	DIGESTIVE PHYSIOLOGY IN RUMINANTS						
1	Course Title:	DIGESTIVE PHYSIOLOGY IN RUMINANTS					
2	Course Code:	VFZ6010					
3	Type of Course:	Optional					
4	Level of Course:	Third Cycle					
5	Year of Study:	1					
6	Semester:	2					
7	ECTS Credits Allocated:	2.00					
8	Theoretical (hour/week):	1.00					
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. NURTEN YAKAR					
15	Course Lecturers:	Prof. Dr. Nurten GALİP					
16	Contact information of the Course Coordinator:	nurteng@uludag.edu.tr +90 224 294 1273 Uludağ Üniversitesi Veteriner Fakültesi Fizyoloji ABD Görükle Bursa 16059					
17	Website:						
18	Objective of the Course:	The aim of the course is to describe digestive system in ruminants and to explain presentation of digestive system, functions, rumen protozoa and bacterias.					
19	Contribution of the Course to Professional Development:	To increase the knowledge and experience of students about digestive system in ruminants.					
20	Learning Outcomes:						
		1	To be able to explain the digestive tract of ruminants				
		2	To be able to describe rumen microorganisms				
		3	To be able to explain digestion events in rumen				
		4	To be able explain digestion and absorbtion in the intestines				
		5	To be able to explain the importance of volatile fatty acids.				
		6	To be able to describe physiopathology of ruminants				
		7	To be able to describe the digestion differences between monogastrics and ruminants				
		8					
		9					
		10					
21	Course Content:						
	Course Content:						

Week	Theoretical		ΙP	Practice			
1	Ruminants stomach and its developr	ment	T				
_	Calivory alanda and accretos						
2	Salivary glands and secretes						
3	Rumen content Gas production Protein digestion Lipid hydrolysis Fermentation of carbonhydrates Synthesis of B vitamins						
4	Passage of food through the gastroir tract Rumination	ntestinal					
5	Bile and pancreatic secretions Bile flow Secretions of pancreas						
6	Small and large intestines Bowel movements						
7	Development of ruminal papillae Rumen and reticulum absorption, Abomasus and omasus absorption						
Activites				Number	Duration (hour)	Total Work Load (hour)	
Theore	ical			14	1.00	14.00	
Practicals/Labs				0	0.00	0.00	
Self study and preperation				14	1.00	14.00	
Homeworks				1	2.00	2.00	
Projects				0	0.00	0.00	
Field S				0	0.00	0.00	
Mi <b>rity</b> rn দক্ষ্যন্তি athologic conditions of digeston in			L	1	0.00	0.00	
Others			1	2	10.00	20.00	
Final Exams 12 Generaly comparison of digestion between			L	1	10.00	10.00	
I otal V	Vork Load					60.00	
Total work load/ 30 hr			_			2.00	
Materials:			2 A Y 3 R 4 S 5	Şti. Bursa, 2009. 2- Swenson, M. J. Duke's Physiology of Domestic Animals, 10. Ed. Cornell University, Press, Ithaca New York, 1984. 3 Church D.C, Digestive Physiology and Nutrition of Ruminants, USA, Volume 1, 2, 3, 1978. 4-Reece W.O., Veteriner fizyoloji Dukes (Çeviri SedatYıldız, Medipres, Malatya ).2008. 5- Bölükbaşı F.,Fizyoloji Ders Kitabı, Cilt 1, Ankara Ü., Veteriner Fak. Yayınları, Ankara, 1989.			
23 Assesment							
	TERM LEARNING ACTIVITIES NUMBE R			WEIGHT			
Midterm Exam 1			_	30.00			
Quiz	Quiz 1			10.00			

Home work-project	0	0.00		
Final Exam	1	60.00		
Total 3		100.00		
Contribution of Term (Year) Learning Activ Success Grade	ities to	40.00		
Contribution of Final Exam to Success Gra	de	60.00		
Total		100.00		
Measurement and Evaluation Techniques Course	Used in the	test exam		
24 ECTS / WORK LOAD TABLE				

## CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME **QUALIFICATIONS** PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16 ÖK1 ÖK2 ი ÖK3 ÖK4 ÖK5 ÖK6 ÖK7 LO: Learning Objectives PQ: Program Qualifications 1 very low 4 High 5 Very High 2 low 3 Medium Contrib ution Level: