



Course Detailed Description - Procedures of the Course Plan Committee /Faculty of Pharmacy QF02/0408-1.0

Department		Pharmacy				
Course Name		Medicinal Chemistry-3	Course No.	201511		
Prerequisite		Medicinal Chemistry-2	Credit Hours	3		
Number & date of		· · · ·	Priof Decerimtion	See form		
course plan appr	roval		Brief Description	QF02/0409		
Intended Learning Outcomes	1.	To cover the majority of drug c students in the knowledge of th				
	2.	. Students should be able to correlate chemical structures with pharmacological activities.				
	3.	To give students a great background in medicinal chemistry so they become capable of understanding other related courses.				
	1.	1. Antibiotics and Antimicrobial Agents				
	2.	2. Antifungal Drugs				
	3.	3. Antimycobacterial Agents				
		4. Antiparasitic Agents				
Course		5. Cancer and Cancer Chemotherapy				
Topics	6.					
	7.					
		8. Antithyroid Drugs and Calcium Homeostasis				
		<ul> <li>Antimyroid Drugs and Calcium Homeostasis</li> <li>Adrenocorticoids</li> </ul>				
	9.	Adrenocorticolds				
	1.	<ol> <li>Foye's Principles of Medicinal Chemistry, 6<sup>th</sup> edition, Thomas L. Lemke and David A. Williams, Lippincott Williams &amp; Wilkins, 2008.</li> </ol>				
Text Books	2.	<ol> <li>Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry, 12<sup>th</sup> edition, J. N. Delgado and W. A. Remers, Lippincott-Raven, 2011.</li> </ol>				
	3.	An introduction to Medicinal chemistry, 4 <sup>th</sup> edition, Graham Patrick, Oxfor University Press, 2008.				
References	1.	The Organic Chemistry of Drug Richard B. Silverman, Elsevier		tion, 2 <sup>nd</sup> edition,		
	2.	<ol> <li>Burger's Medicinal Chemistry and Drug Discovery, 6<sup>th</sup> edition, M. E. Wolff, 2003.</li> </ol>				
	3.	The Organic Chemistry of Drug	g Synthesis, Vol. 1-6, I	D. Lednicer and L. A.		

	Mitscher, John Wiley and Sons.
Grade Determination	$1^{st} \operatorname{Exam} = 25\%$ $2^{nd} \operatorname{Exam} = 25\%$ Final Exam = 50%

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جامعة الزيتونية الأردنية

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QF02/0408-1.0

Course Outline				
Week	Hours	Subjects	Chapters in Textbook	Notes
		Synthetic Antimicrobial Agents		
1 <sup>st</sup>	1	Sulfonamides.	Textbook 1/	
	1	Quinolones.	Chapter 38	
	1	Miscellaneous agents.	Chapter 50	
	1	Antibiotics	<b>T</b> 1 1 1 1	
$2^{nd}$	1	β-Lactams.	Textbook 1/	
	1	Penicillins.	Chapter 38	
	1	Penicillins.		
3 <sup>rd</sup>	1	Cephalosporins.	Textbook 1/	
0	1	Carbapenems.	Chapter 38	
		Aminoglycosides and Aminocyclitols.		
, th	1	Macrolides.	Textbook 1/	
4 <sup>th</sup>	1	Tetracylines.	Chapter 38	
	1	Lincosaminides.	empter e e	
		Antifungal Drugs		
<b>-</b> th	1	Polyene antibiotics.	Textbook 1/	
$5^{\text{th}}$	1	Azoles.	Chapter 40	
	1	Allyl amines and others.	- 1	
		Antimycobacterial Agents		
eth	1	Treatment of Tuberculosis (anti-TB).	Textbook 1/	
$6^{th}$	1	Mycobacterium avium-intracellular Complex.	Chapter 41	
	1	Drug therapy for Leprosy.	- 1	
	1	Antiparasitic Agents		
7 <sup>th</sup>	1	Treatment of Amebiasis, Giardiasis, and	Textbook 1/	
/"	1	Trichomoniasis.	Chapter 39	
	1	Treatment of Leishmeniasis.	1	
		Treatment of Pneumocystis (PCP).		
	1	Treatment of Trypanosomiasis.	T (1 1 1 /	
$8^{th}$	1	Treatment of Malaria.	Textbook 1/	
	1	Drug therapy for Helminth infections.	Chapter 39	
		Drug therapy for Scabies and Pediculosis.		
	1	Cancer and Cancer Chemotherapy		
9 <sup>th</sup>	1	Alkylating agents (Nitrogen mustards).	Textbook 1/	
9	1	Other alkylating agents.	Chapter 42	
	1	Nitrosoureas.	1	
	1	Antimetabolites and nucleoside analogues.	Touch a st- 1/	
$10^{th}$	1	Other antimetabolites.	Textbook 1/	
	1	Antitumor antibiotics.	Chapter 42	
	1	Antimitotic agents.		
11 <sup>th</sup>	1	Miscellanous antineoplastics.	Textbook 1/	
11	1	Hormonal therapy	Chapter 42	
	1	Antiviral Agents and Protease Inhibitors	Textbook 1/	+
$12^{\text{th}}$	1		Chapter 43	
	1	Agents inhibiting virus attachment, penetration	Chaptel 43	<u> </u>

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	1	and replication.	
		Agents interfering with viral nucleic acid	
		replication.	
	1	Antiretroviral (Anti-HIV) agents.	Textbook 1/
13 <sup>th</sup>	1	Nucleoside and non-nucleoside reverse	
	1	transcriptase inhibitors (NRTI and NNRTI).	Chapter 43
	1	Insulin and Oral Hypoglycemic Drugs	Textbook 1/
14 <sup>th</sup>	1		
	1	Antithyroid Drugs	Chapter 32, 34
	1	Calcium Homeostasis	Textbook 1/
15 <sup>th</sup>	1		Chapters
	1	Adrenocorticoids	35, 33

Approved by Dept. Chair	Date of Approval	

## Extra Information: (Updated every semester and filled by course instructor)

Course Instructor	
Office No.	
Extension	
Email	
Office hours	