



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Laboratory Examination Techniques							
Course Code		VİH524		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	52 (<i>Hours</i>)	Theory	0	Practice	2	Laboratory	0
Objectives of the Course		Indications of laboratory diagnosis, selection of samples, intake, processing and evaluating, examine of parameters which reflect to myopathy, anemia, kidney, liver, pancreas, thyroid, adrenal gland, acid-base, electrolyte and fluid balance profile							
Course Content		See Weekly Course Topics							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	25
Final Examination	1	60
Assignment	3	15

Recommended or Required Reading

1	Kenneth S. Latimer. Duncan and Prasse's Veterinary Laboratory Medicine: Clinical Pathology, 5th Edition. July 2011, Wiley-Blackwell
2	C. M. Kahn, S. Line; The Merck Veterinary Manual, 10th Edition. Merck, 2010
3	Barger AM. The complete blood cell count: a powerful diagnostic tool. Vet Clin North Am Small Anim Pract. 2003 Nov;33(6):1207-22.
4	Stockham SL, Keeton KS, Szladovits B. Clinical assessment of leukocytosis: distinguishing leukocytoses caused by inflammatory, glucocorticoid, physiologic, and leukemic disorders or conditions. Vet Clin North Am Small Anim Pract. 2003 Nov;33(6):1335-57.

Week	Weekly Detailed Course Contents	
1	Theoretical	selection and recruitment of blood samples
2	Theoretical	processing of blood samples
3	Theoretical	Purchasing techniques of orine samples
4	Theoretical	Physical and chemical urinalysis
5	Theoretical	Microscopic examination of urine
6	Theoretical	techniques of getting rumen fluid
7	Theoretical	rumen fluid examination
8	Intermediate Exam	Midterm
9	Theoretical	Reception and analysis of BOS
10	Theoretical	anemia panel
11	Theoretical	myopathy panel
12	Theoretical	kidney and liver panel
13	Theoretical	Pancreas, thyroid, adrenal gland panel
14	Theoretical	acid baz, electrolyte and fluid balance panel
15	Theoretical	discussion
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	3	0	2	6
Reading	14	0	1	14
Midterm Examination	1	1	1	2



Final Examination	1	1	1	2
Total Workload (Hours)				52
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	select the necessary laboratory panel
2	Receives and processes the instance of the appropriate analysis.
3	Comments Laboratory results
4	Knows the procedure of sending materials to the laboratory.
5	Students will be able to compare different laboratory analyzes.

Programme Outcomes (Internal Diseases (Veterinary Medicine) Master)

1	Among veterinary medicine master of science sufficiency, increasing and deepening relevant knowledge
2	Developing and deepening theoretical and practical knowledge in the field of use, integrating knowledge from different disciplines for interpretation.
3	For Large and Small Animal Internal Medicine, taking into account the systemic clinical examination, realizing the true diagnosis for interpreting the clinical and laboratory findings, and the need to implement effective and rational treatment for taking prophylactic measures.
4	Learning how to access and evaluate relevant information.
5	Quoting updated novelty relevant to Veterinary Internal Medicine by incrisptive, oral and visually.
6	Planning a relevant research study by use of quantative and qualitative data collection, contiuiuing by taking care of scientific ethics, and by evaluation of appropriate statistical methods chosen, converting the investigational and project results into report/thesis.
7	Information obtained in accordance with the requirements of the country and the level of expertise of the region for usage of research public and animal health.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3
P1	5	4	5
P2	4	5	5
P3	4	4	4
P4	4	3	5
P5	3	3	4
P6	3	4	4
P7	4	3	5

