

Course Description Form

1. Course Name:					
Pharmacology III					
2. Course Code:					
Phpht25-4212					
3. Semester / Year:					
Second semester/2025-2026					
4. Description Preparation Date:					
1/9/2025					
5. Available Attendance Forms:					
Students' signature on attendance sheet					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 hours Theoretical					
7. Course administrator's name					
Name: Assist. Prof Dr. Musab M Khalaf Email: Musabph74@uomosul.edu.iq Assist. Prof Dr. Hani M Al-Mukhtar Email: Hanialmukhtar@uomosul.edu.iq Assist. Prof. Dr. Ghayth M Abdulrazzaq Email: ghayth.abdulrazzaq@uomosul.edu.iq Assist. Prof. Dr. Mohannad Qazzaz Email: Mohannad.qazzaz@uomosul.edu.iq					
8. Course Objectives					
Course Objectives					
Basic Knowledge about the pharmacology of drugs used for various systemic diseases including, hormones, inflammation and anti-inflammatory, osteoporosis and anticancer drugs			<ul style="list-style-type: none"> Providing students with theoretical knowledge about the mechanism of action of drugs and the side effects they may cause. 		
9. Teaching and Learning Strategies					
Strategy		Lecturing Assessment exams Homework discussion			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should understand the importance of knowing the clinical uses of drugs.	Hormones of the pituitary gland	- In-person lectures - Blended learning	- Written exams - Seminars and discussion
2	2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should understand the importance of knowing the clinical uses of drugs.	Hormones of the thyroid gland	- In-person lectures - Blended learning	- Written exams - Seminars and discussion

		B1. The student should be aware of the side effects of drugs.				
3	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.</p>	Estrogens and antagonists	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion 	ion
4	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.</p>	Progestins and antagonists	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion 	ion
5	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.</p>	Contraceptives	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion 	ion
6	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action</p>	Androgens and antagonists	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion 	ion

		and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.			
7	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.</p>	Diabetes and insulin	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion
Mid-term exam					
8	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.</p>	Oral antidiabetic drugs	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion
9	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.</p>	Drugs for osteoporosis	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion
10	2	<p>A1. The student should understand the mechanism of action of drugs in detail.</p> <p>A2. The student should recognize the importance of knowing the clinical uses of drugs.</p> <p>B1. The student should identify the side effects of drugs.</p> <p>B2. The student should analyze drug interactions between different medications.</p> <p>C1. The student should utilize their</p>	Inflammation and anti-inflammatory drugs	<ul style="list-style-type: none"> - In-person lectures - Blended learning 	<ul style="list-style-type: none"> - Written exams - Seminars and discussion

		knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.				
11	2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should recognize the importance of knowing the clinical uses of drugs. B1. The student should identify the side effects of drugs. B2. The student should analyze drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Immunosuppressants and biological agents	- In-person lectures - Blended learning	- Written exams - Seminars and discussion	ion
12	2	A1. The student should understand mechanism of action of drugs in detail A2. The student should recognize importance of knowing the clinical of drugs. B1. The student should identify the effects of drugs. B2. The student should analyze interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Drugs for gout	- In-person lectures - Blended learning	- Written exams - Seminars and discussion	ion
13	2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should recognize the importance of knowing the clinical uses of drugs. B1. The student should identify the side effects of drugs. B2. The student should analyze drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Anticancer drugs	- In-person lectures - Blended learning	- Written exams - Seminars and discussion	ion
14	2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should recognize the importance of knowing the clinical uses of drugs. B1. The student should identify the side effects of drugs. B2. The student should analyze	Anticancer drugs	- In-person lectures - Blended learning	- Written exams - Seminars and discussion	ion

		drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.			
15		A1. The student should understand the mechanism of action of drugs in detail. A2. The student should recognize the importance of knowing the clinical uses of drugs. B1. The student should identify the side effects of drugs. B2. The student should analyze drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Anticancer drugs	- In-person lectures - Blended learning	- Written exams - Seminars and discussion

11. Course Evaluation

- 30 M Theoretical assessment; (paper-based mid-term exam + quiz + attendance)
- 70 M paper-based theoretical final exam

Total 100 M

12. Learning and Teaching Resources

Required textbooks	Lippincott's Illustrated Review
Main references (sources)	Katzung Pharmacology Rang and Dale's Pharmacology Medical Pharmacology at a Glance
Electronic References, Websites	<ul style="list-style-type: none"> • PubMed (https://pubmed.ncbi.nlm.nih.gov/) • Medscape (https://www.medscape.com/) • UpToDate (https://www.uptodate.com/) Pharmacology Education Project (https://pharmacologyeducation.org/)

