	CLINICAL L	ABOR	ATORY DIAGNOSIS I						
1	Course Title:	CLINICA	L LABORATORY DIAGNOSIS I						
2	Course Code:	VET5125							
3	Type of Course:	Optional							
4	Level of Course:	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							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	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:	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	Course Content:											
	Course 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 bacte counts in rumen content, special test to rumen content		Determination of protozoa and bacteria counts in rumen content									
3	Clinical enzymology and interpretation	n	Measurement of serum AST and ALT									
4	Laboratory tests of liver diseases: alk globulin, ammonia and urea nitrogen starvation blood ammonia tolerance hypo- and hyperproteinemia, diagnos approach to hyperglobulinemia	test,	Analysis of serum total protein and gluteraldehyde test									
5	Tests of hepatic metabolism: bilirubir metabolism and icterus, diagnostic a to urine bilirubin, urobilinogen and higbile acids	pproach	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: interpretation of azotemia, creatinine clearance, tubular function tests, other serum biochemical findings in renal diseases											
7	Plasma calcium fractions, hypo- and		Analysis of calcium and inorganic phosphor in serum									
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 dy and preperation Imediated diseases, immunologic)-	Examination of lavage s	amples prepared fi slaughterhouses	rombung							
Homew			0	0.00	0.00							
Project	complex mediated diseases		0	0.00								
Field S	tudies		0	0.00								
Midtern	bexaghoalveolar lavage		antibody tests, rheumat	3.00								
Others			1	3.00								
Final E	প্ৰিটেম্ভা 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	2.00 biopsy							
	Credit of the Course				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	1	40.00						
Quiz	1	10.00						
Home work-project	0	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								

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	4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	3	3	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
ÖK7	0	4	0	0	0	0	0	0	3	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	4	0	0	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							