AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Carbonhydrate and Lipid Metabolism Disorders in Cattle						
Course Code	VİH634		Couse Level	Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	129 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Disorders related to the lipolysis and glucosis-homeotasysis with the hormonal controlling of the carbohydrate and fat metabolism, lipomobilization syndrome, causes of the deficiency of ketosis and milk fat syndrome, clinical and laboratory symptoms, diagnostics and retractor diagnosis, investigation of treatment and protection subjects.						
Course Content	See weekly course topics.						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Demonstration, Discussion, Case Study				
Name of Lecturer(s)	Prof. Kerem URAL, Prof. Mehmet GÜLTEKİN						

Assessment Methods and Criteria

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

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, Sheep, Pigs, Goats and Horses. 10th ed. WB Saunders, 2007
5	Blowey, R. W., and Weaver, A. David; Color Atlas of Diseases and Disorders of Cattle, 2nd ed. Mosby, 2003

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to carbohydrate and lipid metabolism
2	Theoretical	Hormonal regulation of carbohydrate and lipid metabolism
3	Theoretical	Lipolysis
4	Theoretical	Risk factors for carbohydrate and lipid metabolism disorders
5	Theoretical	Clinical findings in carbohydrate and lipid metabolism disorders
6	Theoretical	Metabolic profile tests in carbohydrate and lipid metabolism disorders
7	Theoretical	Approach to diagnosis in carbohydrate and lipid metabolism disorders
8	Intermediate Exam	Midterm
9	Theoretical	Treatment principle of carbohydrate and lipid metabolism disorders
10	Theoretical	Ketosis
11	Theoretical	Lipomobilization Syndrome in dairy cow
12	Theoretical	Puerperal hepatic coma
13	Theoretical	Prophylaxis in carbohydrate and lipid metabolism disorders
14	Theoretical	Case evaluation
15	Theoretical	Discussion
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	4	0	15	60
Reading	14	0	1	14
Midterm Examination	1	0	11	11

Final Examination	1	0	16	16
			Total Workload (Hours)	129
			[Total Workload (Hours) / 25*] = **ECTS**	5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Know the pathophysiology of disorders of carbohydrate and fat metabolism in cattle.
2	Defines the disorders of carbohydrate and fat metabolism with the clinical and laboratory diagnosis
3	Take prophylactic precautions.
4	Makes differential diagnosis of patients.
5	Determine the prognosis of patients.

Programme Outcomes *(Internal Diseases (Veterinary Medicine) Doctorate)*

1	Based on acquirements relevant to undergraduate and/or graduate levels, usage of associated information deeply, development of knowledge by several methods along with reaching peculior results.
2	Detecting relevant problems, establishing hypothesis against solution, acquirement of solving hypothesis within computational and experimental methods.
3	A systematic approach of evaluating and using new knowledge on related field.
4	Usage of previously known scientific methods related to field for advanced/newly known/occuring problems.
5	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.
6	Detecting the problems related to Turkish animal husbandry related to herd health and prophylactic veterinary surgeon.
7	Reviewing and usage of all related data (field observations, scientific knowledge) for requirements.
8	Innovation in the field of science, the scientific method for a new area of development and application of a method known to have one of a new plan that for.
9	Following, evaluating, presenting and discussing the international literature in the field of Veterinary Internal Medicine.
10	Offering all kinds of development and innovation in the field of appropriate methods, the economic and social advancement of the society for contribution.

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	3	4	4
P3	4	4	4
P4	4	4	4
P5	4	4	4
P6	5	5	5
P7	4	4	4
P8	5	4	4
P9	4	4	4
P10	5	5	5