



Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy

QF02/0408–1.0

Department	Pharmacy
------------	----------

Course Name	Pharmacology-3-	Course No.	201433
Prerequisite	Pharmacology-2-	Credit Hours	3
Number & date of course plan approval	2013	Brief Description	See form QF02/0409

Intended Learning Outcomes	<p>Upon completion of the course, the student is expected to be able to:</p> <ol style="list-style-type: none"> 1) Understand the principles of action, clinical uses, drug-drug interactions, adverse effects of selected drugs used to treat infectious and cancer diseases. 2) As well as recommend the most appropriate pharmacological and in some cases the non-pharmacological treatment for each condition. 		
Course Topics	<p>This course provides students with</p> <ol style="list-style-type: none"> 1. The knowledge of groups of chemotherapeutic drugs 2. Their pharmacological properties 3. Drugs used in infectious 4. Drugs used in cancer diseases. 5. As well as the knowledge of mechanism of action, 6. pharmacodynamics, pharmacokinetics, 7. clinically significant side effects & drug interactions, 8. contraindications 9. and clinical uses. 		
Text Books	1. Lippincott's illustrated reviews; 4 th edition; 2009.		
References	<ol style="list-style-type: none"> 1. Modern pharmacology with clinical applications 6th edition (2004) 2. Goths medical pharmacology (13th edition) 		
Grade Determination	<input type="checkbox"/> 1 st Exam = 25% <input type="checkbox"/> 2 nd Exam = 25% <input type="checkbox"/> Final Exam = 50%	<input type="checkbox"/> Practical Course Grade Determination	<input type="checkbox"/> Course Work = 50% (Reports, Term Papers, Quizes) <input type="checkbox"/> Final Exam = 50%



Course Outline				
Week	Hours	Subjects	Chapters in Textbook	Notes
1		<ul style="list-style-type: none"> - Chemotherapy - Introduction to chemotherapy - Synthetic organic antimicrobials: 		
2		<ul style="list-style-type: none"> - Sulfonamides, trimethoprim, nitrofurans, - Quinolones and methenamine. - Mechanism of action, uses and side effects 		
3		<ul style="list-style-type: none"> - B-lactam antibiotics, penicillins, cephalosporins - Mechanism of action, - uses and side effects 		
4		<ul style="list-style-type: none"> - Aminoglycoside antibiotics - Tetracycline's - Mechanism of action, uses and side effects 		
5		<ul style="list-style-type: none"> - Chloramphenicol, - Macrolides - Lincosamide. 		
6		<ul style="list-style-type: none"> - Bacitracin, glycopeptide antibiotics and the polymyxins - Antimycobacterial drugs - Mechanism of action, uses and side effects 		
7		<ul style="list-style-type: none"> - Antiviral drugs - Mechanism of action, - uses and side effects 		
8		<ul style="list-style-type: none"> - Therapy of human immunodeficiency virus - Antifungal drugs. - Mechanism of action, uses and side effects 		
9		<ul style="list-style-type: none"> - Anthelmintic drugs. - Antiprotozoal drugs. - Mechanism of action, uses and side effects 		
10		<ul style="list-style-type: none"> - Anticancer drugs: - Introduction - Antimetabolites 		



Course Outline				
Week	Hours	Subjects	Chapters in Textbook	Notes
11		<ul style="list-style-type: none"> - Antibiotic anticancer agents. - Alkylating agents. - Mechanism of action, uses and side effects 		
12		<ul style="list-style-type: none"> - Microtubule inhibitors. - Mechanism of action, - uses and side effects 		
13		<ul style="list-style-type: none"> - Monoclonal antibodies. - Mechanism of action, - uses and side effects 		
14		<ul style="list-style-type: none"> - Steroidal and antisteroidal anticancer drugs. - Mechanism of action, - uses and side effects 		
15		<ul style="list-style-type: none"> - Rational designed anticancer drugs. - Mechanism of action, - uses and side effects 		
16		<ul style="list-style-type: none"> - Immunosuppressants. - Mechanism of action, - uses and side effects 		

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	