTS EVALUATION	<p>The evaluation on the course's theory consists of:</p> <ol style="list-style-type: none"> 1. final written examination on the course's theory (80-100%), consisting of: <ol style="list-style-type: none"> I. Evaluation of elements of the course's theory II. Short-answer questions III. Multiple choice questions 2. Personal written essay and its presentation <p>The evaluation on the course's laboratory practice is determined by the final written examination (100%) consists</p>	

	of: I. Evaluation of elements of the course's theory II. Short-answer questions III. Multiple choice questions
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5. BIBLIOGRAPHY

-Proposed Literature:

Ρογδάκης Εμμ. (2006): Γενική Ζωοτεχνία, Εκδόσεις Σταμούλης, Αθήνα.

Ζυγογιάννης Δ. (2006): Προβατοτροφία, Εκτροφή μηρυκαστικών (τεύχος Α), εκδ. Σύγχρονη Παιδεία, Θεσσαλονίκη.

Κατσαούνης Ν. (1994): Προβατοτροφία, Εκδ. οίκος αδελφών Κυριακίδη, Θεσσαλονίκη.

-Related Scientific Journals:

Επιθεώρηση Ζωοτεχνικής Επιστήμης

Animal

Small Ruminant Research