

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 Nursing
Course No.	0201262	Course Name	Pharmacology for Nurses
Credit Hours	3	Prerequisite *Co-requisite	Physiology for Nurses
Course Type	<input type="checkbox"/> Mandatory University Requirement <input type="checkbox"/> University Elective Requirement	<input type="checkbox"/> Faculty Mandatory Requirement <input checked="" type="checkbox"/> Support course family requirements	<input type="checkbox"/> Mandatory Requirement <input type="checkbox"/> Elective Requirement
Teaching Style	<input type="checkbox"/> Full Online Learning	<input checked="" type="checkbox"/> Blended Learning	<input type="checkbox"/> Traditional Learning
Teaching Model	<input type="checkbox"/> 1 Synchronous: 1 Asynchronous	<input checked="" type="checkbox"/> 1 Face to Face: 1 Asynchronous	<input type="checkbox"/> 2 Traditional

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

Faculty Member and Study Division 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

The course starts with an introduction about pharmacology and its principles: Pharmacodynamics (PD) and Pharmacokinetics (PK). It includes general information about the PD, PK, clinical uses, adverse effects, and adverse interactions of several drug classes that nurses are commonly exposed to in their clinical practice. The drug classes are group of peripheral and central nervous system drugs, drugs that affect heart, blood vessels, and blood, and chemotherapy of infectious diseases. The course also covers major nursing implications and patient education information, related to drug classes covered, a nursing student must understand and acquire for his/her clinical practice.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	Lehne's Pharmacology for Nursing Care; J. Burchum and L. Rosenthal; 10 th Edition; 2019; Elsevier			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	Lippincott Illustrated Reviews – Pharmacology; K. Whalen, C. Field, and R. Radhakrishnan; 7 th Edition; 2019; Wolters Kluwer			
Supporting Websites	-			
The Physical Environment for Teaching	<input checked="" type="checkbox"/> Classroom	<input type="checkbox"/> Labs	<input checked="" type="checkbox"/> Virtual Educational Platform	<input type="checkbox"/> Others
Necessary Equipment and Software	Moodle			

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Supporting People with Special Needs	-
For Technical Support	E-Learning & Open Educational Resources Center Email: ellearning@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 student should be able to:		
K1	Identify the pharmacodynamics, pharmacokinetics, and clinical uses of several drug classes nurses are exposed to within their practice.	MK1
K3	Recognize the adverse reactions and interactions of drugs covered in this course.	MK1
K4	Discuss nursing implications (pre-administration assessment, administration, implementation, ongoing evaluation, and interventions) of drugs covered in this course.	MK3
Skills		
The student should be able to:		
S1	Predict drug-drug interactions based on the knowledge obtained for drugs covered in this course.	MS1
S2	Apply nursing implications (pre-administration assessment, administration, implementation, ongoing evaluation, and interventions) properly based on the knowledge obtained for drugs covered in this course.	MS1
S3	Relate knowledge obtained about drugs covered in this course when delivering patient education information.	MS3
Competencies		
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 nursing implications.	MC4

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%

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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 ** (Pages in Course Book)
1	Pharmacokinetics Pharmacodynamics	Lecture	Chapter 4 24-43 Chapter 5 44-54
2	Physiology of the Peripheral Nervous System	Lecture	Chapter 13 105-117
3	<u>Cholinergic Agonists and Antagonists</u> Muscarinic Agonists and Antagonists Cholinesterase Inhibitors and Their Use in Myasthenia Gravis Drugs That Block Nicotinic Cholinergic Transmission: Neuromuscular Blocking Agents	Lecture	Chapter 14 118-130 Chapter 15 131-138 Chapter 16 139-146
4	<u>Cholinergic Agonists and Antagonists</u> Muscarinic Agonists and Antagonists Cholinesterase Inhibitors and Their Use in Myasthenia Gravis Drugs That Block Nicotinic Cholinergic Transmission: Neuromuscular Blocking Agents	Lecture	Chapter 14 118-130 Chapter 15 131-138 Chapter 16 139-146
5	Adrenergic Agonists Adrenergic Antagonists	Lecture	Chapter 17 147-158 Chapter 18 159-173
6	Drugs for Hypertension	Lecture	Chapter 47 510-528
7	Drugs for Angina Pectoris	Lecture	Chapter 51 591-603

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8	Anticoagulant, Antiplatelet, and Thrombolytic Drugs	Lecture	Chapter 52 604-632
9	Opioid Analgesics, Opioid Antagonists, and Nonopioid Centrally Acting Analgesics Midterm Exam	Lecture	Chapter 28 274-299
10	Local Anesthetics	Lecture	Chapter 26 259-264
11	General Anesthetics	Lecture	Chapter 27 265-273
12	Drugs That Weaken the Bacterial Cell Wall I: Penicillins	Lecture	Chapter 84 1029-1038
13	Drugs That Weaken the Bacterial Cell Wall II: Cephalosporins, Carbapenems, Vancomycin, Telavancin, Aztreonam, and Fosfomycin	Lecture	Chapter 85 1039-1049
14	Bacteriostatic Inhibitors of Protein Synthesis: Tetracyclines, Macrolides, and Others	Lecture	Chapter 86 1050-1060
15	Aminoglycosides: Bactericidal Inhibitors of Protein Synthesis	Lecture	Chapter 87 1061-1067
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	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
2	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
3	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
4	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
5	Self-study	A selected topic	Assignment
6	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
7	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video /

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			Assignment
8	Self-study	A selected topic	Assignment
9	Midterm Exam	-	-
10	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
11	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
12	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
13	Self-study	A selected topic	Assignment
14	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
15	Watch a recorded lecture	Video on the E-learning platform	Answer questions embedded in the video / Assignment
16	Final Exam	-	-