



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

PHMD645 Clinical Training: Critical Care (For Pharm D Students) - JNQF Level: 7

Summer Semester 2023-2024

Course Catalog

4 Credit Hours. Four experiential training weeks in a critical care department. This includes various activities such as attending morning rounds, other clinical rounds, and discussing clinical cases based on daily follow-up and monitoring, and detailed evaluation of the pharmacotherapeutics of their assigned patients in the department. The goal is to improve students' practical clinical skills that would enhance the positive contribution of clinical pharmacists in medical care at the hospital. Prerequisite: successfully completing all courses: theoretical (both obligatory and elective), and practical (including PHAR D402 Community Pharmacy) as stated in the curriculum.

Teaching Method: On Campus

Text Book

Title	Pharmacotherapy: A Pathophysiological Approach, Dipiro et al, McGraw-Hill, 2016, 10th edition.
Author(s)	Dipiro et al
Edition	10th Edition
Short Name	Ref#1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref#2	Pharmacotherapy Principles and Practice, Chisholm-Burns et al, McGraw-Hill, 2019, 5th Edition.	Chisholm-Burns et al	5th Edition	
Ref#3	Critical care Pharmacotherapy, by Brian L. Erstad et al, ACCP, 2018.	Erstad et al	3rd Edition	
Ref#4	www.uptodate.com	Different as per topic	1st Edition	

Instructor

Name	Mrs. Batool Shhabat
Office Location	-
Office Hours	Sun : 08:00 - 09:00 Mon : 08:00 - 10:00 Tue : 10:00 - 11:00 Wed : 10:00 - 12:00
Email	bashhabat@just.edu.jo

Class Schedule & Room

<p>Section 2: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 3: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 4: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 5: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 6: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 8: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 9: Lecture Time: U : - Room: HOSPITAL</p> <p>Section 10: Lecture Time: U : - Room: HOSPITAL</p>
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Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Glycemic control in critically ill patients, Diabetic Ketoacidosis, Stress ulcer prophylaxis, Venous thromboembolism prophylaxis , Neurosurgical critical care, Acid-Base disorders, IV fluids	From Ref#1 , From Ref#2 , From Ref#3 , From Ref#4
Weeks 2, 3	Disseminated intravascular coagulation, Antibiotics, Antifungals in ICU, Catheter related infections, Aspiration pneumonia, Status epilepticus	From Ref#1 , From Ref#2 , From Ref#3 , From Ref#4
Weeks 3, 4	Analgesia, sedation, muscle relaxation and treatment of delirium, Shock, sepsis and septic shock. Hypertensive crises, Electrolytes Disturbances, Drug administration in feeding tubes, Guidelines for therapeutic drug monitoring, Ventilator associated pneumonia, Dose adjustment in acute renal failure, Drug induced nephrotoxicity, Brain death	From Ref#1 , From Ref#2 , From Ref#3 , From Ref#4

Mapping of Course Outcomes to Program Outcomes and NQF Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Utilize tools to independently gather medication histories, physical findings, laboratory tests, and pharmacokinetic data to select and recommend optimal drug therapy for individual patients as necessary. [1PLO1.1][1L7S1, 1L7C2]	25%	
Identify potential drug-related problems through the monitoring of basic pharmacokinetic and pharmacodynamic parameters and assessing past and current patients? histories [1PLO2.1][1L7S2, 1L7C4]	25%	
Apply current drug therapy information from the literature in formulating recommendations and comprehensive pharmaceutical care plan. [1PLO3.1][1L7S3, 1L7C3]	30%	

Explain to patients and/or caregivers the appropriate use of medications utilizing medication therapy management principles when possible. [1PLO4.4] [1L7C1, 1L7C4]	20%	
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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
25	25				30									20	

Relationship to NQF Outcomes (Out of 100%)							
L7S1	L7S2	L7S3	L7C1	L7C2	L7C3	L7C4	
12.5	12.5	15	10	12.5	15	22.5	

Evaluation	
Assessment Tool	Weight
Quizzes	10%
Final	40%
Formal	15%
Informal	15%
Attitude	5%
Oral Exam	10%
In Service	5%

Policy	
Exams	The format for the exams is generally (but NOT always) in the form of multiple-choice questions. Grades will not be given out via e-mail.
Cheating	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 راسباً 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	· Excellent attendance is expected. · JUST policy requires the faculty member to assign ZERO grade (35) if a student misses 20% of the classes. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Withdraw	Last day to drop the course is before the twelve (12th) week of the current semester.

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