



**Jordan University of Science and Technology**  
**Faculty of Pharmacy**  
**Pharmacy Department**

PHAR790 Clinical Trials And Ethics In Pharmacy
First Semester 2025-2026

Course Catalog
3 Credit Hours. This course will cover details of the aspects of clinical trials and the complex ethical challenges with specific attention to RCR ethical issues in the industry. These include Clinical Trials Methodology, Ethics of Clinical Trials design, Ethics of Research Participants Recruitments, Risk-benefit Assessment, Informed Consent in Research, Data Safety Monitoring Boards, Multi-national Research, Clinical Investigator Behavior, Independent Review and Oversight, and Research on Special Populations. The main aim of the course is to allow students to have expertise in clinical trials ethics, especially in relation to drug development for prevention and treatment.
<b>Teaching Method:</b> Blended

Instructor	
Name	Prof. Sayer Al-Azzam
Office Location	P2L1
Office Hours	
Email	salazzam@just.edu.jo

Class Schedule & Room
Section 2: Lecture Time: Wed : 13:00 - 15:00 Room: قاعة الكندي/اصيدلنة

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction of course and syllabus review	
Week 2	Research Philosophy	
Weeks 3, 4	Designing clinical studies	
Week 5	Ethics of Clinical Trials design Respect to Persons	
Week 6	Informed Consent in Research	
Week 7	Beneficence Risk-benefit Assessment	
Week 8	Justice Ethics of Research Participants Recruitments	
Week 9	Data Safety Monitoring Boards Multi-national Research	
Week 10	Clinical Investigator Behavior Independent Review and Oversight	
Week 11	Clinical trials in drug discovery. Bioequivalence Clinical Trials	
Week 12	Research on Special Populations	
Weeks 13, 14, 15	Cases presentations	

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
To identify concepts of clinical trials and related ethical issues	25%	
To appraise major ethical dilemmas in clinical trials and related risks	20%	
To critically analyze ethical scenarios related to clinical trials	20%	
To describe different approaches used in clinical trials-related research studies	15%	
To employ ethical, legal, and social frameworks to key clinical practice and research issues	20%	

Relationship to Program Student Outcomes (O																					
PLO-PT1.1	PLO-PT2.1	PLO-PT2.2	PLO-PT3.1	PLO-PT3.2	PLO-PT3.3	PLO-PT3.4	PLO-PT3.5	PLO-PT3.6	PLO-PT3.7	PLO-PT3.8	PLO-PT3.9	PLO-MP1	PLO-MP2	PLO-MP3	PLO-MP4	PLO-PET1.1	PLO-PET2.1	PLO-PET2.2	PLO-PET2.3	PLO-PET3.1	PLO-PET3.2

Evaluation	
Assessment Tool	Weight

Mid-term Exam	25%
Participation	10%
Student presentations	15%
Final Exam	50%

Policy	
Communicating with Instructors	Students should communicate through their official JUST emails. Communication through personal email accounts (yahoo, Gmail, Hotmail, etc.) or social media will NOT be accepted, and no response will be provided. Students are required to check their emails and the E-learning page of the course regularly for announcements and notifications
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 ضبط الطالب أثناء الامتحان أو الاختبار متلبساً بالغش فتوقع عليه العقوبات التالية مجتمعة: أ- اعتباره راسياً في ذلك الامتحان أو الاختبار ب- إلغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل ج- فصله من الجامعة لمدة فصل دراسي واحد، و هو الفصل التالي للفصل الذي ضبط فيه
Attendance	Attendance is mandatory and will be recorded regularly. Excellent attendance is expected. Students who miss more than 15% of the classes will be dropped from the course as per JUST policy. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Active learning and students' participation	Students are expected to actively participate in class discussions.

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