



Jordan University of Science and Technology
Faculty of Pharmacy
Doctor Of Pharmacy (Pharm D.) Department

PHMD462 Drug Information And Clinical Literature Evaluation - JNQF Level: 7

First Semester 2024-2025

Course Catalog

3 Credit Hours. This course was designed to increase students' knowledge and skills needed for the provision of drug information with a major emphasis on retrieving drug information from various reliable resources. This course enables students to develop literature searching and evaluating skills in an efficient manner and gain a better understanding of research design, implementation, and conclusion of interventional and observational research as well as the ethical research boundaries. This course can strengthen students' ability to apply health informatics and promote patient-centeredness. Prerequisite: PHMD344

Teaching Method: Blended

Text Book

Title	The Clinical Practice of Drug Information
Author(s)	Michael Gabay
Edition	1st Edition
Short Name	Reff1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Reff2	Designing Clinical Research	Hulley, Stephen B. et al.	5th Edition	

Instructor

Name	Dr. Rawand Khasawneh
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Instructor

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Instructor

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Class Schedule & Room
Section 1: Lecture Time: Sun, Tue : 11:30 - 12:30 Room: D4202 Section 2: Lecture Time: Sun, Tue : 12:30 - 13:30 Room: M3303 Section 3: Lecture Time: Mon, Wed : 11:30 - 12:30 Room: NF39

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Drug Information Resources	Chapters 3,4, 5 From Ref#1
Week 1	Formulating Effective Responses and Recommendations: A Structured Approach	Chapter 2 From Ref#1
Week 2	Evidence-Based Clinical Practice Guidelines	Chapter 14 From Ref#1
Week 3	What is clinical research?	Chapter 1 From Ref#2
Week 4	Research question	Chapter 2 From Ref#2
Week 5	Designing questionnaires and surveys	Chapter 17 From Ref#2
Week 5	Study subjects: specifications, sampling and recruitment	Chapter 3 From Ref#2
Week 6	Planning measurements: precision, and accuracy	Chapter 4 From Ref#2
Week 7	Clinical study design: Cross Sectional and Cohort	Chapter 8 From Ref#2
Week 8	Sample size	Chapter 5 and 6 From Ref#2
Week 8	Clinical study design: Case Control	Chapter 9 From Ref#2
Weeks 9, 10	Clinical Trials	Chapter 11 From Ref#2
Week 11	Ethics and responsible conduct in research	Chapter 7 From Ref#2

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Distinguish between different types of information resources to be utilized in answering drug information questions and providing evidence-based recommendations [1PLO2.1] [1L7S1]	15%	First Exam
Identify the basic elements of clinical research. [1PLO1.1] [1L7K1]	10%	First Exam, Second Exam
Identify the methods of data collection and recording, sample size determination, the types of validity and variables. [1PLO1.1] [1L7K1, 1L7S2]	20%	Second Exam
Assess different types of clinical research including clinical trials and observational studies [1PLO3.1] [1L7S2, 1L7S3]	50%	Second Exam, Interactive Learning
Outline the key features of ethics and responsible conduct in research. [1PLO3.3] [1L7C2, 1L7C3]	5%	

Relationship to Program Student Outcomes (Out of 100%)															
PLO1.1	PLO2.1	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.2	PLO3.3	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4	PLO5.1
30	15				50		5								

Relationship to NQF Outcomes (Out of 100%)					
L7K1	L7S1	L7S2	L7S3	L7C2	L7C3
20	15	35	25	2.5	2.5

Evaluation	
Assessment Tool	Weight
First Exam	20%
Second Exam	30%
Interactive Learning	10%
Final Exam	40%

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