



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		The Reproductive System of the Fowl							
Course Code		VHE647		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		To learn the development of primordial germ cells in the avian embryo, to understand histology of tissues forming the male and female genital systems, oogenesis and spermatogenesis.							
Course Content		The male reproductive system, the female reproductive system							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study					
Name of Lecturer(s)									

### 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	Junqueira LC, Carneiro J. (2005) Basic Histology, The McGraw-Hill companies, USA
3	Kierszenbaum, A. L. (2007) Histology and Cell Biology. An introduction to Pathology, Mosby, Elsevier, Kanada.
4	Özer, A. (2010). Veteriner Özel Histoloji, Nobel Yayın Dağıtım, Ankara.

Week	Weekly Detailed Course Contents	
1	Theoretical	T: Anatomy of the avian reproductive system
2	Theoretical	T: Development of primordial germ cells
3	Theoretical	T: Female reproductive system
4	Theoretical	T: Ovarium
5	Theoretical	T: Oogenesis
6	Theoretical	T: Oogenesis
7	Theoretical	T: Oviduct
8	Intermediate Exam	Mid-term examination
9	Theoretical	Ovulasyon-ovipozisyon siklusu Ovulation-oviposition cycle
10	Theoretical	Structure of the egg cell
11	Theoretical	Male genital system
12	Theoretical	Ducts within the testes responsible for the transportation of germ cells
13	Theoretical	Spermatogenesis
14	Theoretical	Sperm production and storage
15	Theoretical	Structure of spermatozoa in different avian species
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	2	1	3	8
Midterm Examination	1	20	1	21
Final Examination	1	31	1	32
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	Understands the differentiation and development of primordial germ cells in the avian embryo
2	Gains expert information on the histology of tissues forming the male and female genital systems
3	Gains expert information on oogenesis .
4	Gains expert information on spermatogenesis.
5	Understand the histology of reproductive system in poultry

**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	L3
P1	5	5	5
P2	2	2	2
P3	4	4	4
P4	5	5	5

