

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.	0201438		Course Name		Evidence-Based Practice	
Credit Hours	3		Prerequisite *Co-requisite		Biopharmaceutics and Pharmacokinetics + Pharmacology (3) + *Therapeutics (1)	
Course Type	<input type="checkbox"/> Mandatory University Requirement	<input type="checkbox"/> University Elective Requirement	<input checked="" type="checkbox"/> Faculty Mandatory Requirement	<input 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 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 will teach evidence-based practice skills that will enable students to conduct extensive evaluations of existing literature to improve patient care. It provides a comprehensive overview of evidence-based practice and the components essential for implementation of evidence-based practice in a clinical setting. It is designed to focus on skills needed to critically evaluate information available from research findings and professional consensus statements.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	How to Read a Paper: The Basics of Evidence-Based Medicine 5th Edition by: Trisha Greenhalgh			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	Evidence-Based Practice: A Primer for Health Care Professionals 2nd Edition by: Martin Dawes MD FRCGP			
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			
Supporting People with				

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Special Needs	
For Technical Support	

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	Define the major components of the evidence-based practice process	MK3
K2	Define PICO questions for framing clinical inquiries.	MK3
Skills		
The student should be able to:		
S1	Carry out online search in various databases for evidences.	MS1
S2	Analyze existing clinical guidelines and critically analyze research articles based on levels of evidence.	MS1
S3	Select appropriate measures to evaluate the effectiveness of evidence-based practice implementation and use data for quality improvement.	MS1
Competencies		
The student should be able to:		
C1	Justify the collected evidence to develop a guideline and clinical decision support tools.	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%	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, 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	Introduction: principles of evidence-based practice	Lecture	Chapter 1 (1-15)
2	Searching the literature	Lecture	Chapter 2

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			(16-26)
3	Getting your bearings: what is this paper about? (Randomized study and cohort studies)	Case study	Chapter 3 (27-35)
4	Getting your bearings: what is this paper about? (Case control studies and cross-sectional studies)	Lecture	Chapter 3 (35-43)
5	Assessing methodological quality	Lecture	Chapter 4 (45-58)
6	Statistics for the non-statistician	Lecture	Chapter 5 (60-76)
7	Papers that report trials of drug treatments and other simple interventions	Lecture	Chapter 6 (78-88)
8	Papers that report trials of complex interventions	Lecture	Chapter 7 (89-94)
9	Papers that summarize other papers (literature review and scoping review) Midterm Exam	Lecture	Chapter 8 (95-115)
10	Papers that summarize other papers (systematic reviews and meta-analyses)	Lecture	Chapter 9 (116-132)
11	Papers that tell you what to do (guidelines)	Lecture	Chapter 10 (135-148)
12	Papers that go beyond numbers (qualitative research)	Lecture	Chapter 11 (164-176)
13	Papers that report questionnaire research	Lecture	Chapter 12 (178-188)
14	Getting evidence into practice	Lecture	Chapter 15 (202-207)
15	Criticisms of evidence-based medicine	Lecture	Chapter 17 (233-240)
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 /

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			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 / 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	-	-