



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

PHMD557 Pharmacy Practice Laboratory 4 (For Pharm D Students) - JNQF Level: 7

First Semester 2023-2024

Course Catalog

1 Credit Hours. This course is the fourth in the series of pharmacy practice labs that connect the theoretical courses in pharmacy with the pharmacy practice. This course covers the practical methods for preparing sterile pharmaceutical preparations such as intravenous solutions. The course also deals with sterilization methods for parenteral preparations within clinical sittings. This course includes evaluating and dispensing these preparations with proper counseling for the patients and other health care team members.

Text Book

Title	Trisseles (Handbook of Injectable Drugs)
Author(s)	Lawrence A. Trissel
Edition	20th Edition
Short Name	Trisseles
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
(Chapter 797:	United States Pharmacopoeia (Chapter 797: PHARMACEUTICAL COMPOUNDING - STERILE PREPARATIONS	United States Pharmacopoeia	13th Edition	

Instructor

Name	Mrs. Rawdah Alsheyab
Office Location	-
Office Hours	Sun : 10:00 - 12:30 Mon : 09:00 - 10:30 Tue : 13:00 - 14:30 Thu : 11:30 - 12:30
Email	rawda@just.edu.jo

Instructor

Name	Mrs. Rafeef Massadeh
Office Location	P2 L-2
Office Hours	Sun : 12:00 - 14:30 Mon : 10:00 - 12:30 Tue : 10:00 - 12:30 Wed : 09:00 - 11:30 Thu : 09:00 - 11:30
Email	rafeef@just.edu.jo

Instructor

Name	Mr. Samer Kharashqeh
Office Location	D2 level -2

Office Hours	Sun : 09:30 - 10:30 Mon : 10:30 - 12:30 Tue : 10:30 - 12:30 Thu : 10:30 - 11:30
Email	skkharashqeh@just.edu.jo

Class Schedule & Room	
Section 3:	Lecture Time: Sun : 14:30 - 17:30 Room: LAB
Section 5:	Lecture Time: Mon : 11:30 - 14:30 Room: LAB
Section 6:	Lecture Time: Mon : 14:30 - 17:30 Room: LAB
Section 9:	Lecture Time: Tue : 14:30 - 17:30 Room: LAB
Section 10:	Lecture Time: Wed : 08:30 - 11:30 Room: LAB
Section 11:	Lecture Time: Wed : 11:30 - 14:30 Room: LAB
Section 14:	Lecture Time: Thu : 11:30 - 14:30 Room: LAB
Section 15:	Lecture Time: Thu : 14:30 - 17:30 Room: LAB
Section 17:	Lecture Time: Thu : 14:30 - 17:30 Room: LAB

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Parenteral Dosage Forms in Clinical Setting and Equipment	From Trisseles , From (Chapter 797:
Week 2	Compounding Sterile Preparations (CSPs) Part I	From Trisseles , From (Chapter 797:
Week 3	Compounding Sterile Preparations (CSPs) Part II	From Trisseles , From (Chapter 797:
Week 4	Aseptic Technique I: Reconstitution of Drugs	From Trisseles , From (Chapter 797:
Week 5	Aseptic Technique II: Drawing from an Ampoule and Calculations	From Trisseles , From (Chapter 797:
Week 6	Hazardous Drugs (HD)	From Trisseles , From (Chapter 797:
Week 7	Nutrition and Pharmacy Calculations	From Trisseles , From (Chapter 797:
Week 8	Allergenic Dilution	From Trisseles , From (Chapter 797:
Week 9	Compatibility of Parenteral Admixtures	From Trisseles , From (Chapter 797:

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Discuss compounded sterile preparations (CSPs) with their dispensing requirements at hospitals and to classify them into different risk levels (low, medium or high). [1PLO1.1] [10L7K1]	15%	
Evaluate the work of compounding personnel using different tests, for example: media fill test & glove fingertip test. [1PLO2.2] [10L7S3]	5%	
Find the following procedures regarding USP-chapter 797 protocol: Laminar flow hood cleaning, hand washing and garbing. [1PLO2.3] [10L7S2]	10%	
Assess sterile drugs including proper powder in vial reconstitution with sterile water for injection under aseptic conditions with proper labelling. [1PLO2.4] [15L7S1]	20%	
Identify hazardous drugs properly especially chemotherapy products. [1PLO3.2] [10L7S2]	15%	
Complete allergen immunotherapy dilution calculations properly. [1PLO3.3] [10L7S2]	15%	
Compute accurate pharmaceutical calculations regarding compounding sterile preparations (CSPs) including total parenteral nutrition (TPN) calculations. [1PLO3.6] [20L7S1]	10%	
Construct literature search to obtain reliable information regarding compatibility of different admixtures. [1PLO4.4] [15L7C1]	10%	

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
15		5	10	20		15	15			10				10	

Relationship to NQF Outcomes (Out of 100%)				
L7K1	L7S1	L7S2	L7S3	L7C1
15	30	40	5	10

Evaluation	
Assessment Tool	Weight
Mid term practical exam	25%
quizzes	15%
assignment	10%
personal evaluation	10%
final practical	15%
final theoretical	25%

Policy	
EXAMS	<ul style="list-style-type: none"> - All exams are closed books and notes. - The final exam is comprehensive (covers all the material). - The first, second, and midterm incomplete exams need approval from the departments' heads. - The final incomplete exams need approval from the d
CHEATING	<p>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.</p> <p>Standard JUST policy will be applied.</p> <p>بالغش فتوقع عليه العقوبات التالية مجتمعة المادة 7: إذا ضبط الطالب أثناء الامتحان أو الاختبار متلبساً في ذلك الامتحان أو الاختبار أ- اعتباره راسباً. ب- الغاء تسجيله في بقية المساقات المسجل لها في ذلك الفصل. ج- فصله من الجامعة لمدة فصل دراسي واحد، وهو الفصل التالي للفصل الذي ضبط فيه.</p>
ATTENDANCE	<p>Attendance is mandatory and will be recorded regularly.</p> <ul style="list-style-type: none"> - Excellent attendance is expected. - Students who miss more than 20% 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.
Withdraw	- The last day of courses withdrawal (without reimbursement of tuition fees) is 02/06/2023

Date Printed: 2023-10-24