

Course Syllabus

1	Course title	Therapeutics IV	
2	Course number	1203506	
3	Credit hours	3 (theory)	
	Contact hours (theory, practical)	3 (theory)	
4	Prerequisites/corequisites	1203364 (Pharmacology II)	
5	Program title	PharmD	
6	Program code		
7	Awarding institution	The University of Jordan	
8	School	Pharmacy	
9	Department	Biopharmaceutics & Clinical Pharmacy	
10	Course level	undergraduate	
11	Year of study and semester (s)	Second semester of the 5th year	
12	Other department (s) involved in teaching the course		
13	Main teaching language	English	
14	Delivery method	<input type="checkbox"/> Face to face learning <input checked="" type="checkbox"/> Blended <input type="checkbox"/> Fully online	
15	Online platforms(s)	<input checked="" type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others.....	
16	Issuing/Revision Date	February 20, 2023	

17 Course Coordinator:

Name: Prof. Nailya Bulatova Contact hours: to be announced. Office number: 122 Phone number: 5 355 000, Ext. 23350 Email: nyounes@ju.edu.jo

**18 Other instructors:**

Name: Prof. Abla Albsoul

Office number:

Phone number: 5 355 000, Ext. 23294

Email: ablabsoul@ju.edu.jo

Contact hours: to be announced

19 Course Description:

Will cover the pathophysiology, clinical presentations, pharmacotherapy (pharmacokinetics & pharmacodynamics, drug/drug interactions, dosage calculations, adverse effects, treatment algorithm, goals of therapy & patient education) of selected critical care, blood conditions, pain, perioperative care & women health issues..

20 Course aims and outcomes:

A- Aims:

1. Describe the clinical manifestations of selected critical care, blood conditions, pain & women health issues.
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- Students Learning Outcomes (SLOs):

Program Learning Outcomes (PLOs) Course Learning Outcomes (CLOs)	PLO (1) Care giver	PLO (2) Educ ator	PLO (3) Probl em solver	PLO (4) Profe ssion al
CLO (1) To provide students with the knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected critical care, blood conditions, pain & women health issues.	I	I		
CLO (2) To provide students with the knowledge of clinical uses, pharmacokinetics, clinically significant side effects, drug interactions, contraindications and patient education related to medications used in the management of selected critical care, blood conditions, pain & women health issues.	I			
CLO (3) To enable students to recommend the appropriate pharmacotherapy treatment according to the patient's specific condition.	R		R	
CLO (4) To enable students to collect and interpret information from medical guidelines & journal databases (MEDLINE, e-library).	R			
CLO (5) To demonstrate integrity by not cheating in exams and not committing plagiarism				R



21. Topic Outline and Schedule:

Wee k	Lect ure	Topic	CLO	Learning Methods (Face to Face/Blended/ Fully Online)	Platform	Synchron ous / Asynchro nous Lecturing	Evaluat ion Method s	Resources
1 (26 Feb- 1 Mar)	1.1	Introduction to the course. Pain management (1)	1-5	Face-to-face Instructor:NB		Asynchro nous	Quiz 1	Specified in each lecture.
	1.2	Pain management (2)	1-5	Face-to-face Instructor:NB		Asynchro nous	Quiz 1	Specified in each lecture.
2 (5- 8 Mar)	2.1	2. Perioperative care (1)	1-5	Face-to-face Instructor:NB		Asynchro nous	Exams	Specified in each lecture.
	2.2	Perioperative care (2)	1-5	Face-to-face Instructor:NB		Asynchro nous	Exams	Specified in each lecture.
3 (12- 15 Mar)	3.1	Pain management (3)	1-5	Self-study online Instructor:NB	e-learning	Asynchro nous	Short quiz online	Specified in each lecture.
	3.2	Perioperative care (3)	1-5	Self-study online Instructor:NB	e-learning	Asynchro nous	Short quiz online	Specified in each lecture.
4 (19- 22 Mar)	4.1	Sepsis & septic shock (1)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchro nous	Exams	Specified in each lecture.
	4.2	Sepsis & septic shock (2)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchro nous	Exams	Specified in each lecture.
5 (26- 29 Mar)	5.1	Acid-base disorders (1)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchro nous	Exams	Specified in each lecture.
	5.2	Acid-base disorders (2)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchro nous	Exams	Specified in each lecture.

