



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

LM326 Clinical Microbiology (2) Practical - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

1 Credit Hours. This course is designed to introduce Medical Laboratory Sciences students to advanced skills in diagnostic microbiology practice, including organization, safety measures, sample selection and collection, processing of samples from specific diseases, isolation of disease etiology, pathogen identification, and selection of antimicrobial therapy.

Teaching Method: On Campus

Text Book

Title	Bailey and Scott's Diagnostic Microbiology
Author(s)	Patricia M. Tille
Edition	15th Edition
Short Name	Ref 1
Other Information	

Instructor

Name	Mr. Ra'Ad Obeidat
Office Location	-
Office Hours	
Email	robiedat@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Mon, Tue, Wed : 10:30 - 11:30

Room: LAB M 6B

Section 2:

Lecture Time: Mon, Tue, Wed : 11:30 - 12:30

Room: LAB M 6B

Section 3:

Lecture Time: Mon, Tue, Wed : 12:30 - 13:30

Room: LAB M 6B

Section 4:

Lecture Time: Mon, Tue, Wed : 13:30 - 14:30

Room: LAB M 6B

Section 5:

Lecture Time: Mon, Tue, Wed : 14:30 - 15:30

Room: LAB M 6B

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Check in, Laboratory Safety Procedure and Policies	From Ref 1
Week 2	Staining Techniques and Microscopic Procedures	From Ref 1
Week 3	Media preparation and culture techniques, isolation procedures, purification techniques, and identification Sterilization	From Ref 1
Week 4	Specimens Collection, Transport, and Culture Techniques	From Ref 1
Week 5	Blood Culture and Microorganisms Encountered in Blood Culture	From Ref 1
Week 6	Microorganisms Encountered in Cerebrospinal Fluid	From Ref 1
Week 7	Microorganisms Encountered in upper respiratory infection (Nasal Swabs, Throat Swabs) Sputum, Deep Tracheal	
Week 8	Midterm Exam	From Ref 1
Week 9	Microorganisms Encountered in in lower respiratory infection (Sputum, Deep Tracheal Aspirates)	From Ref 1
Week 10	Microorganisms Encountered in GIT Infection	From Ref 1
Week 11	Microorganisms Encountered in Urinary Tract Infection	From Ref 1

Week 12	Microorganisms Encountered in Genital Infection	From Ref 1
Week 13	Microorganisms Encountered in Wound, Abscesses, Skin, Bones, and Soft Tissues	From Ref 1
Week 14	Antimicrobial Susceptibility Testing	From Ref 1
Week 15	Final Exam	From Ref 1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Students will learn key diagnostic information of the common bacterial pathogens of humans. [1SLO1] [1L7K1]	40%	
Students will learn the techniques and methods utilized for disease-specific and site-specific processing of clinical samples for diagnosis of bacterial infections. [1SLO2] [1L7S1, 1L7S2]	35%	
Students will learn how to perform antimicrobial susceptibility testing and interpret the results. [1SLO3] [1L7S1, 1L7S2]	5%	
Students will be able to implement quality assurance and quality control standards while working safely in the bacteriology laboratory. [1SLO3, 1SLO4] [1L7C1]	20%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
40	35	15	10								

Relationship to NQF Outcomes (Out of 100%)			
L7K1	L7S1	L7S2	L7C1
40	20	20	20

Evaluation	
Assessment Tool	Weight
Midterm exam	30%
Reports	10%
Quizzes	10%
Final exam	50%