

COURSE DESCRIPTIONS

Faculty	Pharmacy				
Department	Pharmacy			NQF level	7
Course Title	Clinical pharmacy and therapeutics (2)	Code	901538	Prerequisite	901514
Credit Hours	2	Theory	2	Practical	0
Course Leader	Aiman Shoiab	email	Aiman.s@jadara.edu.jo		
Lecturer	Jaafar abu abeeleh	emails	ayhamjafar@yahoo.com		
Lecture time	الخميس عن بعد من الساعة 11 صباحا ولغاية 1 ظهرا السبت وجاهي من الساعة 11 صباحا ولغاية 1 ظهرا	Classroom	D303	Attendance	Fulltime
Semester	2024/2025-الصيفي	Production		Updated	
Type of Teaching	☐ Face to Face ☒ Blended ☐ Online				

Short Description

This course discusses the pharmacotherapy of various diseases including the upper and lower respiratory tract infections, upper and lower urinary tract infections, some of the disorders of the digestive system including constipation and diarrhea, furthermore, this course will deal with the medications that used for pregnant and lactating women, and will discuss anemia.

Course Objectives

The aim of this course is to familiarize students with the pharmacotherapy guidelines of various human diseases. This will be achieved by discussing the treatment guideline of upper respiratory tract infections, lower respiratory tract infections, lower and upper urinary tract infections, anemia and medications of pregnant and lactating women. This includes basic understanding of the pathophysiology, epidemiology, etiology, disease manifestation, pharmacological and non-pharmacological approaches in treatment these conditions. Furthermore, discuss the mechanisms of action of the drugs that used in treating previous conditions, drug-drug and drug-food interactions, and adverse effects.

Thus the objectives of the course are:

- 1) To get an overview of the pathophysiology, epidemiology, etiology and the manifestations of the diseases .
- 2) To describe the treatment guideline of upper and lower respiratory tract infections. Additionally to describe the underlying causes of these diseases. To identify the mechanism of action of drugs that used in treating these diseases and list the major adverse effects of them.
- 3) To describe the treatment guideline of upper and lower urinary tract infections. Additionally to describe the underlying causes of these diseases. To identify the mechanism of action of drugs that used in treating these diseases and list the major adverse effects of them.
- 4) To describe the treatment guideline of anemia. Additionally to describe the underlying causes of anemia To identify the mechanism of action of drugs that used in treating anemia and list the major adverse effects of them.
- 5) To identify the main complications that encounter by pregnant woman and how to manage it

according to treatment guidelines. Describe the pathophysiology of these complications and list the major adverse effects of the medications and their mechanism of action.

Course Intended Learning Outcomes (CILOs)	
A. Knowledge - Theoretical Understanding	
a1. Recall the pathophysiology, epidemiology, etiology and disease manifestation, (K2) a2. Recall the treatment guideline in both branches; pharmacological and non-pharmacological approaches (K2) a 3. Choose the appropriate drug based on treatment guideline and patient's factors. (K2).	
B. Knowledge - Practical Application	
a3.	
C. Skills - Generic Problem Solving and Analytical Skills	
b1.	
D. Skills - Communication, ICT, and Numeracy	
b1. Decide the rational therapy regimen according to the treatment guideline and patient specific condition. (S3) b2. Evaluate the medical status of patients and provide the necessary counseling (i.e. geriatric patients, pregnant women, pediatrics, cases of comorbidity or polypharmacy). (S3)	
E. Competence: Autonomy, Responsibility, and Context	
c1. Recommend, advice and monitor therapeutic regimen with patient in evidence based manner. (C3).	
Teaching and Learning Methods	
☒ Face to Face Lectures ☐ Brain Storming ☐ Synchronous remote ☒ Asynchronous remote ☐ Using Video ☒ Discussions ☐ Research Project ☒ Case Study ☐ Field visit ☒ Problem solving	
Assessment Methods	
☐ Formative Assessment ☒ Quiz ☐ Lab Exam ☐ Homework ☒ Project Assessment ☐ Oral Presentation ☒ Midterm ☒ Final Exam	

