YNEAR EAST UNIVERSITY
Faculty of Veterinary Medicine Course Teaching Plan

1.	**Course Name**	LIGHT MICROSCOPY AND TISSUE PREPARATION TECHNIQUES
2.	**Course Code**	VTE144
3.	**Type of Course**	Elective
4.	**Course Level**	Undergraduate
5.	**Year the course was taught**	1
6.	**The semester in which the course is given**	Spring, 2VET
7.	**ECTS Credits**	2
8.	**National Credit**	1
9.	**Theoretical Lesson Hours (hours/week)**	1h/week
10.	**Practice Course Hour (hour/week)**	-
11.	**Course Prerequisite**	None
12.	**Other Recommended Considerations for the Course**	None
13.	**Language of the Course**	English
14.	**Mode of Delivery of the Course**	Yüz yüze
15.	**Course Coordinator**	Dr. Hüseyin ŞAH
16.	**Other Lecturers Teaching the Course**	-
17.	**Coordinator's Contact Information**	huseyin.sah@neu.edu.tr
18.	**Course Website**	

19.	**The aim of the course**	To explain the determined concepts. To discuss the validity of the identified concepts. Developing selected skills. Examine selected topics in detail. To improve the existing knowledge of the students about the determined subjects. To develop students' ideas in the context of selected concepts. To renew the existing knowledge with the students about the determined concepts, theories or subjects.
20.	**Contribution of the Course to Professional Development**	To learn about microscope and staining techniques.

21.	**Course Learning Outcomes**	**LO1**	Will be able to understand related concepts/theories.
		LO2	Will be able to discuss the validity of related concepts/theories.
		LO3	Will be able to apply related concepts/theories to real life/other given situations/cases.
		LO4	Will be able to develop an original approach to related concepts.
		LO5	Evaluate their own work according to given criteria
		LO6	Will be able to develop/create a new approach.
		LO7	Will be able to develop/create a new product within the given parameters.
		LO8	Will be able to carry out the given work independently.
		LO9	Will be able to develop targeted skills.

		WEEK	**THEORETICAL COURSE CONTENT**	**PRACTICAL COURSE CONTENT**
22.	**Course Content**	**1.**	History and definition of the microscope.	
		2.	Microscope types.	
		3.	Parts of the microscope	
		4.	Methods of making measurements under the microscope	
		5.	Basic principles in studying biological objects	
		6.	Identifying the texture	
		7.	Fixation solutions	
		8.	Midterm	
		9.	Dehydration methods	
		10.	Transparency methods	
		11.	Basic principles in paraffin embedding method	
		12.	Taking sections	
		13.	Section adhesives	
		14.	Techniques for Frozen Sections	
		15.	Final Exam	

23.	**Textbook, References and/or Other Resources**	1. Ramazan Demir, Histolojik Boyama Teknikleri, 2. Histology a Text and Atlas with Correlated Cell and Molecular Biology, Michael H. Ross, Wojciech Pawlina 3. Junqueira's Basic Histology Text & Atlas, Anthony L. Mescher

24.	**Evaluation**	**SEMESTER STUDIES**	**NUMBER**	**PERCENTAGE OF CONTRIBUTION**
		Midterm	1	40
		Quiz		
		Homework, Performance		
		Final Exam	1	60
		Total	2	100
		Evaluation Approaches	Exams are usually held in the form of tests.	

25.	**ECTS / Workload Table**	**Activity**	**NUMBER**	**Duration [Hours]**	**Total Workload [Hours]**
		Theoretical Courses	14	1	14
		Practical Courses			
		Out of Class Study Time (Pre-study, reinforcement)	14	2	28
		Homework, Performance			
		Projects	8	2	16
		Field Studies			
		Midterm	1	1	1
		Other			
		Final Exams	1	1	1
		Total Workload			60
		Total Workload / 30 hours			60/30
		ECTS Credits of the Course			2