	RUM	IINAN	T NUTRITION					
1	Course Title:	RUMINANT NUTRITION						
2	Course Code:	ZOO4406-Z						
3	Type of Course:	Compulsory						
4	Level of Course:	First Cycle						
5	Year of Study:	4						
6	Semester:	8						
7	ECTS Credits Allocated:	4.00						
8	Theoretical (hour/week):	2.00						
9	Practice (hour/week):	2.00						
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:	Prof. Dr. İbrahim Ak, Doç. Dr. Önder Canbolat						
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Ziraat Fakültesi Zootekni Bölümü, Görükle Kampüsü 16059 Bursa/TÜRKİYE ifilya@uludag.edu.tr, 0 224 2941555						
17	Website:	http://bilgipaketi.uludag.edu.tr/Ders/Index/1168827						
18	Objective of the Course:	Gains information about the nutrition of ruminants and contributes to their professional development.						
19	Contribution of the Course to Professional Development:	Learn about the nutrition of ovine and bovine livestock.						
20	Learning Outcomes:							
		1	Obtaining information about the digestive system and nutrient requirements of ruminant animals					
		2	To have sufficient knowledge about nutrition of ruminant animals.					
		3	To be able to apply new methods and approaches in nutrition of ruminant animals.					
	4		To be able to follow scientific and technological developments in the nutrition of ruminants, to transfer innovations to animal production					
		5	Obtaining information about nutrition and nutritional diseases					
		6	Comprehending the legislation in the fields of animal production					
		7						
		8						
		9						
		10						
21	Course Content:	-						
10/		Co	burse Content:					
	Theoretical	a thia	Practice					
1	Animal nutrition and developments in field.		Digestive system in ruminants					
2	Basal metabolism in ruminants and f affecting its measurement.	actors	Evaluation of feed in ruminants					

Contribution of Final Exam to Success Grade 60.00												
pregnant animals     pregnant animals       5     Nutrition of animals in growth and development age.     Feeds to be used in rayon and points to be considered development age.       6     Feeding of growing and developing animals Basic principles of ration preparation     Calculation of survival rate nutrient requirements synthesis       8     Protein needs, energy and mineral-vitamin requirements of dairy cows     Calculation of yield share nutrient requirements requirements of dairy cows       9     Points to be considered in practical feeding of Aation preparation methods (trial and error) dairy cows.     Ration preparation methods (algebraic method) and linear programming)       10     Cattle fattening principles and methods     Ration preparation in computer environment       11     Feeding Goats     Ration preparation in computer environment       12     Feeding Goats     Ration preparation in computer environment       13     Feeding Coats     Ration preparation for beel cattle       24     Diseases caused by nutrition.     Ration preparation for beel cattle       25     Testbocks, References and/or Other Materials:     Sevigcan, F. 2001. Ruminantarin belemmesi (2. basim, Drev Kitabi), E.U. Zir, Fax Yayniar, no.524, s.228, Euroi, Drev Bogalann Bestomes (Variance Der Kitabi), E.U. Zir, Fax Yayniar, no.524, s.228, Surai, Drev Bogalann Bestomes (Variance Der Kitabi), E.O. 200. Numfhant Physiology, Dreveor Coats, Sates, Sa	3		nd	Digestion and evaluation of feed in ruminants								
development age. development age.   6 Feeding of growing and developing animals Basic principles of ration preparation   7 Nutrition of lactating animals and milk synthesis Calculation of survival rate nutrient requirements   8 Protein needs, energy and mineral-vitamin requirements of dairy cows. Calculation of yield share nutrient requirements   9 Points to be considered in practical feeding of dairy cows. Ration preparation methods (trial and error)   10 Cattle fattening principles and methods Ration preparation methods (parson square method)   11 Feeding Goats Ration preparation in computer environment   12 Feeding Goats Ration preparation for beef cattle   14 Diseases caused by nutrition. Ration preparation for beef cattle   22 Textbooks, References and/or Other Materials: Sevigican, F. 2001, Ruminantian nor524, sr228, Izmir, Kite, A. T. Demirkus, M. Polat ve H. Ozku, 2022, Burgir, Kite, A. T. Demirkus, M. Polat ve H. Ozku, 2022, Burgir, Kite, A. T. Demirkus, M. Polat ve H. Ozku, 2022, Burgir, Kite, A. T. Demirkus, M. Polat ve H. Ozku, 2022, Burgir, Stardmin Ders Kiteb), E. U. Stardmin Ders Kiteb), E. U. Stardmin Ders Kiteb), E. Ozku, 2020, Ruminsmit Physiology, Utstabl, Dive ve Boglann Bestennesi (Variation in Computer environment for beer cattle   24 Textbooks, References and/or Other Sevigican, F. 2001, Ruminantian bestennesi, 2022, srzek, 1022, Suzak, Dive ve Boglann Bestennesi (Variation), 2024, srzek, 2020, Ruminsmit Physiology, Utstabl), Dive ve Boglann Physiol	4		f	<u> </u>								
