

Medical Bacteriology Syllabus (Practical)

Semester : first	Academic Year:2024
Level: dentistry Students	Major:
Course Title: Practical medical bacteriology	Department: Department of Microbiology, School of Medicine, Isfahan University of Medical Sciences, Isfahan, Iran
Course Code: 127417	University Professor or Faculty member:
Class NO: lab of Bacteriology and Virology Department	Class Hours: Monday 12-14
Prerequisite:	Credit Units: 1
Responsible for the lesson: Dr. Hosseini	Tel:+983137929147 (Dr.Hosseini)
Office Address: Department: Department of Microbiology, School of Medicine	E-mail: Hosseini@yahoo.com
	Number of Students :
Main Objective: Learning practical microbiology and its application in medical microbiology	
Course Description:	
<p>The study of bacterial shape and morphology, working with a variety of microscopes, bacteria staining, preparation of culture media and sterilization of instruments and culture media, isolation of bacteria from clinical samples, and susceptibility of bacteria to antibacterial compounds.</p>	
Learning Outcomes:	
<p>On completion of the course, the student is expected to be able to:</p> <ol style="list-style-type: none"> 1. Describe the importance of laboratory of bacteriology in the clinic. 2. Describe the types and methods of clinical sampling. 3. Prepare clinical samples for direct examination and staining (especially hot staining). 4. Describe the culture method and suggest appropriate analysis based on clinical information. 5. Explain the importance and purpose of antibiotic susceptibility testing. 6. Perform and interpret antibiotic susceptibility testing 	

Assessment Methods

)The Assessment Methods that will be Used to Test Students Learning outcomes & the Skills & Competencies Stated in learning Outcomes)

Assessment	Score From 20
Mid Exam	0
Final theoretical Exam	8.5
Final Practical Exam	8.5
Assignments and lab report	3
Total Marks	20

Main References (Text Books): Medical Microbiology 8th Edition

Diagnostic Microbiology. Bailey & Scott's

References for More Reading:

Student's Responsibilities: study hard and prepare for examination

Attendance Rules:

The students should be present on all lectures.

Final Exam Date:

NO of Session	Main Topic	Teacher's Name	Place & Time	Date	Method of Presentation
1	Laboratory safety, and Physical methods of sterilization	Dr. Hosseini	2hour	2024/Sept/30	In-person
2	Investigation of macroscopic and microscopic properties of bacteria, Staining methods	Dr. Hosseini	1 hour	2024/Oct/07	In-person
3	Specimen Management and direct microscopic examination	Dr. Hosseini	1 hour	2024/Oct/14	In-person
4	<i>Streptococcus</i>	Dr. Hosseini	1 hour	2024/Oct/21	In-person
5	<i>Staphylococcus</i>	Dr. Hosseini	1 hour	2024/Oct/28	In-person
6	Urine Specimens – Types of / collection Processing of biochemical tests for <i>Enterobacteriaceae</i>	Dr. Hosseini	1 hour	2024/Nov/04	In-person
7	Stools specimens / indications for culture Pathogens isolated from faecal specimen (<i>Salmonella</i> , and <i>Shigella</i>)	Dr. Hosseini	1 hour	2024/Nov/11	In-person
8	Blood culture / Automated processing of blood culture. <i>Pseudomonas</i> , and <i>Acinetobacter</i>	Dr. Hosseini	1 hour	2024/Nov/18	In-person
9	Antimicrobial Susceptibility Test (Antibiogram)	Dr. Hosseini	1 hour	2024/Nov/25	In-person
10	Rapid review of prepared Slides	Dr. Hosseini	1 hour	2024/Dec/02	In-person