

Course E-Syllabus

1	Course title	Pharmacotherapy II
2	Course number	1203429
3	Credit hours	3 (theory)
	Contact hours (theory, practical)	3 (theory)
4	Prerequisites/corequisites	Prerequisite: 1203363 (Pharmacology I)
5	Program title	BSc. In Pharmacy and Doctor of Pharmacy (Pharm D)
6	Program code	12
7	Awarding institution	The University of Jordan
8	School	Pharmacy
9	Department	Biopharmaceutics & Clinical Pharmacy
10	Level of course	Undergraduate
11	Year of study and semester (s)	Second semester of the 4 th year
12	Final Qualification	BSc. In Pharmacy and Doctor of Pharmacy (Pharm D)
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Teaching methodology	<input type="checkbox"/> Blended <input checked="" type="checkbox"/> Online
16	Electronic platform(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....
17	Date of production/revision	Feb 2021

18 Course Coordinator:

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20 Course Description:

This course aims to provide students with the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected respiratory, renal, infectious, gastrointestinal & musculoskeletal diseases. In addition, it aims to provide the students with the knowledge of clinical uses, pharmacokinetics, clinically significant side effects & drug interactions and contraindications to medications used in the treatment of the selected disorders.

21 Course aims and outcomes:

A. Aims:

This course aims to enable students to:

1. Describe the clinical manifestations of selected respiratory, renal, infectious, gastrointestinal & musculoskeletal diseases.
2. Understand the clinical issues of medication use
3. Provide patient education about disease and medications
4. Recommend the most appropriate pharmacological and nonpharmacological treatment for a selected patient

B. Course Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to:

A. Foundational Knowledge

Develop, integrate, and apply knowledge from the foundational sciences in clinical sciences (learner)

Remember

1. Recall facts, terms, basic concepts, and information regarding: selected disease conditions such as: (respiratory, renal and infectious diseases); clinical uses, pharmacokinetics, clinically significant side effects, drug interactions and contraindications to medications used in the management of the above mentioned conditions

Understand

2. Explain and outline goals of therapy within the context of diseases' Clinical manifestations and complications of diseases; and within the context of medications pharmacokinetics and pharmacodynamics behaviors

Applying

3. Identifying drug related problems resorting to gained knowledge and guidelines

Analyze

4. Examine and inspect subjective and objective evidence related to simulated cases to: prioritize patients' needs; recommend appropriate pharmacotherapy treatment; and recommend appropriate monitoring plan.

B. Skills essential to practice pharmacy

Proactively investigates new knowledge, approaches or behavior and takes steps to evaluate and improve performance (Self-learner)

5. Proactively investigate, collect and interpret information related to diseases and their management through browsing the internet based professional web sites, medical guidelines & journal databases (MEDLINE, e-library)

C. Attitudes and behaviors necessary for personal and professional development

Exhibit behaviors and values that are consistent with the trust given to the profession by patients, other healthcare providers, and society (Professional)

6. Demonstrate integrity by not cheating and not committing plagiarism
7. Demonstrate respect to professors and classmates by observing active listening inside the classroom

22. Topic Outline and Schedule:

Week	Lec	Topic	Teaching Methods* platform	Evaluation Methods**	References
1	1.1	Introduction	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	1.2	Asthma	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
2	2.1	Asthma	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	2.2	Asthma	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
3	3.1	Chronic Obstructive Pulmonary Disease	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	3.2	Chronic Obstructive Pulmonary Disease	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
4	4.1	Chronic Obstructive Pulmonary Disease	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	4.2	Acute Kidney Injury	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
5	5.1	Acute Kidney Injury	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	5.2	Chronic Kidney Disease - progression	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
6	6.1	Chronic Kidney Disease - progression	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	6.2	Chronic Kidney Disease - management	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
7	7.1	Chronic Kidney Disease - management	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	7.2	Assignment/Exam session	Moodle MS Teams		
8	8.1	Osteoporosis	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	8.2	Osteoporosis	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
9	9.1	Osteoarthritis	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	9.2	Osteoarthritis	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
10	10.1	Lower Respiratory Tract Infection	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	10.2	Lower Respiratory Tract Infection	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
11	11.1	Lower Respiratory Tract Infection	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	11.2	Upper Respiratory Tract Infection	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
12	12.1	Upper Respiratory Tract Infection	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	12.2	Urinary Tract Infection and Prostatitis	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
13	13.1	Urinary Tract Infection and Prostatitis	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	13.2	Antimicrobial Prophylaxis in Surgery	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below

