1.Course Name:

Microbiology 1

2.Course Code:

WNR-21-03

3.Semester / Year:

Second Stage/First Semester

4.Description Preparation Date:

1/10/2024

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)

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8.Course Objectives

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.
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.
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.

2. Teaching and Learning Strategies

Strategy	- Theoretical lectures. - Discussions. - Reports. - Lab training

3.	4. Course Structure			
		Lecture title	Learning method	Evaluation method
.1	**2**hT+ 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

6. 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%		

8. Learning and Teaching Resources

Resources and references:

- **Medical microbiology for nursing**
- **Clinical microbiology**

- **1- Patrick R. Murray, Ken S. Rosenthal and Michael A. Pfaller. Medical microbiology six edition. Elsevier Inc.**
- **2- Louise Hawley, Richard J. Ziegler& Benjamin L. Clarke (2014): Microbiology and immunology, 6th edition. Lippincott Williams & Wilkins co. USA.**
- **3- Patrick R. Murray (2018): Basic Medical Microbiology, Elsevier.**
- 4-**Essential of medical microbiology, Apurbs et al., second edition (2019**)

Teacher name: Bahaa Alaa Farhan

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تمريض البالغين