



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Principles of Dairy Cattle Nutrition							
Course Code		VHB504		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		Educate to master who know the effects of nutrition on milk production and milk quality, dry matter, energy and nutrient requirements of high productive dairy cattle, basic principles of dairy cattle nutrition and can present scientific approach to nutritional diseases.							
Course Content		Nutritional behaviour of dairy cattle. Nutritional requirements of dairy cattle. Nutrition of calf, heifer and dairy cattle. Practice of feeding. Relation of rational nutrition with economy. Most common feeds which use for dairy cattle and practical ration samples.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Ömer SEVİM							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Webster, J. (1993) Understanding the Dairy Cow, Blackwell Scientific Publications, Londra, İngiltere.
2	McClure, T.J. (1994) Nutritional and Metabolic Infertility in the Cow, CAB International, Oxford, İngiltere.
3	Kennelly, J. (1993) Advances in Dairy Technology, Proceedings of the 1993 Western Canadian Dairy Seminar.
4	Perry T.W. (1984) Animal Life-Cycle Feding and Nutrition, Academic Pres Inc., Florida, ABD.

Week	Weekly Detailed Course Contents	
1	Theoretical	General structure of dairy cattle industry in Turkey and World.
2	Theoretical	Nutritional behaviours of dairy cattle and differences of digestive system
3	Theoretical	Feeds which use in calf nutrition, feeding techniques, nutrition of calf
4	Theoretical	Weaning of calves, nutritional diseases of calves
5	Theoretical	Nutrition of heifers
6	Theoretical	Nutritional phases for dairy cattle and nutrient requirements
7	Theoretical	Feeds which use in dairy cattle nutrition, feeding techniques, nutrition of dairy cattle
8	Intermediate Exam	Midterm exam
9	Theoretical	Nutrition of dairy cattle (start of the of lactation period)
10	Theoretical	Nutrition of dairy cattle (middle of the lactation period)
11	Theoretical	Nutrition of dairy cattle (end of the of lactation period)
12	Theoretical	Nutrition of dairy cattle (dry phase)
13	Theoretical	Effects of nutrition on milk production and quality, relation of nutrition and fertility
14	Theoretical	Nutritional diseases of dairy cattle
15	Theoretical	Nutrition of bullock and bull

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	5	0	3	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	Got scientific knowledge about the nutrition of high productive dairy cattle.
2	Compatible to scientific approaches about the high productive dairy cattle nutrition.
3	Present correct solutions to problems of field.
4	Develop alternative feeding programs in dairy cattle breeding.
5	Contributes to the economy.

### 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
P1	5	5	5
P2			5
P3	5	5	5
P4	5	5	5
P5	5	5	5
P7			5
P11			5