14	14.1	Antimicrobial Prophylaxis in Surgery	Moodle MS Teams	Exams, Assignment	Specified in each lecture. General references provided below
	14.2	Assignment/Exam session	Moodle MS Teams		

*Teaching methods include: Synchronous lecturing/meeting using MS Teams during the official time of the lecture

**Evaluation methods include: Exams + Assignments

**Students will be distributed into groups and should collaborate for the submission of the assignment on Moodle at two different deadlines (see 'Evaluation Methods' for the deadlines)

23 Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	Period (Week)	Platform
Mid-term exam	30	TBA		
Final exam	50	TBA		
Assignment: Infographic	10	As per distribution	Assignment will be announced on Mar 7 th and the submission will be by the end on Mar 20 th .	Moodle
Quiz	10	TBA	Sat 8 th May 2021 @ 10 AM.	Online

24 Course Requirements (e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc):

Students should have an internet connection and a device (computer, mobile) to connect to Moodle and MS Teams platforms with their passwords and user names. Students are required to attend the MS Teams lectures and to follow the eLearning platform for the lectures and any announcement or instruction.

25 Course Policies:

A- Attendance policies:

Live attendance: Mandatory.

First warning – with 4 absences

Last warning – with 5 absences

Failing in the subject – with 6 absences

B- Absences from exams and submitting assignments on time:

Will result in zero achievement unless health report or other significant excuse is documented.

C- Health and safety procedures: NA

D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating will lead to applying all following penalties together

- 1) Failing in the subject he/she cheated at
- 2) Failing the other subjects taken in the same course
- 3) Not allowed to register for the next semester. The summer semester is not considered as a semester

E- Grading policy:

Midterm Exam	30 points
Final Exam	50 points
Assignments	20 points
Total	100 points

F- Available university services that support achievement in the course:

Moodle platform, MS Teams accounts, One Drive accounts and Office 365 package for instructors and students, Faculty halls for examination.

26 References:**A- Required book(s), assigned reading and audio-visuals:**

1. Pharmacotherapy: A Pathophysiological Approach, ed. DiPiro *et al*, 11th edition, 2019.
2. Pharmacotherapy principles & practice. ed. Chisholm-Burns *et al*, 5th edition, 2019.
3. Applied Therapeutics (Koda Kimble and Youngs Applied Therapeutics), 11th edition, 2017.
4. Disease management guidelines (specified in lecture notes)

B- Recommended books, materials and media:

1. Basic & Clinical Pharmacology, ed. Katzung, 15th edition, 2020.
2. Pathophysiology of the disease: an introduction to clinical medicine, ed. Hammer & McPhee. 7th ed, 2014

27 Additional information:

Course Material and Announcements: Students need to use the e-learning page at the JU website in order to get all lecture handouts and guidelines which will be uploaded there.

In addition, course related announcements and exam results will be posted on the e-learning page and **it is the responsibility of each student to check the site regularly.**

Grievance Policy

According to the general policies applied at the University of Jordan for grievance, when there is a complaint or conflict between a student and an academic/staff member or another student, the following procedures must be followed:

1. The student writes a formal complaint describing the situation of conflict to the Dean of the School or the President of the University.
2. Dean or President will first try to resolve the controversy by meeting/listening to both parties.
3. If agreement was not possible, Dean or president forms an investigation committee which will follow, within a specified timeline, the general policies for relevant circumstances. The following points are considered:
 - a. The committee will meet/talk to both parties and witnesses (if applicable) within two weeks of conflict.
 - b. All meetings and discussions are documented according to the university policies.
 - c. Results/ recommendations will be sent to the Dean or President who is responsible for their implementation

Name of Course Coordinator: Dr. Maysa Suyagh Signature: ----- Date: Feb 2021

Head of Curriculum Committee/Department: ----- Signature: -----

Head of Department: ----- Signature: -----

Head of Curriculum Committee/Faculty: ----- Signature: -----

Dean: ----- Signature: -----