	DIGESTIVE PHYSIOLOGY IN RUMINANTS									
1	Course Title:	DIGEST	IVE PHYSIOLOGY IN RUMINANTS							
2	Course Code:	VFZ6010								
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
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:									
		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		Practice						
1	Ruminants stomach and its developr	nent	T						
2	Salivary glands and secretes								
	Odiivary glarido drid ocorcico								
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	Total Work Load (hour)				
Theore	ical			14	1.00	14.00			
Practicals/Labs				0	0.00	0.00			
Self stu	dy and preperation			14	1.00	14.00			
Homev	vorks			1	2.00	2.00			
Project	Abaaratiaa of autrianta in the anall in			0	0.00				
Field S	tudies			0	0.00				
Mi qt err	PPX%উpathologic conditions of diges	ton in	L	1	0.00				
Others			_	2	10.00	20.00			
Final E	kams Generaly comparison of digestion be	tween		1	10.00	10.00			
Total V	Vork Load					60.00			
	ork load/ 30 hr		_			2.00			
ECTS	Credit of the Course Materials:		2.00 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	1							
TERM I	LEARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterr	m Exam	1	30.00						
Quiz		1	10.00						

Home work-project	0	0.00						
inal Exam 1		60.00						
Total	3	100.00						
Contribution of Term (Year) Learning A Success Grade	ctivities to	40.00						
Contribution of Final Exam to Success	Grade	60.00						
Total		100.00						
Measurement and Evaluation Technique Course	es Used in the	test exam						
24 ECTS / WORK LOAD TAI	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	PQ14	PQ15	PQ16
ÖK1	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK2	5	5	3	4	4	5	4	4	5	5	4	4	0	0	0	0
ÖK3	5	5	3	5	5	5	4	4	4	4	5	5	0	0	0	0
ÖK4	4	4	3	4	4	5	4	4	4	4	4	4	0	0	0	0
ÖK5	4	4	3	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK6	5	5	3	4	4	5	4	4	5	5	4	4	0	0	0	0
ÖK7	5	5	3	5	5	5	5	5	5	5	5	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low 2 low ution Level:				3 Medium			4 High			5 Very High						