

RUMINANTS NUTRITION

1	Course Title:	RUMINANTS NUTRITION
2	Course Code:	ZTK5201
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. İsmail FİLYA
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Ziraat Fakültesi Zootečni Bölümü, Görükle Kampüsü 16059 Bursa/TÜRKİYE ifilya@uludag.edu.tr, 0 224 2941555
17	Website:	
18	Objective of the Course:	To give descriptive information about ruminants nutrition.
19	Contribution of the Course to Professional Development:	Learn about the feeding of ruminants.
20	Learning Outcomes:	
	1	Recognize nutrients (carbohydrates, lipids, proteins, water).
	2	Recognizes vitamins and mineral substances.
	3	Learns the nutrition principles of ruminants.
	4	Learns the nutritional requirements of ruminants.
	5	Relates the nutritional requirements of ruminants and how they should be fed.
	6	Can create nutrition protocols according to the yield aspects of ruminants.
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Breeding and feeding ruminant in the world and Turkey.	
2	Digestive system of ruminants	
3	Nutrient matters, carbohydrates	
4	Lipids	
5	Proteins	

6	Water		
7	Vitamins		
8	Minerals		
9	Stomach structure and features in ruminants		
10	Rumen		
11	Feeds		
12	Nutritient requirements of ruminants		
13	Metabolic diseases		
14	Preparing a ration		
22	Textbooks, References and/or Other Materials:	Ensminger, M.E., Oldfield, J.E., Heinemann, W.W. 1990. Feeds and Nutrition. Second Edition. The Ensminger Publishing Company, CA, USA. Mc.Donald, P., Edwards, R.A., Greenhalgh, J.F.D., Morgan, C.A., Sinclair, L.A., Wilkinson, R.G. 2011. Animal Nutrition. Seventh Edition. Pearson, UK. Wu, G. 2018. Principles of Animal Nutrition. CRC Press, Taylor and Francis Group, NW, USA.	
23	Assesment		
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT
Midterm Exam		1	40.00
Quiz		0	0.00
Home work-project		0	0.00
Final Exam		1	60.00
Total		2	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		It is evaluated according to the our university's graduate education and training regulations.	
24	ECTS / WORK LOAD TABLE		

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	12	3.00	36.00
Homeworks	0	0.00	0.00
Projects	1	20.00	20.00
Field Studies	6	3.00	18.00
Midterm exams	1	0.00	0.00
Others	8	3.00	24.00
Final Exams	1	40.00	40.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

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	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	0	3	2	4	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	0	3	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			