



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

QF02/0408–2.1E

Department	Pharmacy
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Course Name	Pharmacology-1-	Course No.	201335
Prerequisite	-----	Credit Hours	3
Number & date of course plan approval	201٦	Brief Description	See form QF02/0409

Course Objective	<ol style="list-style-type: none"> 1) Learn the basic principles of pharmacology. 2) Learn pharmacokinetic and pharmacodynamics processes. 3) Learn selected groups of drugs, their mechanisms of action, their drug side effects, interactions and contraindications. 		
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 general principles of pharmacology, mechanism of action, clinical uses, drug interactions, adverse effects, of selected drugs of the groups mentioned above. 2) As well as recommend the most appropriate pharmacological and in some cases the non-pharmacological treatment for some clinical conditions for which these drugs are used. 		
Course Topics	<p>This course provides students with</p> <ol style="list-style-type: none"> 1. The knowledge of the general principles of pharmacology. 2. In addition, it covers drug groups which affect the autonomic nervous system, 3. cardiovascular system, 4. gastrointestinal tract. 5. As well as, it provides the knowledge of mechanism of action, 6. pharmacodynamics, pharmacokinetics, 7. clinically significant side effects, 8. drug interactions, 9. contraindications 10. clinical uses. 		
Text Books	Lippincott's illustrated reviews; 6th edition; 2015.		
References	<p>- Modern pharmacology with clinical applications 6th edition (2004)</p> <ol style="list-style-type: none"> 1. - Goths medical pharmacology (13th edition) 		
Grade Determination	1 st Exam = 25%	2 nd Exam = 25%	Final Exam = 50%

Course Outline

Week	Subjects	Chapters in textbook
1 st 2 nd	<ul style="list-style-type: none"> - Terminology and general introduction - Pharmacokinetics (absorption, distribution, metabolism and excretion) 	1
3 rd	Drug-receptor interaction and pharmacodynamics	2



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4 th	- Drugs affecting the autonomic nervous system - General organization and function of	3
4 th	- Directly cholinimimetics - Indirectly cholinimimetics	4
5 th	- Muscarinic receptors blocking drugs - Ganglionic blocking drugs - Neuromuscular blockers	5
6 th	- Adrenomimetic drugs	6
7 th / 8 th	- Adrenoceptor antagonists: α-Receptor antagonists β- Receptor antagonists	7
9 th	- Diuretic drugs	18
10 th / 11 th	- Antihypertensive drugs	17
11 th	Antianginal drugs	21
12 th	Drugs used in Heart Failure	19
13 th	- Antihyperlipidemic drugs	23
14 th	- Antiarrhythmic drugs	20
15 th	- Anticoagulant, antiplatelet, and fibrinolytic drugs	22

Approved by Dept. Chair		Date of Approval	
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Extra Information: (Updated every semester and filled by course instructor)

Course Instructor	Dr. Ghada Nusair
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Office hours	ح، ث، خ (١٢-١١) ن، ر (١١-٣٠:١٢) ر (٨-٣٠:٩)