



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

LM221 Medical Microbiology - JNQF Level: 7

Second Semester 2023-2024

Course Catalog

2 Credit Hours. This is an introductory course in medical microbiology. It explores and covers basic principles of bacteriology, virology, mycology, parasitology and immunology. It discusses different types of microorganisms as infectious agents and emphasis on their structures and products that allow them to cause disease. It examines the host/pathogen relationship from the standpoint of the pathogenic organism, the human host, and the environment. Also it studies the Epidemiology and the Nosocomial infections with focusing in pandemics with the importance of sterilization and disinfection. Preparing the student for the Advanced Clinical Microbiology courses

Teaching Method: On Campus

Text Book

Title	Burton's Microbiology For The Health Sciences
Author(s)	Paul G. Engelkirk & Janet Duben- Engelkirk
Edition	11th Edition
Short Name	Ref.1
Other Information	publication date 2018, ISBN:9781284209952

Instructor

Name	Mrs. Yasemin Shboul
Office Location	M1-L-2
Office Hours	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
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Class Schedule & Room

Section 1:

Lecture Time: Mon, Wed : 13:00 - 14:00

Room: N4205

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to microbiology	
Week 2	Cell Structure and taxonomy	From Ref.1
Week 3	Diversity of microorganisms part one bacteria	
Week 4	Diversity of microorganisms part two viruses and prions	
Week 5	Diversity of microorganisms, eucaryotic microbes Fungi and lichens	
Week 6	Diversity of microorganisms, eucaryotic microbes algae , protozoa	
Week 7	Microbial Physiology and Genetics	
Week 8	Microbial Ecology	
Week 9	Immunology and Host Defense System	
Week 10	Epidemiology and Public Health	
Week 11	Healthcare Epidemiology : Nosocomial Infections and Infection Control	
Week 12	Controlling Microbial growth Part one	
Week 13	Controlling Microbial growth and antibiotics Part two	
Week 14	Major Bacterial and Viral Diseases of Humans	
Week 15	Major Fungal Diseases of Humans	
Week 16	Major Parasitic Diseases of Humans	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Classify different types of microorganisms, their structures and taxonomy [10SLO1, 10SLO4] [20L7K1]	20%	

Relationship to Program Student Outcomes (Out of 100%)

SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
10			10								

Relationship to NQF Outcomes (Out of 100%)

L7K1
20

Evaluation	
Assessment Tool	Weight
First Exam	30%
Second Exam	30%
Final Exam	40%

Date Printed: 2024-03-10