Course Description

1. Course Name:
Microbiology
2. Course Code:
DEN11318
3. Semester / Year:
Yearly
4. Description Preparation Date:
1/9/2024
5. Available Attendance Forms:
Theoretical + practical
6. Number of Credit Hours (Total) / Number of Units (Total)
60 theoretical/60 practical/6
7. Course administrator's name (mention all, if more than one name)
Name: Ali Abdul Hussein Muhammad Email: alialiabid8383@gmail.com
8. Course Objectives

Course Objectives	The microbiology lectures aim to learn about the principles of microbiology and diseases. Epidemiology: This course aims to know the characteristics of microorganisms in general and the special characteristics of pathogenic microorganisms such as bacteria, fungi, viruses and their mechanics of diseases caused by these organisms, their diagnosis, how to differentiate between each one of these pathogens, and the tests that detect and treat them and identify non-pathogenic bacteria (beneficial) that is naturally present in the body and its effects on organism diseases on the one hand. This course also aims to study immunity, the mechanics of the body's defenses, the immune response to diseases, and to discuss sterilization methods.
9. Teaching and Learning Strategies	
Strategy	A- Understanding A-1 Identify the microscopic organisms that are beneficial to humans A-2 Definition of pathogenic microorganisms A-3 Methods of transmission, diagnosis (laboratory) A-4 Identifying the body's immunity and its types (nature and acquisition)

	A-5 is compatible with the human body and microorganisms in general A-6 Identify methods of dealing B - Subject-specific skills B1 - Learn modern methods for diagnosing pathological microorganism B2 - Identify the microorganisms that cause new epidemics B3 - Multiple causes of different diseases Teaching and learning methods Stimulus and response method Evaluation methods Long, short and semester exams C- Thinking skills C-1 Diagnosing the mechanism of diseases caused by microorganisms C-2 Dealing with epidemic (infectious) pathogens Teaching and learning methods Practical theoretical lectures Evaluation methods Exams D - General and transferable skills (other skills related to employability and personal development). D-1 Preparing it practically

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Morphology and Ultra-structures of	bacteriology		

		M.Os: Eukaryotic V Prokaryotic cells:			
2	2	Growth Phases	bacteriology		
3	2	Physiology and metabolism of M.O.	bacteriology		
4	2	Sterilization	bacteriology		
5	2	Antibiotic and Chemotherapy	bacteriology		
6	2	Immunology (part 1)	bacteriology		
7	2	Immunology (part 2)	bacteriology		
8	2	Immunology (part 3)	bacteriology		
9	2	Immunology (part 4)	bacteriology		
10	2	Streptococci	bacteriology		
11	2	Staphylococci	bacteriology		
12	2	Lactobacilli	bacteriology		
13	2	Corynebacterium: C diphtheria & Diph theriodes	bacteriology	A theoretical lecture using Power Point	Quizzes, semester, mid-year and final exams
14	2	Bacillus	bacteriology		
15	2	Clostridium	bacteriology		
16	2	Mycobacterium	bacteriology		
17	2	Enterbacteriaceae (part1)	bacteriology		
18	2	Enterbacteriaceae (part2)	bacteriology		
19	2	Fusiform	bacteriology		
20	2	Spiochaetes	bacteriology		

21	2	Actinomyces and otl Filamentous bacteria	bacteriology		
22	2	Actinobacillus	bacteriology		
23	2	Miscellaneous micro organism	bacteriology		
24	2	Ecology of the oral flora	bacteriology		
25	2	Ecology of the oral flora	bacteriology		
26	2	Dental plaque and 2 dental caries	bacteriology		
27	2	Virology (part 1)	bacteriology		
28	2	Virology (part2)	bacteriology		
29	2	Virology (part3)	bacteriology		
30	2	Oral mycology & Parasitology	bacteriology		

11.Course Evaluation

The grade is distributed to:

The first semester: includes 7.5 theoretical + 5.0 practical, with a total of 12.5%

Mid-year: includes 10 theoretical + 5.0 practical, with a total of 15%

The second semester: includes 7.5 theoretical + 5.0 practical, with a total of 12.5%

Annual Quest: Total score 40%

Final theoretical exam = 40%

Final practical test = 20%

Final total 100%

12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	-Review of medical microbiology a immunology -Medical microbiology -Clinical microbiology -Diagnostic microbiology
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	