

Course Detailed Description – Procedures of the Course Plan Committee /Faculty of Pharmacy **QF02/0408–2.10E**

Department	Pharmacy
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Course Name	Pharmacology Lab	Course No.	201432
Prerequisite	Pathophysiology Lab	Credit Hours	1
Number & date of course plan approval	2016	Brief Description	See form QF02/0409

Course Objectives	Make the students experiment real test on animals and to see the effect of different drugs on them.		
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) Understands the principles of handling and dealing with different species of animals. As well as how to perform the pharmacological experiments using different pharmacological techniques. 2) At the same time the students should be able to understand the principles of action, clinical uses, drug-drug interactions, adverse effects of selected drugs. 3) The students should be able to do literature review and write and present seminars in selected topics. 		
Course Topics	<p>This course provides students with</p> <ol style="list-style-type: none"> 1. The practical knowledge of groups of drugs and their pharmacological properties 2. By using different species of animals and different pharmacological techniques. 3. As well as the practical knowledge of the mechanism of action, 4. Pharmacodynamics, pharmacokinetics. 5. In addition this course covers selected topics in pharmacology to be presented as seminars by the students. 		
Text Books	Manual of practical pharmacology		
References	<ul style="list-style-type: none"> - Lippincott's illustrated reviews; 4th edition; 2009. - Modern pharmacology with clinical applications 6th edition (2004) - Goths medical pharmacology (13th edition) 		
Grade Determination	1 st Exam = 25% 2 nd Exam = 25% Final Exam = 50%	Practical Course Grade Determination	Course Work = 50% (Reports, Term Papers, Quizes) Final Exam = 50%

Course Outline				
Week	Hours	Subjects	Chapters in Textbook	Notes
1	1 1 1	Introduction	Chapter 1	
2	1 1 1	Handling of animals	Chapter 1	
3	1 1 1	Dose-response relationship	Chapter 7	
4	1 1 1	Effect of agonist and antagonist on rabbit duodenum	Chapter 8&13	
5	1 1 1	Effects of autonomic drugs on rabbit eyes	Chapter 26	
6	1 1 1	Biological assay (effects of neuromuscular blocking agents)	Chapter 15	
7	1 1 1	Effect of smoking on the cardiovascular system	Chapter 19	
8	1 1 1	Testing analgesics	Chapter 25	
9	1 1 1	General anesthesia	Chapter 23	
10	1 1 1	Seminars in selected topics		
11	1 1 1	Seminars in selected topics		
12	1 1 1	Insulin hypoglycemic shock	Chapter 29	
13	1 1 1	Peptic ulcer	Chapter 5	
14	1 1 1	Anti-anxiety drugs	Chapter 8	



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

Course Instructor	MSc. Haneen Kalloush
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Office hours	Sun. (11-1) Mon. (12-1) Tues. (11-1) Wed. (11-1)