

1.Course Name: Microbiology 1	
2.Course Code: WNR-6-02	
3.Semester / Year: Second Stage/First Semester	
4.Description Preparation Date: 1/10/2025	
5.Available Attendance Forms: In-person lectures and practical laboratories (attendance forms)	
6.Number of Credit Hours (Total) / Number of Units (Total) 2 Theoretical + 2 Lab (4 Hours Per Week), Number of Credits (4)	
7.Course administrator's name (mention all, if more than one name) Name: Bahaa Alaa Farhan Email: Bahaa.farhan@uowa.edu.iq	
8.Course Objectives	
Knowledge	A1: The student will be introduced to the basic concepts and terminology of microbiology. A2: The student will learn the most important pathogens that cause human disease. A3: The student will learn the most important symptoms associated with each disease and the method of infection. A4: Identify the most important methods used to prevent disease and control it. A5: Distinguish between bacterial, viral, fungal, and parasitic infections and study the characteristics of each type.
Skills	B1: The student will learn the methods and skills required for collecting specimens and determining the correct instrument and sample type for each infection. B2: The student will learn the most important microscopic, serological, and molecular tests used for diagnosis. B3: Learn the skills of optimal sample preparation, storage, and transport. B4: Learn the skills of analysis and diagnosis.
Value	A1: Consolidating the basic concepts of microbiology. A2: Enhancing interest in scientific research. A3: Identifying modern diagnostic techniques. A4: Understanding the links with other sciences.
9.Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> - Theoretical lectures. - Discussions. - Reports. - Lab trainin

10. Course Structure				
		Lecture title	Learning method	Evaluation method
.1	2hT+2 hP	Introduction to Microbiology science	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.2	2hT+2 hP	Bacterial infection	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.3	2hT+2 hP	Sterilization	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.4	2hT+2 hP	Bacterial spores	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.5	2hT+2 hP	Staphylococcus : SPP	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.6	2hT+2 hP	Streptococcus SPP.	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.7	2hT+2 hP	Genus Neisseria .	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.8	2hT+2 hP	Mycobacterium	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.9	2hT+2 hP	Clostridium SPP	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.10	2hT+2 hP	Enterobacteriaceae	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.11	2hT+2 hP	Salmonella SPP	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.12	2hT+2 hP	* Shigells SPP	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.13	2hT+2 hP	• Nosocomial infection	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.14	2hT+2 hP	Mycology	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation

11. Course Evaluation					
Evaluation					
Formative		Summative			
Scores	Evaluation methods	Scores	Evaluation methods		
4%	Daily Quizzes	10%	First-Mid-term theoretical exam		
2%	Seminars	10%	Second-midterm exam		
2%	Reports	10%	Mid-term-practical evaluation		
2%	Participation	20%	Final practical exam		
		40%	Final theoretical exam		
10%		90%			

12. Learning and Teaching Resources					
Resources and references: <ul style="list-style-type: none"> - Medical microbiology for nursing - Clinical microbiology 					
<ul style="list-style-type: none"> ● 1- Patrick R. Murray, Ken S. Rosenthal and Michael A. Pfaller. Medical microbiology six edition. Elsevier. ● 2- Louise Hawley, Richard J. Ziegler& Benjamin L. Clarke (2023): Microbiology and immunology, 6th Williams & Wilkins co. USA. ● 3- Patrick R. Murray (2022): Basic Medical Microbiology, Elsevier. ● -4 Essential of medical microbiology, Apurbs et al., second edition (2019) 					



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