

## NEAR EAST UNIVERSITY Faculty of Veterinary Medicine Course Curriculum

1.	Course Name	MICROBIOLOGY I		
		VTE011		
2.	Course Code	VIEZII		
3.	Course Type	Compulsory		
4.	<b>Course Level</b>	Undergraduate		
5.	Year	2		
6.	Semester	Fall 3VETT		
7.	ECTS Credits	3		
8.	National credits	2		
9.	Theoretical Course Hours (hours/week)	1h/week		
10.	Practical Course Hours (hours/week)	2h/week		
11.	Course Prerequisites	None		
12.	Other Topics   Recommended   for the Course			
13.	Course Language	English		
14.	<b>Course Format</b>	Face-to-face		
15.	Course Coordinator	Asst. Prof. Dr. Halit ŞÜKÜR		
16.	Other Lecturers that Give the Course	-		
17.	Communication Details of the Coordinator	halit.sukur@neu.edu.tr		
18.	Course Web Address			
19.	Course Aim	It is aimed to describe bacteria in a broad sense, to transfer the basic phenotypic and genotypic characteristics to the students, to give the students the basic methods used in the laboratory diagnosis of bacteria and to enable them to practice, to explain the basic microbiological information and to make evaluations.		
20.	Contribution of the Course to Occupational Development	Students will become competent in microbiology and its applications.		

21.	Course Learning Outcomes	LO1	Will be able to understand the related terms/terminology	
		LO2	Will be able to discuss the validity of the related terms/terminology	
		LO3	Will be able to develop/create new approaches	
		LO4	Will be able to work as a group on a given work	
		LO5	Will be able to apply the principles of how to show the selected reference when producing an academic article.	
		LO6	Will be able to develop the aimed skills	

		WEEK	THEORETICAL COURSE	PRACTICALCOURSE	
			CONTENT	CONTENT	
	Course Content	1.	Bacterial naming and classification	-Laboratory definition, work principles, laboratory accident prevention measures	
		2.	Bacteria organelles-external structures	-Microscopy definition and principles	
		3.	Bacteria organelles-internal structures	-Sterilisation, Disinfection, Antiseptic Methods	
		4.	Bacteria metabolism	- Receiving and sending pathological samples	
		5.	Bacteria production	- Media, isolation and identification of microorganisms	
		6.	Effective factors of reproduction	-Stain and Staining techniques	
		7.	Sterilization, disinfection	-Gram staining	
		8.	Action mechanisms of antibiotics	-Ziehl-Neelsen staining	
		9.	Mechanisms of antibiotic resistance	-Fungi staining	
		10.	Bacteria genetics	-Spore staining	
		11.	Genetic material spreading	-Giemsa (Capsule) staining	
		12.	Pathogenesis of bacterial infections	-Biochemistry tests	
		13.	Microbial flora and ecology	-Motility Examination	
<u>2</u> 2.		14.	Microbial diagnosis methods, bacteria isolation and identification	-Antibiotic Sensitivity Tests	
Course Book, References and/or Other1. Arda, M. (2011) Temel Mikrobiyoloji. 4. Baskı, M 71, Ankara.23.Resources			4. Baskı, Medisan Yayın Serisi:		

		SEMESTER WORK	NUMBER	PERCENTAGE OF CONTRIBUTION	
		Midterm Exam	1	40	
		Short Exam			
	Evaluation	Homework, Performance			
		End of Year Exam	1	60	
		Total	2	100	
		Evaluation Approaches	Exams will be evaluated in the form of		
24.			test.		

		Activity	NUMBER	Duration [Hours]	Total Workload [Hours]
	ECTS / Workload Table	Theoretical Courses	14	1	14
		Applied Courses	14	2	28
		Extracurricular Lesson Study Time (Preparation, revising)	14	2	28
		Homework, Performance	5	2	10
		Projects			
		Field Studies			
		Midterm Exams	1	1	1
		Other	4	2	8
		End of Semester Exams	1	1	1
		Total Workload			90
		Total Workload/ 30 Hours			90/30
25.		Course ECTS Credits			3