

جامعة الزيتونــة الأردنيـة Al-Zaytoonah University of Jordan كلية الصيدلة Faculty of Pharmacy



" عراقة وجودة" "Tradition and Quality"

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

QF02/0408-4.0E

Study Plan No.	2021/2022		University Specialization		Bachelor of Pharmacy	
Course No.	0201433		Course Name		Pharmacology 3	
Credit Hours	3		Prerequisite *Co-requisite		Pharmaceutical Microbiology + Pharmacology (2)	
Course Type	☐ Mandator y University Requirem ent	☐ Universit y Elective Require ment	☐ Faculty Mandatory Requireme nt	☐ Support course family require ments	☑ Mandatory Requirement	☐ Electi ve Requi remen t
Teaching Style	□ Full Onl	ine Learning	□ Blended	l Learning	☑ Traditional	Learning
Teaching Model		chronous: 1 chronous	☐ 1 Face to Face: 1 Asynchronous		☑ 2 Traditional	

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
				Traditional	2
				Learning	Traditional

Brief Description

This course is designed to discuss the basic and clinical pharmacology of chemotherapeutic drugs (antimicrobial and anticancer drugs) and the pituitary, thyroid, and gonadal hormones and drugs. It also involves the pharmacodynamics, pharmacokinetics, and the clinical uses of the drugs covered in this course.

Learning Resources

Learning Resources				
Course Book Information (Title, author, date of issue, publisher etc)	Lippincott Illustrated Reviews – Pharmacology; K. Whalen, S. Lerchenfeldt, and C. Giordano; 8 th Edition; 2023; Wolters Kluwer			
Supportive Learning				
Resources				
(Books, databases,	Basic & Clinical Pharmacology; B. G. Katzung; 14th Edition; 2018; McGraw-Hill Education			
periodicals, software,				
applications, others)				
Supporting Websites	https://www.uptodate.com/login			
The Physical	☑ Classroom	□ Labs	☑ Virtual	☑ Others
Environment for			Educational	
Teaching			Platform	
Necessary Equipment	Moodle			
and Software	Module			
Supporting People with				
Special Needs	-			
For Technical Support	E-Learning & Open Educational Resources Center Email: elearning@zuj.edu.jo; Phone: +962 6 429 1511 ext. 425/362			



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Course learning outcomes (K= Knowledge, S= Skills, C= Competencies)

No.	Course Learning Outcomes	The Associated Program Learning Output Code			
The s	Knowledge The student should be able to:				
K1	Identify the mechanism of action of chemotherapeutic drugs (antimicrobial and anticancer drugs) and drugs for pituitary, thyroid, and gonads abnormalities along with their modulatory effect on the pathophysiology of relevant diseases.	МК3			
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			
K5	Outline the principles of chemotherapy.	MK3			
K6 Identify the mechanisms of antimicrobial resistance.		MK3			
	Skills				
The s	The student should be able to:				
S1	Relate the pharmacodynamics and pharmacokinetics of drugs covered in this course to their clinical uses.	MS2			
S2	Predict drug interactions based on the pharmacodynamics and pharmacokinetics of drugs covered in this course.	MS2			
The	Competencies The student should be able to:				
C1	Analyze patient's health condition to determine possible therapeutic regimen and appropriate medication counseling.	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%	30%	60%
Asynchronous Interactive Activities	30%	30%	0%	0%
Final Exam	60%	60%	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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Week	Subject	Learning Style*	Reference ** (Pages in Course Book)
1	Principles of Antimicrobial Therapy	Lecture	Chapter 28 421-436
2	Cell Wall Inhibitors	Lecture	Chapter 29 437-454
3	Cell Wall Inhibitors	Lecture	Chapter 29 437-454
4	Protein Synthesis Inhibitors	Lecture	Chapter 30 455-471
5	Protein Synthesis Inhibitors	Lecture	Chapter 30 455-471
6	Quinolones, Folic Acid Antagonists, and Urinary Tract Antiseptics	Lecture	Chapter 31 472-485
7	Antimycobacterial Drugs Midterm Exam	Lecture	Chapter 32 486-495
8	Antifungal Drugs	Lecture	Chapter 33 496-509
9	Antiprotozoal Drugs	Lecture	Chapter 35 529-544
10	Anthelmintic Drugs	Lecture	Chapter 36 545-552
11	Antiviral Drugs	Lecture	Chapter 34 510-528
12	Anticancer Drugs	Lecture	Chapter 37 553-582
13	Anticancer Drugs	Lecture	Chapter 37 553-582
14	Pituitary and Thyroid	Lecture	Chapter 23 355-366
15	Estrogens, Progestogens, and Androgens	Lecture	Chapter 25 385-400
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
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^{**} Reference: Pages in a book, database, recorded lecture, content on the e-learning platform, video, website ... etc.