

<b>Faculty: Pharmacy</b>	
<b>Department: Clinical Pharmacy</b>	<b>Program: Pharmacy</b>
<b>Semester: Second</b>	<b>Academic year: 2022- 2023</b>



## Course Plan

### First: Course Information

<b>Course Name:</b>	<i>Pharmacy Practice and care (1101522)</i>	<b>Credit Hours: 2 hours</b>
<b>Prerequisite:</b> <i>Pharmacy training (1101500)</i>	<b>Class Number: 1</b>	<b>Lecture Time: Sunday, Tuesday (10-11)</b>
<b>Course Nature:</b>	<input checked="" type="checkbox"/> <b>Mandatory Faculty Requirement</b> <input type="checkbox"/> <b>Optional University Requirement</b> <input type="checkbox"/> <b>Mandatory University Requirement</b> <input type="checkbox"/> <b>Faculty Requirement</b> <input type="checkbox"/> <b>Ancillary Course</b> <input type="checkbox"/> <b>Optional Specialty Requirement</b> <input type="checkbox"/> <b>Mandatory Specialization requirement</b>	
<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 + 1 Asynchronous)</b> <input type="checkbox"/> <b>Electronic Education Fully (1 Asynchronous + 2 Synchronous)</b>	

### Second: Instructor's Information

<b>Name: Dr. Hamza Alhamad</b>	<b>Academic Rank: Assistant Professor</b>	
<b>Office Number: 219 D</b>	<b>Phone Number: 1441</b>	<b>Email: halhamad@zu.edu.jo</b>
<b>Office Hours:</b>	<b>Sunday (9-10) Monday (11-12) Tuesday (9-10) Wednesday (11-12) Thursday (9-10)</b>	

### Third: Short Description of the Course

This course of two parts. The first part focuses on details pharmacy practices in different settings such community pharmacy, hospital pharmacy, and clinical pharmacy. Also, it include topics such as medication errors and communicational and leadership skills. The second part of this course discusses the laws, regulations & ethics of pharmacy profession; the role of Jordanian Pharmaceutical Association in pharmacy practice in Jordan, the moral principles of pharmacy management, and the legal and ethical aspects of communication and relationships with patients and health care team.

## Fourth: Learning Outcomes

<i>Level descriptor according to (JNQF)</i>	<i>CILOs Code</i>	<i>CILOs</i> If any CLO 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>	Comprehend laws, regulations & ethics, and pharmacy practice concepts that govern the pharmacy profession.	P.K1	Midterm Exam Final Exam Quizzes	4 3 1	4 (50%)
	<b>K2</b>	Recall useful community pharmacy practice trends and strategies including prescription reading, revision, dispensing, patient counseling, and detection of medication-related problems including adverse drug reactions, drug interactions, and medication errors. Describe and outline health issues relevant to the community, including measures for the prevention of disease, health promotion, public education on the safe use of medicines, and proper disposal of used medical devices.	P.K2	Midterm Exam Final Exam Quizzes	4 7 1	6 (50%)

<b>Skills</b>	<b>S1</b>	Respond to patient needs such as prescription dispensing, patient counseling, OTC prescribing, provision of drug information, reporting of adverse reactions to medicines and medicine utilization review as well as measuring outcomes in support of evidence-based practice, in addition to health screening and promotion.	P.S1	Midterm Exam	8	12 (50%)
				Final Exam	12	
				Quizzes	4	
	<b>S2</b>	Fostering evidence-based medicine techniques to provide patient-centered care as the medication expert (collect and interpret evidence, prioritize, formulate assessments and recommendations, implement, monitor, adjust plans, and document activities).  Analyze patients' demographics, medications, and diseases and design evidence-based pharmaceutical care plan	P.S2	Midterm Exam	9	13 (50%)
				Final Exam	13	
				Quizzes	4	
<b>Competencies</b>	<b>C1</b>	Analyze and strategically evaluate evidence-based information needed in clinical decision making in pharmacy practice.	P.C1	Midterm Exam	4	5 (50%)
				Final Exam	3	
				Quizzes	3	

