

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Cartilage and	Bone							
Course Code	VHE522		Couse Level		5	Second Cycle (Master's Degree)			
ECTS Credit 2	Workload	50 (Hours)	Theory	2	F	Practice	0	Laboratory	0
Objectives of the Course To teach the histological stru				cartilage a	nd bo	one tissue			
Course Content Properties of cartilage tissu Properties of bone tissue,							vth.		
Work Placement N/A									
Planned Learning Activities and Teaching Methods				tion (Prese al Study	ntatio	on), Experime	ent, Demons	stration, Discussion	n,
Name of Lecturer(s) Prof. Şadiye KUM									

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

Reco	mmended or Required Reading
1	Alberts B, Bray D, Lewis J, Raff M, Roberts K, Watson JD. (1989) Molecular Biology of the Cell, Garland Publishing, Inc. London.
2	Artan E. (1988) Histoloji, İstanbul
3	Banks WJ. (1986) Applied Veterinary Histology, Williams & Wilkins, USA.
4	Dellman HD, Brown LM. (1987) Textbook of Veterinary Histology, Lea&Febiger, USA.
5	Gartner LP, Hiatt JL. (1997) Color Textbook of Histology, W.B. Saunders Company, USA.
6	Junqueira LC, Carneiro J. (1983) Basic Histology, The McGraw-Hill Companies, USA
7	Leeson RR, Leeson TS, Paparo AA. (1985) Textbook of Histology, W.B. Saunders Company. USA
8	Ross MH, Reith EJ, Romrell LJ. (1989) Histology.A Text and Atlas, Williams & Wilkins, London
9	Sağlam M, Aştı RN, Özer A. (2001) Genel Histoloji Ders Kitabı, Yorum Matbaacılık, Ankara

Week	Weekly Detailed Course Contents						
1	Theoretical	Properties of cartilage tissue					
2	Theoretical	Properties of cartilage tissue					
3	Theoretical	Hyaline cartilage					
4	Theoretical	Hyaline cartilage					
5	Theoretical	Elastic cartilage					
6	Theoretical	Elastic cartilage					
7	Theoretical	chondrogenesis					
8	Intermediate Exam	Midterm exam					
9	Theoretical	The chemical composition of bone matrix					
10	Theoretical	Histological structure of bone tissue					
11	Theoretical	Kemik hücreleri					
12	Theoretical	Bone cells					
13	Theoretical	Ossification					
14	Theoretical	Ossification					
15	Theoretical	Image monitoring					
16	Final Exam	Final exam					

Workload Calculation							
Activity Quantity Preparation Duration Total Workle							
Lecture - Theory	14	0	2	28			
Midterm Examination	1	10	1	11			



Final Examination	1		10	1	11	
Total Workload (Hours)				50		
[Total Workload (Hours) / 25*] = ECTS 2					2	
*25 hour workload is accepted as 1 ECTS						

Learr	ing Outcomes	
1	Knows the structure of cartilage tissues.	
2	Knows the types of cartilage tissues.	
3	Knows that the bone tissue.	
4	Knows that the ossification.	
5	Knows the types of bone.	

Progr	ramme Outcomes (Histology and Embryology (Veterinary Medicine) Master's Without Thesis)
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	Comprehends and defines interactions among disciplines related to histology-embryology.
4	Knows national and international laws and regulations concerning histology and embryology.
5	Determines and uses laboratory equipment and consumables in a histology laboratory.
6	Forms ideas to solve complex problems using theoretical and practical information gained throughout the histology/embryology education.
7	Integrates and interprets information in the area of histology/embryology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
8	Performs his/her expertise with the recognition of the rights and responsibilities obtained with the completion of the master of Science in histology/embryology.
9	Develop alternative strategies to solve national and international problems in the field of histology/embryology using expert knowledge and expertise in histology/embryology obtained during his/her training, solves them and evaluates the data . If the need arises, takes a part as a team member to solve problems outside his/her field.
10	Takes responsibility in individual and collective work and completes his/her duties. Takes professional and ethical responsibilities.
11	Comprehends methods associated with attainment and presentation of scientific information.
12	Evaluates his/her expert information gained during the master of Science critically and determines new information and sources of information and attends to activities to complement his/her educational deficiencies
13	For his/her professional development, evaluates and uses any available information and activity in his/her studies.
14	If the need arises, gives information and organizes activities to define a problem in his/her field of expertise.
15	Takes responsibilities in professional organizations and committees related to his/her field of expertise.
16	Relying on his/her professional skills and rights, he/she plans and realizes projects with the conciseness of social responsibility. He/she follows the developments in the world and is sensitive to events.
17	In order to maintain his/her professional development and to have social interactions, he/she uses at least one foreign language.
18	Uses advanced technological means that might be necessary for both professional applications and social interactions.
19	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose Develops and uses strategies in his/her field of expertise.
20	Applies and defines his/her expert knowledge with realizing the needs of the region and the country.

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
P2	2	2	2	2	2
P3	4	4	4	4	4
P5	4	4	4	4	4
P6	3	3	3	3	3
P7	4	4	4	4	4
P8	4	4	4	4	4
P10	4	4	4	4	4
P11	4	4	4	4	4
P12	4	4	4	4	4
P13	4	4	4	4	4



P19 4 4 4 4 4 4

