

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.	0201339		Course Name		Drug Information and Health Informatics	
Credit Hours	1		Prerequisite *Co-requisite		Pathophysiology + *Pharmacology (1)	
Course Type	☐ Mandatory University Requireme nt	☐ University Elective Requirement	☐ Faculty Mandatory Requiremen t	☐ Support course family require ments	☑ Mandat ory Requir ement	☐ Electi ve Requi remen t
Teaching Style	☐ Full Online Learning		☐ Blended Learning			aditional earning
Teaching Model	☐ 1 Synchronous: 1 Asynchronous		☐ 1 Face to Asynch		☑ 1Tı	raditional

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

Name	Academic rank	Office No.	Phone No.	E-m	nail
0.000 11					
Office Hours (Days/Time)	Sunday, Tuesday, Thursday ()		Monday, Wednesday ()		
Division number	Time	Place	Number of Students	Teaching Style	Approved Model
			Students	Traditional	1
				Learning	Traditional

Brief Description

This course is designed to introduce students to the basic principles of drug information and their databases by using electronic and other technology-based systems including electronic health records, to capture, store, retrieve, and analyze data to use in patient care as medications and medical history of patients. In addition, the student will be able to use knowledge-based information which forms the scientific basis of health care and includes reference information (about drugs, procedures, disease states, etc.).

Learning Resources

Course Book Information (Title, author, date of issue, publisher etc)	Pharmacy Inform Bourne, 2009.	atics, Anderson, P	O., S.M. McGuinn	ess and P.E.
Resources (Books, databases, periodicals, software, applications, others)	Guide to Health Informatics, Coiera, E., 2015.			
Supporting Websites	-			
The Physical Environment for Teaching	Classroom	☑ Labs	☑ Virtual Educational Platform	□ Others
Necessary Equipment and Software	Moodle			



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Pharmacy Department	QT 02/0400-4.0E

Supporting People with Special Needs	-
For Technical Support	E-Learning & Open Educational Resources Center 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	student should be able to:					
K1	Understand the concept of pharmacy informatics on practice	MK3				
K2	Understand technologies used in pharmacy informatics	MK3				
K3	Evaluate the effectiveness of informatics technology in selected settings	MK3				
	Skills					
The s	The student should be able to:					
S1	Recognize the impact of ethical standards in the utilization of	MS2				
31	technology and informatics in healthcare	W152				
S2	Plan care and document health outcomes using informatics	MS1				
	Competencies					
The s	The student should be able to:					
	Manage patient healthcare needs using human, financial,					
C1	technological, and physical resources to optimize the safety and	MC3				
	efficacy of medication use system.					

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%

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).



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Schedule of Simultaneous / Face-to-Face Encounters and their Topics

	of Sindicateous / Lace-to-Lace Encount		Reference **
Week	Subject	Learning Style*	(Pages in Course
			Book)
1	What Is Pharmacy Informatics	Lecture	
2	Computer and Informatics Basics	Lecture	
3	Information Systems: Hospital Information Systems	Lecture	
4	Information Systems: Pharmacy Information Systems	Lecture	
5	Information Systems: Bedside Bar Coding Technology and Implementation	Lecture	
6	Avoiding Medication Errors	Lecture	
7	Tertiary Information Sources for Professionals and Patients	Lecture	
8	Clinical Decision Support Systems	Lecture	
9	Midterm Exam		
10	Hakeem (Guest Speaker)	Lecture	
11	Telehealth	Lecture	
12	Ethics and health informatics	Lecture	
13	Standardization & Accreditation in Health Care Informatics	Lecture	
14	Data Mining for Pharmacy Outcomes	Lecture	
15			
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
-	-	-	-

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