

ANIMAL NUTRITION AND NUTRITIONAL DISEASES II

1	Course Title:	ANIMAL NUTRITION AND NUTRITIONAL DISEASES II	
2	Course Code:	VET5137	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	5	
6	Semester:	9	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	1.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-Feed Science and Animal Nutrition	
12	Language:	English	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. ÇAĞDAŞ KARA	
15	Course Lecturers:	Prof. Dr. İsmet Türkmen, Prof. Dr. Hakan Biricik, Doç. Dr. Hıdır Gençoğlu, Prof. Dr. Şule Cengiz	
16	Contact information of the Course Coordinator:	cagdashkara@uludag.edu.tr U.Ü. Veteriner Fakültesi, Hayvan Besleme ve Beslenme Hastalıkları Anabilim Dalı, Görükle Kampüsü 16059 Bursa	
17	Website:		
18	Objective of the Course:	To provide detailed knowledge and skills in the field of the nutrition, nutritional diseases, feedstuffs and feed additives of ruminants and swine.	
19	Contribution of the Course to Professional Development:	To educate experienced veterinary medicine in ruminant nutrition and nutritional diseases	
20	Learning Outcomes:		
		1	The specialties and usage of feedstuffs and feed additives in the nutrition of ruminants
		2	The specialties and usage of feedstuffs and feed additives in the nutrition of swine
		3	The basic nutritional principles of ruminants and swine
		4	The preparation of feed formula (ration, diet) according to physiological terms of ruminants and swine
		5	The reasons of nutritional and metabolic diseases in ruminants and prevention methods of nutritional and metabolic diseases
		6	The reasons of nutritional and metabolic diseases in swine and prevention methods of nutritional and metabolic diseases
		7	The relationship between nutrition and milk components (milk quality) of ruminants
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	

1	Preparation methods of dry forages (drying on floor, on table and in barn), factors affecting quality, use and importance of forages in ruminant nutrition	Presentation of different forages		
2	Processing methods of concentrate feedstuffs for ruminants (grinding, rolling, pelletizing), effects of different processing methods on digestion and yield, using methods of them on animal nutrition	Presentation of different concentrate feeds		
3	Visiting to the Agricultural Fair in Bursa	Visiting to the Agricultural Fair in Bursa		
4	Silage preparation methods from various feed materials and application of silage in animal nutrition	Evaluating silage quality		
5	Ration preparation with computer and manual for cows in early lactation	Ration preparation with computer and manual for cows in early lactation		
6	Ration preparation with computer and manual for cows in middle and last lactation	Ration preparation with computer and manual for cows in middle and last lactation		
7	Ration preparation with computer and manual for cows and heifers in dry period	Ration preparation with computer and manual for cows and heifers in dry period		
8	Special ration practices in nutritional diseases (rumen acidosis, laminitis, ketosis and fat cow disease) and feed additives for prevention	Special ration practices in nutritional diseases and presentation of feed additives for cattle		
9	Special ration practices in nutritional diseases (hypocalcemia, retentio secundinarum and abomasal displacement) and feed Additives for prevention	Special ration practices in nutritional diseases		
10	Factors affecting milk composition and milk	Presentation of analyzing milk and evaluating of milk		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical composition in heat stress and pasture conditions		14	2.00	28.00
Practicals/Labs		14	1.00	14.00
11	Feeding methods in recodior cattle	14	1.00	14.00
12	Feeding methods in sheep and goats	14	1.00	14.00
Homeworks		1	5.00	5.00
13	Nutrient deficiency related with heat stress. Feeding methods and ration management	0	0.00	0.00
Field Studies		4	4.00	16.00
14	Feeding methods in swine	1	1.00	1.00
Midterm exams		1	1.00	1.00
Others		0	0.00	0.00
Final Exams	Materials:	Requirements of Dairy Cattle 7th. ed. National Academy Press, Washington, DC, USA. 2- National Research Council, 2007. Nutrient	1	1.00
Total Work Load				88.00
Total work load/ 30 hr		rev. ed. National Academy Press, Washington, DC, USA. 2- National Research Council, 2007. Nutrient	1	1.00
ECTS Credit of the Course				3.00
		Press, Washington, DC, USA. 4- A. Ergün, I Çolpan, G. Yıldız, S. Küçükersan, Ş. Tuncer, S. Yalçın, K. Küçükersan, A. Şehu, P. Saçaklı. Hayvan Besleme ve Beslenme Hastalıkları. Pozitif Baskı, Ankara, 2011. 5- M. E. Ensminger, J. E. Oldfield, W. W. Heinemann. Feeds and Nutrition 2nd. ed. The Ensminger Publising Company, California, USA.		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	
Midterm Exam		1	30.00	
Quiz		1	10.00	
Home work-project		0	0.00	
Final Exam		1	60.00	

Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00	
Contribution of Final Exam to Success Grade	60.00	
Total	100.00	
Measurement and Evaluation Techniques Used in the Course	Exams	

24	ECTS / WORK LOAD TABLE
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25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	2	3	4	3	5	5	5	5	5	4	5	5	0	0	0	0
ÖK2	2	5	5	4	5	4	5	3	3	1	3	2	0	0	0	0
ÖK3	3	5	5	5	5	3	3	2	2	1	3	2	0	0	0	0
ÖK4	5	4	5	5	5	3	3	1	2	1	3	2	0	0	0	0
ÖK5	5	4	5	5	5	2	5	1	1	1	3	2	0	0	0	0
ÖK6	3	3	3	3	2	5	2	2	3	4	2	4	4	3	3	2
ÖK7	2	3	4	4	4	4	2	4	3	4	3	3	3	4	2	4
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				