



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Metabolic Diseases of Cattle							
Course Code		VİH522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	51 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Etiology, pathogenesis, clinical presentation, diagnosis, differential diagnosis and treatment of cows with ketosis, milk fever, fatty liver syndrom, hypomagnesemic tetany, hypophosphatemia, postparturent hemoglobinuria, downer cow syndrom and vitamin A deficiency which are the most important metabolic diseases, are described as applied.							
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)		Prof. Hüseyin VOYVODA							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	60
Assignment	2	10

### Recommended or Required Reading

1	Y. Gul. Geviş Getiren Hayvanların İç Hastalıkları (Sığır Koyun Keçi) (Genişletilmiş 3.Baskı). 2012.
2	C. M. Kahn, S. Line; The Merck Veterinary Manual, 10th Edition. Merck, 2010
3	Bradford P. Smith; Large Animal Internal Medicine, 4th Edition. Mosby, 2009
4	Radostits, Otto M. [and others], eds. Veterinary Medicine: A Textbook of the Diseases of Cattle, Sh
5	Blowey, R. W., and Weaver, A. David; Color Atlas of Diseases and Disorders of Cattle, 2nd ed. Mosby, 2003
6	Oetzel GR. Monitoring and testing dairy herds for metabolic disease. Vet Clin North Am Food Anim Pract. 2004 Nov;20(3):651-74.

Week	Weekly Detailed Course Contents	
1	Theoretical	Carbohydrate metabolism disorders
2	Theoretical	Ketosis in cattle
3	Theoretical	Fatty liver syndrome in dairy cows
4	Theoretical	Mineral metabolism disorders
5	Theoretical	Milk fever
6	Theoretical	hypophosphatemia
7	Theoretical	Postpartum hemoglobinuria
8	Intermediate Exam	Midterm
9	Theoretical	Grass tetany
10	Theoretical	Stable tetany
11	Theoretical	Transport tetany
12	Theoretical	Tetany of dairy calves
13	Theoretical	Downer cow syndrome
14	Theoretical	Principles of diagnosis and treatment in metabolic disease
15	Theoretical	Discussion
16	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	2	4
Reading	14	0	1	14



Midterm Examination	1	1	1	2
Final Examination	1	2	1	3
Total Workload (Hours)				51
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Learn about metabolic diseases in cattle
2	Approach to diagnosis of metabolic diseases, improve the skills and knowledge about the treatment and prevention
3	Improve the ability of applicability and availability in practice had learned about the of information about metabolic diseases.
4	Knows herd screening tests related to metabolic diseases.
5	Takes protective measures on the basis of herd of metabolic diseases.

### 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	3	4	4
P2	4	5	5
P3	5	5	5
P4	3	3	3
P5	3	3	3
P6	2	3	3
P7	3	4	4

