



**Jordan University of Science and Technology**  
**Faculty of Applied Medical Sciences**  
**Allied Medical Sciences Department**

LM223 Medical Microbiology Practical

Second Semester 2023-2024

**Course Catalog**

1 Credit Hours. This course provides the basic principles of medical microbiology practical for second year medical laboratory student. They will learn how to use the microscopes professionally. How to prepare smears and stain them including different procedures. Prepare media for bacterial growth and inoculate it, do the antibiotic and different biochemical tests

**Teaching Method:** On Campus

**Text Book**

<b>Title</b>	Microbiology, A laboratory manual
<b>Author(s)</b>	Cappuccino, Sherman
<b>Edition</b>	12th Edition
<b>Short Name</b>	Ref#1
<b>Other Information</b>	

**Instructor**

<b>Name</b>	<b>Mrs. Yasemin Shboul</b>
<b>Office Location</b>	M1-L-2
<b>Office Hours</b>	Sun : 10:30 - 12:30 Mon : 11:00 - 11:30 Mon : 12:30 - 13:00 Tue : 10:30 - 12:00 Wed : 08:30 - 10:00
<b>Email</b>	yashboul@just.edu.jo

**Class Schedule & Room**

Section 1:

Lecture Time: Tue : 08:30 - 10:30

Room: LAB M 6B

**Tentative List of Topics Covered**

Weeks	Topic	References
Week 1	Laboratory safety regulations, Learning the different laboratory instruments and equipments.	
Week 2	The different types of microscope , and using the light microscope	
Week 3	Preparing smear and simple staining procedure	
Week 4	The Gram staining procedure	
Week 5	The acid fast staining procedure	
Week 6	The spore staining procedure	
Week 7	Preparing media, study different types of media and discuss sterilization methods	
Week 8	Midterm exam	
Week 9	Culturing and isolation of pure culture	
Week 10	Kirby -Bauer test and antimicrobial agents	
Week 11	Biochemical tests: Catalase , Coagulase, Oxidase tests , blood agar , Mannitol salt agar and MacConkey agar.	
Week 12	Biochemical test part II,IMVIC test ,motility test KIA and TSI tests	
Week 13	Final Exam	

**Relationship to Program Student Outcomes (Out of 100%)**

SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6

**Policy**

Course policies	Eating, drinking, smoking, gum chewing in laboratories is strictly prohibited.
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Cell phone	Cell phones and telephone calls and texting are not permitted in the lab during laboratory sessions.
Attendance	Student attendance and responsibility: students are required to attend all the lectures. For excused absences, i.e., illness or emergency, student must contact the course coordinator immediately ( within 24 hours). In case of illness, student must submit a formal written excuse from the physician. Otherwise, the absence will be considered unexcused. JUST policy will be applied regarding absences. Please read the university regulations

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