Course Contents					
Week	Hours	CILOs	Topics	Teaching & Learning Methods	Assessment Methods
1.	4	a1-a3, b1, b2, c1	Upper Respiratory tract infections	Lecture and PowerPoint presentation	Exam
2.	4	a1-a3, b1, b2, c1	Upper Respiratory tract infections	Lecture and PowerPoint presentation	Exam
3.	4	a1-a3, b1, b2, c1	Lower respiratory tract infection	Lecture and PowerPoint presentation	Exam
4.	4	a1-a3, b1, b2, c1	Lower respiratory tract infection	Lecture and PowerPoint presentation	Exam

5.	4	a1-a3, b1, b2, c1	Urinary tract infection	Lecture and PowerPoint presentation	Exam
6.	4	a1-a3, b1, b2, c1	Urinary tract infection	Lecture and PowerPoint presentation	Exam
7.		a1-a3, b1, b2, c1	Midterm Exam		
8.	4	a1-a3, b1, b2, c1	Constipation and diarrhea	Lecture and PowerPoint presentation	Exam
9.	4	a1-a3, b1, b2, c1	Constipation and diarrhea	Lecture and PowerPoint presentation	Exam
10.	4	a1-a3, b1, b2, c1	Anemia	Lecture and PowerPoint presentation	Exam
11.	4	a1-a3, b1, b2, c1	Anemia	Lecture and PowerPoint presentation	Exam
12.	4	a1-a3, b1, b2, c1	Drugs used in pregnancy	Lecture and PowerPoint presentation	Exam
13.	4	a1-a3, b1, b2, c1	Drugs used in pregnancy	Lecture and PowerPoint presentation	Exam
14.	4	a1-a3, b1, b2, c1	Drugs used in pregnancy	Lecture and PowerPoint presentation	Exam
15.		a1-a3, b1, b2, c1	Final Exam		

Infrastructure	
Textbook	Pharmacotherapy, principles and practice , Marie A, Terry L, 5th edition, 2019
References	Clinical pharmacy and Therapeutics, by Roger Walker and Clive Edwards, 6 th edition. 2018
Required reading	Lippincott's Illustrated Reviews – Pharmacology, 5th edition.

Electronic materials	✓ www.emedicine.com ✓ www.sciencedirect.com ✓ www.blackwell.com ✓ www.ovid.com www.pubmed.com
Other	

Course Assessment Plan								
Assessment Method		Grade	CILOs					
			a1	a2	a3	b1	b2	c1
First (Midterm)		30	7	5	5	5	4	4
Second (if applicable)								
Final Exam		40	8	6	7	7	6	6
Coursework		30						
Coursework assessment methods	Assignments		2	1	2	2	1	1
	Case study		0	0	2	2	1	1
	Discussion and interaction							
	Group work activities							
	Lab tests and assignments							
	Presentations							
	Quizzes		4	3	2	2	2	2
Total		100	21	15	18	18	14	14

Plagiarism
Plagiarism is claiming that someone else's work is your own. The department has a strict policy regarding plagiarism and, if plagiarism is indeed discovered, this policy will be applied. Note that punishments apply also to anyone assisting another to commit plagiarism (for example by knowingly allowing someone to copy your code). Plagiarism is different from group work in which a number of individuals share ideas on how to carry out the coursework. You are strongly encouraged to work in small groups, and you will certainly not be penalized for doing so. This means that you may work together on the program. What is important is that you have a full understanding of all aspects of the completed program. In order to allow proper assessment that this is indeed the case, you must adhere strictly to the course work requirements as outlined above and detailed in the coursework problem description. These requirements are in place to encourage individual understanding, facilitate individual assessment, and deter plagiarism.