GENERAL TISSUES IN ORGANISM IV (BONE AND CARTILAGE TISSUES)

1	Course Title:	GENERAL TISSUES IN ORGANISM IV (BONE AND CARTILAGE TISSUES)
2	Course Code:	VHE6015
3	Type of Course:	Compulsory
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. NESRIN ÖZFİLİZ
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	nesrin@uludag.edu.tr Bursa Uludağ Üniversitesi Veteriner Fakültesi Histoloji ve Embriyoloji Anabilim Dalı
17	Website:	
18	Objective of the Course:	To teach the structural and functional properties of cartilage and bone tissue.
19	Contribution of the Course to Professional Development:	To be able to comments by evaluating the structural properties and functional relationship of cartilage and bone tissue in domestic mammals and poultry.
20	Learning Outcomes:	
	1	Learn the general properties of cartilage.
	2	Learn the types of cartilage tissue,
	3	Learns the cartilage cells.
	4	Learns the places where the cartilage types
	5	Learns the regeneration of cartilage tissue.
	6	Learn the general properties of the bone.
	7	Learns the structural properties of compact bone tissue.
	8	Learns the bone cells
	9	Learns to nutrition and repair of bone fractures.
	10	Learns bone formation

21 Course Content:

Course Content:

Week	Theoretical	Practice
1	General properties of the cartilage.	
2	Histogenezis and growth of cartilage and cartilage cells	
3	The matrix of cartilage,	
4	Types of cartilage and hyaline cartilage,	

5	Elastic cartilage,	
6	Fibrocartilage,	
7	Cartilage repair,	
8	Classification of bone tissue	
9	Compact bone lamellae.	
10	Bone cells: osteoprogenitor, osteoblasts, osteocytes, osteoclasts.	
11	Intercellular matrix of the bone: organic matrix, inorganic matrix.	
12	The membranes of bone, periosteum, endosteum	
13	The formation of bone, repair of fracture.	
14	Hormones acting on bone tissue	

22	Textbooks, References and/or Other Materials:	1. ÖZER A.. Temel Histoloji. Nobel Yayın Sanayi Ltd Şti, Bursa, 2011. 2.William K. Ovalle, Patrick C. Nahirney, (2009) Netter's Essential Histology, Saunders Elsevier 3. Abraham L. Kierszenbaum, (2002) Histology and Cell

23	Activites		Number	Duration (hour)	Total Work Load (hour)
	Theoretical Assesment		14	2.00	28.00
	Practicals/Labs		0	0.00	0.00
	Self study and preperation	**R**	14	3.00	42.00
	Homeworks		2	8.00	16.00
	Quiz	0	0	0.00	0.00
	Projects		0	0.00	0.00
	Field Studies		0	0.00	0.00
	Final Exam Midterm exams	1	1	0.00	0.00
	Others		0	0.00	0.00
	Contribution of Term (Year) Learning Activities to Success Grade	0.00	1	1.00	1.00
	Total Work Load				87.00
	Contribution of Final Exam to Success Grade Total work load/ 30 hr	100.00			2.90
	ECTS Credit of the Course				3.00
	Measurement and Evaluation Techniques Used in the Course	Final Exam			

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	1	3	3	2	3	3	4	4	4	5	2	0	0	0	0	0
ÖK2	1	2	3	3	2	2	4	5	5	5	3	0	0	0	0	0
ÖK3	2	3	2	3	3	3	5	4	5	4	4	0	0	0	0	0

ÖK4	1	2	3	2	2	3	4	4	4	5	4	0	0	0	0	0
ÖK5	2	3	3	2	3	3	4	4	5	5	4	0	0	0	0	0
ÖK6	2	3	3	2	3	2	5	5	5	4	4	0	0	0	0	0
ÖK7	1	2	3	2	3	2	5	5	4	4	5	0	0	0	0	0
ÖK8	2	2	2	3	3	2	4	4	4	5	5	0	0	0	0	0
ÖK9	1	3	3	2	2	4	4	5	5	4	4	0	0	0	0	0
ÖK10	2	2	3	2	3	3	5	5	3	5	5	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**