



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Pharmacotherapy II
2	Course number	1203429
3	Credit hours (theory, practical)	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	
7	Awarding institution	The University of Jordan
8	Faculty	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	Pharmaceutical Sciences & Pharmaceutics
14	Language of Instruction	English
15	Date of production/revision	1st February 2016

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr Ala Issa, PhD.

<http://eacademic.ju.edu.jo/ala.issa/default.aspx>

Office 117

Phone 5 355 000, Ext. 23345.

E-mail: ala.issa@ju.edu.jo

Office hours to be announced

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr. Eman Abu Alrish, PhD.

Phone 5 355 000, Ext. 23372.

E-mail: e.aburish@ju.edu.jo

Office hours to be announced

Dr. Amal Akour, PhD.

Phone 5355000 ext 23344.

Email: amalakour@gmail.com

Office hours to be announced

18. Course Description:

As stated in the approved study plan.

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.

19. Course aims and outcomes:

A- Aims:

Upon completion of the course, the students are expected to be able 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. Knowledge and Understanding:**

- A1.** Recognize the clinical manifestations, pathophysiology, laboratory tests, physical examination, diagnosis, and prognosis of selected respiratory, renal, infectious, gastrointestinal & musculoskeletal diseases.
- A2.** Recognize the desired outcomes of drug therapy of the selected diseases.
- A3.** Describe the clinical management of the selected diseases.
- A4.** Identify drug-related problems such as , clinically significant side effects, interactions, and contraindication to medications used in the treatment of selected respiratory, renal, infectious, gastrointestinal & musculoskeletal diseases.
- A5.** Clarify the relationship between rational therapy of selected diseases to the pathophysiology of these diseases and the mechanism(s) of action of drugs used to treat these diseases.

B. Intellectual Skills

- B1.** Design appropriate pharmacologic and non-pharmacologic plans for selected diseases.
- B2.** Compare between rational and irrational drug therapy for selected diseases
- B3.** Design plans for monitoring drug efficacy, adverse effects, compliance and drug interactions
- B4.** Analyze relevant information for clinical case notes and assess problems in therapeutic management of patients

C. Subject Specific Skills

- C1.** Evaluate and solve drug-related and patient-related problems
- C2.** Design rational pharmacotherapy regimen and monitoring plan for drug regimen to achieve therapeutic outcomes according to the patient specific condition.
- C3.** Apply learned information in providing appropriate patient counseling

D. Transferable skills:

- D1.** Provide information related to diseases and their management through browsing the internet professional sites.
- D2.** Collect and interpret information from medical guidelines & journal databases (MEDLINE, e-library)

Program Competencies Achieved:

- 2.3 Identify pathophysiological basis of major human diseases
- 2.4 Assess symptoms and diagnostic tests and correlate them with associated diseases
- 2.8 Identify indications, side effects and contraindications of medicines
- 2.9 Identify drug-drug and drug-food interactions of medicines
- 2.15 Verify that patient therapy is based on best scientific evidence available
- 2.17 Advise patients and other health professionals on proper usage of medicines including their strength, frequency, dosage form and route of administration
- 2.18 Identify any medicament-related problems and take appropriate actions to resolve them
- 2.19 Recommend necessary modifications to patient therapy to optimize its safety and efficacy
- 7.4 Follow new advances in science related to the profession
- 7.5 Utilize information technology tools to enhance working experience

