



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

PHMD644 Clinical Training: Pediatrics (For Pharm D Students) - JNQF Level: 7

First Semester 2024-2025

Course Catalog

4 Credit Hours. Four experiential training weeks in a pediatrics 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.

Teaching Method: On Campus

Text Book

Title	Pharmacotherapy: A Pathophysiological Approach
Author(s)	Dipiro et al
Edition	11th Edition
Short Name	Ref # 1
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Ref # 2	Current Diagnosis & Treatment Pediatrics	William Hay et al	25th Edition	
Ref # 3	Nelson essentials of pediatrics	Karen et al	9th Edition	
Ref # 4	Basic and clinical pharmacology	Katzung et al	14th Edition	
Ref #5	www.uptodate.com	None	1st Edition	
Ref # 6	Neonatology: Management, Procedures, On-call problems, Diseases, and Drugs by .2020.	Tricia Lacy Gomella et al.	8th Edition	
Ref # 7	The Harriet Lane Handbook. 2021.	Johns Hopkins Hospital et al.	22nd Edition	
Ref # 8	Nelsons Pediatric Antimicrobial Therapy. 2021.	Nelson et al.	27th Edition	
Ref # 9	www.Lexicomp.com	None.	1st Edition	
Ref # 10	American College of Clinical Pharmacy. https://www.accp.com/education/pediatrics.aspx	None.	1st Edition	

Instructor

Name	Miss Abeer Ayoub
Office Location	-

Office Hours	Sun : 08:00 - 08:30 Sun : 12:00 - 13:00 Mon : 08:00 - 08:30 Mon : 12:00 - 13:00 Tue : 12:00 - 13:00 Wed : 12:00 - 13:00 Thu : 12:00 - 13:00
Email	amayoub@just.edu.jo

Class Schedule & Room	
Section 1:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 08:30 - 10:30 Room: HOSPITAL
Section 2:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 08:30 - 10:30 Room: HOSPITAL
Section 3:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 08:30 - 10:30 Room: HOSPITAL
Section 4:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 10:30 - 12:30 Room: HOSPITAL
Section 5:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 10:30 - 12:30 Room: HOSPITAL
Section 6:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 10:30 - 12:30 Room: HOSPITAL
Section 7:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 12:30 - 14:30 Room: HOSPITAL
Section 8:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 12:30 - 14:30 Room: HOSPITAL
Section 9:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 12:30 - 14:30 Room: HOSPITAL
Section 10:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 14:30 - 16:30 Room: HOSPITAL
Section 11:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 14:30 - 16:30 Room: HOSPITAL
Section 12:	Lecture Time: Sun, Mon, Tue, Wed, Thu : 14:30 - 16:30 Room: HOSPITAL

Tentative List of Topics Covered		
Weeks	Topic	References
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Upper Respiratory Tract Infections	From Ref # 1 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Lower respiratory Tract Infections	From Ref # 1 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Urinary Tract Infections	From Ref # 3 , From Ref #5

Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Sepsis	From Ref # 2 , From Ref #5 , From Ref # 6
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	CNS infection	From Ref # 1 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Gastrointestinal infections	From Ref # 2 , From Ref # 3 , From Ref #5 , From Ref # 10
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Cystic fibrosis	From Ref # 1 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Chemotherapeutic drugs	chapters 43-51 From Ref # 4
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Vaccines	From Ref # 2 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Croup	From Ref # 2 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Febrile seizure	From Ref # 2 , From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Diabetes mellitus-Diabetic ketoacidosis (DKA)	From Ref # 2 , From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Rheumatic fever	From Ref # 2 , From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Idiopathic thrombocytopenia purpura (ITP)	From Ref # 2 , From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Thalassemia & Sickle cell disease	From Ref # 2 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Poisonings in children	From Ref # 3 , From Ref #5 , From Ref # 10
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Asthma in children	From Ref # 2 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Anemia	From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Nephrotic syndrome.	From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Kawasaki Disease.	From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	G6PD deficiency.	From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Celiac disease.	From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Whooping Cough.	From Ref # 2 , From Ref # 3 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	FMF.	From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 16	Constipation.	From Ref # 2 , From Ref #5
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Autism and ADHD.	From Ref # 2 , From Ref #5 , From Ref # 10
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	Seizure disorder.	From Ref # 10
Weeks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	MISC-19	From Ref # 10

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%	Written quizzes, Formal case presentations, Final exam
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%	Daily evaluation and attitude, Formal case presentations
Apply current drug therapy information from the literature in formulating recommendations and comprehensive pharmaceutical care plan. [1PLO3.1] [1L7S3, 1L7C3]	30%	Final exam
Explain to patients and/or caregivers the appropriate use of medications utilizing medication therapy management principles when possible. [1PLO4.4] [1L7C1, 1L7C4]	20%	Daily evaluation and attitude, Active learning/Oral Exam, Active learning/In-service

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
Daily evaluation and attitude	20%
Written quizzes	15%
Active learning/Oral Exam	5%
Active learning/In-service	5%
Formal case presentations	15%
Final exam	40%

Policy	
Exams	All exams are closed book and notes. The final exam is comprehensive (covers all the material). The format for the exams is generally in the form of essay questions and multiple choice questions. Makeup exam should not be given unless there is a valid excuse approved by the dean 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- الغاء تسجيله في بقية المسابقات 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 15% of the classes. If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.