	<b>C2</b>	Suggest a hypothetical new vision of pharmacy practice in Jordan, discuss and plan the new pharmacy practice objectives, implementation program, and control measures such as Medicine Use Review (MUR), New Medicine Service (NMR), and Medication Reconciliation (MR). Fostering interprofessional skills, teamwork and spirit through group work and enhancing leadership skills such as motivating, inspiring, and empowering other team members, and coordinating pharmaceutical care.	P.C2	Midterm Exam	3	5 (50%)
				Final Exam	6	
				Quizzes	1	
	<b>C3</b>	Enhance patient pharmacist communicational skills by understanding the patient's complete illness experience, including social, psychological, and biomedical factors. Promote an equitable relationship with all patients, Create a “therapeutic alliance,” . Generate solutions for specific pharmacy practice conditions, legal and ethical dilemmas facing pharmacists, and pharmacy practice in Jordan and analyze and evaluate evidence-based ethical and legal (case-based cenario) information needed in pharmacy practice.	P.C3	Midterm Exam	3	5 (50%)
				Final Exam	6	
				Quizzes	1	

\*For each CILO, the PILO could be the same or different

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

## Fifth: Learning Source

<b>Designated Textbook:</b>	Developing pharmacy practice A focus on patient care		
<b>Author:</b> Karin Wieden mayer	<b>Edition:</b> 2006 edition	<b>Year:</b> 2006	
<b>References</b>	<ul style="list-style-type: none"> <li>British National Formulary (BNF) 75, Authors: British, Royal Pharmaceutical Society of Great Britain.</li> <li>The Pharmacist Guide to Implementing Pharmaceutical Care. Filipa Alves da Costa • J. W. Foppe van Mil Aldo Alvarez-Risco. 2019.</li> <li>A Pathophysiological Approach, ed. DiPiro, 10th edition, 2016. McGraw-Hill Medical. ISBN-13: 9781259587481</li> <li>Pharmacy Practice- Books, Edited by Kevin Taylor, Geoffrey Harding.</li> <li>Boh's Pharmacy Practice Manual: A Guide to the Clinical Experience. FOURTH EDITION</li> </ul>		
<b>Additional Sources:</b> <b>Website:</b>	NA		
<b>Teaching Type:</b>	<b>Classroom</b> <input checked="" type="checkbox"/> <b>Laboratory</b> <input type="checkbox"/> <b>Workshop</b> <input type="checkbox"/> <b>MS Teams</b> <input checked="" type="checkbox"/> <b>Moodle</b> <input checked="" type="checkbox"/>		

## Sixth: Course Structure

Lecture Date	Learning Outcome (Covered CILOs)	Topics	Learning *Procedures	Teaching ***Methods	References***
05/03/2023	-----	Outline explanation and assessment method	Direct	Lecture	Course outline
07/03/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Introduction to pharmacy practice part 1	Direct	Lecture	Supplem. Chapter 1 Pages 1-10
12/03/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Introduction to pharmacy practice part 2	Direct	Lecture	Supplem. Chapter 2 Pages 11-24
14/03/2023	K1,2,3	Introduction to	Direct	Lecture	Supplem. Chapter 3

