

<b>Faculty: Pharmacy</b>	
<b>Department: clinical pharmacy</b>	<b>Program: Bachelor</b>
<b>Semester: second</b>	<b>Academic year: 2022/2023</b>



## Course Plan

### First: Course Information

<b>Course Name:</b>	<i>Clinical pharmacy and therapeutics III</i>		<b>Course No. 1101525</b>	
<b>Credit Hours:</b>		<i>Theoretical</i>	<i>2 CH</i>	<i>Practical</i>
<b>Prerequisite:</b>	<i>Class Number :1</i>		<i>Lecture Time: 11-12</i>	
<b>Level in JNQF</b>	7			
<b>Course Nature:</b>	<input type="checkbox"/> <i>Mandatory Faculty Requirement</i> <input type="checkbox"/> <i>Optional University Requirement</i> <input type="checkbox"/> <i>Mandatory University Requirement</i> <input type="checkbox"/> <i>Faculty Requirement</i> <input type="checkbox"/> <i>Accessory Course</i> <input type="checkbox"/> <i>Optional Specialty Requirement</i> <input type="checkbox"/> <i>Mandatory Specialization requirement</i>			
<b>Type of Education:</b>	<input checked="" type="checkbox"/> <b>Fully Direct (Fully Face-to-Face Education)</b> <input type="checkbox"/> <b>Integrated Education(2 Face-to-Face + 1Asynchronous)</b> <input type="checkbox"/> <b>Electronic EducationFully (1Asynchronous + 2 Synchronous)</b>			

### Second: Instructor's Information

<b>Course coordinator:</b>		
<b>Name Shorouk Ibraheem:</b>	<b>Office Number 233H:</b>	<b>Email: sibraheem@zu.edu.jo</b>
<b>Instructor</b>		
<b>Name: Shorouk Ibraheem</b>	<b>Office Number:233H</b>	<b>Email:sibraheem@zu.edu.jo</b>
<b>Office Hours:</b>	<i>Sunday(1-2) Monday(11-12) Tuesday(1-2) Wednesday(11-12) Thursday(11-12)</i>	

### **Third: Short Description of the Course**

This course aims to provide students with knowledge of clinical manifestations, complications, goals of pharmacotherapy and patient education of selected CNS, psychiatric, reproductive systems diseases and the palliative care for cancer patients.

In addition, it aims to provide the students the required clinical skills that make them able to develop a therapeutic plan for the patients using their knowledge of clinical pharmacokinetics, pharmacological and pharmacotherapy information about the proper use of medicines as a treatment of the selected diseases.

### **Fourth: Course objectives**

1. Understand the principle, theories and elements of pharmaceutical care (PC) and medication management.
2. Improve the students' ability to use guidelines and evidence based sources to detect, resolve and manage therapy related problems in some diseases.
3. Improve the students' ability to solve problems, presentation and case discussion skills and critical thinking.
4. Improve students communication skills, pharmacotherapy based knowledge and decision making ability and patient oriented communication in clinical situations.

## Fifth: Learning Outcomes

<i>Level descriptor according to (JNQF)</i>	<i>CILOs Code</i>	<i>CILOs</i> If any CILO will not be assessed in the course, mark NA.	<i>Associated PILOs Code</i> Choose one PILO for each CILO*	<i>Assessment method</i> Choose at least two methods	<i>Scores out of 100</i> State the total score identified for each CILO**	<i>Minimum acceptable Score/percentage (%)</i> <i>The percentage should not be less than 50% ***</i>
<b>Knowledge</b>	<b>K1</b>	<ul style="list-style-type: none"> <li>- Recognize the clinical manifestations, pathophysiology, laboratory tests, physical examination, diagnosis, and prognosis of the aforementioned diseases.</li> <li>- Recognize the desired outcomes of drug therapy of the selected diseases.</li> </ul>	P.K1	Mid exam Final exam	15 marks 35 marks	25 marks/ 50%
	<b>K2</b>					
<b>Skills</b>	<b>S1</b>	Identify treatment related problems; explore and prioritize potential strategies and design, implement and evaluate a viable solution to patient condition.	P. S1	Case study Mid exam Final exam	5 marks 12 marks 8 marks	13 marks /52%
	<b>S2</b>	Collect and interpret information from guidelines and databases.	P. S2	Assignment Case study	5 marks 5 marks	5 marks /10%
	<b>S3</b>					
	<b>S4</b>					
<b>Competencies</b>	<b>C1</b>	Design appropriate pharmacologic and	C6	Mid Exam Final Exam	7 marks 8 marks	8 marks / 53.3%

		<b>non-pharmacologic plans for selected diseases.</b>				
	<b>C2</b>	<b>NA</b>				
	<b>C3</b>	<b>NA</b>				
	<b>C4</b>	<b>NA</b>				
	<b>C5</b>	<b>NA</b>				

\*Refer to document (CC-2023-02) and page 2 in document (CC-2023-01)

\*\* Refer to document (CC-2023-05)

