

COURSE LAYOUT

1. GENERAL

SCHOOL	School of Animal Biosciences		
DEPARTMENT	Animal Science		
STUDY LEVEL	Undergraduate (Bachelor)		
COURSE CODE	0018	SEMESTER	9 th
COURSE TITLE	Animal Production-Environment		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
Theory: Lectures		4	4
COURSE TYPE	Field of Science (theory)		
PREREQUISITES			
LANGUAGE	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	No		
COURSE WEB PAGE (URL)	https://mediasrv.aua.gr/eclass/courses/EZPY201/		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The course is essential to understand the interdependency of agriculture and humanity with weather and climate and the climate impacts on animal production.</p> <p>In particular, lectures aim to:</p> <ul style="list-style-type: none"> Understanding the effects of climate on domestic animals and aquatic organisms and in particular on health, reproduction and productivity depending on the applied production system. Analyze the factors that affect the quantity and quality of greenhouse gases produced through which the carbon footprint of each produced animal product is determined and the methods of intervention for reducing them. Assess the effects of livestock farming on creation and conservation of biodiversity
General Competenses
<ul style="list-style-type: none"> • Respect for the natural environment • Ability of adapt to new situations • Decision making • Design and project management

3. COURSE CONTENT

- Direct and indirect effects of the climate on agriculture and livestock production
- Climate and extreme weather effects on the development, dairy farming and breeding of farm animals
- Measures to address climate change in different species of productive animals
- Emitted greenhouse gases from farmed livestock and various productive systems
- Factors that affect the carbon footprint of animal products
- Calculation of emissions of livestock from livestock and strategies to reduce them
- The effects of raising livestock at a range of production systems on biodiversity
- Effect of climate change on aquaculture and vice versa

4. TEACHING and LEARNING METHODS - Evaluation

TEACHING METHOD	In class, face to face.	
USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES	PowerPoint and video presentations for theory lectures	
TEACHING ORGANISATION	Activities	Work load (h) per semester
	Lectures	40
	Writing and presenting an assignment	60
	Total work load (25 h work load per ECTS)	100
STUDENTS EVALUATION	The evaluation on the course's theory consists of final written examination on the course's theory, with long-answer questions.	

5. BIBLIOGRAPHY

-Proposed Literature:

Nutrition of Ruminants, 2013 (Chapter 9: Animal Production and Climate Change) In Greek

-Related Scientific Journals:

- Animal Science Review, Special Issue 35, 2009
- Atmospheric Environment