



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY PHYSIOLOGY
PHYSIOLOGY (VETERINARY)
PHYSIOLOGY (VETERINARY) MASTER
COURSE INFORMATION FORM

Course Title	Digestive Physiology								
Course Code	VFZ502		Course Level		Second Cycle (Master's Degree)				
ECTS Credit	6	Workload	150 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	To investigate that comparative study of the digestive tract in different animal species and functional mechanisms of the digestion, the general properties of gastrointestinal function, differences of the food intake and factors which affect food intake, digestion and absorption in the stomach and intestine								
Course Content	General features of gastrointestinal function, food intake, contractions in gastrointestinal tract, the secretory function of the digestive tract, digestion and absorption in the gastrointestinal tract								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Prof. Muharrem BALKAYA								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	38
Final Examination	1	60
Quiz	4	1
Term Assignment	1	1

Recommended or Required Reading

1	Reece W.O. (2008) Dukes Veteriner Fizyoloji Cilt I ve II, Onikinci Baskı (Türkçe Çeviri). Ed: Yıldız S. Medipres, Malatya
2	Guyton AC, Hall JE (2001) Tıbbi Fizyoloji Onuncu baskı (Türkçe Çeviri). Ed: Çavuşoğlu H. Nobel Tıp Kitabevi, İstanbul
3	Noyan A. (2003). Yaşamda ve Hekimlikte Fizyoloji. 13. baskı, Meteksan-Ankara
4	Randall D., Burggren W., French K, Fernald R., (1997). Eckert Animal Physiology. Mechanisms and Adaptations. 4th Ed., New York
5	G.C. Whittow et al. (1998). Sturke's Avian Physiology
6	Willmer P., Stone G., Johnston I. (2005). Environmental Physiology of Animals. 2nd Ed. Blackwell Publishing
7	Despopoulos A., Silbernagl S. (2003). Color Atlas of Physiology 5th Ed. Thieme, Stuttgart New York
8	Vander et al. (2001). Human Physiology: The Mechanism of Body Function, 8th Ed. The McGraw-Hill Companies

Week	Weekly Detailed Course Contents	
1	Theoretical	Development of digestion in newborn
	Practice	Examination of food intake in carnivore
2	Theoretical	Carnivore, herbivore and omnivore animals
	Practice	Examination of food intake in herbivore
3	Theoretical	Nutrition of food into mouth
	Practice	Examination of food intake in omnivore
4	Theoretical	Appetite, thirst and hunger
	Practice	Examination of pH in secretions of the digestive tract
5	Theoretical	Chewing, the composition of saliva
	Practice	Protein digestion



6	Theoretical	Digestion in mouth
	Practice	Digestion of carbohydrates
7	Theoretical	Digestion in stomach
	Practice	Digestion of fats
8	Theoretical	Midterm
	Practice	Midterm
9	Theoretical	Contractions of small intestine
	Practice	Recording of the contractions of small intestine
10	Theoretical	Intestine secretions
	Practice	Effects of different ions on motility
11	Theoretical	The secretion of bile
	Practice	Effects of different drugs on motility
12	Theoretical	Çeşitli hormonların motiliteye etkileri
	Practice	Effects of hormones on motility
13	Theoretical	Digestion in large intestine
	Practice	Recording of the contractions of large intestine
14	Theoretical	Defecation
	Practice	In-situ investigation of gastrointestinal tract
15	Theoretical	Absorption of small intestine
	Practice	Examination of feces

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	1	2	42
Assignment	4	2	1	12
Quiz	4	2	1	12
Midterm Examination	1	12	1	13
Final Examination	1	14	1	15
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To have knowledge about comparative examination of the digestive tract in different animal species and the processing of the digestion
2	To know general properties of gastrointestinal function
3	To learn differences and factors affecting food intake
4	To have knowledge about digestion in stomach and intestine
5	To learn absorption physiology



Programme Outcomes (Physiology (Veterinary) Master)

1	Understands and defines the interdisciplinary interaction with the associated fields
2	Uses theoretical and practical information learned in the education
3	Creates solution proposals by using background education
4	Combines and interprets the information from different disciplines, and creates solution proposals and scientific information to contribute the solution process, when needed
5	Involves in professional organizations and institutions related with the educational background
6	Takes responsibility for individual and group work, and do the assignments in line with the skills
7	Communicates with the professionals out of the field when it is necessary, and contributes to the solution as a team member
8	Understands the production and publishing methods of scientific information
9	Determines 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	Excels technological devices both for professional and social purposes
11	Compiles 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	Determines the environmental health rules and applies them for prevention
13	Applies the knowledge gained in professional level with the awareness of the needs of the region and the country, and develops a defense capability
14	Conceptualizes the phenomena and the events related with the field, studies scientific methods and techniques, interprets results; analyzes and hypothesizes methods in accordance with the results and designs solution or treatment alternatives addressing the problems
15	Follows up the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and uses 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
P1	2	2	2	2	2
P2	4	4	4	4	4
P3	4	4	4	4	4
P4	2	2	2	2	2
P5	3	3	3	3	3
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	2	2	2	2	2
P9	2	2	2	2	2
P10	2	2	2	2	2
P11	4	4	4	4	4
P12	1	1	1	1	1
P13	3	3	3	3	3
P14	3	3	3	3	3
P15	3	3	3	3	3

