AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Nutrition of Sheep and Goats								
Course Code	VHB640		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	8	Workload	202 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Raising experts knowing enough knowledge about sheep and goat nutrition. Raising candidates who may give information about sheep- goat nutrition and management. Providing confident to candidates for better communication with producers.								
Course Content	Mention about the basic principles of sheep and goat nutrition, summarize the studies about the issue to student, evaluate of the feedlot type for the livestock policy of the country, share of information about the most suitable feedlot type for the different regions and mention about the feeds and their quality, prepare of the some ration samples and share with student.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	60
Assignment	1	10

Recommended or Required Reading	
1	Akçapınar, H. (1994). Koyun Yetiştiriciliği, Medisan Yayınevi, Ankara.
2	Gatenby, RM. (1986). Sheep Production in the Tropics and Sub-Tropics. Longman, London and New York.
3	Frer, M., Dove, H. (2002). Sheep Nutrition, CABI Publishing, Australia.
4	Cheeke, P.R. (1999). Applied Animal Nutrition: Feeds and Feding. Prentice Hall International, USA.

Week	Weekly Detailed Course Contents	
1	Theoretical	Explanation of importance of sheep and goat nutrition for the livestock industry of country
2	Theoretical	Energy and nutrient requirements of sheep and goats
3	Theoretical	Mineral requirements and factors which affecting these requirements for sheep and goats
4	Theoretical	Vitamin requirements and factors which affecting these requirements for sheep and goats
5	Theoretical	Characteristics of feed stuffs for sheep and goat nutrition
6	Theoretical	Importance of nutritional characteristic of meadow and other feed stuffs
7	Theoretical	Lamb nutrition and importance of colostrum
8	Intermediate Exam	Midterm exam
9	Theoretical	Artificial nutrition of lambs
10	Theoretical	Nutrition of ewes, basic requirements of them and feed stuffs most commonly use
11	Theoretical	Type of feedlot for the sheep nutrition and nutrition of sheep on meadow
12	Theoretical	Nutrition of goats, basic requirements of them and feed stuffs most commonly use
13	Theoretical	Nutrition of goats in dry period
14	Theoretical	Nutrition of goats in gestation and lactation periods
15	Theoretical	Repetition of the issues and presentation of assignment
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	5	0	10	50
Reading	14	0	7	98
Midterm Examination	1	10	2	12

Final Examination	1	12	2	14
			Total Workload (Hours)	202
			[Total Workload (Hours) / 25*] = **ECTS**	8
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Teaching of nutrition and nutrient requirements of sheep and goats.
2	To give information about the feed stuffs for sheep and goat nutrition.
3	Nutrition of ewe and goats, lamb and goat nutrition and management.
4	Teaching of information about the nutritional disease of sheep and goats.
5	Lamb nutrition and importance of colostrum

Programme Outcomes *(Animal Nutrition and Nutritional Diseases (Veterinary Medicine) Doctorate)*	
1	Knows information about importance of forage and concentrates in basic animal nutrition for protecting animal health in scientific and technological animal production.
2	Have ability to formulate economical and full-satisfactory rations with considering product quality and health. May inform animal producers about practical/appropriate feeding methods.
3	Can adapt to recent scientific and technological developments in animal nutrition easier and produce proper strategies against to problems on this field.
4	Knows the properties of feeds used in proper and economical rations formulated due to needs of animal species.
5	Can give information to animal producers about properties of common feedstuffs used in Turkey
6	Knows organoleptic, physical diagnostic and chemical analysis methods used in determining feed quality.
7	Have information about processing and the effects of processing on animal yield.
8	Can identify the term “feed hygiene” and have information about the usage availability of contaminated feedstuffs.
9	Can apply the informations related to feed additives in a proper way.
10	Understands the results and factors decreasing production.
11	Knows the nutrition related diseases and their solution recommendations which may be applied in feeding or formulating feeds for preventing nutiritonal diseases.
12	Knows about the availability level of feedstuffs after consumed and can perform digestibility trials.
13	Knows the definition of stress, stress sources and effects on health and production level of animals.
14	Have sufficient information on classification, activation and fermentation of rumen microorganisms plus carbohydrate, lipid and protein digestibility.
15	Knows the factors effecting feed intake and negative factors in feedstuffs and preventation of them.
16	Comments on feeding behaviours and related yield parameters.
17	Have information on basic terms related to feed legislation, feeds used in animal nutrition and their legal regulations.
18	Have information about biotechnological research conducted on feeds and animal nutrition.
19	Knows the effects of nutrition on food quality, fertility, immunity and parasite enfestations.

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

	L1	L2
P1	5	5
P2	5	4
P3	5	4
P4	5	5
P5	3	5
P17		4
P18		3
P19		1