Course Description Form

1.	Course Name:					
	Pharmacology I					
2.	Course Code:					
	Phpht24-3212					
3.	Semester / Year:					
	2 nd semester/ 3 rd vear					
4.	Description Preparation Date:					
	20-03-2024					
5.	Available Attendance Forms:					
	Attendance Excel sheets					
6.	Number of Credit Hours (Total) / Number of Units (Total)					
	3 hours per week (45 hours)/ 3 Units					
7.	Course administrator's name					
	Name: Asst. Prof. Dr. Fawaz A. Alassaf					
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	Name: Asst. Prof. Dr. Ammar A. Younis					
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	Name: Asst. Prof. Dr. Adnan A. Zainal					
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	Name: Dr. Aseel A. Alshahwany					
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8.	Course Objective	28				
Cours	e Objectives	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				
0	how antibiotics work against bacterial pathogens.					
9. Teaching and Learning Strategies						
Strate	gy	• Lectures and Interactive Presentations				
		• Case-Based Learning				
		Interactive workshops and Seminars				
		• Self-Directed Learning and Research Projects				
		Assessment Strategies				

Week	eek Hours Required Learning Unit or subject Learning			Learning	Evaluation
W CCK	liouis	Outcomes	name	method	method
1	2	Acquired	General Introduction	Lecture	Ouizzes and
1		Pharmacological	to Pharmacology	Lecture	Exams
		Knowledge			Linumb
1-2	4	Acquired	Pharmacokinetics	Lecture	Ouizzes and
		Pharmacological			Exams
		Knowledge			
3	4	Acquired	Drug Receptor	Lecture	Ouizzes and
-		Pharmacological	Interaction and		Exams
		Knowledge	Pharmacodynamics		
4	2	Acquired	The autonomic	Lecture	Ouizzes and
		Pharmacological	nervous system		Exams
		Knowledge	(ANS)		
5-6	6	Acquired	Cholinergic system	Lecture	Ouizzes and
	-	Pharmacological			Exams
		Knowledge			
7-8	6	Acquired	Adrenergic system	Lecture	Ouizzes and
	_	Pharmacological	<u>8</u>		Exams
		Knowledge			
9	2	Acquired	Principal of	Lecture	Ouizzes and
2		Pharmacological	antimicrobial therapy		Exams
		Knowledge			
9-10	4	Acquired	β- lactam and other	Lecture	Ouizzes and
		Pharmacological	cell wall synthesis		Exams
		Knowledge	inhibitor antibiotics		
11-12	4	Acquired	Protein synthesis	Lecture	Ouizzes and
		Pharmacological	inhibitors		Exams
		Knowledge			
12-13	3	Acquired	Quinolones, Folate	Lecture	Quizzes and
		Pharmacological	antagonists, and		Exams
		Knowledge	urinary tract		
		Ũ	antiseptics		
13	2	Acquired	Antimycobacterial	Lecture	Quizzes and
		Pharmacological	drugs		Exams
		Knowledge	C		
14	2	Acquired	Antifungal drugs	Lecture	Quizzes and
		Pharmacological			Exams
		Knowledge			
14	1	Acquired	Antiprotozoal drugs	Lecture	Quizzes and
		Pharmacological	1 0		Exams
		Knowledge			
15	2	Acquired	Anthelmintic drugs	Lecture	Quizzes and
		Pharmacological			Exams
		Knowledge			
15	1	Acquired	Antiviral drugs	Lecture	Quizzes and
-	_	Pharmacological			Exams
		Knowledge			
11 4	Course En	aluation			

• 20 M mid tom (Ouizzog (50/)) Midtom	$E_{xom}(250/)$					
• 30 M mid-term (Quizzes (5%); Midterm Exam (25%)						
• /0 M final exam						
• 100 M total						
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	"Rang & Dale's Pharmacology" by James					
journals, reports)	M. Ritter, Rod J. Flower, and Graeme					
	Henderson					
	➢ "Goodman & Gilman's: The					
	Pharmacological Basis of Therapeutics" by					
	Laurence L. Brunton, Biorn 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/)					
	(https://pharmacologyeducation.org/)					