TISSUE BIOLOGY

1	Course Title:	TISSUE BIOLOGY	
2	Course Code:	BYL0531	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	4	
6	Semester:	8	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Dr. Ögr. Üyesi MURAT SEVİNÇ	
15	Course Lecturers:	Yok	
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü 16059 Görükle Kampüsü, Nilüfer / BURSA 0 224 2941753 smurat@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Teaching types, structures and functions of the epithelial, connective, cartilage, bone, blood, muscle and nerve tissues seen in vertebrate animals.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Knows the description of tissue biology and its methods of study, preparation techniques and types of microscopes.
		2	Knows the epithelial tissue structure, types, and their functions.
		3	Knows the connective tissue structure, types, fibers, cells and their functions.
		4	Knows the cartilage tissue structure, types, cells, their functions and histogenesis.
		5	Knows the bone tissue structure, types, cells, their functions and histogenesis.
		6	Knows the blood tissue structure, cell types and their functions with the plasma, lymph and hematopoiesis.
		7	Knows the muscle tissue structure, types, cells, their functions and mechanisms of contraction.
		8	Knows the neurons structure and their functions, types of glial cells, structure and functions.
		9	
		10	
21	Course Content:		

Course Content:

Week	Theoretical	Practice

1	Sinir doku ve gelişmesi. Sinir hücrelerinin yapısı. Sinapslar ve nöral iletişim. Glia hücreleri ve çeşitleri
2	Tissue types. The forms and properties of epithelial cells. Cell junctions. Specializations of the cell surface. Covering epithelia and types.
3	Glandular epithelia and types. Serous, mucous and sero-mucous cells. Diffuse neuroendocrine system, myoepithelial cells and steroid secreting cells.
4	Connective tissue and cells. Connective tissue ground substance.
5	Fibers of connective tissue. Collagen, elastic and reticular fibers. Collagen synthesis.
6	Types of connective tissue. Loose and tight connective tissue, elastic, reticular, adipose and mucous tissue.
7	Structure of cartilage tissue. The cells and development of the cartilage. Hyaline, elastic and fibrous cartilage.
8	Bone, types of bone cells and bone matrix. Endosteum and periosteum. Types of bone. Primary and secondary bone tissue.
9	Histogenesis of bone. Endochondral and intramembranous ossification. Mechanisms of calcification. Bone growth and remodeling.
10	and functions.
11	
12	General structure of the muscle tissue and
	organization. Mechanism of contraction.
13	Structure of cardiac and smooth muscles
14	tissue and its development. Structures

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	3.00	42.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm Exams	1	26.00	26.00
Others	0	0.00	0.00
Final Exams	1	26.00	26.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

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Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		

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	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	1	0	0	0	0	0	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							