**\*\*80% of the students** must achieve the minimum acceptable percentage or higher for each CILO

## Sixth: Learning Source

<b>Designated Book:</b>	<i>Pharmacotherapy: a pathophysiological approach.</i>				
<b>Author:</b>	<i>Print: 11<sup>th</sup> edition</i>	<i>Year: 2020</i>			
<b>Additional Sources: Website:</b>	<ul style="list-style-type: none"> <li>• <i>Pharmacotherapy: principles and practice. Chisholm-Burns MA et al. 4<sup>th</sup> edition. 2016</i></li> <li>• <i>Updates guidelines.</i></li> <li>• <i>Oxford textbook of palliative medicine</i></li> </ul>				
<b>Teaching Type:</b>	<i>Classroom</i> <input checked="" type="checkbox"/>	<i>Laboratory</i> <input type="checkbox"/>	<i>Workshop</i> <input type="checkbox"/>	<i>Teams</i> <input type="checkbox"/>	<i>Moodle</i> <input checked="" type="checkbox"/>

## Seventh: Course Structure

Lecture Date	Topics	Teaching Procedures*	Teaching Methods**	Covered CILOs	References***
5, March 2023	<b>Outline explanation and assessment method</b>	Direct	Direct teaching, teaching through discussion	K1	
March, 7 2023	<b>Cancer Palliative care</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 77, P 2813-2891 Dipiro Chapter No. 118, P 4942-5003
12 March, 2023	<b>Cancer Palliative care</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 77, P 2813-2891 Dipiro Chapter No. 118, P 4942-5003
14, March 2023	<b>Cancer Palliative care</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 77, P 2813-2891 Dipiro Chapter No. 118, P 4942-5003
, 19 March 2023	<b>Cancer Palliative care</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 77, P 2813-2891 Dipiro Chapter No. 118, P



					4942-5003
21 March, 2023	<b>Cancer Palliative care</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 77, P 2813-2891 Dipiro Chapter No. 118, P 4942-5003
26 March, 2023	<b>Cancer Palliative care</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 77, P 2813-2891 Dipiro Chapter No. 118, P 4942-5003
28 March, 2023	<b>Central nervous system: Epilepsy</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 73, P 2602-2685
, April 2 2023	<b>Central nervous system: Epilepsy</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 73, P 2602-2685
, April 4 2023	<b>Central nervous system: Epilepsy</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 73, P 2602-2685
, April 9 2023	<b>Central nervous system: Alzheimer's Disease</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 71, P 2481-2535
, April 11 2023	<b>Central nervous system: Alzheimer's Disease</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 71, P 2481-2535
, April 16 2023	<b>Central nervous system: Alzheimer's Disease</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 71, P 2481-2535
, April 18 2023	<b>Central nervous system: Parkinson Disease</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 76, P 2772-2812
, April 30 2023	<b>Central nervous system: Parkinson Disease</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 76, P 2772-2812
, May 2 2023	<b>Central nervous system: Parkinson Disease</b>	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 76, P 2772-2812

,May 2023 7	<b>Psychiatric Disorders:</b> Depression	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 85, P 3269- 3336
, May 9 2023	<b>Psychiatric Disorders:</b> Depression	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 85, P 3269- 3336
, May 14 2023	<b>Psychiatric Disorders:</b> Depression	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 85, P 3269- 3336
, May 16 2023	<b>Psychiatric Disorders:</b> Anxiety	Direct	Direct teaching, teaching through discussion	K1,S1,S2	Dipiro Chapter No. 87, P 3383- 3441
, May 21 2023	<b>Psychiatric Disorders:</b> Anxiety	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 87, P 3383- 3441
, May 23 2023	<b>Psychiatric Disorders:</b> Sleep disorder and insomnia	Direct	Direct teaching, teaching through discussion	K1,S1,S2,	Dipiro Chapter No. 89, P 3483- 3521
, May 28 2023	<b>Psychiatric Disorders:</b> Sleep disorder and insomnia	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 89, P 3483- 3521
, May 30 2023	<b>Reproductive system:</b> Contraception	Direct	Direct teaching, teaching through discussion	K1,S1,S2,C1,	Dipiro Chapter No. 18, P 183- 237
,June 1 2023	<b>Reproductive system:</b> STDs	Direct	Direct teaching, teaching through discussion	K1,S1,S2, C1	
	<b>Final exam week</b>				

Education procedures: (Direct, synchronous, asynchronous). \* \* Refer to document (CC-2023-04) \*\*\*Reference: Pages of the book, number of the chapter, recorded lecture, video....)

## Eighth: Assessment methods

Methods	Fully Electronic Education	Integrated Teaching	Direct Teaching	Specific Course Output to be measured										
				*State the score identified for each CILO for each method of assessment out of 100 **If any CILO will not be assessed in the course, mark NA.										
				K1	K2	S1	S2	S3	S4	C1	C2	C3	C4	C5
Mid-term Exam			35	15		12				8				
Final Exam			50	35		7				8				
Case studies •			10			5	5							
assignment •			5				5							
*														
<b>Total out of 100</b>			100	50		24	10			16				

\* Refer to document (CC-2023-03)



## Ninth: Course Policies

- Meeting the deadline for the lecture.
- Commitment to interaction and participation.
- Interactive lectures will be given through a platform (MS Teams).
- Duties and tests will be given through a platform(Moodle).
- Commitment to the right appearance with the proper background in front of the camera.
- University regulations for attendance and absence from lectures and examinations are in force.
- Academic Integrity: According to university regulations and instructions, fraud or moral impersonation is unacceptable and punishable.

Approval	Name	Date	Signature
Head of Department			
Faculty Dean			