



" عراقة وجودة" "Tradition and Quality"

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

QF02/0408-4, E

Study Dlan										
Study Plan No.	2021/2022		U	University Specialization			Bachelor of Pharmacy			
Course No.		0201	0201381 Course Name			Pharmacology (2)				
Credit Hours	3		Prerequisite *Co-requisite				Pharmacology (1)		logy (1)	
Course Type	\mathbf{U}_{1}	andatory niversity equireme nt	☐ Univers Elective Require ent	ve e	☐ Faculty Mandator y Requirem ent	☐ Suppo cours family require ents	e y	Mandato Requiren		□ Elective Requirem ent
Teaching Style			line Learning		d Learning		☐ Traditional Learning			
Teaching Model			nchronous: 1 nchronous		✓ 1 Face to Face: 1 Asynchronous			☐ 2 Traditional		
Faculty Mei	mber a	and Stud	y Division	s Info	rmation (to b	e filled in ea	ch seme	ester by the s	subjec	et instructor)
Name			nic rank	0:	ffice No.	Phone No.		E-mail		l
Office Hours (Days/Time)		Sun	day, Tuesda	y, Thur	rsday ()		Mon	day, Wedn	esday	0
Division number		Time			Place	Number of Students		aching Style	Ap	proved Model
								ended arning		Face to Face: 1 Synchronous
Brief Descri	Brief Description									
										perlipidemia,
system. It al	anticoagulant and antiplate system. It also involves the				-			•		
covered in th	iis cou	rse.								
Learning R	esourc	ees								
Course Book Information (Title, author, date of issue, publisher etc)			Lippincott Illustrated Reviews – Pharmacology; K. Whalen, S. Lerchenfeldt, and C. Giordano; 8th Edition; 2023; Wolters Kluwer							
Resources (Books, databases, periodicals, software, applications, others)			Basic & Clinical Pharmacology; B. G. Katzung; 14th Edition; 2018; McGraw-Hill Education							
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The Physical Environment for Teaching		ment	☑ Classroom □ Labs □		Edu	irtual cational atform		□ Others		
Necessary Equ Software	iipment	t and	Moodle							
Supporting People with Special Needs		th	-							

E-Learning & Open Educational Resources Center.

For Technical Support





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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	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 along with their modulatory effect on the pathophysiology of relevant diseases.	MK3				
K2	Discuss the absorption, distribution, metabolism, and excretion (ADME) of drugs covered in this course.	MK3				
K3	Recognize the adverse reactions 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 and pharmacokinetics of drugs covered in this course to the clinical uses.	MS2				
S2	Predict 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	Analyze patient's health condition to determine possible therapeutic regimen and appropriate medication counseling.	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





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			(Course book pages)
1	Anticoagulant and Antiplatelet agents	Lecture	193-214
2	Drugs for Hyperlipidemia	Lecture	215-230
3	Drugs for neurodegenerative diseases: Parkinson disease	Lecture	231-240
4	Drugs for neurodegenerative diseases: Alzheimer disease	Lecture	240-242
5	Anxiolytic and hypnotic drugs	Lecture	248-262
6	Anesthetics	Lecture	302-322
7	Antidepressants	Lecture	263-270
8	Antidepressants	Lecture	271-275
9	Antipsychotic drugs	Lecture	276-286
10	Drugs for Epilepsy	Lecture	287-301
11	Drugs for Epilepsy Midterm Exam	Lecture	287-301
12	Opioids		323-340
13	Adrenal hormones	Lecture	401-410
14	Drugs for diabetes mellitus	Lecture	367-374
15	Drugs for diabetes mellitus	Lecture	375-381
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	Video on the E-learning	Answer questions
1	dyslipidemia	platform	embedded in the video
2	Watch a recorded lecture on blood	Video on the E-learning	Answer questions
	coagulation	platform	embedded in the video
			Students will be divided
	Assigning groups and topics for the		into groups and each
3	multimedia presentation	_	group will work on a
			topic for the
			presentation
	Assignment (1) – drugs still in the	Assignment on the E-	Assignment marked out
4	discovery pipeline of Alzheimer's disease	Learning platform	of 5
5	Watch a recorded lecture on anxiolytic	Video on the E-learning	Answer questions
3	sedative, hypnotic drugs	platform	embedded in the video
	Online meeting for student groups to		A group representative
6	work on the presentation	-	will report progress to
	work on the presentation		the instructor
7	Watch a recorded lecture on	Video on the E-learning	Answer questions
/	antidepressant drugs	platform	embedded in the video
8	Online meeting for student groups to	-	A group representative

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





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	work on the presentation		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		