TECHNIQUES OF HISTOCHEMISTRY AND IMMUNOHISTOCHEMISTRY										
1	Course Title:	TECHNIQUES OF HISTOCHEMISTRY AND IMMUNOHISTOCHEMISTRY								
2	Course Code:	THE 6004								
3	Type of Course:	Compulsory								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	4.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	THE 6005 Tecniques of Light Microscopy								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. ZEHRA MİNBAY								
15	Course Lecturers:	Prof.Dr. Zehra Minbay								
16	Contact information of the Course Coordinator:	oeyigor@uludag.edu.tr 295 4065 U.Ü. Tıp Fak. Histoloji ve Embriyoloji AD.								
17	Website:									
18	Objective of the Course:	To educate researchers; who comprehend the detailed knowledge of histochemical and immunohistochemical techniques, who acknowledge the area of usage and the differences of these techniques and who can employ these techniques.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To comprehend the principles of histochemical techniques							
		2	To employ histochemical techniques in the laboratory and interpret the results.							
		3	To understand the principle of enzyme histochemistry and to employ these techniques in the laboratory.							
		4	To comprehend the principles and protocoles of immunohistochemical techniques							
		5	To be able to employ light and flourescence immunohistochemical techniques.							
		6	To be able to perform light and flourescence microscopic analyses in immunohistochemistry.							
		7 To quantitavely analyse the preparations resulted after immunohistochemical staining.								
		8	To comprehend the electroimmunohistochemistry techniques.							
		9								

		10								
21	Course Content:									
		Со	se Content:							
Week	Theoretical		Practice							
1	The aim and teaching plan of the cou	ırse	Overview of the histochemistry laboratory							
2	Introduction to histochemical technique	ues	Preparation of solutions							
3	Histochemical procedures		Principles of the techniques							
4	Enzyme histochemistry		Enzymatic reactions							
5	Enzymatic staining		Staining technique of enzyme histochemistry							
6	Principles of immunohistochemistry		0	verview of the immuno	phistochemistry labo	oratory				
7	Immunohistochemical tissue prepara fixation and sectioning	tion,	Laboratory: Fixation and sectioning							
8	Antigen Retrieval Methods	La	aboratory: Antigen Ret	rieval						
9	Immunohistochemical methods for lig microscopy	La	aboratory: Immunohist	ochemistry for light	microscopy					
Activit			Lá	aboratory: Immunohist Number	ochemistry for fluor Duration (hour)					
Theore	microscopy lical		е	ectron microscopy and 14	1.00	14.00				
Practic	als/Labs			14	4.00	56.00				
Self stu	dy and preperation stry		pı	aparations	3.00	42.00				
Homew	vorks			2	10.00 20.0					
Project	immunohistochemistry		рі	e parations	0.00					
Field S				0 xporatory: Quartitative	0.00					
Midtern	Infinite or quantitative analysis of		st	Anings	0.00					
Others				0 ıınanocytochemistry: 7	0.00					
	Materials:			ditor).	15.00					
	/ork Load					147.00				
	ARSESOPSO hr	i				4.90				
ECTS (Credit of the Course	1				5.00				
Midtern	n Exam	0	0.00							
Quiz		0	0.00							
	work-project	2	0.00							
Final E	xam	1	100.00							
Total		3	100.00							
	ution of Term (Year) Learning Activities Grade	es to	0.00							
Contrib	ution of Final Exam to Success Grade		100.00							
Total			100.00							
Measui Course	rement and Evaluation Techniques Us	sed in the								
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	PQ14	PQ15	PQ16
ÖK1	3	5	0	0	0	0	5	0	0	0	0	2	0	0	0	0
ÖK2	3	5	4	0	3	0	5	0	0	0	0	0	0	0	0	0
ÖK3	3	5	4	0	0	0	5	0	0	0	0	2	0	0	0	0
ÖK4	3	5	4	0	0	0	5	0	0	0	0	2	0	0	0	0
ÖK5	3	5	4	0	3	0	5	0	0	0	2	0	0	0	0	0
ÖK6	3	5	4	0	0	0	5	0	0	0	2	0	0	0	0	0
ÖK7	3	5	4	0	3	0	5	0	0	4	2	0	0	0	0	0
ÖK8	3	5	4	0	0	2	5	0	0	0	0	2	0	0	0	0
		l	O: L	earr	ning (bjec	ctive	s P	Q: P	rogra	m Qu	alifica	tions	5	<u> </u>	
Contrib ution Level:	n					3 Medium			4 High			5 Very High				