



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Avian Endocrine System							
Course Code		VHE663		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		Histological structure of the chicken of the poultry species that compose the endocrine system pituitary, pineal, thyroid, parathyroid, ultimobronşiol bodies and adrenal glands.							
Course Content		Chicken endocrine system organs: pituitary, pineal, thyroid, parathyroid, ultimobronşiol bodies and adrenal glands.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study					
Name of Lecturer(s)		Lec. Göksel DOĞAN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Sağlam M, Aştı RN, Özer A. (2001) Genel Histoloji Ders Kitabı, Yorum Matbaacılık, Ankara.
2	Kierszenbaum, A. L. (2007) Histology and Cell Biology. An introduction to Pathology, Mosby, Elsevier, Kanada.
3	Özer, A. (2010). Veteriner Özel Histoloji, Nobel Yayın Dağıtım, Ankara.
4	Alberts, B., Johnson, A., Lewis, J., Raff, M., Roberts, K., Walter, P. (2008). Molecular Biology of the Cell, Garland Science, U.S.A.
5	Banks, W.J. (1986). Applied Veterinary Histology, Williams&Wilkins, U.S.A.
6	Hodges R. D. The Histology of the Fowl.. Published by Academic Press, London. 1974.

Week	Weekly Detailed Course Contents	
1	Theoretical	Histology of the chicken endocrine system
2	Theoretical	Histology of the chicken endocrine system
4	Theoretical	Histological structure of the pituitary
5	Theoretical	Hormones of the pituitary
6	Theoretical	Histological structure of the pineal gland
7	Theoretical	Hormones of the pineal gland
8	Intermediate Exam	Midterm
9	Theoretical	Histological structure of the thyroid and parathyroid
10	Theoretical	Hormones of the thyroid and parathyroid
11	Theoretical	Histological structure of the ultimo bronchial body
12	Theoretical	Histological structure of the adrenal glands.
13	Theoretical	Hormones of the adrenal glands.
14	Theoretical	Article discussion
15	Theoretical	Article discussion



16	Final Exam	Final exam
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Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Midterm Examination	1	14	1	15
Final Examination	1	20	1	21
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	General knowledge about chicken endocrine system organs and hormones.
2	Histological structure and hormones of the pituitary and pineal glands.
3	Histological structure and hormones of the thyroid and parathyroid glands.
4	Histological structure and hormones of the ultimobronchioles bodies .
5	Histological structure and hormones of the adrenal gland.

Programme Outcomes (Histology and Embryology (Veterinary Medicine) Doctorate)

1	Gains expert knowledge on the function and basic histological features of cells, tissues and systems in animals.
2	Gains expert knowledge on the stages of embryonal and fetal development in both mammals and birds.
3	Based on his/her training during the Master of Science program, he/she has in depth knowledge in the field of histology/embryology as well as in areas related to his/her area of expertise.
4	Using basic knowledge gained during the undergraduate and master of science program, develops ,critically evaluates and tests novel ideas in his/her area of expertise.
5	Endowed with theoretical and practical knowledge as for the scientific research and methodology to be able to conduct an independent research project.
6	Has theoretical knowledge concerning skills (leadership, entrepreneurship, ability to reach information technologies, organization, industrial correspondence etc.). Knows laws and regulations concerning his/her area of expertise and related subjects.
7	Determines and uses laboratory equipment and consumables in a histology laboratory. Has the ability to solve problems in his/her area of expertise.
8	Has the ability to design and develop scientific methodology concerning new developments in his/her area of expertise. Has the ability to put established methods in use to tackle current problems in his/her area of expertise.
9	Designs and conducts an independent research project on his/her own.
10	Critically evaluates and reaches to a synthesis of new ideas in his/her area of expertise and related fields.
11	Uses and develops modern technologies in his/her area of expertise towards the industry in a systematic and critical manner.
12	Performs his/her expertise with the recognition of the rights and responsibilities obtained with the completion of doctorate program in histology/embryology.
13	Is able to break down new and immature ideas into simple components and suggest alternative solutions by using his/her ability to recognize possible relationships among these components.
14	If the need arises, designs an interdisciplinary research project , forms a team, leads and finalizes the research project to solve an old or a new problem in the field of histology/embryology.
15	Attends to activities such as congresses, panels, symposiums, workshops, seminars, journal clubs in his/her area of expertise, shares information in his/her area of expertise and contributes to the solution of a problem by interacting with experts in other fields.
16	Expands a growing body of information in his/her area of expertise by publishing scientific articles in national and international journals.
17	Is in recognition of taking professional and ethical responsibilities.
18	Develop new ideas and methods that has the potential to ignite social and cultural progress or add values to the information society by using practical and theoretical knowledge gained throughout his/her training and his/her skill to work independently and to take responsibilities.
19	Makes the concept of life-long learning a matter of principle and recognizes the fact that evidence-based information is the most important gain of education.
20	Provides information and manages information exchanges on issues of public and animal health in committees with the aim of defining and solving a problem using his/her expertise.

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2
P1	5	5



P3	4	4
P4	5	5
P12	4	4
P13	4	4
P17	3	3
P18	4	4
P19	4	4
P20	4	4