7   Nutrition of lactating animals and milk synthesis   Calculation of survival rate nutrient requirements     8   Protein needs, energy and mineral-vitamin requirements to be considered in practical feeding of dairy cows.   Calculation of yield share nutrient requirements     10   Cattle fattering principles and methods   Ration preparation methods (pearson square method)     11   Feeding the sheep   Ration preparation methods (pearson square method)     12   Feeding Goats   Ration preparation in computer environment     13   Feeds used in ruminant feeding and feeding practices in different animal species   Ration preparation in computer environment     14   Diseases caused by nutrition.   Ration preparation for beef cattle     22   Textbooks, References and/or Other Materials:   Sergican, F. 2001, Ruminantiarin bestenmesi (2, basim, Dave ve Bogalann Bestenmesi (Yardimci Ders Kitab), Div ve Bogalann Bestenmesi (Yardimci Ders Kitab), Div ve Bogalann Bestenmesi (Yardimci Ders Kitab), Div ve Bogalann Bestenmesi (Yardimci Ders Kitab), Div ve Bogalann Bestenmesi (Yardimci Ders Kitab), Div ve Bogalann Mileman, no.524, s.228, Izmir, Kitab), E. J. 2000, Rumbrid (Hour)     Theore ical   Calculation of verser could Mitter exams   0   0.00   0.00     Proteinal (Daving Persention)   Number   Diration (Hour)   Total Work Load   14   2.00   2.00   2.00   2.00   <	5			Fee								
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11   Feeding the sheep   Ration preparation methods (algebraic method and linear programming)     12   Feeding Goats   Ration preparation in computer environment     13   Feeds used in ruminant feeding and feeding practices in different animal species   Ration preparation in computer environment     14   Diseases caused by nutrition.   Ration preparation for beef cattle     22   Textbooks, References and/or Other Materials:   Sergican, F. 2001, Ruminantların bestemmesi (2, basım, Ders Kitabı), Düve we Bogaların Bestemmesi (Yardımcı Ders Kitabı), Düve Werkenci (Yardımcı Ders Kitabı), Düve Werkenci (Yardı Marci (Yardımcı Ders Kitabı), Düve Werken	9		eding of	Ration preparation methods (trial and error)								
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13   Feeds used in ruminant feeding and feeding practices in different animal species   Ration preparation in computer environment     14   Diseases caused by nutrition.   Ration preparation for beef cattle     22   Textbooks, References and/or Other Materials:   Sergican, F. 2001. Ruminantarin bestenmesi (2. basim, Ders kitab), EU. Zir, Fak, Yaynlart, no 524, s:228, lzmir. Klir, A., T. Demirkuş, M. Polat ve H. Ozkul, 2002. Buzağı, Dive ve Boğaların Bestenmesi (Yardımcı Ders Kitab).     Activites   Number   Duration (hour)   Total Work Load (hour)     Theoretical   Conje, P.B., 2000. Ruminant Prysiology, Diffestion.   Total Work Load (hour)     Theoretical   Conje, P.B., 2000. Ruminant Prysiology, Diffestion.   Total Work Load (hour)     Theoretical   One of the preparation   National Research Courder Privatory, Diffestion.   Network (hour)     Projects   National Research Courder Privatory, Diffestion.   One of the preparation of	11	Feeding the sheep										
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Final E rams   1   40.00   40.00     Total Work Load   156.00   156.00     Total work load/ 30 hr   R   4.00     ECTS Credit of the Course   0   0.00     Quiz   0   0.00     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 Used in the Course   It is evaluated according to the our university's undergraduate education and training regulations.	Midter	n exams		232	p.	15.00	30.00					
73 TAssesment   156.00     Total Work Load   156.00     Total work load/ 30 hr   R   4.20     ECTS Credit of the Course   4.00     Quiz   0   0.00     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 undergraduate education and training regulations.	Others			0		0.00	0.00					
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Measurement and Evaluation Techniques Used in the It is evaluated according to the our university's undergraduate education and training regulations.	Contrib	oution of Final Exam to Success Grade	;	60.00								
Course undergraduate education and training regulations.	Total			100.00								
24 ECTS / WORK LOAD TABLE			ed 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	5	4	0	0	5	0	0	0	0	0	0	3	0	0	0
ÖK2	5	0	5	0	0	5	0	0	0	0	0	0	4	0	0	0
ÖK3	5	0	4	0	0	5	0	0	0	0	0	0	3	0	0	0
ÖK4	5	0	5	0	0	5	0	3	0	0	0	0	4	0	0	0
ÖK5	5	0	4	0	0	5	0	0	0	0	0	0	4	0	0	0
ÖK6	5	0	4	0	0	5	0	0	0	0	0	0	3	5	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ution			2 low			3 Medium		4 High		5 Very High					