



**Jordan University of Science and Technology**  
**Faculty of Pharmacy**  
**Pharmacy Department**

PHAR342 Pharmacology 2
Second Semester 2023-2024

Course Catalog
3 Credit Hours. This course introduces comprehensive pharmacological concepts of drugs acting on the cardiovascular system, respiratory system, gastrointestinal tract, and anti-inflammatory agents.
<b>Teaching Method:</b> Blended

Text Book	
<b>Title</b>	Basic and clinical pharmacology
<b>Author(s)</b>	Bertram G. Katzung, McGraw-Hill, 2017
<b>Edition</b>	14th Edition
<b>Short Name</b>	Ref # 1
<b>Other Information</b>	

**Course References**

Short name	Book name	Author(s)	Edition	Other Information
Ref #2	Katzung & Trevor's Pharmacology, Examination & Board Review. 11th Ed.	Anthony Trevor (Author), Bertram Katzung (Author), Marieke Knuidering-Hall (Author)	11th Edition	

Instructor	
Name	Dr. Rasha Khader
Office Location	M5 - L-4
Office Hours	
Email	rekhader@just.edu.jo

Class Schedule & Room
Section 2: Lecture Time: Sun, Tue, Thu : 13:30 - 14:30 Room: M3305

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2	Diuretic drugs	Chapter 15 From Ref # 1
Weeks 2, 3	Antihypertensive drugs	Chapter 11 From Ref # 1
Weeks 3, 4	Vasodilators and the Treatment of Angina pectoris	Chapter 12 From Ref # 1
Week 5	Drugs Used in Heart Failure	Chapter 13 From Ref # 1
Weeks 6, 7	Agents Used in Cardiac Arrhythmias	Chapter 14 From Ref #2
Weeks 8, 9	Drugs used in Disorders of Coagulation	Chapter 34 From Ref # 1
Week 10	Agents Used in Dyslipidemia	Chapter 35 From Ref # 1
Week 11	Nonsteroidal Anti-Inflammatory Drugs, Disease-Modifying Antirheumatic Drugs, Nonopioid Analgesics, & Drugs Used in Gout	Chapter 36 From Ref # 1
Weeks 12, 13	Drugs used In Asthma	Chapter 20 From Ref # 1
Weeks 14, 15	Drugs used in the Treatment of GIT diseases	Chapter 62 From Ref # 1

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the molecular, cellular, and physiological mechanisms underlying normal cell/organ function; the pathophysiological changes that occur in the etiology of the cardiovascular, respiratory, and gastrointestinal problems. [1PLO1.1]	10%	First Exam, Second Exam, Final Exam

Identify the molecular pharmacology and the mechanism of action of drugs used for treatment of cardiovascular, respiratory, and gastrointestinal problems. [1PLO1.1]	50%	First Exam, Second Exam, Final Exam, Active Learning (Project)
Identify the pharmacokinetic properties of drugs used for treatment of cardiovascular, respiratory, and gastrointestinal problems. [1PLO1.1]	20%	First Exam, Second Exam, Final Exam
Outline side or adverse effects, toxicities and indications of drugs used for treatment of cardiovascular, respiratory, and gastrointestinal problems. [1PLO1.1]	20%	First Exam, Second Exam, Final Exam

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
100															

Evaluation	
Assessment Tool	Weight
First Exam	25%
Second Exam	25%
Final Exam	40%
Active Learning (Project)	10%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). Makeup exam should not be given unless there is a valid excuse approved by the dea
Cheating	<p>The commitment of any acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way re</p> <p>Standard JUST policy will be applied.</p> <p>Student disciplinary regulations at the university can be found here:  <a href="https://www.just.edu.jo/aboutjust/RegulationsTemp/41%20%D9%86%D8%B8%D8%A7%D9%85%20%D8%AA%D8%A3%D8%AF%extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.just.edu.jo/aboutjust/RegulationsTemp/41%20%D9%86%D8%B8%D8%A7%D9%85%20%D8%AA%D8%A3%D8%AF%extension://efaidnbmnnnibpcajpcglclefindmkaj/">https://www.just.edu.jo/aboutjust/RegulationsTemp/41%20%D9%86%D8%B8%D8%A7%D9%85%20%D8%AA%D8%A3%D8%AF%extension://efaidnbmnnnibpcajpcglclefindmkaj/</a></p> <p>The university now requires all students to read and agree to the code of conduct during exams, which is published on E-learning early during the semester.</p> <p>In this course, all forms of electronic devices (phones, tablets, smartwatches, etc.) need to be turned off completely during exams. Headphones, earphones, and hats are forbidden du</p> <p>If any of the above items are required during the exam (e.g., for medical reasons), the student is required to communicate this with the teacher beforehand.</p> <p>Any breach of the above will result in a strict punishment.</p>
Attendance	According to the JUST policy, the JUST attendance system automatically assigns a ZERO grade (35) if a student misses more than 20 % of the classes.
Participation	Students are encouraged to ask questions and actively participate in the learning process during the lecture.
Withdraw	The last day to drop the course is before the twelfth (12th) week of the current semester.
Classroom etiquette	As a student of JUST, you are expected to behave in class. This means respecting your teacher and your classmates. Talking and misbehaving are completely not tolerated and migh above.
Students with special needs	Students with special needs are encouraged to communicate their needs with their teacher as soon as possible to make sure all arrangements they need are set early in the semeste
Contacting teacher in writing	<p>To contact the teacher via email, you need to title the email with (Your student ID - Module name - Class number). For example, (00000 - Pharmacology 2 - Class 1).</p> <p>Do NOT write the entire content of the email in the title.</p> <p>Do NOT write very long emails. Rather, book a slot during office hours to discuss the issue.</p> <p>Only emails from JUST domain will be read and replied to. Emails sent from personal emails (e.g., Gmail) will be immediately deleted.</p> <p>Only three forms of contact are allowed, email, Teams, and E-learning. Contacting the teacher via nonprofessional platforms (e.g., messenger) is prohibited.</p>
Visits during office hours	<p>Before visiting the teacher during office hours, it is preferred to book a slot using your Outlook calendar.</p> <p>Students who book slots will have priority over students who do not.</p> <p>This is to ensure that students have the time and confidentiality they need to discuss their issues during the visit.</p>

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