



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Pathology of Nutritional Diseases							
Course Code		VPT631		Coure Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	54 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		Hypervitaminosis and hypovitaminosis of vitamin A and D, hypovitaminosis of vitamin E and K; hypovitaminosis of vitamin B1, B2, B6, B12, Deficiency of Niasin, Acid pantotenic, Folic acid, Biotin, Ascorbic acid, Mineral deficiency ( Calcium, Phosphor, Magnesium, Potassium, Natrium, Clor, Flor, Sulphure, Selenium, Copper, Iron, Cobalt, Zinc, Molybdenum, Iodine),							
Course Content		Hypervitaminosis and hypovitaminosis of vitamin A and D, hypovitaminosis of vitamin E and K; hypovitaminosis of vitamin B1, B2, B6, B12, Deficiency of Niasin, Acid pantotenic, Folic acid, Biotin, Ascorbic acid, Mineral deficiency ( Calcium, Phosphor, Magnesium, Potassium, Natrium, Clor, Flor, Sulphure, Selenium, Copper, Iron, Cobalt, Zinc, Molybdenum, Iodine),							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	K.V.F. Jubb, P. C.Kennedy, N. Palmer (1992). Pathology of Domestic Animals volume 1. 4th edition. Academic Pres Inc.
2	K.V.F. Jubb, P. C.Kennedy. N. Palmer (1992). Pathology of Domestic Animals volume 2. 4th edition. Academic Pres Inc.

Week	Weekly Detailed Course Contents	
1	Theoretical	Hypervitaminosis and hypovitaminosis of vitamin A and D
	Preparation Work	Book
2	Theoretical	Hypovitaminosis of vitamin E and K
	Preparation Work	Book
3	Theoretical	Hypovitaminosis of vitamin B1, B2, B6, B12
	Preparation Work	Book
4	Theoretical	Deficiency of Niasin
	Preparation Work	Book
5	Theoretical	Deficiency of Acid pantotenic,
	Preparation Work	Book
6	Theoretical	Deficiency of Folic acid
	Preparation Work	Book
7	Theoretical	Deficiency of Biotin
	Preparation Work	Book
8	Preparation Work	Book
	Intermediate Exam	Mid term Exam
9	Theoretical	Deficiency of Ascorbic acid
	Preparation Work	Book
10	Theoretical	Mineral deficiency
	Preparation Work	Book
11	Theoretical	Mineral deficiency ( Calcium, Phosphor, Magnesium)
	Preparation Work	Book
12	Theoretical	Mineral deficiency (Potassium, Clor, Flor,)
	Preparation Work	Book
13	Theoretical	Mineral deficiency (Sulphure, Selenium, Copper, Iron)
	Preparation Work	Book



14	Theoretical	Mineral deficiency (Cobalt, Zinc, Iodine)
	Preparation Work	Book
15	Theoretical	Overview
	Preparation Work	Book
16	Preparation Work	Book
	Final Exam	Final Exam
17	Preparation Work	Book
	Final Exam	Final Exam

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Assignment	1	8	2	10
Midterm Examination	1	6	1	7
Final Examination	1	8	1	9
Total Workload (Hours)				54
[Total Workload (Hours) / 25*] = <b>ECTS</b>				2
*25 hour workload is accepted as 1 ECTS				

**Learning Outcomes**

1	To have knowledge about hypervitaminosis and hypovitaminosis in vitamins A, D, E and K
2	To have knowledge about B1, B2, B6, B12, Niacin, pantothenic acid, folic acid, biotin, ascorbic acid deficiencies
3	To have knowledge about insufficiencies and excessive intake of mineral substances
4	To have knowledge about amino acid deficiencies and protein, fat and carbohydrate metabolism
5	To have knowledge about water metabolism

**Programme Outcomes (Pathology (Veterinary Medicine) Doctorate)**

1	The student knows lesions of organs and tissues as well as pathological mechanisms of infectious/noninfectious diseases of especially farm and pet animals.
2	The student intensify theoretical and practical knowledge.
3	The student will learn and apply a variety of theoretical methods of diagnosis.
4	Students macroscopic and microscopic signs of diseases characterized by evaluating the clinical findings and examine the comparative.
5	
6	
7	
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**Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High**

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	5	5	5	5	5

