



" 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		
Course No.	0201554		Course Name		Selected Topics in Pharmacology		
Credit Hours	3		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 Online Learning		☑ Blended	Learning		Traditio	nal Learning
Teaching Model	☐ 1 Synchronous: 1 Asynchronous			o Face: 1 hronous		□ 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.	F	C-mail
Office Hours (Days/Time)	Sunday, Tuesda	y, Thursday ()	Monday, Wednesday ()		0
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)	1. Goodman and Gilman's The Pharmacological Basis of Therapeutics, Laurence L. Brunton, McGraw-Hill Education / Medical; 12th edition.			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	<ol> <li>Lippincott Illustrated Reviews – Pharmacology; K. Whalen, C. Field, and R. Radhakrishnan; 7<sup>th</sup> Edition; 2019; Wolters Kluwer</li> <li>Selected review articles from the literature and internet.</li> </ol>			
<b>Supporting Websites</b>	https://elearning.zuj.edu.jo/login/index.php			
The Physical Environment for Teaching	☑ Classroom	□ Labs	☑ Virtual Educational Platform	□ Others
Necessary Equipment and Software	<ul><li>PC/laptop with headphones</li><li>Microsoft Office.</li></ul>			





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	- zoom - Moodle.
Supporting People with Special Needs	
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			
110.	Course Learning Outcomes	Learning Output Code			
	Knowledge				
The s	tudent should be able to:				
K1	Recognizing different aspects of drug interactions	MK3			
K2	Recognizing drug's requirement and dose modifications for special	MK3			
K2	population				
K3	Recall the drugs required therapeutic monitoring.	MK3			
K4	Outlines advances in treatment of some disease states	MK3			
	Skills				
The s	student should be able to:				
S1	Solve common medical problems related to the use of drugs	MS2			
63	Identify the evidence-based treatment of the covered disease	MS2			
S2	conditions				
	Competencies				
The s	The student should be able to:				
<b>C</b> 1	Identify drug interactions and how to deal with them	MC1			
C2	Engaged successfully in pharmacy care for the topics covered	MC1			
	Develop his/her professional and personal performance by				
<b>C3</b>	continuously following-up lectures, submitting tasks on time, and	MC3			
	staying up to date with the latest drug information in the topics	MCS			
	covered.				

**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%	20%	50%
Asynchronous Interactive Activities	20%	20%	0%	0%
Final Exam	50%	50%	50%	50%

**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.





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**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

Week	Subject	Learning	Reference **
1	•	Style*	77.70
1	Drug interactions	lecture	77-78
2	Drug interactions	lecture	77-78
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	<b>Drugs used in:</b> 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		

<sup>\*</sup> 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)

Week	Task / Activity	Reference	<b>Expected Results</b>
1			
2	Assignment 1: Drug interaction	Internet	Tutorial
3	Assignment 2: TDM	internet	Written Report
4	Quiz1: (Includes lectures for the 1 <sup>st</sup> , 2 <sup>nd</sup> , & 3 <sup>rd</sup>		Quiz1

<sup>\*\*</sup> Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.





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	week)		
5	Assignment 3:	internet	Written Report
3	Drugs for lactation	memet	
6	Assignment 4:	Internet	Written Report
U	Osteoporosis	memet	
7	Assignment 5:	Internet	Written Report
,	Obesity	memet	
	Assignment 6:	Internet	Case study
	Erectile dysfunction		
8			
O	Quiz 2:		
	(Includes lectures for the 4 <sup>th</sup> , 5 <sup>th</sup> , 6 <sup>th</sup> ,		Quiz 2
	&7 <sup>th</sup> week)		
9	Midterm Exam		Midterm Exam
10	Assignment 7:	Internet	Written Report
10	Immunosuppressants	memet	written report
11	Assignment 8:		Tutorial
11	Tyrosine kinase inhibitors	Internet	
12	Monoclonal antibodies in disease		Tutorial
12	treatment		
13	Cytokines in disease treatment		Tutorial
14	Lectures review		
15	Lectures review		
16	Final Exam		Final Exam