

## Course Description Form

1. Course Name : Microbiology 2	
2. Course Code : VEM3124	
3. Semester / Year : Secons semester – Third year	
4. Description Preparation Date : 7/2/2024	
5. Available Attendance Forms :	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75 hours / 4 units	
7. Course administrator's name (mention all, if more than one name)	
Name : Assist. Prof. D. Selda Saeed Yassen Email : seldabakar33@uokirkuk.edu.iq	
8. Course Objectives	
<b>Course Objectives</b>	<p>1- Study of small sized microscopic organisms and their physiological properties, reproduction, classification, nutrition, and relationship with the host.</p> <p>2- Study methods of controlling and eliminating them and controlling diseases caused by these organisms.</p> <p>3- Study the principles adopted in the clinical and laboratory diagnosis of these diseases and how to prevent, control, and prevent their spread .</p>
9. Teaching and Learning Strategies	
<b>Strategy</b>	<p>1- Empowering the student to think according to his ability let's think about thinking ability.</p> <p>2- Make the student know when, what and how he should think in order to improve his self-abilities .</p> <p>3- Critical thinking strategy in learning symbolizes the highest levels of thinking Which aims to present a problem in order to analyze it logically and properly to reach the desired solution .</p>

## 10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5	<i>Staphylococcus &amp; Streptococcus</i>	Mirobiology 2	(3hours) theory + (2hours) Lab .	
2	5	<i>Listeria &amp; Corynebacterium</i>		(3hours) theory + (2hours) Lab .	
3	5	<i>Bacillus species</i>		(3hours) theory + (2hours) Lab .	
4	5	<i>Clostridium species</i>		(3hours) theory + (2hours) Lab .	
5	5	<i>Actinomyces &amp; Nocardia</i>		(3hours) theory + (2hours) Lab .	
6	5	<i>Actinobacillus species</i>		(3hours) theory + (2hours) Lab .	
7	5	<i>Pasteurella species &amp; Haemophilus species</i>		(3hours) theory + (2hours) Lab .	
8	5	<i>Moraxella &amp; Bordetella spp.</i>		-	
9	5	Mid-term exam		(3hours) theory + (2hours) Lab .	
10	5	<i>Pseudomonas and Burkholderia species</i>		(3hours) theory + (2hours) Lab .	
11	5	<i>Leptospirosis species &amp; Brucella specie</i>		(3hours) theory + (2hours) Lab .	
12	5	<i>Spharophorus spp.</i>		(3hours) theory + (2hours) Lab .	
13	5	<i>Borrelia species</i> <i>Campylobacter species</i>		(3hours) theory + (2hours) Lab .	
14	5	<i>Enterobacteriaceae</i> <i>Escherichia coli ,</i> <i>Salmonella</i> <i>Yersinia species &amp; Shigella</i>		(3hours) theory + (2hours) Lab .	
15	5	Mycology		(3hours) theory + (2hours) Lab .	
		Final-term exam .		Theory 45 + 15 practical	

## 11. Course Evaluation

Distribution of the grade out of 100 according to the tasks assigned to the student, such as daily preparation, daily, oral, monthly, written exams, reports, etc.  
It includes semester exams (30 theoretical) and (10) practical and the final exam is (45) theoretical + (15) practical .

## 12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	-
Main references (sources)	<b>Quinn, P.J., M.E. Carter, B.K. Markey and G.R. Carter. 2011. Veterinary Microbiology and Microbial Disease , John Wiley &amp; Sons, UK , Jawetz 2021 , Prescott 2020.</b>
Recommended books and references (scientific journals, reports...)	- <b>Jawetz, E. 2010. Medical Microbiology, 25<sup>th</sup> Ed. Prentice Hall Ltd. London.</b> - <b>Jawetz, E. 2021 . Medical Microbiology, 30<sup>th</sup> Ed. Prentice Hall Ltd . London.</b>
Electronic References, Websites	-