



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
FIELD CROPS
FIELD CROPS
FIELD CROPS MASTER
COURSE INFORMATION FORM

Course Title	Environmental Factors On Ruminant Nutrition								
Course Code	ZZO542		Course Level		Second Cycle (Master's Degree)				
ECTS Credit	8	Workload	197 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	the aim of this course is to give information on environmental factors effecting ruminant nutrition and their effects on animal production								
Course Content	Environmental requirements of ruminants, factors consisting environment, climatic factors, effects of climatic factors on ruminant nutrition, ration manipulations for various enviromental conditions								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	1. Effect of Environment on Nutrient Requirements of Domestic Animals, National Research Council, 1981. National Academy Press
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction
2	Theoretical	Description of environmental factors on animal nutrition
	Preparation Work	Literatur review
3	Theoretical	Description of environmental factors on animal nutrition
	Preparation Work	Literatur review
4	Theoretical	Description of stress and its components
	Preparation Work	Literatur review
5	Theoretical	Description of stress and its components
	Preparation Work	Literatur review
6	Theoretical	Descrption of climatic zones in animal nutrition
	Preparation Work	Literatur review
7	Theoretical	Description of climatic zones in animal nutrition
	Preparation Work	Literatur review
8	Intermediate Exam	Exam
9	Theoretical	Interaction between climatic zone and animal production
	Preparation Work	Literatur review
10	Theoretical	Interaction between climatic zone and animal production
	Preparation Work	Literatur review
11	Theoretical	Light and photoperiod in ruminant nutrition
	Preparation Work	Literatur review
12	Theoretical	Light and photoperiod in ruminant nutrition
13	Theoretical	Ration formulations for various climatic conditions
	Preparation Work	Literatur review
14	Theoretical	Ration formulations for various climatic conditions
15	Theoretical	Final evaluation
16	Final Exam	Final exam



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	5	2	98
Assignment	5	7	1	40
Midterm Examination	1	25	2	27
Final Examination	1	30	2	32
Total Workload (Hours)				197
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	to able to recognize the description and terms related to environmental conditions in animal production
2	to be able to explain components that make up environment
3	to be able to explain relationship between in-barn environmental conditions and animal production, individual performances and health
4	to able to define and use equipments and tools related to environmental management and control
5	to be able to manage to feed animals under various environmental conditions

Programme Outcomes (Field Crops Master)

1	To be able to improve and deepen the level of expertise in field crops on the basis of the departments licenses qualifications.
2	To be able to recognize the subjects related to field crops, to be able to solve these and make interpretation.
3	To be able to have the skills of acting independently, to have power to decide and to create.
4	To be able to work in teams between departments
5	To be able to give briefing about latest information of Field Crops in written, oral and visual ways.
6	To be able to take responsibility for developing the new approaches and to formulate a solution facing unforeseen complex situations of applications,
7	To be able to defend the original opinions in both Turkish and in foreign languages by using these languages and communicating effectively.
8	To be able to contribute to science by producing knowledge for the aim of improving quality, efficiency and sustainability
9	To be able to apply breeding methods in order to improve new varieties for Field Crops.
10	To be able to maintain and select the appropriate statistical methods within the framework of the study, evaluation of scientific ethics; to convert the results into a report/dissertation and to offer them by producing scientific publications.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	3	2	2	2	2
P2	3	2	2	2	2
P3	3	2	2	2	2
P4	2	2	3	2	2
P5	2	2	3	2	2
P6	2	2	3	2	2
P7	2	2	3	2	2
P8	2	2	3	2	2
P9	2	2	3	2	2
P10	2	2	3	2	2