	S1,2,3,4 C1,2,3,4, 5	pharmacy practice part 3			Pages 25-32
19/03/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Pharmacists in the health care team: a policy perspective Part 1	Direct	Lecture	Text book Chapter 1 Pages 1-6
21/03/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Pharmacists in the health care team: a policy perspective Part 2	Direct	Lecture	Text book Chapter 1 Pages 7-13
26/03/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Pharmacists in the health care team: a practice perspective Part 1	Direct	Lecture	Text book Chapter 1 Pages 14-20
28/03/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Pharmacists in the health care team: a practice perspective Part 2	Direct	Lecture	Text book Chapter 2 Pages 23-39
02/04/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Community pharmacy setting & services Part 1	Direct	Lecture	Text book Chapter 2 Pages 40-55
04/04/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Community pharmacy setting & services Part 2	Direct	Lecture	Text book Chapter 1 Pages 56-67
09/04/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Community pharmacy setting & services Part 3	Direct	Lecture	Supplem. Chapter 4 Pages 53-61
<b>Midterm Exam</b>					
11/04/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Hospital pharmacy setting & services Part 1	Direct	Lecture	Supplem. Chapter 5 Pages 62-70
16/04/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Hospital pharmacy setting & services Part 2	Direct	Lecture	Supplem. Chapter 6 Pages 71-92
18/04/2023	K1,2,3 S1,2,3,4	Hospital pharmacy setting	Direct	Lecture	Supplem. Chapter 3

	C1,2,3,4, 5	& services Part 3			Pages 43-52
23/04/2023 Holiday	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Clinical pharmacy services Part 1	Direct	Lecture	Supplem. Chapter 11 Pages 148- 155
25/04/2023 Holiday	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Clinical pharmacy services Part 2	Direct	Lecture	Supplem. Chapter 11 Pages 156- 168
30/04/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Preventing and managing Medication Errors Part 1	Direct	Lecture	Supplem. Chapter 14 Pages 454- 470
02/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Preventing and managing Medication Errors Part 2	Direct	Lecture	Supplem. Chapter 14 Pages 471- 484
07/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Preventing and managing Medication Errors Part 3	Direct	Lecture	Supplem. Chapter 14 Pages 485- 508
09/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Communication and leadership skills for pharmacist and leadership Part 1	Direct	Lecture	Supplem. Chapter 1 Pages 1-10
14/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Communication and leadership skills for pharmacist and leadership Part 2	Direct	Lecture	Supplem. Chapter 2 Pages 11-22
16/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Communication and leadership skills for pharmacist and leadership Part 3/Practice session	Direct	Lecture	Supplem. Chapter 3 Pages 23-32
21/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Ethics in Pharmacy Practice Part 1	Direct	Lecture	Supplem. Chapter 3 Pages 14-28
23/05/2023	K1,2,3	Ethics in	Direct	Lecture	Supplem. Chapter 6

	S1,2,3,4 C1,2,3,4, 5	Pharmacy Practice Part 2			Pages 59-68
28/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Patient counseling, education, and coaching Part 1	Direct	Lecture	Supplem. Chapter 3 Pages 29-48
30/05/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Patient counseling, education, and coaching Part 2	Direct	Lecture	Supplem. Chapter 1 Pages 1-10
04/06/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Medication compliance, Adherence, and concordance Part 1	Direct	Lecture	Supplem Chapter 1 Pages 11-20
06/06/2023	K1,2,3 S1,2,3,4 C1,2,3,4, 5	Medication compliance, Adherence, and concordance Part 2	Direct	Lecture	Supplem Chapter 3 Pages 30-68
<b>Final Exam</b>					

Education procedures: (Direct, synchronous, asynchronous). \* \* Teaching methods: Lecture, video.....). \* \* Reference: Pages of the book, recorded lecture, video....)



## Seventh: 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	K3	S1	S2	S3	S4	C1	C2	C3	C4	C5
First Exam															
Second Exam															
Mid-term Exam			██████	4	4		8	9			4	3	3		
Final Exam			██████	3	7		12	13			3	6	6		
Quizzes			██████	1	1		4	4			3	1	1		
Home works															
<b>Total out of 100</b>				<b>20</b>			<b>50</b>				<b>30</b>				

## **Eighth: 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 in front of the camera with the proper background.
- University regulations for attendance and absence from lectures and examinations are in force.
- Academic Integrity: Fraud or moral impersonation are unacceptable and are punishable according to university regulations and instructions.

<b>Approval</b>	<b>Name</b>	<b>Date</b>	<b>Signature</b>
<b>Head of Department</b>			
<b>Faculty Dean</b>			