



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Beef Cattle Nutrition							
Course Code		VHB527		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	123 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To educate of masters who got enough knowledge about nutrition of beef cattle more rational and healthy, requirements of energy and nutrient of beef cattle for more economic production, feedlot, feeding managements, nutrition of beef cattle issues. Educate to students who have got ability for represent correct solution for the field problems and also contact with the farmers and share the knowledge about the issue.							
Course Content		Mention about the basic principles of beef cattle 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, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)		Lec. Onur TATLI, Prof. Özcan CENGİZ							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	28
Final Examination	1	60
Assignment	5	12

### Recommended or Required Reading

1	Perry, T.W., Cecava, M.J. (1995) Beef Cattle Feeding and Nutrition, Acedemic Press.
2	Kellerns, R.O., Church, D.C. (2002) Livestock Feeds and Feeding, Prentice Hall, New Jersey.
3	Allen, D. (2001). Rationing Beef Cattle, Chalcombe Publications.
4	Barnes, R.F., Nelson, C.J., Moore, K.J., Collins, M. (2007) Forages, Blackwell Publishing.

Week	Weekly Detailed Course Contents	
1	Theoretical	Nutrition of beef cattle, feedlot performance
2	Theoretical	Choice the feedlot area, free feedlot
3	Theoretical	Type of feedlot
4	Theoretical	Requirement of water and dry matter
5	Theoretical	Requirement of energy and nutrient of beef cattle
6	Theoretical	Requirement of vitamin and mineral of beef cattle
7	Theoretical	To get a beef cattle, transportation, preparations before the feedlot, feeding management
8	Intermediate Exam	Midterm exam
9	Theoretical	Feedlot periods, preparation of ration and intensively of feeding
10	Theoretical	Effect of feeding intensively on feedlot and slaughter characteristics
11	Theoretical	Type of feedlot
12	Theoretical	Equipment for the feedlot, feeds for beef cattle
13	Theoretical	Forages, grains, total mix ration (TMR)
14	Theoretical	Feed additives
15	Theoretical	Sample of rations for beef cattle

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	5	2	1	15
Reading	14	0	4	56



Midterm Examination	1	8	2	10
Final Examination	1	12	2	14
Total Workload (Hours)				123
[Total Workload (Hours) / 25*] = ECTS				5

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Understanding of feedlot characteristic of beef cattle.
2	Introducing of feeds and feedlot environments.
3	Determination of animal requirements.
4	Understanding of feedlot types and equipments.
5	To get enough knowledge about the nutrition of beef cattle.

### Programme Outcomes (Animal Nutrition and Nutritional Diseases (Veterinary Medicine) Master)

1	to be able to comprehend information about basic animal nutrition and feeds for protecting animal health, scientific and technological animal production.
2	to be able to formulate economical and full-satisfactory rations with considering product quality and health and inform animal producers about practical/appropriate feeding methods.
3	to be able to apply recent scientific and technological developments in animal nutrition easier and produce proper strategies against to problems on this field.
4	to be able to analyse the properties of feeds used in proper and economical rations formulated due to needs of animal species.
5	to be able to inform animal producers about the common feedstuffs used in animal nutrition
6	to be able to interpret physical, diagnostic and chemical analysis methods used in determinin feed quality.
7	to be able to comprehend processing and the effects of processing on animal yield.
8	to be able to identify the term "feed hygiene" and have information about the usage availability of contaminated feedstuffs.
9	to be able to apply the informations related to feed additives in a proper way.
10	to be able to formulate the results and factors decreasing production.
11	to be able to apprehend the nutrition related diseases and their solution recommendations which may be applied in feeding or formulating feeds for preventing nutritonal diseases.

### 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	5	5		5	5
P2			5	5	5
P3	5	5	5		5
P4		5	5		5
P5		5		5	5
P7		5			
P10	5				

