

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Metabolic Diseases and Biochemical Tests							
Course Code		VBY531		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	102 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		Describe the major metabolic diseases of domestic animals and make a determination of biochemical parameters in these diseases							
Course Content		Obesity, stary biochemical p			diseases, r	metabolic disea	ases due to m	nalnutrition and re	elated
Work Placement		N/A							
Planned Learning Activities and Te		and Teaching	Methods	Explanation	(Presenta	tion), Experime	ent, Demonsti	ration, Individual	Study
Name of Lecturer(s)									

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	20				
Final Examination	1	60				
Quiz	2	10				
Assignment	2	10				

Reco	Recommended or Required Reading							
1	1-Temel Klinik Biyokimya(Prof. Dr. Bahattin ADAM, Dr. Zeynep GÖKER, Dr. Yasemin ARDIÇOĞLU),							
2	Lippincott Biyokimya 3. Baskı(Doç. Dr. Engin ULUKAYA),							
3	The biochemistry of cell signalling (Helmreich, E. J. M.),							
4	Subcellular biochemistry (Ed.: Harris, J. Robin)							

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Overview of metabolic diseases				
	Practice	Video presentation about the metabolism and metabolic diseases				
2	Theoretical	Obesite				
	Practice	Brainstorm: How to struggles of Obesity?				
3	Practice	Determination of serum glucose concentration				
4	Theoretical	Diabetes mellitus and Diabetes insipidus				
	Practice	Determination of ADH				
5	Theoretical	Ketosis				
	Practice	Searching for ketones in the urine				
6	Theoretical	Hypoparathyroidism ve hyperparathyroidism				
	Practice	Determination of serum calcium				
7	Theoretical	Hipoadrenokortisim ve hiperadrenokartisizm				
	Practice	Determination of ACTH				
8	Theoretical	Rachitis and osteomalacia				
	Practice	Determination of Vİt D				
9	Practice	Evaluation of Midterm exam				
	Intermediate Exam	Midterm exam				
10	Theoretical	Milk fever ve grass tetany				
	Practice	Determination of Magnesium				
11	Theoretical	Copper deficiency				
	Practice	Determination of Copper				
12	Theoretical	Hepatic lipidosis				
	Practice	Determination of trigliseride				
13	Theoretical	Puerperal hemoglobinüri				
	Practice	Searching for hemoglobine in urine				



14	Theoretical	Glycogen storage diseases ve galactosemia
	Practice	Determination of lactate
15	Theoretical	Fenilcetonuria and cystic fibrosis
	Practice	General evaluation
16	Practice	Evaluation of final exam
	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Assignment	2	5	2	14
Quiz	2	5	2	14
Midterm Examination	1	10	1	11
Final Examination	1	20	1	21
		To	tal Workload (Hours)	102
		[Total Workload (I	Hours) / 25*] = ECTS	4
*25 hour workload is accepted as 1 ECTS				

Learn	ing Outcomes
1	To be able to recognize the metabolik disseases in pets.
2	To be able to examine the causes of this metabolic diseases
3	To be able to identify the increasing and decreasing biochemical parameters of the diseases.
4	To have knowledge about current approaches used in the treatment of these metabolic diseases
5	To be able to analyze some of the parameters.

Progr	ramme Outcomes (Biochemistry (Veterinary Medicine) Master)
1	To be able to tell and describe the interdisciplinary interaction with the associated fields.
2	To be able to express original ideas useing his/her higher education knowledge theoretically and practically information and to be able to creat original definations, products, methods improving and questioning these ideas.
3	To be able to manage a free research according to scientifical and metodological methods and be able to hypothetically and practically about his/her own field.
4	To be able to compose and interpret the information from different disciplines, and create solution suggestions and scientific information which can contribute to the solution process.
5	To be able to involves in professional organizations and institutions related with the educational background.
6	To be able to take responsibility for individual and group work, and do the assignments in line with the skills.
7	To be able to communicate with the professionals out of the field when it is necessary, and contribute to the solution as a team member.
8	To be able to tell about the production and publishing methods of scientific information.
9	To be able to design the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education.
10	To be able to use technological devices both for professional and social purposes.
11	To be able to compose and interpret any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research.
12	To be able to define the environmental health rules and apply them for prevention.
13	To be able to apply the knowledge gained in professional level with the awareness of the needs of the region and the country,

14	To be able to conceptualize the phenomena and the events related with the field; study scientific methods and techniques, interpret results; analyze and hypothesize methods in accordance with the results and design solution or treatment alternatives addressing the problems.
	To be able to interpret the undates of information in the field by using all kinds of sources (scientific information, legislations

To be able to interpret the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and use when needed.

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

	L1	L2	L3	L4	L5
P2	5	5	5		5
P3			5		

and develop a defense capability.



P4		4	4		4
P9		5	5		
P14	5	5	5	4	5
P15					5

