



**Islamic University in Najaf - Faculty Of Dentistry
Quality Assurance and Academic Accreditation unit**

Course Description

Microbiology

2024

Course Description Form

1. Course Name:	
Microbiology	
2. Course Code:	
MB	
3. Semester / Year:	
3rd year	
4. Description Preparation Date:	
19-4-2024	
5. Available Attendance Forms:	
Available	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical 2 laboratory 2 in week	
7. Course administrator's name (mention all, if more than one)	
Name: Sara Mohssin Yasser Email:	
8. Course Objectives	
C o u r s e O b j e c t i v e s	The purpose of studying microbiology is to learn about the principles of microbiology and epidemiological diseases. This course aims to know the characteristics of microorganisms in general and the specific characteristics of pathological microorganisms. Such as bacteria, fungi, viruses, the mechanism of diseases caused by these organisms, their diagnosis, how to differentiate between each of these pathogens, the tests that detect and treat them, and the identification of non-pathogenic (beneficial) bacteria that are naturally present in the body and their effects on pathogenic organisms on the one hand. This course also aims to study immunity.
9. Teaching and Learning Strategies	

Strategy	<p>Cognitive objectives</p> <ol style="list-style-type: none"> 1- Identifying microorganisms beneficial to humans 2- Identifying pathogenic microorganisms 3- Methods of transmission and diagnosis (laboratory) 4- Identifying the body's immunity and its types (natural and acquired) 5-The relationship between the human body and microorganisms in general 6- Learn about sterilization methods <p>B. The skills objectives of the course</p> <p>B - Learn modern methods for diagnosing pathological microorganisms</p> <p>B2- Identifying the microorganisms that cause new epidemics</p> <p>B3 - Multiple causes of various diseases</p> <p>Teaching and learning methods</p> <p>Stimulus and response method</p> <p>Evaluation methods</p> <p>Long, short and semester exams</p> <p>C: Emotional and value-based goals</p> <ol style="list-style-type: none"> 1- Mechanistic diagnosis of diseases caused by microorganisms C 2- Dealing with epidemic (infectious) pathogens
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10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject	Learning method	Evaluation method
	2	• Morphology and Ultra-structures of M.Os: Eukaryotic Vs Prokaryotic cells	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final exam
	2	Growth curve (diagram) phases	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Physiology and metabolism of M.O.	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Sterilization	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final

	2	Antibiotic and Chemotherapy	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	The streptococci	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	The staphylococci	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Lactobacilli	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Bacillus	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Clostridium	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Enterbacteriaceae	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Enterbacteriaceae(part2)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Fusiform	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Mycobacterium	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Spiochaetes	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final

	2	Miscellaneous micro-organism	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Actinomyces and other Filamentous bacteria	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Actinobacillus	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Dental plaque and dental caries	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Ecology of the oral flora	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Immunology(part1)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Immunology(part2)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Immunology(part3)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Immunology(part4)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Immunology(part5)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Virology(part 1)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final

	2	Virology(part 2)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Virology(part 3)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Virology(part 4)	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final
	2	Oral mycology & Parasitology:	Microbiology	A theoretical lecture using PowerPoint	Short and semester exams and the final

11.Course Evaluation

First semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz, assessment & assignments) 4 (laboratory steps evaluation) 5 (1st semester final lab.)7(Theoretical exam, first semester)

Second semester 20%

1.5 (attendance, participation & activities) 2.5 (in-lecture written Quiz) 4 (laboratory steps evaluation) 5 (1st semester final lab.)7(Theoretical exam, second semester)

Final 60%

12.Learning and Teaching Resources

Required textbooks

- Essential microbiology for dentistry