



Jordan University of Science and Technology
Faculty of Medicine
Doctor Of Medicine (Md) Department

MED251 General Pharmacology - JNQF Level: 7

First Semester 2024-2025

Course Catalog

3 Credit Hours. This is a general pharmacology module for second year medical students. In this series of lectures, students will be introduced to the fundamental concepts of Pharmacology including pharmacokinetics, pharmacodynamics, drug metabolism, toxicology, and drug interactions. In addition, the course will introduce students to the pharmacology of the central and autonomic nervous systems. Students will also be introduced to the major drug classes that are used to treat diseases of the cardiovascular system. This course will provide an introduction to the pharmacology and clinical use of antibiotic drugs used in the treatment of infectious diseases. Additional lectures will also cover drugs used in chemotherapy and the treatment of cancer. Other topics will include drugs used for pain management.

Teaching Method: On Campus

Text Book

Title	Goodman and Gilman's: The Pharmacological basis of therapeutics, 13th edition, 2018. McGraw-Hill.
Author(s)	Goodman and Gilman
Edition	13th Edition
Short Name	1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
2	Basic and Clinical Pharmacology	Bertram G Katzung and Anthony J Trevor	14th Edition	

Instructor

Name	Dr. Lina Elsaem
Office Location	M6L0

Office Hours	Sun : 12:30 - 13:30 Mon : 10:00 - 12:00 Tue : 12:30 - 13:30 Wed : 10:00 - 12:00 Wed : 12:00 - 13:00
Email	lmelsalem@just.edu.jo

Class Schedule & Room	
Section 1:	Lecture Time: Sun, Tue : 09:00 - 10:30 Room: مدرج الفاروق
Section 2:	Lecture Time: Sun, Tue : 11:00 - 12:30 Room: مدرج د. سعد حجازي

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Pharmacodynamic and pharmacokinetics	From 2
Weeks 3, 4	autonomic nervous system pharmacology	
Week 5	CLnincal trials and drug discovery	
Week 6	Antineoplastic medications	
Weeks 7, 8	Autacoids, pain, and NSAIDs	
Weeks 9, 10, 11	Antibacterial medications	From 2
Weeks 12, 13	Antiviral, antifungal, antiparasitic drugs	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Recognize basic principles of Pharmacology at both branches of pharmacokinetics and pharmacodynamics. [1PLO1] [1L7K1]	15%	
Identify the pharmacology of medications target sympathetic and parasympathetic nervous systems. [1PLO1] [1L7S1]	20%	
Describe and compare between different types of antibacterial, antifungal, and antiviral drugs and explain their mechanisms of action and their clinical outcomes [1PLO1] [1L7S2]	40%	
Describe the pharmacological targets of prostaglandin analogues and the clinical relevance of their inhibitors, non-steroidal anti-inflammatory drugs (NSAIDs). [1PLO1] [1L7K1]	10%	
Summarize basic principles of drug-drug interactions and drug poisoning, and indicate best management in such cases. [1PLO1] [1L7S2]	15%	

Relationship to Program Student Outcomes (Out of 100%)													
PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7	PLO8	PLO9	PLO10	PLO11	PLO12	PLO13	PLO14
100													

Relationship to NQF Outcomes (Out of 100%)		
L7K1	L7S1	L7S2
25	20	55

Evaluation	
Assessment Tool	Weight
First	30%
Second	25%
Final	40%
Quiz and participation	5%

Policy	
Attendance	? Lectures attendance according to University rules will be required. ? QR code will be used if necessary.
COVID-19 policy	? Please avoid crowding around the lecturer. Questions about the lecture should be sent via e-mail if possible

Date Printed: 2024-11-25