6 (2-5 Apr)	6.1	Disorders of water and sodium homeostasis (1)	1-5	Self-study online Instructor:NB	e-learning	Asynchronous	Short quiz online	Specified in each lecture.
	6.2	Disorders of water and sodium homeostasis (2)	1-5	Self-study online Instructor:NB	e-learning	Asynchronous	Short quiz online	Specified in each lecture.
7 (9-12 Apr)	7.1	Disorders of calcium & phosphorous homeostasis (1)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchronous	Exams	Specified in each lecture.
	7.2	Midterm exam						
8 (16-19 Apr)	8.1	Disorders of calcium & phosphorous homeostasis (2)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
	8.2	Disorders of potassium & magnesium homeostasis (1)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
9 (23-26 Apr)	9.1	<i>Holiday</i>						
	9.2	Disorders of potassium & magnesium homeostasis (2)	1-5	Self-study online Instructor:NB	e-learning	Asynchronous	Short quiz online	Specified in each lecture.
10 (30 Apr-3 May)	10.1	Anemias (1)	1-5	Self-study online Instructor:NB	e-learning	Asynchronous	Short quiz online	Specified in each lecture.
	10.2	<i>Holiday</i>						
11 (7-10 May)	11.1	Anemias (2)	1-5	Face-to-face Instructor:NB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.

	11.2	Perimenopausal management (1)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
12 (14-17 May)	12.1	Perimenopausal management (2)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
	12.2	Menstruation-related disorders (1)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
13 (21-24 May)	13.1	Menstruation-related disorders (2)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
	13.2	Pregnancy complications (1)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
14 (28-31 May)	14.1	Pregnancy complications (2)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
	14.2	Drugs in pregnancy & lactation (1)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
15 (4-6 Jun)	15.1	Drugs in pregnancy & lactation (2)	1-5	Face-to-face Instructor:AB	e-learning /MS Teams	Asynchronous	Exams, quizzes	Specified in each lecture.
(8-20 June)		Final exam						

22 Evaluation Methods:

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

Evaluation Activity	Mark	Topic(s)	CLOs	Period (Week)	Platform
Midterm Exam	30	Lectures 1.1-6.1	1-5	Estimated week 7	On campus
Short interactive online quizzes	10		1-5	Weeks 1-9	e-learning
In-class quizzes	20	Topics will be assigned close to the quiz time	1-5	Two quizzes, each out of 10 marks: approximately at weeks 5 and 9	Online or in-class
Final Exam	40	All Topics	1-5	Week 15	On campus

23 Course Requirements

A computer or smartphone, internet connection, and the UJ account to access e-learning, MS Teams and the UoJ exam platforms

24 Course Policies:

A- Attendance policies:

Attendance: Mandatory.

First warning – with 4 hr absences (3 lectures)

Last warning – with 5 hr (4 lectures) absences

Failing in the subject – with 6 hr (more than 4 lectures) 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 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:

According to the School system reflected in Bylaws.

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

Classrooms equipped with computers, internet connections, e-learning (Moodle) platform, computer classes for online exams.

25 References:

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

1. Pharmacotherapy: A Pathophysiological Approach, ed. DiPiro, 12th edition, 2022.
2. Applied Therapeutics: The Clinical Use of Drugs, ed. Koda-Kimble, 11th edition, 2018.
3. Disease management guidelines (the most updated editions, specified in lecture notes).

B- Recommended books, materials, and media:

1. Basic & Clinical Pharmacology, ed. Katzung, 15th edition, 2021.

26 Additional information:

--

Name of Course Coordinator: Prof. Nailya Bulatova		Signature: -----	Date: February 20, 2023
Head of Curriculum Committee/Department: -----		Signature: -----	
Head of Department: Dr. Shereen Aleidi		Signature: -----	
Head of Curriculum Committee/Faculty: Prof. Mutasim Ghazawi		Signature: -----	
Dean: Prof. Rula Darwish		Signature: -----	