

Course Plan for Bachelor Program - Study Plan Development and Updating Procedures/ Pharmacy Department	QF02/0408-4.0E
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Study Plan No.	2021/2022	University Specialization	Bachelor of Pharmacy
Course No.	0201384	Course Name	Pharmacy Practice Lab (1)
Credit Hours	1	Prerequisite *Co-requisite	Pharmacology (1) + *Over the Counter Medicines
Course Type	☐ Mandatory University Requirement ☐ University Elective Requirement	☐ Faculty Mandatory Requirement ☐ Support course family requirements	☒ Mandatory Requirement ☐ Elective Requirement
Teaching Style	☐ Full Online Learning	☐ Blended Learning	☒ Traditional Learning
Teaching Model	☐ 1 Synchronous: 1 Asynchronous	☐ 1 Face to Face: 1 Asynchronous	☒ 1 Traditional

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

(to be signed at 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
				Traditional Learning	1 Traditional

Brief Description

This course offers hands-on training within a simulated pharmacy setting, focusing on the principles of self-care and the safe use of over the counter (OTC) medications. Students will learn how to assess symptoms, manage minor health conditions, make appropriate clinical decisions, and identify cases that require referral to healthcare providers. In addition, the course emphasizes the development of effective patient health education and counseling skills.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	1. Handbook of Nonprescription Drugs, Daniel Krinsky, et al., 2024, 20th Edition, American Pharmacists Association.			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	2. Basic and Clinical Pharmacology, Todd W. Vanderah, 2023, 16th Edition, McGraw-Hill Education. 3. Lippincott Illustrated Reviews: Pharmacology, Karen Whalen, 2022, 8th Edition, Lippincott Williams & Wilkins.			
Supporting Websites	www.Uptodate.com			
The Physical Environment for Teaching	☐ Classroom	☒ Labs	☒ Virtual Educational Platform	☐ Others
Necessary Equipment and Software	- Moodle - Smart Pharmacy/ Digital Smart Pharmacy			
Supporting People with Special Needs				
For Technical Support	E-Learning & Open Educational Resources Center. Email: elarning@zu.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 student should be able to:		
K1	Differentiate between prescription and over the counter (OTC) medications based on usage guidelines, signs and symptoms of the patients.	MK3
K2	Identify criteria for determining when self-care is appropriate versus when referral to a physician is necessary based on signs and symptoms.	MK3
K3	Recognize contraindications, drug-drug interactions, and side effects of all OTC therapies.	MK3
Skills		
The student should be able to:		
S1	Calculate patient-specific OTC doses using weight- and age-based formulas.	MS1
S2	Apply assessment protocols and software tools to select and dispense appropriate OTC therapy.	MS2
S3	Interpret drug leaflets and prescriptions to extract indications, dosage, and warnings.	MS1
Competencies		
The student should be able to:		
C1	Counsel patients on appropriate dosage and safe use of medications.	MC1

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

Week	Subject	Learning Style*	Reference **
1	**Check-in** : Lab rules, safety, orientation	Lecture	Lab manual
2	Prescription vs. OTC; community-pharmacy workflow		Chapter 1 Krinsky, et al
3	Drug prescription.	Lecture	Chapter 1 Krinsky, et al
4	Reading & interpreting drug information leaflets	Lecture	Chapter 1 Krinsky, et al
5	Weight -based dose calculation	Lecture	Chapter 1 Krinsky, et al
6	Dispensing process & medication-error prevention	Lecture	Chapter 1 Krinsky, et al
7	Smart Pharmacy & Digital Smart Pharmacy software	Lecture	Computer software's
8	Cough: pathophysiology & OTC treatments	Lecture	Chapter 12 Krinsky, et al
9	External analgesics: topical & transdermal products	Lecture	Chapter 20 Krinsky, et al
10	Internal analgesics: NSAIDs & acetaminophen dosing & patient counseling	Lecture	Chapter 4-6 Krinsky, et al
11	Heartburn: risk factors & OTC management	Lecture	Chapter 13 Krinsky, et al
12	Nausea & vomiting: causes & non-prescription interventions	Lecture	Chapter 19 Krinsky, et al
13	Constipation & diarrhea: pharmacologic vs. non-pharmacologic approaches	Lecture	Chapter 15 & 16 Krinsky, et al
14	Role-play: patient-counseling scenarios	Problem - based learning	-
15	OSCE Exam	Problem - based learning	-
16	Final Exam	-	-

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

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

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

Week	Task / Activity	Reference	Expected Results
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