CLINICAL LABORATORY DIAGNOSIS I						
1	Course Title:	CLINICA	AL LABORATORY DIAGNOSIS I			
2	Course Code:	VET512	VET5125			
3	Type of Course:	Optional				
4	Level of Course:	First Cyc	First Cycle			
5	Year of Study:	5				
6	Semester:	9				
7	ECTS Credits Allocated:	2.00				
8	Theoretical (hour/week):	1.00				
9	Practice (hour/week):	2.00				
10	Laboratory (hour/week):	0	0			
11	Prerequisites:	None				
12	Language:	Turkish	Turkish			
13	Mode of Delivery:	Face to	Face to face			
14	Course Coordinator:	Prof. Dr.	Prof. Dr. NAZMIYE GÜNEŞ			
15	Course Lecturers:	Prof. Dr. Ayşin ŞEN Doç.Dr.Özgür ÖZYİĞİT Doç.Dr. Murat YALÇIN Prof.Dr. Bayram ŞENLİK Prof.Dr. Ü. POLAT				
16	Contact information of the Course Coordinator:	0 224 29	ngunes@uludag.edu.tr 0 224 2941182 U.Ü.Veteriner Fakültesi Biyokimya ABD			
17	Website:					
18	Objective of the Course:	Being able to determine and interpret biochemical parameters that aid in clinical diagnosis in farm animal medicine, and interpretation and application of physiological, pathological and microbiological methods that aid in clinical diagnosis.				
19	Contribution of the Course to Professional Development:					
20	Learning Outcomes:					
		1	Being able to select and apply biochemical parameters that aid in clinical diagnosis in diseases resulting from pathological and metabolic disorders.			
		2	Being able to interpret results of biochemical values.			
		3	Being able to explain mechanisms of diseases frequently observed in farm animals.			
		4	Being able to comprehend the choosing of clinical material, preserving, and obtaining biopsies in diagnosis of farm animal diseases.			
		5	Being able to utilize diagnostic methods in immune disorders and parasitic infestations frequently observed in farm animals			
		6	Being able to integrate all diagnostic knowledge acquired about farm animal diseases and use in diagnosis of diseases			
		7	Being able to communicate with workers and animal owners for applications regarding material and analysis.			
		8	Being able to disseminate knowledge gained about clinical biochemical methods in diagnosis of farm animal diseases verbally and in writing.			

		9				
		10				
21	21 Course Content:					
		Co	urse Content:			
Week	Theoretical		Practice			
1	Coagulation and diagnosis of clotting disorders		Determination of the clotting time with Lee-White method; Prothrombin time (PT)-Quicks one -stage method			
2	Determination of protozoa and bacteria counts in rumen content, special tests related to rumen content		Determination of protozoa and bacteria counts in rumen content			
3	Clinical enzymology and interpretation		Measurement of serum AST and ALT			
4	Laboratory tests of liver diseases: albumin, globulin, ammonia and urea nitrogen, starvation blood ammonia tolerance test, hypo- and hyperproteinemia, diagnostic approach to hyperglobulinemia		Analysis of serum total protein and gluteraldehyde test			
5	Tests of hepatic metabolism: bilirubin metabolism and icterus, diagnostic approach to urine bilirubin, urobilinogen and high serum bile acids		Ehrlich's benzaldehyde test, determination of urobilinogen and bile acids in urine, the determination of bilirubin by using Fauchet's test, the use of urine strips			
6	Glomerular function tests: interpretat azotemia, creatinine clearance, tubul function tests, other serum biochemic findings in renal diseases	ar	The microscopic examination of urine sediment, interpretation of crystals found in acid and alkaline urine			
7	Plasma calcium fractions, hypo- and		Analysis of calcium and	1		
Activit	res		Number	Duration (hour)	Total Work Load (hour)	
Theore	ical Examination of cerebrospinal fluid a	nd	A case oriented discuss	J _n 00	14.00	
	als/Labs		14	2.00	28.00	
Self stu	Immunologic mechanisms in immune ov and preperation mediated diseases, immunologic) -	Examination of lavage s	amples prepared to Islaughterhouses	rombung	
Homeworks			0	0.00	0.00	
Project	complex mediated diseases	£ tl		0.00	0.00	
Field S	tudies		0	0.00	0.00	
Midtern	bexanhoalveolar lavage		antibody tests, rheumat	Bd @ ctor test	3.00	
Others	Others		1	3.00	3.00	
Final E	প্রতিষ্ঠি and vaginal excretions, transuc	dates	Necropsies	8.00	8.00	
	/ork Load				60.00	
Total w	TExamination and evaluation of lymph ork load/30 hr lasbirates	atic	Examination of lymph nand slaughterhouse ma	ode sampies obtair terials	2.00m biopsy	
	Credit of the Course			CHOIS	2.00	
	interpretation of the results in parasit diseases	ic	parasitology			
22	Textbooks, References and/or Other Materials:		Tietz Textbook of Clinical Chemistry, 3rd Ed., Burtis, C.A., Ashwood, E.R.: Saunders, Philadelphia, 1999 Klinik Laboratuvar Tanı, Turgut K. II. Baskı, İstanbul, 2002 Tıbbi Fizyoloji, Guyton, A.C., Hall J.E., Nobel Yayınevi, İstanbul, 2000 Immunology and Immunupathology of Domestic Animals, Gershwin LJ, Krakowka S, Olsen RG, Mosby, 1995 Manuel and Atlas of Fine Needle Aspiration Cytology, Orell S.R., Sterrett G.F., Walters M.N-I., Whitaker D.,Sec. Ed., Hong Kong, 1994 Veterinarmedizinische Parasitology: Schneider T. Parey Verlag, 2006.			
23	Assesment					

TERM LEARNING ACTIVITIES	NUMBE R	WEIGHT	
Midterm Exam		40.00	
Quiz		10.00	
Home work-project		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)	50.00	
Total		100.00	
Measurement and Evaluation Techniques Us Course	sed in the		
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 ÖK3 ÖK4 ÖK5 ÖK6 ÖK7 Ю ÖK8 LO: Learning Objectives PQ: Program Qualifications Contrib 1 very low 2 low 3 Medium 4 High 5 Very High ution Level: