



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Diagnosis and Treatment of Liver Diseases in Ruminant and Horse							
Course Code		VİH645		Coure Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	104 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Causes of hepatic diseases (toxic, infectious, inflammatory, neoplastic, metabolic, and obstructive) in cattle, sheep, goats and horses, clinical findings of hepatic failure, biochemical tests assessing the cell necrosis, cholestasis, capacity of synthesis with bile acids and bilirubin metabolism, metabolic load tests, ultrasonographic examination, hepatic biopsy, investigation of the symptomatic and etiological treatment.							
Course Content		See Weekly Course Topics							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)		Assoc. Prof. Songül ERDOĞAN, Prof. Mehmet GÜLTEKİN							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	60
Assignment	3	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	N. E. Robinson, K. A. Sprayberry; Current Therapy in Equine Medicine, 6th Edition. WB Saunders, 2009
5	S. M. Reed, Warwick M. , D. C. Sellon; Equine Internal Medicine, 3rd Edition. WB Saunders, 2009
6	Derek C. Knottenbelt; Saunders Equine Formulary. WB Saunders, 2006
7	D. C. Sellon, M. Long; Equine Infectious Diseases. WB Saunders, 2006
8	D. C. Knottenbel, R. R. Pascoe; Color Atlas of Diseases and Disorders of the Horse. Butterworth-Heinemann, 2003
9	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
10	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	Etiology of liver diseases
2	Theoretical	Patogenesis of liver diseases
3	Theoretical	Clinical evaluation in hepatic failure
4	Theoretical	Laboratory signs in liver diseases
5	Theoretical	Metabolic Loading Tests
6	Theoretical	Radiographic and Ultrasonographic Examination
7	Theoretical	Liver biopsy
8	Intermediate Exam	Midterm
9	Theoretical	Diagnosis and Differential Diagnosis of Liver Diseases
10	Theoretical	Prognosis of Liver Diseases
11	Theoretical	Etiologic treatment of liver diseases
12	Theoretical	Symptomatic treatment of liver diseases
13	Theoretical	Prophylaxis Liver Disease
14	Theoretical	Case Assessments
15	Theoretical	Discussion
16	Final Exam	Final



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	3	0	15	45
Reading	14	0	1	14
Midterm Examination	1	5	1	6
Final Examination	1	10	1	11
Total Workload (Hours)				104
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Reviews of clinical and laboratory findings of liver diseases in ruminants and horses.
2	Interpreting the findings for making diagnosis.
3	Performs symptomatic and etiologic treatment.
4	Knows the complications of liver diseases.
5	Evaluates 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 peculiar 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/occurring 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	4	4	4
P2	4	3	3
P3	3	3	3
P4	5	4	4
P5	5	5	5
P6	3	3	3
P7	3	3	3
P8	2	2	2
P9	3	3	3
P10	3	3	3

