URINARY SYSTEM HISTOLOGY										
1	Course Title:	URINAR	Y SYSTEM HISTOLOGY							
2	Course Code:	THE6010								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	2.00								
8	Theoretical (hour/week):	1.00								
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:	Prof. Dr. ZEHRA MİNBAY								
15	Course Lecturers:	Prof. Dr. Zehra MİNBAY								
16	Contact information of the Course Coordinator:	zminbay@uludag.edu.tr (224) 295 40 64 Bursa Uludağ Üniversitesi Tıp Fakültesi Histoloji ve Embriyoloji AD 16059 Nilüfer Bursa								
17	Website:									
18	Objective of the Course:	To educate researchers who know the normal histological structures of the urinary system organs, who recognize them microscopically and who establish the relationship between the these morphological features and their functions.								
19	Contribution of the Course to Professional Development:	This course contributes to the students providing the knowledge necessary for their academic development.								
20	Learning Outcomes:									
		1	Know the function of each of the parts of the urinary system							
		2	Distinguish the histological differences between the renal cortex and medulla							
		3	Describe the structure of the filtration membrane and outline how blood is filtered in the nephron							
		4	Identify the major structures and subdivisions of the renal corpuscles, renal tubules and collector ducts, and renal capillaries							
		5	Describe the location of the juxtaglomerular apparatus and the cells in its structure							
		6	Learn the flow of blood through the kidney, the function of the peritubular capillaries and vasa recta							
		7	Describe the histology of renal calyces, ureter, bladder and urethra							
		8	Identify the parts of the male urethra and the histological differences of these sections							
		9	Recognize and illustrate the microscopic structures of the kidney and lower urinary tracts							
		10								
21	Course Content:									

	Course Content:										
Week	Theoretical		Р	ractice							
1	General features of the urinary syster general structure of the kidney	m,									
2	Nephron: General structure and types	S									
3	Kidney's filtration apparatus										
4	Mezangium and juxtaglomerular appa	aratus									
5	Kidney tubules - proximal tubules										
6	Kidney tubules - distal tubules and Heloop	enle's									
7	Böbrek tubülleri - toplayıcı duktuslar v interstisyal hücreler	ve									
8	Aquaporins										
9	Histophysiology of the kidney										
10	Histophysiology of the kidney										
11	Urothelium										
12	Histology of the calyxes and the urete	er									
13	Histology of the bladder and urethra										
14	Urinary system and clinical correlation	n									
22	Textbooks, References and/or Other Materials:		1. Kierszenbaum AL, Tres LL. Histology and Cell Biology. 4rd edition. Philadelphia: Saunders; 2016.								
Activit	es			Number	Duration (hour)	Load (hour)					
Theore	tical		4. N	Mescher AL. Junqueil ew York: Lange: 2018.	a SBasic Histology	,145th edition,					
Practic	als/Labs			0	0.00	0.00					
Self stu	dy and preperation		P	ışıpıogy. A rextanu o hiladelphia: Churchill&	Jiour Alias, oin euit Livingstone 2014.	28.00					
Homew	vorks			0	0.00	0.00					
Project	6		Г	ппацегрппа. стррппсотт 0	villiams & vviikins, 0.00	0.00					
Field S	tudies		•	0	0.00	0.00					
Mediaro	EATENING ACTIVITIES	NUMBE	W	₽іGHT	0.00	0.00					
Others				0	0.00	0.00					
Final E	xams	0	0	00	12.00	12.00					
	/ork Load					54.00					
Total w	ork load/ 30 hr	0	0.	00		1.80					
	Credit of the Course					2.00					
	ution of Term (Year) Learning Activities Grade	es to	0.00								
	ution of Final Exam to Success Grade)	10	100.00							
Total			100.00								
Measui Course	·	sed in the	th	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.							
24	24 ECTS / WORK LOAD TABLE										

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK8	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK9	5	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
			O: L	earr	ning (Objec	ctive	s P	Q: P	rogra	ım Qu	alifica	tions	5		
Contrib ution Level:	1 \	very	low	2	2 low		3	3 Medium		4 High			5 Very High			