



Jordan University of Science and Technology
Faculty of Pharmacy
Pharmacy Department

PHAR903 Literature Seminar - JNQF Level: 10

First Semester 2024-2025

Course Catalog

1 Credit Hours. This course provides a platform for doctoral students to engage in critical discussions of emerging research and trends in pharmaceutical sciences. Topics will cover a wide range of interdisciplinary areas, including drug discovery and development, pharmaceutical biotechnology, pharmacokinetics and pharmacodynamics, pharmaceutical policy, and advanced delivery systems. Students will present and critique research articles, develop their presentation skills, and explore innovative solutions to challenges in pharmaceutical sciences.

Teaching Method: On Campus

Instructor

Name	Dr. Mohammad Alsaggar
Office Location	P2 L-0
Office Hours	
Email	mhalsaggar@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Tue : 13:30 - 14:30

Room: قاعة الكندي/صبيلا

Tentative List of Topics Covered

Weeks	Topic	References
Week 1	Introduction to the Course	
Week 2	Overview of Pharmaceutical Sciences	
Weeks 3, 4	Recent Trends and Technologies in Drug Discovery	
Week 5	Innovations in Pharmaceutical Industry	
Week 6	Advanced Drug Delivery Systems	

Week 7	Pharmacokinetics and Pharmacodynamics	
Week 8	Pharmaceutical Biotechnology	
Week 9	Innovations in Oncology Drug Development	
Week 10	Innovations in Antimicrobial Drug Development	
Week 11	Management of Diabetes and Metabolic Syndrome	
Week 12	Clinical Trials Design	
Week 13	Pharmaceutical Policy and Public Health Implications	
Week 14	Regulatory and Ethical Considerations in Pharmaceutical Research	
Weeks 15, 16	Project Proposal Presentation	

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Critically analyze and synthesize current research in pharmaceutical sciences [5PhD-PLO1, 10PhD-PLO2, 5PhD-PLO3] [10L10S2, 5L10C4]	20%	
Demonstrate advanced scientific communication skills, including effective presentation and critical discussion. [10PhD-PLO3, 30PhD-PLO4, 10PhD-PLO6] [10L10K1, 20L10S1, 10L10C1, 10L10C5]	50%	
Identify and propose innovative solutions to challenges in drug discovery, development, and delivery. [5PhD-PLO3, 10PhD-PLO4] [10L10S3, 5L10C2]	15%	
Evaluate the implications of pharmaceutical science research on healthcare policy and clinical practice. [10PhD-PLO5, 5PhD-PLO6] [15L10C5]	15%	

Relationship to Program Student Outcomes (Out of 100%)					
PhD-PLO1	PhD-PLO2	PhD-PLO3	PhD-PLO4	PhD-PLO5	PhD-PLO6
5	10	20	40	10	15

Relationship to NQF Outcomes (Out of 100%)							
L10K1	L10S1	L10S2	L10S3	L10C1	L10C2	L10C4	L10C5
10	20	13.33	10	10	5	6.67	25

Evaluation	
Assessment Tool	Weight
Critical Review of Published Research	25%
Participation and Discussion	10%
Research Article Presentation	25%

Final Project Proposal	40%
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Policy	
Communication with Instructor	<ul style="list-style-type: none"> - 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.
Attendance	<ul style="list-style-type: none"> - Attendance is mandatory and will be recorded regularly. - Excellent attendance is expected. - Students who miss more than 20% of the classes will be dropped from the course as per JUST policy.
Readings and Resources	A list of recommended readings and articles will be provided at the beginning of each week. Students are encouraged to explore additional peer-reviewed journals and resources.
Academic Integrity	All work must comply with the institution's academic integrity policies.
Late Submissions	Late submissions will incur penalties unless prior arrangements are made.
Final Project	Students will develop a research proposal addressing a novel challenge in pharmaceutical sciences. Proposals will be evaluated based on originality, feasibility, and scientific merit.

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