

Course Description Form

1. Course Name:	
Pharmacology I	
2. Course Code:	
Phpht24-3212	
3. Semester / Year:	
2 nd semester/3 rd year	
4. Description Preparation Date:	
2024/09/1	
5. Available Attendance Forms:	
Excel sheets	
6. Number of Credit Hours (Total) / Number of Units (Total)	
45 Hours/ 3 Units	
7. Course administrator's name (mention all, if more than one name)	
Name: Asst. Prof. Dr. Fawaz A. Alassaf Email: Fawaz.Alassaf@uomosul.edu.iq Name: Asst. Prof. Dr. Ammar A. Younis Email: ammara@uomosul.edu.iq Name: Asst. Prof. Dr. Adnan A. Zainal Email: adnan.zainal2010@uomosul.edu.iq Name: Dr. Mohammed Daowd Mahmoud Email: Mohameddaowd@uomosul.edu.iq Name: Dr. Aseel A. Alshahwany Email: Aseel.ahmed@uomosul.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> Understand Fundamental Concepts of Pharmacology Apply pharmacokinetic principles to predict drug absorption, distribution, metabolism, and excretion. Interpret the molecular targets of drugs, including receptors, enzymes, ion channels, and transporters, to understand their physiological and therapeutic effects. Apply pharmacological concepts to comprehend how adrenergic and cholinergic medications affect the autonomic nervous system, and how antibiotics work against bacterial pathogens.
9. Teaching and Learning Strategies	
Strategy	<ul style="list-style-type: none"> Lectures and Interactive Presentations Case-Based Learning Interactive Workshops and Seminars Self-Directed Learning and Research Projects Assessment Strategies

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	Acquired Pharmacological Knowledge	General Introduction to Pharmacology	Lecture	Quizzes and Exams
1-2	4	Acquired Pharmacological Knowledge	Pharmacokinetics	Lecture	Quizzes and Exams
3	4	Acquired Pharmacological Knowledge	Drug Receptor Interaction and Pharmacodynamics	Lecture	Quizzes and Exams
4	2	Acquired Pharmacological Knowledge	The autonomic nervous system (ANS)	Lecture	Quizzes and Exams
5-6	6	Acquired Pharmacological Knowledge	Cholinergic system	Lecture	Quizzes and Exams
7-8	6	Acquired Pharmacological Knowledge	Adrenergic system	Lecture	Quizzes and Exams
9	2	Acquired Pharmacological Knowledge	Principal of antimicrobial therapy	Lecture	Quizzes and Exams
9-10	4	Acquired Pharmacological Knowledge	β -lactam and other cell wall synthesis inhibitor antibiotics	Lecture	Quizzes and Exams
11-12	4	Acquired Pharmacological Knowledge	Protein synthesis inhibitors	Lecture	Quizzes and Exams
12-13	3	Acquired Pharmacological Knowledge	Quinolones, Folate antagonists, and urinary tract antiseptics	Lecture	Quizzes and Exams
13	2	Acquired Pharmacological Knowledge	Antimycobacterial drugs	Lecture	Quizzes and Exams
14	2	Acquired Pharmacological Knowledge	Antifungal drugs	Lecture	Quizzes and Exams
14	1	Acquired Pharmacological Knowledge	Antiprotozoal drugs	Lecture	Quizzes and Exams
15	2	Acquired Pharmacological Knowledge	Anthelmintic drugs	Lecture	Quizzes and Exams
15	1	Acquired Pharmacological Knowledge	Antiviral drugs	Lecture	Quizzes and Exams

11.Course Evaluation	
Evaluation Breakdown for a Total Score of 100: Quizzes (5%); Midterm Exam (25%) and Final Exam (70%).	
12.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	➤ “Lippincott Illustrated Reviews Pharmacology” by Karen Whalen, 7 th edition (2020)
Main references (sources)	➤ "Basic and Clinical Pharmacology" by Bertram G. Katzung, Susan B. Masters, and Anthony J. Trevor.
Recommended books and references (scientific journals, reports...)	➤ "Rang & Dale's Pharmacology" by James M. Ritter, Rod J. Flower, and Graeme Henderson ➤ "Goodman & Gilman's: The Pharmacological Basis of Therapeutics" by Laurence L. Brunton, Bjorn C. Knollmann, and Randa Hilal-Dandan.
Electronic References, Websites	➤ PubMed (https://pubmed.ncbi.nlm.nih.gov/) ➤ Medscape (https://www.medscape.com/) ➤ UpToDate (https://www.uptodate.com/) ➤ Pharmacology Education Project (https://pharmacologyeducation.org/)