20. Topic Outline and Schedule:

Week	Day	Date	Lec		Topic	Lec/Topic
1	Sun	31-Jan-16	1		Introduction	
	Tue	2-Feb-16	2		Asthma	1
	Thu	4-Feb-16	3		Asthma	2
2	Sun	7-Feb-16	4		Asthma	3
	Tue	9-Feb-16	5		Asthma	4
	Thu	11-Feb-16	6		Chronic Obstructive Pulmonary Disease	1
3	Sun	14-Feb-16	7		Chronic Obstructive Pulmonary Disease	2
	Tue	16-Feb-16	8		Chronic Obstructive Pulmonary Disease	3
	Thu	18-Feb-16	9		Chronic Obstructive Pulmonary Disease	4
4	Sun	21-Feb-16	10		Acute Kidney Injury	1
	Tue	23-Feb-16	11		Acute Kidney Injury	2
	Thu	25-Feb-16	12		Chronic Kidney Disease - progression	1
5	Sun	28-Feb-16	13		Chronic Kidney Disease - progression	2
	Tue	1-Mar-16	14		Chronic Kidney Disease - management	1
	Thu	3-Mar-16	15		Chronic Kidney Disease - management	2
6	Sun	6-Mar-16	16		Chronic Kidney Disease - management	3
	Tue	8-Mar-16	17		Drug Therapy Individualization in Renal Insufficiency (self reading)	1
	Thu	10-Mar-16	18		Osteoporosis	1
7	Sun	13-Mar-16	19		Osteoporosis	2
	Tue	15-Mar-16	20		Osteoarthritis	1
	Thu	17-Mar-16	21		Osteoarthritis	2
8	Sun	20-Mar-16			Midterm	
	Tue	22-Mar-16				
	Thu	24-Mar-16				
9	Sun	27-Mar-16	22		Antimicrobial Regimen Selection (Self-Reading)	1
	Tue	29-Mar-16	23		Lower Respiratory Tract Infection	1
	Thu	31-Mar-16	24		Lower Respiratory Tract Infection	2
10	Sun	3-Apr-16	25	Quiz	Lower Respiratory Tract Infection	3
	Tue	5-Apr-16	27		Upper Respiratory Tract Infection	1
	Thu	7-Apr-16	28		Upper Respiratory Tract Infection	2
11	Sun	10-Apr-16	29		Upper Respiratory Tract Infection	3
	Tue	12-Apr-16	30		Urinary Tract Infection and Prostatitis	1
	Thu	14-Apr-16	31		Urinary Tract Infection and Prostatitis	2
12	Sun	17-Apr-16	32		Antimicrobial Prophylaxis in Surgery	1
	Tue	19-Apr-16	33		Antimicrobial Prophylaxis in Surgery	2
	Thu	21-Apr-16	34		CNS infections	1
13	Sun	24-Apr-16	38		CNS infections	2
	Tue	26-Apr-16	35		Peptic Ulcer	1
	Thu	28-Apr-16	36		Peptic Ulcer	2
14	Sun	1-May-16				
	Tue	3-May-16				
	Thu	5-May-16				

21. Teaching Methods and Assignments:

ILOs	Learning Methods	Evaluation Methods
A1, A2, A3, A4, A5	Lectures (to explain the theoretical knowledge for each topic)	Exams and Quizzes
B1, B2, B3, B4 C1, C2, C3	Case discussion (to apply the knowledge to solve patient cases)	Level of student interaction during the in-class case discussion. Exams and Quizzes
D1, D2	Homeworks	Exams and Quizzes

Learning skills:

1. **Critical thinking**
2. **Digital literacy**
3. **Problem-solving skills**
4. **Self-directed learning**

22. Evaluation Methods and Course Requirements:

Midterm exam	35%	TBA
Quizzes & Assignments	15%	TBA
Final exam	50%	TBA

* Provisional dates are scheduled in the course schedule at the end of this document. Each instructor will announce the exact date for the quizzes of each section at the beginning of the semester.

Distribution of examination material (may vary depending on material included):

- ✓ 35% - diseases: etiology & pathogenesis, clinical presentation, stages & classification, complications, disease management guidelines, pharmacotherapy goals, patient education
- ✓ 35% - pharmacotherapy: clinical uses, method of administration, monitoring for efficacy and adverse effects, drug interactions, & contraindications, patient counseling
- ✓ 30% - integration and analysis (solving short cases)

23. Course Policies:

A- Attendance policies:

Attendance: Mandatory.

First warning – with 4 absences

Last warning – with 5 absences

Failing in the subject – with 6 absences

B- Absences from exams and handing in 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 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:

Exams and Quizzes.

Mid Exam:	35 points
Quizz:	10 points
Assignment	5 points
Final Exam:	50 points
Total	100 points

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

Classrooms, internet classes

24. Required equipment:

Data show and internet connection

25. References:

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

1. Pharmacotherapy principles & practice. ed. Chisholm-Burns *et al*, 3rd edition, 2013.
2. Pharmacotherapy: A Pathophysiological Approach, ed. DiPiro *et al*, 9th edition, 2014.
3. Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs, 10th edition, 2013.
4. Disease management guidelines (specified in lecture notes)

B- Recommended books, materials, and media:

1. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 5th edition, 2012.
2. Basic & Clinical Pharmacology, ed. Katzung, 12th edition, 2012.
3. Pathophysiology of the disease: an introduction to clinical medicine, ed. McPhee & Hammer, 6th ed, 2010

www.accesspharmacy.com (can be accessed through the University of Jordan Library)

26. Additional information:

No side talks during lecture

No mobile phones during lecture

Entering the lecture theatre after the instructor is not permitted.

Homework should be done by students independently and will be asked at the exams

Name of Course Coordinator: **Dr Ala Issa, PhD.** -Signature: ---**Ala Issa**----- Date: Feb, 1st,
2016

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: Prof. Nailya Bulatova Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

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

Copy to:
Head of Department
Assistant Dean for Quality Assurance
Course File