

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Integument, Eye and Ear						
Course Code	VHE643	Couse Level	Third Cycle (Doctorate Degree)			
ECTS Credit 3	Workload 75 (Hours)	Theory 2	Practice	0 La	boratory	0
Objectives of the Course	The aim of the course is to (sensory receptors, nerv er inner ear).					
Course Content	Skin, hypodermis, epiderm accessory structures of the			ptors, nerv en	dings, bulbus oc	uli,
Work Placement	N/A					
Planned Learning Activities	and Teaching Methods	Explanation (Present	ation), Demonstratio	on, Discussion	n, Individual Stud	у
Name of Lecturer(s)	Prof. Ülker EREN					

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading						
1	The student learns histology of skin, hypodermis, epidermoidal objects.					
2 The student gains development and biology of epidermis cells.						
3	The student learns sensory receptors and nerve endings.					
4	The student learns layer of bulbus oculi.					
The student gains histology and functions of external ear, middle ear, internal ear.						

Week	Weekly Detailed Cour	rse Contents				
1	Theoretical	Anatomic structure of the skin: Skin, hypodermis, epidermoidal objects Histological structure of hypodermis				
2	Theoretical					
3	Theoretical	Epidermal cells: Melanocytes, Langerhans cells, keratinocytes, Merkel cells.				
4	Theoretical	The differentiation of keratinocytes -article discussion				
5	Theoretical	Dermis				
6	Theoretical	Vessels and Sensory receptors of the skin				
7	Theoretical	Epidermal formations: Hairs, skin glands and the horny formations				
8	Intermediate Exam	Midterm				
9	Theoretical	Introduction to Sensory system: Sensory receptors and nerve endings				
10	Theoretical	Layers of eyeball				
11	Theoretical	Protective devices of eye				
12	Theoretical	Ear: Organ of hearing and balance				
13	Theoretical	External ear,				
14	Theoretical	Middle ear				
15	Theoretical	Inner ear				
16	Final Exam	Final Exam				

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	2	28			
Assignment	2	5	1	12			
Laboratory	3	1	1	6			
Midterm Examination	1	10	1	11			



Final Examination	1	17	1	18
		To	tal Workload (Hours)	75
		[Total Workload (Hours) / 25*] = ECTS	3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

- 1 The student learns histology of skin, hypodermis, epidermoidal objects.
- 2 The student gains development and biology of epidermis cells...
- 3 The student learns sensory receptors and nerve endings.
- 4 student learns layer of bulbus oculi
- 5 The student gains histology and functions of external ear, middle ear, internal ear.

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.
- 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.
- 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.
- Performs his/her expertise with the recognition of the rights and responsibilities obtained with the completion of doctorate program in histology/embryology.
- ls 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.
- 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.
- 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.
- 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.
- 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.
- 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	L4	L5
P1	5	5	5	5	5
P3	4	4	4	4	4
P4	3	3	3	3	3
P5	3	3	3	3	3

