

Course Description Form

1. Course Name:					
Organic Pharmaceutical Chemistry III					
2. Course Code:					
Phpch23_4210					
3. Semester / Year:					
2 nd Semester/ 4 th year					
4. Description Preparation Date:					
21/03/2024					
5. Available Attendance Forms:					
Students' signatures on attendance sheets					
6. Number of Credit Hours (Total) / Number of Units (Total)					
3 hours theory + 2 hours practical (75) / 4 units					
7. Course administrator's name (mention all, if more than one name)					
Theory					
Name: Assist. Prof. Dr. Mahmood Khudair Oglah					
Email: mahmoodpharm76@uomosul.edu.iq					
Name: Assist. Prof. Dr. Moath Kahtan Bashir					
Email: moathkahtan@uomosul.edu.iq					
Practical					
Name: Assist. Lec. Safaa Polis Behnam					
Email: safaapk@uomosul.edu.iq					
Name: Assist. Lec. Sawsan Hasan					
Email: sawsan.hasan@uomosul.edu.iq					
Name: Assist. Lec. Sara Ahmad					
Email: sarah.ahmed@uomosul.edu.iq					
8. Course Objectives					
Course Objectives		<ul style="list-style-type: none"> • Introducing the students to pharmaceutical chemistry • Explain the interaction between chemical structure and Biological activities. 			
9. Teaching and Learning Strategies					
Strategy		<ul style="list-style-type: none"> • Theory lectures with teaching aids such as videos and diagrams • Practical sessions where students actively perform experiments 			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1+2	3+2	<ul style="list-style-type: none"> • Introduction and Alkylating agents • Cannizaro reaction (part I). 	<ul style="list-style-type: none"> • Antineoplastic drugs • Organic synthesis 	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based exams • Lab-based unknowns
3+4	3+2	<ul style="list-style-type: none"> • Antimetabolite 	<ul style="list-style-type: none"> • Antineoplastic drugs 	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based exams

		<ul style="list-style-type: none"> • Cannizaro reaction (part II). 	<ul style="list-style-type: none"> • Organic synthesis 		<ul style="list-style-type: none"> • Lab-based quiz
5+6		Plant products; Miscellaneous compounds Re-crystallization of benzoic acid	<ul style="list-style-type: none"> • Antineoplastic drugs • Organic synthesis 	<ul style="list-style-type: none"> • Lectures Practical	<ul style="list-style-type: none"> • Paper-based exams • Lab-based quiz
7+8	3+2	<ul style="list-style-type: none"> • Anti HSV drugs • Anti HIV drugs Assay of ascorbic acid (Known sample)	<ul style="list-style-type: none"> • Antiviral drugs • Organic synthesis 	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based exams • Lab-based quiz
9+10	3+2	<ul style="list-style-type: none"> • Systemic antifungals • Local antifungals Assay of ascorbic acid (unknown)	<ul style="list-style-type: none"> • Antifungal drugs Organic synthesis	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based Exams • Lab-based quiz
11 +12	3+2	<ul style="list-style-type: none"> • β-Lactam antibiotics Synthesis of phenol	<ul style="list-style-type: none"> • Antibacterials Organic synthesis	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based Exam • Lab-based quiz
13	3+2	<ul style="list-style-type: none"> • Tetracyclines; and Macrolides Assay of phenol (Known sample and unknown)	<ul style="list-style-type: none"> • Antibacterials • Organic synthesis 	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based Exam • Lab-based quiz
14	3+2	<ul style="list-style-type: none"> • Lincomycins and Polypeptides Re-crystallization of acetanilide	<ul style="list-style-type: none"> • Antibacterials • Organic synthesis 	<ul style="list-style-type: none"> • Lectures • Practical 	<ul style="list-style-type: none"> • Paper-based exam • Lab-based quiz
15	3+2	<ul style="list-style-type: none"> • Quinolone 	<ul style="list-style-type: none"> • Antibacterials 	<ul style="list-style-type: none"> • Lectures 	<ul style="list-style-type: none"> • Paper-based exam

		• Synthesis of paracetamol.	• Organic synthesis	• Practical	• Lab-based quiz
11. Course Evaluation					
<ul style="list-style-type: none"> • 20 M: Theoretical assessment (paper-based midterm exam, attendance) • 20 M: Practical assessment (attendance, quizzes, unknowns, reports) • 60 M: paper-based theoretical final exam <hr/> <p>100 M total</p>					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)		<p>Wilson and Gisvold Textbook of Organic medicinal and Pharmaceutical chemistry, Delgado JN, Remington WA, (Eds); 12th edition, 2010</p> <p>Graham L. Patrick textbook of An Introduction to Medicinal Chemistry, latest edition.</p> <p>Laboratory Handbook for Practical Pharmaceutical Chemistry adopted by the department.</p>			
Main references (sources)		<p>Wilson and Gisvold Textbook of Organic medicinal and Pharmaceutical chemistry, Delgado JN, Remington WA, (Eds); 12th edition, 2010</p> <p>Laboratory Handbook for Practical Pharmaceutical Chemistry adopted by the department.</p>			
Recommended books and references (scientific journals, reports...)					
Electronic References, Websites					