

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.	0201537	Course Name	Therapeutics (3)
Credit Hours	3	Prerequisite *Co-requisite	Therapeutics (2)
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	☐ 2 Traditional

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

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 the last of a three-part series. Therapeutics (3) will enable a student to continue to apply knowledge and develop skills needed by a pharmacist to provide patient care, using a systematic patient-care process to define and achieve the goals of optimizing safe, effective pharmacotherapy. Therapeutics (3) serve the needs of all future pharmacists by focusing on core chronic disease states. This course briefly reviews the pharmacotherapy of various diseases with primary focus on applying therapeutic knowledge to care for patients with such disorders as these disorders include Gastrointestinal disorders, Electrolytes imbalance, Kidney disorders and Blood disorders.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	1. Pharmacotherapy: A Pathophysiologic Approach, by Joseph DiPiro, 11 th edition, 2020. 2. Applied therapeutics: the clinical use of drugs by Koda-Kimble, 10 th edition 3. Clinical pharmacy and Therapeutics, by Roger Walker and Clive Edwards, 3 rd edition.
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	1. Clinical Pharmacology by P.N. Bennett and M.J. Brown, 11 th edition. 2. Disease management guidelines 3. Up to date (https://www.uptodate.com)
Supporting Websites	
The Physical Environment for Teaching	☒ Classroom ☐ Labs ☒ Virtual Educational Platform ☐ Others
Necessary Equipment and Software	Moodle
Supporting People with Special	

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Needs	
For Technical Support	E-Learning & Open Educational Resources Center. Email: ellearning@zuji.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	Identify patients' individual factors that may affect treatment.	MK3
K2	Recognize conventional pharmacological approaches to the therapeutic management and/or prophylaxis of the diseases covered in this course.	MK3
Skills		
The student should be able to:		
S1	Determine the most appropriate therapy for patients by integrating patient-specific factors, disease pathophysiology, and drug characteristics to maximize benefit and minimize risk.	MS1
S2	Interpret evidence from disease management guidelines.	MS1
Competencies		
The student should be able to:		
C1	Integrate pharmacology, pharmacokinetics, and therapeutic principles to design an optimal therapeutic plan for a specific patient with specific conditions.	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, 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	Gastroesophageal reflux disease	Lecture	Chapter 18
2	Peptic ulcer	Lecture	Chapter 19
3	Atrial fibrillation	Lecture	Chapter 10
4	Atrial fibrillation	Lecture	Chapter 10
5	Atrial flutter	Lecture	Chapter 10
6	Fluids and electrolytes	Lecture	Chapter 28
7	Fluids and electrolytes	Lecture	Chapter 28
8	Acid-Base disorder	Lecture	Chapter 29
9	Acute kidney injury Midterm Exam	Lecture	Chapter 26
10	Chronic kidney disease	Lecture	Chapter 27
11	Chronic kidney disease	Lecture	Chapter 27
12	Gout	Lecture	Chapter 60
13	Gout	Lecture	Chapter 60
14	Venous thromboembolism	Lecture	Chapter 11
15	Venous thromboembolism	Lecture	Chapter 11
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
1	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
2	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
3	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
4	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
5	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
6	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
7	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
8	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
9	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
10	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
11	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment

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	week topic	guidelines	
12	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
13	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
14	Assignment /case study to the related week topic	Disease management guidelines	Answer Assignment
15	-	-	-
16	-	-	-