	ANIMAL NUTRITION	N AND	NUTRITIONAL DISEASES II								
1	Course Title:	ANIMAL	NUTRITION AND NUTRITIONAL DISEASES II								
2	Course Code:	VET510	1								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	cle								
5	Year of Study:	5									
6	Semester:	9									
7	ECTS Credits Allocated:	4.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	1.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	VET202	0 Feed Science and Animal Nutrition								
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Prof. Dr.	İ.İSMET TÜRKMEN								
15	Course Lecturers:	Prof. Dr. GENÇO	Hakan BİRİCİK, Doç. Dr. Ş. Şule CENGİZ, Doç. Dr. Hıdır ĞLU, Yard. Doç. Dr. Çağdaş KARA								
16	Contact information of the Course Coordinator:	Veterine	@uludag.edu.tr, +902242941361, Uludağ Üniversitesi r Fakültesi Hayvan Besleme ve Beslenme Hastalıkları ı Dalı, Görükle Kampüsü, Nilüfer-Bursa/Türkiye								
17	Website:	http://veteriner.uludag.edu.tr/bolumler/ZooHayBes/haybes.html									
18	Objective of the Course:	To teach; techniques of processing and preparation of forage and concentrate feed, how to solve problems in animal feeding and to arrange rations for farm animals. Give knowledge and teach students about the effect of nutrition on milk component quality and fertility, the nutrition of procedure and precautions that they must follow in heat stress									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Techniques of processing and preparation of forage and concentrate feeds								
		2	Feeding principles in dairy cattle, beef cattle, and special feeding methods in different physiological periods. The effects of ration preparation on animal health and productivity.								
		3	Feeding principles of sheep, goat, pig and special feeding method in different physiological period								
		4	The way of ration preparation in order to prevent from nutritional disorders of cattle, goat and sheep								
		5	The effect of nutrition on milk component quality and fertility of dairy cattle								
		6	The effect of heat stress on dairy cattle and how to feed in stress conditions								
		7									
		8									
		9									
		10									
21	Course Content:										
	Course Content:										

Week	Theoretical	Practice							
1	Methods of forage preparation, factors which effect forage quality, usage in ruminant nutrition	Practice of forage preparation techniques							
2	Silage preparation from different kinds of feed materials, usage in animal nutrition	Practice of making silage							
3	Processing methods of concentrate feeds for ruminants and effects of processing methods to digestibility and productivity	Practice of concentrate feed processing techniques							
4	Ration preparation for early lactation cattle with computer programmes and conventional methods	Practice of feeding techniques in lactating cows and techniques of arranging rations							
5	Ration preparation for middle and late lactation cattle with computer programmes and conventional methods	Practice of feeding techniques in lactating cows and techniques of arranging rations (continued)							
6	Ration preparation for dry cattle and heifer with computer programmes and conventional methods	Practice of feeding techniques in lactating cows and techniques of arranging rations (continued)							
7	Special ration preparations and feed supplements in nutritional disorders ( asidosis, limanitis, fatty liver sendrome, ketosis)	Practice of feeding techniques in lactating cows and techniques of arranging rations (continued)							
8	Special ration preparations and feed supplements in nutritional disorders ( hipocalsemi, retension, abamasum deplation)	Practice of feeding techniques in cows during the dry period and techniques of arranging rations							
Activit		Practice of feeding tech Number	niques in nutritional Duration (hour)						
Theore	usage methods for forage and concentrate feed. Nutritional methods and feed	14	2.00	28.00					
Practic	als/Labs	14	1.00	14.00					
Self <sub>stu</sub>	dy and prepenation Nutrient deficiency related to heat stress	Practice of feeding tech	2.00 uniques in heat stres	28.00					
Homew	vorks	0	0.00	0.00					
Project	neat stress	Dractice of feeding took	0.00	0.00					
Field S	tudies	0	0.00	0.00					
Mi <b>pl<del>g</del></b> ern	Ratan preparation for goats, sheep and	Practice of feeding techniques in sheep and 2009 and							
Others		0	0.00	0.00					
Final E	Ration preparation for pigs and feeding	Practice of feeding tech	iniques in pigs and t	echniques of					
Total W	/ork Load			120.00					
Total w	ork load/ 30 hr			4.00					
ECTS (	Credit of the Course			4.00					

22	Textbooks, References and/or Other Materials:	Yemler, Yem hijyeni ve Teknolojisi (2nd ed.). Ergun A ve ark.; Pozitif Matbaacılık, Ankara, 2004. Hayvanların Beslenmesinde Temel Prensipler. Ed. Yavuz HM, Hilal Yayınevi, İstanbul, 2001. Hayvan Besleme ve Beslenme Hastalıkları (2nd ed.). Ed.
		Ergün A, Tuncer Ş, Pozitif Matbaacılık, Ankara, 2004
		Çiftlik Hayvanlarında Beslenme Hastalıkları.Umucalılar HD, Gülşen N,SÜ Basımevi, Konya, 2005
		National Research Council. Nutrient Requirements of dairy Cattle. 7th rev. ed. National Academy Pres, Washington, DC, 2001
		Livestock Feeds and Feeding. 5th ed. Kellerns RO, Church DC. Prentice Hall, New Jersey, 2002
		Tables of Composition and Nutritional Value of feed Materials. Ed. Sauvant D, Perez JM, Tran G. INRA Editions, Wageningen Academic Publishers, 2004.
		Animal Feeds, Feeding and Nutrition and Ration Evaluations. Tisch D, Thomson Learning, 2005
		Nitrogen and Phosphorus Nutrition in Cattle. Hristov AA, Pfeffer E. CABI Publishing, 2005.
		National Research Council. Nutrient Requirements of Small Ruminants. National Academy Press, Washington DC, 2007.

## 23 Assesment

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TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterm Exam	1	40.00						
Quiz	1	10.00						
Home work-project	0	0.00						
Final Exam	1	50.00						
Total	3	100.00						
Contribution of Term (Year) Learning Activities Success Grade	es to	50.00						
Contribution of Final Exam to Success Grade	Э	50.00						
Total		100.00						
Measurement and Evaluation Techniques Us Course	sed in the							

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME  QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	2	3	3	3	5	5	1	2	2	5	1	0	0	0	0
ÖK2	5	4	5	4	5	5	5	2	3	2	5	3	0	0	0	0
ÖK3	5	4	5	4	5	5	5	2	3	2	5	3	0	0	0	0
ÖK4	5	5	5	4	5	5	5	2	3	2	5	3	0	0	0	0

ÖK5	5	2	4	4	5	5	3	2	3	2	4	2	0	0	0	0
ÖK6 5 2 4 4 5 5 3 2 3 2 4 2 0 0 0 0  LO: Learning Objectives PQ: Program Qualifications											0					
Contrib 1 very low 2 low 3 Medium 4 High 5 Very High Level:																