



كلية الصيدلة جامعة الزيتونة الأردنية
Faculty of Pharmacy
Al-Zaytoonah University of Jordan

" نحو تعليم صيدلاني متميز "
Toward Excellence in Pharmaceutical
Education

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" Tradition and Quality "

Detailed Course Description - Course Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-3.0E
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Faculty	Pharmacy	Department	Pharmacy
Course number	201432	Course title	Pharmacology Lab
Number of credit hours	1	Pre-requisite/co-requisite	Pathophysiology Lab

Pharmacology lab is an opportunity to student to learn to handle animal and to see the actual pharmacological effect on drug.

Course goals and learning outcomes	
Goal 1	Development of the students ability to do real experiments on animals
Learning outcomes	1.1 Understanding the principles of handling 1.2 Dealing with different species of animals
Goal 2	Enhancement students ability to design a pharmacological experiments
Learning outcomes	2.1 Dealing with different pharmacological instruments 2.2 Choosing the necessary animals , tools and drug to do qualitative and quantitative experiments 2.3 Performing pharmacological experiments using different pharmacological techniques
Goal 3	Increasing the opportunity of the students to see the effect of different dugs on biological system
Learning outcomes	3.1 Understanding the principles of action, clinical uses, drug-drug interactions, adverse effects of selected drugs. 3.2 Understanding the mechanism of action, pharmacodynamics and pharmacokinetics 3.3 Comparing the theoretical effects of the medications with the real life medicines
Goal 4	Enhancement students ability to perform a presentation
Learning outcomes	4.1 Enhancing the student's ability to do literature review about certain topics 4.2 development of the students ability to write and present seminars in selected topics.
Textbook	1.- Manual of practical pharmacology
Supplementary references	1. - Lippincott's illustrated reviews; 4th edition; 2009. 2.- Modern pharmacology with clinical applications 6th edition (2004) 3.- Goths medical pharmacology (13th edition)



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Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes
01	1 1 1	Introduction	Chapter 1	
02	1 1 1	Handling of animals	Chapter 1	
03	1 1 1	Dose-response relationship	Chapter 7	
04	1 1 1	Effect of agonist and antagonist on rabbit duodenum	Chapter 8&13	
05	1 1 1	Effects of autonomic drugs on rabbit eyes	Chapter 26	
06	1 1 1	Biological assay (effects of neuromuscular blocking agents)	Chapter 15	
07	1 1 1	Effect of smoking on the cardiovascular system	Chapter 19	
08	1 1 1	Testing analgesics	Chapter 25	
09	1 1 1	General anesthesia	Chapter 23	
10	1 1 1	Seminars in selected topics		

Theoretical course evaluation methods and weight	First exam 25% Second exam 25% Final exam 50%	Practical (clinical) course evaluation methods	Semester students' work = 50% (Reports, research, quizzes, etc.) Final exam = 50%
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Approved by head of department		Date of approval	
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Extra information (to be updated every semester by corresponding faculty member)

Name of teacher	Haneen Kalloush	Office Number	417
Phone number (extension)	274	Email	haneen.kalloush@zug.edu.jo
Office hours			