



" عراقة وجودة" "Tradition and Quality"

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

QF02/0408-4, E

Study Plan No.	2021/2022		University Specialization		Bachelor of Pharmacy		
Course No.	0201381		Course Name		Pharmacology (2)		
Credit Hours	3		Prerequisite *Co-requisite		Pharmacology (1)		
Course Type	☐ Mandatory University Requirement	☐ University Elective Requirement	☐ Faculty Mandatory Requirement	□ Support course family requirem ents	Ø	Manda tory Requir ement	□ Elective Require ment
Teaching Style	□ Full Onl	ine Learning	☑ Blended	Learning		Traditio	nal Learning
Teaching Model	☐ 1 Synchronous: 1 Asynchronous			to Face: 1 hronous	☐ 2 Traditional		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 discuss the basic and clinical pharmacology of drugs for hyperlipidemia, anticoagulant and antiplatelet agents, and drugs affecting the central nervous system the endocrine system. It will cover the pharmacodynamics, pharmacokinetics, and the clinical uses of those drugs.

Learning Resources

Course Book Information	1. Lippincott Illustrated Reviews – Pharmacology; K. Whalen, C. Field,			
(Title, author, date of issue,	and R. Radhakrishnan; 7th Edition; 2019; Wolters Kluwer			
publisher etc)	una Itt Itaanun	Tisiman, rin Banio	ii, 2019, Wolters III	G 11 G1
Supportive Learning	- Basic and Clinical Pharmacology, 15th Edition			
Resources	by Bertram Katzung and Anthony Trevor, McGraw-Hill Education.			
(Books, databases,	by Bottam Raczang and Interiory Trevor, Woordw 1 iii Eddoardi.			
periodicals, software,				
applications, others)				
Supporting Websites	https://elearning.zuj.ed	du.jo/login/index.php		
The Physical Environment	☑ Classroom	□ Labs	☑ Virtual Educational	\Box Others
for Teaching			Platform	
	- PC/laptop with	headphones and c	amera.	
Necessary Equipment and	- Microsoft Office.			
Software	- Zoom.			
	- Moodle.			
Supporting People with				
Special Needs				





" عراقة وجودة" "Tradition and Quality"

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department QF02/0408-4, E

For Technical Support

E-Learning & Open Educational Resources Center.
Email: elearning@zuj.edu.jo; 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	The student should be able to:					
K1	Identify the mechanism of action of drugs for hyperlipidemia, anticoagulant and antiplatelet agents, and drugs affecting the central nervous system and endocrine system.	MK3				
K2	Recognize the adverse reactions of drugs covered in this course.	MK3				
К3	Discuss the absorption, distribution, metabolism, and excretion (ADME) of drugs covered in this course.	MK3				
K4	Outline the clinical uses of drugs covered in this course.	MK3				
	Skills					
The s	The student should be able to:					
S1	Relate the pharmacodynamics of drugs covered in this course to the clinical uses.	MS2				
S2	Predict drug-drug interactions based on the pharmacodynamics and pharmacokinetics of drugs covered in this course.	MS2				
	Competencies					
The s	The student should be able to:					
C1	Develop his/her professional and personal performance by continuously following-up lectures, submitting tasks on time, and staying up to date with the latest drug information.	МС3				

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.

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).





" عراقة وجودة" "Tradition and Quality"

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

QF02/0408-4, E

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

Week	Subject	Learning Style*	Reference ** (Course book pages)
1	Drugs for Hyperlipidemia	Lecture	287-300
2	Anticoagulant and Antiplatelet agents	Lecture	268-286
3	Drugs for neurodegenerative diseases: Parkinson disease	Lecture	105-111
4	Drugs for neurodegenerative diseases: Alzheimer disease	Lecture	111-113
5	Anxiolytic and hypnotic drugs	Lecture	116-125
6	Anesthetics	Lecture	161-177
7	Antidepressants	Lecture	128-136
8	Antipsychotic drugs	Lecture	139-145
9	Drugs for Epilepsy Midterm Exam	Lecture	148-158
10	Opioids	Lecture	180-191
11	Hypothalamic and pituitary hormones	Lecture	301-306
12	Hypothalamic and pituitary hormones	Lecture	301-306
13	Adrenal hormones	Lecture	340-346
14	Drugs for diabetes mellitus	Lecture	311-317
15	Drugs for diabetes mellitus	Lecture	317-323
16	Final Exam		

^{*} 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	Expected Results
1	Watch a recorded lecture on dyslipidemia	Video on the E-learning platform	Answer questions embedded in the video
2	Watch a recorded lecture on blood coagulation	Video on the E-learning platform	Answer questions embedded in the video
3	Assigning groups and topics for the multimedia presentation	-	Students will be divided into groups and each group will work on a topic for the presentation
4	Assignment (1) – drugs still in the discovery pipeline of Alzheimer's disease	Assignment on the E- Learning platform	Assignment marked out of 5
5	Watch a recorded lecture on anxiolytic sedative, hypnotic drugs	Video on the E-learning platform	Answer questions embedded in the video
6	Online meeting for student groups to work on the presentation	-	A group representative will report progress to the instructor
7	Watch a recorded lecture on	Video on the E-learning	Answer questions

^{**} 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, E

	antidepressant drugs	platform	embedded in the video
8	Online meeting for student groups to work on the presentation	-	A group representative will report progress to the instructor
9	Midterm Exam	-	-
10	Watch a recorded lecture Assignment (2) - Epilepsy	Video and assignment on the E-learning platform	Assignment marked out of 5
11	Online meeting for student groups to work on the presentation	-	A group representative will report progress to the instructor
12	Online meeting for student groups to work on the presentation	-	A group representative will report progress to the instructor
13	Group presentations	-	Presentations marked out of 20
14	Group presentations	-	Presentations marked out of 20
15	Group presentations	-	Presentations marked out of 20
16	Final Exam		