



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

PHMD515 Drug Literature Evaluation (For Pharm D Students) - JNQF Level: 7

First Semester 2024-2025

Course Catalog

2 Credit Hours. This course is concerned with basic concepts of clinical research including design, implementation, and conclusions. Observational and interventional research, and ethical issues related are covered. By the end of this course, students should be will comprehend basic clinical research concepts, and be able to utilize this concept to evaluate clinical studies from the primary literature.

Teaching Method: On Campus

Text Book

Title	Designing Clinical Research
Author(s)	Hulley, Stephen B. et al.
Edition	5th Edition
Short Name	Ref. 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref 2	Pharmacoepidemiology	Brian L. Strom	6th Edition	Wiley & Sons, Incorporated, John. 2019

Instructor

Name	Dr. Qais Al-Efan
Office Location	P1L1
Office Hours	
Email	qmefan@just.edu.jo

Instructor

Name	Dr. SHOROQ ALTAWALBEH
Office Location	P2 L-0
Office Hours	
Email	smaltawalbeh@just.edu.jo

Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue : 09:30 - 10:30
Room: SOUTH HALL

Section 3:
Lecture Time: Mon, Wed : 08:30 - 09:30
Room: U

Section 4:
Lecture Time: Mon, Wed : 08:30 - 09:30
Room: P1101

Section 5:
Lecture Time: Sun, Tue : 12:30 - 13:30
Room: M3305

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	What is clinical research?	Chapter 1 From Ref. 1
Week 2	Research question	Chapter 2 From Ref. 1
Weeks 3, 4	Study subjects: specifications, sampling and recruitment	Chapter 3 From Ref. 1
Week 5	Planning measurements: precision, and accuracy	Chapter 4 From Ref. 1
Week 6	Sample size and power	Chapter 5 and 6 From Ref. 1
Week 7	Clinical study design: Cross sectional	Chapter 7 From Ref. 1
Week 8	Clinical study design: Case Control	Chapter 8 From Ref. 1
Weeks 9, 10	Clinical study design: Cohort	Chapter 7 From Ref. 1
Weeks 11, 12	Clinical Trials	Chapter 10 and 11 From Ref. 1
Week 13	Designing questionnaires and surveys	Chapter 15 From Ref. 1
Week 14	Ethics and responsible conduct in research	Chapter 14 From Ref. 1

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Identify the basic elements of clinical research [1PLO1.1] [1L7K1]	20%	Midterm Exam
Identify the methods of data collection and recording, sample size determination, the types of validity and variables [1PLO1.1] [1L7K1, 1L7S2]	25%	Midterm Exam
Assess different types of clinical research including clinical trials and observational studies [1PLO3.1] [1L7S2, 1L7S3]	50%	Midterm Exam, Active learning, Final Exam
Outline the key features of ethics and responsible conduct in research [1PLO3.3] [1L7C2, 1L7C3]	5%	Final Exam

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
45					50		5								

Relationship to NQF Outcomes (Out of 100%)

L7K1	L7S2	L7S3	L7C2	L7C3
32.5	37.5	25	2.5	2.5

Evaluation

Assessment Tool	Weight
Midterm Exam	50%

Active learning	10%
Final Exam	40%

Policy	
Exams	All exams are closed books and notes. The final exam is comprehensive (covers all the material). Incomplete exams need approval from the dean.
Attendance	According to JUST policy requires the faculty member to assign ZERO grades (35) if a student misses 10% of the classes that are not excused.
Participation	Students are expected to participate and ask questions
Cheating	Prohibited, and in case of cheating the student will be subject to punishment according to the standard JUST policy will be applied.

Date Printed: 2024-10-12