

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		- Theoretical lectures. - Discussions. - Reports. - Lab trainin

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

11. Course Evaluation				
Evaluation				Score standard
Formative		Summative		<b>-Excellent (90-100)</b> <b>-Very Good (80-less than 90)</b> <b>-Good (70-less than 80)</b> <b>-Fair (60-less than 70)</b> <b>-Acceptable (50-less than 60) –</b> <b>Fail (less than 50)</b>
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				
<b>Resources and references:</b> <ul style="list-style-type: none"> <li>- Medical microbiology for nursing</li> <li>- Clinical microbiology</li> </ul>				
<ul style="list-style-type: none"> <li>• 1- Patrick R. Murray, Ken S. Rosenthal and Michael A. Pfaller. Medical microbiology six edition. Elsevier.</li> <li>• 2- Louise Hawley, Richard J. Ziegler &amp; Benjamin L. Clarke (2023): Microbiology and immunology, 6th Williams &amp; Wilkins co. USA.</li> <li>• 3- Patrick R. Murray (2022): Basic Medical Microbiology, Elsevier.</li> <li>• -4 Essential of medical microbiology, Apurbs et al., second edition (2019)</li> </ul>				



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استاذ المادة