



" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department

OF02/0408-4.0E

Study Plan No.	2021/2022		University Specialization		Bachelor of Pharmacy		f Pharmacy	
Course No.	0201554		Course Name		Selected Topics in Pharmacology			
Credit Hours	•		Prerequisite *Co-requisite	- -		Pharmacology (3)		
Course Type	☐ Mandatory University Requirement	☐ University Elective Requirement	☐ Faculty Mandatory Requirement	□ Support course family requirem ents		Manda tory Requir ement	☑ Elective Require ment	
Teaching Style	□ Full Onli	ine Learning	☑ Blended	Learning		Traditio	nal Learning	
Teaching Model	€	nchronous: 1 ynchronous	☑ 1 Face to Face: 1 Asynchronous			□ 2 Tr	aditional	

Faculty Member and Study Divisions Information (to be filled in each semester by the subject instructor)

Name	Academic rank	Office No.	Phone No.		E-mail
Office Hours (Days/Time)	Sunday, Tuesday, Thursday ()		Monday, Wednesday ()		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
				Blended Learning	1 Face to Face: 1 Asynchronous

Brief Description

This course is designed to cover some elected topics in pharmacology. It covers drug interactions, therapeutic drug monitoring, Drugs during pregnancy and lactation, drugs used for osteoporosis, drugs used for obesity, drugs used for erectile dysfunction, immunomodulators, drugs used for biliary and pancreatic diseases, Drugs for inflammatory bowel diseases and Targeted therapy in cancer: tyrosine kinase inhibitors, monoclonal antibodies and cytokines.

Learning Resources

Course Book Information (Title, author, date of issue, publisher etc)	Goodman and Gilman's The Pharmacological Basis of Therapeutics, Laurence L. Brunton, McGraw-Hill Education / Medical; 12 th edition (2011)			
Resources (Books, databases, periodicals, software, applications, others)	 Lippincott Illustrated Reviews – Pharmacology; K. Whalen, C. Field, and R. Radhakrishnan; 8th Edition; 2023; Wolters Kluwer. Selected review articles from the literature and internet. 			
Supporting Websites	https://elearning.zuj.edu.jo/login/index.php			
The Physical Environment for Teaching	☑ Classroom	□ Labs	☑ Virtual Educational Platform	□ Others
Necessary Equipment and Software	 PC/laptop with headphones Microsoft Office. Moodle. 			
Supporting People with Special Needs	1.100.002			





" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department

QF02/0408-4.0E

For Technical Support

E-Learning & Open Educational Resources Center.

Email: <u>elearning@zuj.edu.jo</u>; Phone: +962 6 429 1511 ext. 425/362.

Course learning outcomes (K= Knowledge, S= Skills, C= Competencies)

No.	Course Learning Outcomes	The Associated Program Learning Output Code				
	Knowledge					
The s	student should be able to:					
K1	Recognize different aspects of drug interactions	MK3				
K2	Recognize drug alternatives and dose modifications for special population	MK3				
К3	Recall the drugs that require therapeutic monitoring for specific parameters.	MK3				
K4	Outline recent advances in the treatment of selected disease conditions.	MK3				
	Skills					
The s	The student should be able to:					
S1	Manage common drug-related medical problems.	MS2				
S2	Select appropriate evidence-based treatments for the disease conditions covered in this course.	MS2				
	Competencies					
The	The student should be able to:					
C1	Manage drug-related problems resulting from drug interactions.	MC3				

Mechanisms for Direct Evaluation of Learning Outcomes

Type of Assessment / Learning Style	Fully Electronic Learning	Blended Learning	Traditional Learning (Theory Learning)	Traditional Learning (Practical Learning)
Midterm Exam	30%	30%	30%	0%
Participation / Practical Applications	0%	0%	30%	60%
Asynchronous Interactive Activities	30%	30%	0%	0%
Final Exam	40%	40%	40%	40%

Note 1: Asynchronous interactive activities are activities, tasks, projects, assignments, research, studies, projects, and work within student groups ... etc, which the student carries out on his own, through the virtual platform without a direct encounter with the subject teacher.

Note 2: According to the Regulations of granting Master's degree at Al-Zaytoonah University of Jordan, 40% of final evaluation goes for the final exam, and 60% for the semester work (examinations, reports, research or any scientific activity assigned to the student).

Schedule of Simultaneous / Face-to-Face Encounters and their Topics

Schedul	Schedule of Simultaneous / 1 acc-to-1 acc Encounters and then Topics					
Week	Subject	Learning Style*	Reference **			
1	Drug interactions	lecture	77-78			
2	Drug interactions	lecture	77-78			





" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/
Pharmacy Department

QF02/0408-4.0E

3	Therapeutic drug monitoring	lecture	37-38
4	Special Populations: Pregnancy	lecture	1846 and literatures
5	Special Populations: Pregnancy	lecture	1846 and literatures
6	Special Populations: Lactation	lecture	1847 and literatures
7	Drugs used in: Osteoporosis	lecture	1290 – 1301
8	Drugs used in: Obesity Phosphodiesterase inhibitors and Erectile dysfunction	lecture	891 1059 - 1060
9	Immunomodulators Midterm Exam	lecture	1005-1030
10	Immunomodulators	lecture	1005-1030
11	Immunomodulators	lecture	1005-1030
12	Drugs used for biliary and pancreatic diseases	lecture	1323 - 1350
13	Drugs for inflammatory bowel diseases	lecture	1351-1360
14	Targeted therapy in cancer: tyrosine kinase inhibitors, monoclonal antibodies and cytokines	lecture	1732-1754
15	Targeted therapy in cancer: tyrosine kinase inhibitors, monoclonal antibodies and cytokines	lecture	1732-1754
16	Final Exam	1 1 1	

^{*} Learning styles: Lecture, flipped learning, learning through projects, learning through problem solving, participatory learning ... etc.

Schedule of Asynchronous Interactive Activities (in the case of e-learning and blended learning)

Schedule of Asynchronous Interactive Activities (in the case of e-learning and blended learning)				
Week	Task / Activity	Reference	Expected Results	
1				
2	Assignment 1:	Internet	Tutorial	
	Drug interaction	memet	Tutoriai	
3	Assignment 2:	internet	Written Report	
3	TDM	internet	written Report	
	Quiz1:		Quiz1	
4	(Includes lectures for the 1 st , 2 nd , & 3 rd		Quizi	
	week)			
5	Assignment 3:	intornat	Written Report	
3	Drugs for lactation	internet		
6	Assignment 4:	Internet	Written Report	
O	Osteoporosis	Internet	_	
7	Assignment 5:	Intomat	Written Report	
/	Obesity	Internet	_	
8	Assignment 6:	Internet	Case study	

^{**} Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.





" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/
Pharmacy Department

QF02/0408-4.0E

	Erectile dysfunction		
	Quiz 2: (Includes lectures for the 4 th , 5 th , 6 th ,		Quiz 2
9	&7 th week) Midterm Exam		Midterm Exam
10	Assignment 7: Immunosuppressants	Internet	Written Report
11	Assignment 8: Tyrosine kinase inhibitors	Internet	Tutorial
12	Monoclonal antibodies in disease treatment		Tutorial
13	Cytokines in disease treatment		Tutorial
14	Lectures review		
15	Lectures review		
16	Final Exam		Final Exam