



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

LM401 Clinical Microscopy - JNQF Level: 6

First Semester 2023-2024

Course Catalog

1 Credit Hours. This course provides theoretical applications of microscopic techniques in the analysis and examination of urine, stool, cerebrospinal fluid (CSF), seminal fluid, synovial fluid, pleural, and peritoneal fluid. The course will cover the principles and techniques of the clinical microscopy.

Teaching Method: On Campus

Text Book

Title	- Fundamental of Urine and body fluid analysis
Author(s)	- Nancy A.Brunzel
Edition	2nd Edition
Short Name	Body fluids
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Body fluids	- Urinalysis and body fluids	Strasinger, Susan king.	5th Edition	

Instructor

Name	Dr. Muhamad Ali Shakhathreh
Office Location	-
Office Hours	Sun : 10:00 - 12:00 Tue : 10:00 - 12:00 Wed : 11:00 - 12:00 Thu : 11:30 - 12:30
Email	mkshakhathreh@just.edu.jo

Class Schedule & Room
Section 1: Lecture Time: Thu : 13:30 - 14:30 Room: M3306

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction to course	
Week 2	Use and care of the microscope	
Week 3	Use of hemocytometer in microscopic analysis	
Week 4	Urine examination - 1	
Week 5	Urine examination - 2	
Week 6	Urine examination - 3	
Week 7	CSF examination	
Week 8	Stool examination	
Week 9	Sputum examination	
Week 10	Seminal fluid examination.	
Week 11	Synovial fluid examination	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To describe and focus on the selection and collection criteria of the clinical specimen. [1SLO3] [1L6K1, 1L6C1]	5%	
To know the component of microscope, functions, and maintenance. [1SLO2] [1L6K1, 1L6S3]	5%	
To familiarize how to use the haemocytometer and counting of cells in different body fluids. [1SLO3] [1L6S2, 1L6C2]	5%	
To characterize urine macroscopically, microscopically, and chemically. [1SLO1, 1SLO2] [1L6K1, 1L6S3, 1L6C4]	30%	
To characterize CSF, stool, synovial fluid, semen, and sputum chemically, macroscopically, and microscopically. [1SLO6] [1L6S2, 1L6C2, 1L6C4]	40%	
To interpret the results and correlate it with clinical disease, and interfering substances. [1SLO4, 1SLO5] [1L6S2, 1L6C2, 1L6C5]	15%	

Relationship to Program Student Outcomes (Out of 100%)											
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	MSLO1	MSLO2	MSLO3	MSLO4	MSLO5	MSLO6
15	20	10	7.5	7.5	40						

Relationship to NQF Outcomes (Out of 100%)						
L6K1	L6S2	L6S3	L6C1	L6C2	L6C4	L6C5
15	20.83	12.5	2.5	20.83	23.33	5

Date Printed: 2024-03-10