



الجامعة الزيتونة الأردنية
Faculty of Pharmacy
Al-Zaytoonah University of Jordan

" نحو تعليم صيدلاني متميز "
Toward Excellence in Pharmaceutical
Education

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



" 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	0201721	Course title	Advanced pharmacology
Number of credit hours	3	Pre-requisite/co-requisite	

Brief course description

This course is intended to discuss the most recent advances in pharmacology of the most important drugs that affect different organ systems with a special emphasis on the treatment of patients from the pharmaceutical point of view. Topics include drugs used for the treatment of Parkinson disease, Epilepsy, Depression, Heart failure, Schizophrenia, Alzheimer's disease, Asthma, Diabetes Type II, and Hypertension.

Course goals and learning outcomes	
Goal 1	Give knowledge and understanding of the most recent advances in pharmacology of main groups of drugs
Learning outcomes	1.1 Outlining groups and individual drugs. 1.2 Understanding the mechanisms of action, pharmacodynamics and pharmacokinetics of these drug. 1.3 Integration of drug information to determine actual and potential drug therapy problems.
Goal 2	Provide knowledge and understanding of the most recent advances in the treatment of common diseases emphasizing on maximizing benefit and minimizing risks of pharmacotherapy
Learning outcomes	2.1 Understanding the pathophysiology and treatment and treatment goals of common diseases. 2.2 Understanding, analyzing and presenting pharmacology data from literatures. 2.3 Utilization of knowledge to improve pharmaceutical care.
Textbook	1.- Lippincott's illustrated reviews – 6 th edition 2.- Pharmacotherapy handbook- Wells B.G. et al, 9 th edition 2.- Modern pharmacology with clinical applications – latest edition 3.- Latest research articles
Supplementary references	1.- Goodman and Gilman pharmacological basis of therapeutics – latest edition



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Course timeline				
Week	Number of hours	Course topics	Pages (textbook)	Notes Ref. No.
1	1 1 1	Course orientation. - Introductions to the course and overview of texts. Review of course assignments.		
2	1 1 1	Current management of Parkinson disease.	109-115 578-586	1 2
3	1 1 1	Alzheimer' disease and treatment: an update	115-116 511-517	1 2
4	1 1 1	Schizophrenia treatment. Critical review on the drugs and mechanisms of action of antipsychotics.	147-155 731-746	1 2
5	1 1 1	Pharmacological properties of antidepressant drugs	135-145	1
6	1 1 1	Pharmacotherapies for depression	712-730	2
7	1 1 1	Basic mechanisms of antiepileptic drugs and their pharmacokinetic/pharmacodynamics, interaction: an update.	157-170	1
8	1 1 1	Treatment of epilepsy	518-542	2
9	1 1 1	Mid. Exam		
10	1 1 1	Pharmacology of drugs used for treatment of heart failure	255-268	1
11	1 1 1	Pharmacotherapy of heart failure: update	75-86	2
12	1 1 1	The increasing challenge of discovering anti-asthmatic drugs.	821-834	2
13	1 1 1	Management of type 2 diabetes: new and future developments in treatment.	335-350 161-175	1 2
14	1	Hypertension treatment update.	225-253	1



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	1		87-101	2
15	1 1 1	Seminars: literature discussion		
16	1 1 1	Final examination		

Theoretical course evaluation methods and weight	Mid. Exam = 30% Seminars = 30% Final Exam = 40%	Practical (clinical) course evaluation methods	
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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	Dr. Luay Al-Essa	Office Number	221
Phone number (extension)	294	Email	luay.aleesa@zuj.edu.jo
Office hours	Sun. and Thur. 10-12 Mon. and Tues. 2-4 Wend. 9-11		