

1.Course Name: Microbiology -2			
2.Course Code: WNR-6-02			
3.Semester / Year: Second Stage/ second 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	<p>A1: The student will be introduced to the basic concepts and terminology of parasitology.</p> <p>A2: The student will learn the most important pathogens that cause human disease.</p> <p>A3: The student will learn the most important symptoms associated with each disease and the method of infection.</p> <p>A4: Identify the most important methods used to prevent disease and control it.</p> <p>A5: Distinguish between viral and parasitic infections and study the characteristics of each type.</p>		
Skills	<p>B1: 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>B2: The student will learn the most important microscopic, serological, and molecular tests used for diagnosis.</p> <p>B3: Learn the skills of optimal sample preparation, storage, and transport.</p> <p>B4: Learn the skills of analysis and diagnosis.</p>		
Value	<p>A1: Consolidating the basic concepts of microbiology.</p> <p>A2: Enhancing interest in scientific research.</p> <p>A3: Identifying modern diagnostic techniques.</p> <p>A4: Understanding the links with other sciences.</p>		
9.Teaching and Learning Strategies			
Strategy	<ul style="list-style-type: none"> - Theoretical lectures. - Discussions. - Reports. - Lab training 		
10.Course Structure			
Wee k No.	Lecture title	Learning method	Evaluation method

.1	2hT+2h P	2- Lecture Parasitology :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.2	2hT+2h P	3- Entamoeba coli :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.3	2hT+2h P	4- Balantidium coli : :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.4	2hT+2h P	5- Class:Mastigophar a(Flagellates) :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.5	2hT+2h P	6- Trichomonas vaginalis :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.6	2hT+2h P	7- Leishmania & Trypanosoma :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.7	2hT+2h P	8- Lece 8 Class: Sporozoa :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.8	2hT+2h P	9- Lecture 9 Toxoplasma gondii : :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.9	2hT+2h P	11-Lecture 11 Trematoda :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.10	2hT+2h P	12- Lecture 12 Fasciola hepatica :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.11	2hT+2h P	13- Lecture 13 Helminthes :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation
.12	2hT+2h P	14- Lecture 14 Diagnosis fecal examination	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation

.13	2hT+2h P	15- Lecture 15 Ascaris lumbricoides	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation	
.14	2hT+2h P	2- Lecture 2 Parasitology :	Lecture, Discussion, Readings, Presentations	Quizzes, Exams, Presentations, Evaluation	

11. Course Evaluation

Evaluation				Score standard
Formative		Summative		
Scores	Evaluation methods	Scores	Evaluation methods	
4%	Daily Quizzes	10%	First-Mid-term theoretical exam	-Excellent (90-100)
2%	Seminars	10%	Second-midterm exam	-Very Good (80-less than 90)
2%	Reports	10%	Mid-term-practical evaluation	-Good (70-less than 80)
2%	Participation	20%	Final practical exam	-Fair (60-less than 70)
		40%	Final theoretical exam	-Acceptable (50-less than 60) - Fail (less than 50)
10%		90%		

12. 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 (2023): Microbiology and immunology, 6th edition. Lippincott 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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