

## FREE FLOATING SECTION TECHNIQUE AND IMMUNOFLOURESANS METHOD

1	Course Title:	FREE FLOATING SECTION TECHNIQUE AND IMMUNOFLOURESANS METHOD	
2	Course Code:	VHE6023	
3	Type of Course:	Optional	
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:	Dr. Öğr. Üyesi Tuncay İLHAN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	Tel: 0224 2941266 E-mail: tilhan@uludag.edu.tr Bursa Uludağ Üniversitesi Veteriner Fakültesi A Blok Histoloji- Embriyoloji A.D.	
17	Website:		
18	Objective of the Course:	To teach free-floating section technique and immunofluorescent staining used in histology laboratory.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Ability to use total perfusion technique.
		2	Learning the usage areas and technical details of free floating section technique.
		3	Learning the application of immunofluorescence staining technique on free floating sections.
		4	To learn using cryotome in histology laboratory.
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Routine histology technique.		
2	Use of a microtome.		
3	Tissue detection, fixing solutions, solutions appropriate to cryo-section.		
4	Total perfusion technique.		

5	Usage areas of cryotome, reasons of preference.	
6	Using cryotome, collecting free floating sections.	
7	Preparation of Cryo protector solution and washing solutions.	
8	Washing of tissues, selection of appropriate sections.	
9	Selection of appropriate primary antibody and fluorescent labeled secondary antibodies.	
10	Application of fluorescent staining 1 (primary antibody in well plate)	
11	Application of fluorescent staining 2 (Use of fluorescently labeled antibodies)	
12	Taking free floating sections on to microscope slides, use of fluorescence microscope, storage of sections.	
13	Double immunofluorescent staining.	
14	Free floating section technique in central nervous system.	

22	Textbooks, References and/or Other Materials:	Immunohistochemistry: Basics and Methods. Igor B. BuchwalowWerner Böcker.
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23	Assesment	
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TERM LEARNING ACTIVITIES		NUMBER	WEIGHT		
Activites			Number	Duration (hour)	Total Work Load (hour)
Home work project		0	0.00		
Theoretical		14		2.00	28.00
Final Exam		1	100.00		
Practicals/Labs		0		0.00	0.00
Total		15	100.00		
Self study and preperation		14		4.00	56.00
Contribution of Term (Year) Learning Activities to		0.00			
Homeworks		0		0.00	0.00
Projects		0		0.00	0.00
Contribution of Final Exam to Success Grade		100.00			
Field Studies		0		0.00	0.00
Midterm exams		0		0.00	0.00
Measurement and Evaluation Techniques Used in the					
Others		0		0.00	0.00
Final Exams		1		1.00	1.00
<b>24 ECTS / WORK LOAD TABLE</b>					
Total Work Load					85.00
Total work load/ 30 hr					2.83
ECTS Credit of the Course					3.00

25	<b>CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS</b>															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
<b>LO: Learning Objectives PQ: Program Qualifications</b>																
<b>Contrib ution Level:</b>	<b>1 very low</b>		<b>2 low</b>		<b>3 Medium</b>		<b>4 High</b>		<b>5 Very High</b>							