

<b>1.Course Name:</b>	
Microbiology 1	
<b>2.Course Code:</b>	
WNR-6-02	
<b>3.Semester / Year:</b>	
Second Stage/First Semester	
<b>4.Description Preparation Date:</b>	
1/10/2024	
<b>5.Available Attendance Forms:</b>	
In-person lectures and practical laboratories (attendance forms)	
<b>6.Number of Credit Hours (Total) / Number of Units (Total)</b>	
2 Theoretical + 2 Lab (4 Hours Per Week), Number of Credits (4)	
<b>7.Course administrator's name (mention all, if more than one name)</b>	
Name: Bahaa Alaa Farhan Email: Bahaa.farhan@uowa.edu.iq	
<b>8.Course Objectives</b>	
Knowledge	<p><b>A1:</b> The student will be introduced to the basic concepts and terminology of microbiology.</p> <p><b>A2:</b> The student will learn the most important pathogens that cause human disease.</p> <p><b>A3:</b> The student will learn the most important symptoms associated with each disease and the method of infection.</p> <p><b>A4:</b> Identify the most important methods used to prevent disease and control it.</p> <p><b>A5:</b> Distinguish between bacterial, viral, fungal, and parasitic infections and study the characteristics of each type.</p>
Skills	<p><b>B1:</b> The student will learn the methods and skills required for collecting specimens and determining the correct instrument and sample type for each infection.</p> <p><b>B2:</b> The student will learn the most important microscopic, serological, and molecular tests used for diagnosis.</p> <p><b>B3:</b> Learn the skills of optimal sample preparation, storage, and transport.</p> <p><b>B4:</b> Learn the skills of analysis and diagnosis.</p>
Value	<p><b>A1:</b> Consolidating the basic concepts of microbiology.</p> <p><b>A2:</b> Enhancing interest in scientific research.</p> <p><b>A3:</b> Identifying modern diagnostic techniques.</p> <p><b>A4:</b> Understanding the links with other sciences.</p>
<b>1. 9.Teaching and Learning Strategies</b>	
Strategy	<ul style="list-style-type: none"> <li>- Theoretical lectures.</li> <li>- Discussions.</li> <li>- Reports.</li> <li>- Lab trainin</li> </ul>

		<b>10. Course Structure</b>		
		<b>Lecture title</b>	<b>Learning method</b>	<b>Evaluation method</b>
.1	2h T +2 hP	Introduct ion to Microbiol ogy science	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.2	2h T +2 hP	Bacterial infection	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.3	2h T +2 hP	Sterilizati on	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.4	2h T +2 hP	Bacterial spores	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.5	2h T +2 hP	Staphyloc occus : SPP	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.6	2h T +2 hP	Streptoco ccus SPP.	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.7	2h T +2 hP	Genus Neisseria .	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.8	2h T +2 hP	Mycobact erium	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation
.9	2h T +2 hP	Clostridi um SPP	Lecture, Discussion, Readings, Presentatio ns	Quizzes, Exams, Presentations, Evaluation

.10	2h T +2 hP	Enterobacteriaceae	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.11	2h T +2 hP	Salmonella SPP	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.12	2h T +2 hP	* Shigella SPP	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.13	2h T +2 hP	• Nosocomial infection	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.14	2h T +2 hP	Mycology	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation

#### 11. Course Evaluation

Evaluation				Score standard
Formative		Summative		-Excellent (90-100) -Very Good (80-less than 90) -Good (70-less than 80) -Fair (60-less than 70) -Acceptable (50-less than 60) – Fail (less than 50)
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> - Medical microbiology for nursing - Clinical microbiology	
<ul style="list-style-type: none"> <li>• 1- Patrick R. Murray, Ken S. Rosenthal and Michael A. Pfaller. Medical microbiology six edition. Elsevier Inc.</li> <li>• 2- Louise Hawley, Richard J. Ziegler &amp; Benjamin L. Clarke (2014): Microbiology and immunology, 6th edition. Lippincott Williams &amp; Wilkins co. USA.</li> <li>• 3- Patrick R. Murray (2018): Basic Medical Microbiology, Elsevier.</li> <li>• -4 Essential of medical microbiology, Apurbs et al., second edition (2019)</li> </ul>	