

PHAR705 Design Of Clinical Studies - JNQF Level: 9

First Semester 2024-2025

Course Catalog

1 Credit Hours. The course deals with various designs of clinical research such as observational studies and clinical trials in the context of epidemiological concepts, and with considerations of medical, ethical and therapeutic requirements.

Teaching Method: On Campus

Text Book						
Title	Fundamentals of Clinical Trials					
Author(s) Lawrence Friedman, Curt Furberg, David DeMets, Christopher B. Granger, et al.						
Edition	1st Edition					
Short Name	Ref 1					
Other Information	Springer,2015					

Course References

	5					
Short name	Book name Author(s)		Edition	Other Information		
Ref 2	Understanding Pharmacoepidemiology	Yi Yang and Donna West-Strum	1st Edition	The McGraw-Hill Companies, Inc. 2011		
Ref 3	Pharmacoepidemiology	Brian L. Strom	6th Edition	Wiley & Sons, Incorporated, John. 2019		

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

Class Schedule & Room

Section 1: Lecture Time: Thu : 09:30 - 10:30 Room: M3305

Tentative List of Topics Covered Weeks Topic References From Ref 1 Weeks 1, 2, 3, 4 Introduction to Randomized Clinical Trials Weeks 5, 6, 7 From Ref 2, Observational Study Designs in Clinical Research From Ref 3 Week 9 Measures of Association From Ref 2. From Ref 3 Weeks 10, 11 Bias, Confounding Interaction in Clinical Studies From Ref 2, From Ref 3 Week 11 From Ref 1, Causality Assessment From Ref 2 Week 11 Evaluation of the Clinical Research Literature From Ref 2, From Ref 3 Week 12 Medication Utilization Patterns From Ref 2, From Ref 3 From Ref 2, Week 13 Medication Safety and Pharmacovigilance From Ref 3

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Understand clinical trial designs and highlight the strengths and limitations of conducting clinical trials [1PLO-CP2.1] [1L9K1]	20%	Mid Exam

Understand observational study designs and highlight the strengths and limitations of each study design. [1PLO-CP2.1] [1L9K1]	30%	Mid Exam
Discuss specific types of clinical research, identify threats to validity in clinical research, and explore strategies to prevent or manage these threats. [1PLO-CP2.1] [1L9K2]	30%	Final exam
Criticize literature from reliable data sources [1PLO-CP3.1] [1L9K3]	20%	Final term project; evaluating clinical studies

PLO	1.1 P	PLO2.1	PLO3.2	PLO3.3	PLO2.2	PLO2.3	PLO2.4	PLO3.1	PLO3.4	PLO3.5	PLO3.6	PLO4.1	PLO4.2	PLO4.3	PLO4.4		PLO- PT2.2	

Relationship to NQF Outcomes (Out of 100%)						
L9K1	L9K2	L9K3				
50	30	20				

Evaluation	
Assessment Tool	Weight
Mid Exam	50%
Final exam	30%
Final term project; evaluating clinical studies	20%

	Policy
Exams	The format for the exams is generally multiple-choice questions (MCQS) and essay questions. Grades will not be given out via e-mail Makeup exam should not be given unless there is a valid excuse. Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.
Cheating	Prohibited. The commitment of the acts of cheating and deceit such as copying during examinations, altering examinations for re-grade, plagiarism of homework assignments, and in any way representing the work of others as your own is dishonest and will not be tolerated. Standard JUST policy will be applied المادة 7: إذا منبط الطالب أثناء الامتحان أو الاختبار متلبساً بلغض فترقع عليه العقوبات التالية مجتمعة المادة 7: إذا منبط الطالب أثناء الامتحان أو الاختبار متلبساً بلغض فترقع عليه العقوبات التالية مجتمعة العتبار متلبساً بلغض فترقع عليه العقوبات المتلية الامتحان أو الاختبار متلبساً بلغض فترقع عليه العقوبات المتعبان أو الاختبار متلبساً بلغض فترقع عليه العقوبات المتعبان أو الاختبار متلبساً بلغض فترالية الامتحان أو الاختبار متعبول في يذلك الامتحان أو الاختبار متلبساً بلغي في تلك المتحان أو الاختبار متعبول في يذلك الامتحان أو الاختبار متلبساً بلغي للغامل الذي ضبط فيه
Attendance	Excellent attendance is expected. JUST policy requires the faculty member to assign ZERO grade (35) if a student missed 10% of the classes that are not excused. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Participation	Highly encouraged to achieve class objectives

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