

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	☐ 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 introduces the fundamental concepts and methods of Evidence-Based Practice, empowering students to make informed clinical decisions by integrating research evidence with clinical expertise as well as patients' values and preferences. Students will develop skills in framing clinical questions, searching scientific databases, evaluating study designs, and applying evidence to pharmacy practice.

Learning Resources

Course Book Information (Title, author, date of issue, publisher ... etc)	-How to Read a Paper: The Basics of Evidence-Based Medicine 5 th edition (2020), Trisha Greenhalgh.			
Supportive Learning Resources (Books, databases, periodicals, software, applications, others)	-Principles of Research Design and Drug Literature Evaluation 2 nd edition by: Rajender R. Aparasu, John P. Bentley -Evidence-Based Practice: A Primer for Health Care Professionals 2 nd Edition by: Martin Dawes MD FRCGP			
Supporting Websites				
The Physical Environment for Teaching	☒ Classroom	☐ Labs	☒ Virtual Educational Platform	☐ 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	Describe the major components of the evidence-based practice process.	MK3
K2	Define PICO questions for framing clinical inquiries.	MK3
K3	Recognize the research article components, study designs, and levels of evidence.	MK3
Skills		
The student should be able to:		
S1	Carry out online search in various databases for evidences.	MS1
S2	Select the most appropriate study design to answer a given clinical or research question.	MS1
S3	Appraise research articles and guidelines using standardized tools.	MS1
Competencies		
The student should be able to:		

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	Introduction: Components of Evidence-Based Practice	Lecture	Chapter 1 (1-15)
2	Introduction: Steps of Evidence-Based Practice and PICO questions	Lecture	Chapter 1 (1-15)
3	Searching the literature	Lecture	Chapter 2 (16-26)
4	Components of a research article	Lecture	Chapter 2 (16-26)
5	Getting your bearings: what is this paper about? (Randomized study and cohort studies)	Lecture	Chapter 3 (27-35)
6	Getting your bearings: what is this paper about? (Case control studies and cross-sectional studies)	Lecture	Chapter 3 (35-43)
7	Assessing methodological quality	Lecture	Chapter 4 (45-58)
8	Statistics for the non-statistician	Lecture	Chapter 5 (60-76)
9	Papers that report trials of drug treatments and other simple interventions Midterm Exam	Lecture	Chapter 6 (78-88)
10	Papers that report trials of complex interventions	Lecture	Chapter 7 (89-94)
11	Papers that summarize other papers (literature review and scoping review)	Lecture	Chapter 8 (95-115)
12	Papers that summarize other papers (systematic reviews and meta-analyses)	Lecture	Chapter 9 (116-132)
13	Papers that tell you what to do (guidelines)	Lecture	Chapter 10 (135-148)
14	Papers that go beyond numbers (qualitative research)	Lecture	Chapter 11 (164-176)
15	Papers that report questionnaire research	Lecture	Chapter 12 (178-188)
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.

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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 / 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	-	-