

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Central Nervous System and Special Senses					
Course Code	VFZ625 Couse Level Third Cycle (Doctorate De		torate Degr	ee)		
ECTS Credit 6	Workload 150 (Hours)	Theory 2	Practice	0	Laboratory	0
Objectives of the Course	bjectives of the Course The understanding of physiological mechanisms of the basic principles of the nerve physiology and special senses					ind
Course Content  The anatomical structure of the central nervous system, cerebrospinal fluid, polysynaptic reflexes, moto activity, hypothalamus, limbic system, vision, hearing, taste and smell senses.					s, motor	
Work Placement N/A						
Planned Learning Activities	Explanation (Presenta	tion), Discussion,	Individual S	tudy, Problem S	olving	
Name of Lecturer(s)						

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

Reco	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:						
3	Light D (2005). Your Body How It Works. The Senses. Chelsea House Publishing.						
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 Co.	urse Contents
1	Theoretical	Reklex arc
2	Theoretical	Impulse and features of synapse
3	Theoretical	Neurotransmitters
4	Theoretical	Pedunculus
5	Theoretical	Thalamus
7	Theoretical	Cerebellum
8	Theoretical	Midterm
9	Theoretical	Reflexes of medulla spinalis
10	Theoretical	Hypothalamus
11	Theoretical	Photoreceptors in retina and vision
12	Theoretical	Physiology of auditory
14	Theoretical	Taste, odor, feeling
15	Theoretical	Presentations
16	Final Exam	Final examination
17	Final Exam	Final Examination

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	2	2	56		
Assignment	4	2	1	12		



Term Project	1	30	1	31		
Quiz	4	2	1	12		
Midterm Examination	1	12	1	13		
Final Examination	1	25	1	26		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = <b>ECTS</b> 6						
*25 hour workload is accepted as 1 ECTS						

## **Learning Outcomes**

- 1. To have knowledge about reflex arc, synapses and its features
- 2 2. To have knowledge about effector organs, central and autonomic nervous systems
- 3 3. To be informed about physiological functions of the parts of the brain and cerebellum
- 4. To be informed about the occurrence of the stimulus in the special sense receptors
- 5. To be informed about the transmission and interpretation of the stimuli of the special senses in the central nervous system

## **Programme Outcomes** (Physiology (Veterinary Medicine) Doctorate)

- Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels
- Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed
- 3 Is knowledgeable about theories and practices in methodological and scientific research methods to run an independent research
- 4 Excels in the laboratory, clinical and similar fields by using the theoretical and practical information gained in former education, and has the ability to create solutions in related fields
- 5 Designs and develops scientific methodology for the advanced level/newly defined/emerged problems about the field
- 6 Excels in the known scientific methods in the field for the advanced level/ newly defined/emerged problems
- 7 Designs unique researches and implements independently
- 8 Analyzes, synthesizes and evaluates the new ideas in related fields by using critical thinking
- 9 Plans, creates teams and carries out the interdisciplinary research projects in order to create solutions to the known/newly defined problems
- Joins to congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions in different disciplines, and exchanges information with the other professionals to contribute to the solutions
- Broadens the borders of scientific information by publishing scientific articles in national and/or international peer-reviewed journals
- 12 Creates new ideas and methods to contribute to the technological, social and cultural progress, or to help the development of information society by using the theoretical, practical, independent research, abilities responsibly
- 13 Designs and implements social projects with the awareness of creating an information society
- 14 Compiles and interprets any type of data (field observation, scientific knowledge etc.) in accordance with the aims
- 15 Develops and uses strategies about related topics with the field
- 16 Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary
- Follows up and uses all the updates about the field (scientific information, legislations etc.), and has the qualification to change them
- Adopts lifelong learning as a principle and acknowledges that the information gained through research is the most valuable gain

## 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	2	2	2	2	2
P4	3	3	3	3	3
P5	2	2	2	2	2
P6	2	2	2	2	2
P7	1		1	1	1
P8	3	3	3	3	3
P10	3	3	3	3	3
P11	4	4	4	4	4
P12	2	2	2	2	2



P13	2	2	2	2	2
P14	4	4	4	4	4
P15	4	4	4	4	4
P16	4	4	4	4	4
P17	4	4	4	4	4
P18	4	4	4	4	4

