

<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>Advanced Pharmacy Practice and Care</i>		<b>Course No. (1101580)</b>		
<b>Credit Hours:</b>	2	<i>Theoretical</i>	2	<i>Practical</i>	0
<b>Prerequisite:</b> <i>Pharmacy training (1101500)</i>	<i>Class Number: 1</i>		<i>Lecture Time: Sunday, Tuesday (14-15)</i>		
<b>Level in JNQF</b>	7				
<b>Course Nature:</b>	<input checked="" 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>Ancillary Course</i> <input type="checkbox"/> <i>Optional Specialty Requirement</i> <input type="checkbox"/> <i>Mandatory Specialization requirement</i>				
<b>Type of Education:</b>	<input type="checkbox"/> <i>Fully Direct (Fully Face-to-Face Education)</i> <input checked="" type="checkbox"/> <i>Blended Education (2 Face-to-Face + 1 Asynchronous)</i> <input type="checkbox"/> <i>Electronic Education Fully (1 Asynchronous + 2 Synchronous)</i>				

### Second: Instructor's Information

<b>Course coordinator</b>		
<b>Name:</b> <i>Dr. Hamza Alhamad</i>	<b>Office Number:</b> <i>221 D</i>	<b>Email:</b> <i>halhamad@zu.edu.jo</i>
<b>Instructor</b>		
<b>Name:</b> <i>Dr. Hamza Alhamad</i>	<b>Office Number:</b> <i>221 D</i>	<b>Email:</b> <i>halhamad@zu.edu.jo</i>
<b>Office Hours:</b>	<i>Sunday (9-10) Monday (11-12) Tuesday (9-10) Wednesday (11-12) Thursday (9-10)</i>	

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

This course of two parts. The first part details pharmacy practices in different settings, such as community pharmacies, hospital pharmacies, and clinical pharmacies. Also, it includes topics such as medication errors, clinical drug monitoring, and patient safety and professionalism and communication, providing drug information, and leadership skills. The second part of this course discusses the laws, regulations & ethics of the pharmacy profession, the role of the 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 the health care team.

### **Fourth: Course objectives**

1. To have the expertise and knowledge needed in different pharmaceutical care settings in hospitals, inpatient and outpatient pharmacies, and drug information centers.
2. To have continuous self-education of new trends emerging in pharmacotherapy through different available resources.
3. To adhere to the code of ethics in clinical pharmacy practice.
4. To work with other medical staff members, including physicians and nurses.
5. To have the leadership skills to supervise other patient-centered pharmaceutical care service members.
6. To be able to provide drug information services.
7. To have the skills of clinical drug monitoring.

## Fifth: 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	3  3  2	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	3  7  2	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 Final Exam Quizzes Homework	7 12 3 2	12 (50%)
	<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 Final Exam Quizzes Homework	8 13 3 2	13 (50%)
<b>Competencies</b>	<b>C1</b>	Analyze and strategically and professionally evaluate evidence-based information needed in clinical decision making in pharmacy practice.	P.C1	Midterm Exam Final Exam Quizzes Homework	3 3 2 1	5 (50%)

	<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.C21	Midterm Exam Final Exam Quizzes	3 6 1	5 (50%)
	<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 Final Exam Quizzes	3 6 1	5 (50%)

\*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

## Sixth: Learning Source

<b>Designated Book:</b>	The Pharmacist Guide to Implementing Pharmaceutical Care	
<b>Author:</b> Filipa Alves da Costa • J. W. Foppe van Mil Aldo Alvarez-Risco	<b>Print:</b> <b>1<sup>st</sup> edition</b>	<b>Year:</b> <b>Year: 2019</b>
<b>Additional Sources:</b> <b>Website:</b>	<ul style="list-style-type: none"> <li>British National Formulary (BNF) 75, Authors: British, Royal Pharmaceutical Society of Great Britain.</li> <li>Developing pharmacy practice A focus on patient care. Karin Wiedenmayer. 2006.</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>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 type="checkbox"/> <b>Moodle</b> <input checked="" type="checkbox"/>	

## Seventh: Course Structure

Lecture Date	Topics	Teaching Procedures*	Teaching Methods**	Covered CILOs	References***
05/03/2023	Outline explanation  Professionalism in pharmacy part 1	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 1 Pages 1-20
07/03/2023	Professionalism in pharmacy part 2	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 1 Pages 1-20
12/03/2023	Ethical Dilemma in the pharmacy profession Asynchronous part 1 video (8 minutes) Professionalism in Pharmacy Asynchronous part 2 (35 minutes)	Asynchronous	PPTs and video refer to the model for direction	K1,2 S1,2,3,4 C1,2,3,4,5	Video and ASHP Statement on Professionalism (refer to model)
14/03/2023	Patient Safety and	Face-to-Face	<b>Quiz 1</b> <b>(Professionalism in</b>	K1,2 S1,2,3,4	Chapter 2 Pages 21-30

	medication error part 1		Pharmacy) 14/03/2023 (first 5-10 minutes of the Patient Safety and medication error lecture)  PPTs and Group Discussion	C1,2,3,4,5	
19/03/2023	Patient Safety and medication error part 2	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 2 Pages 21-30
21/03/2023	Patient Safety and Medication error Asynchronous part 1 And Patient safety Asynchronous video part 2	Asynchronous	PPTs and video refer to the model for direction	K1,2 S1,2,3,4 C1,2,3,4,5	Video and Patient safety and Medication error (refer to model)
26/03/2023	Patient Consultation in the Cycle of Patient Care part 1	Face-to-Face	Quiz 2 (Patient Safety and medication error) 26/03/2023 (first 5-10 minutes of the Patient Consultation in the Cycle of Patient Care lecture)  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 3 Pages 69-85
28/03/2023	Patient Consultation in the Cycle of Patient Care part 2	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 3 Pages 69-85
02/04/2023	Patient Consultation in the Cycle of Patient Care - Communication skills Asynchronous (2023/04/02)	Asynchronous	PPTs (refer to the model for direction)	K1,2 S1,2,3,4 C1,2,3,4,5	Patient Consultation in the Cycle of Patient Care - Communication skills (refer to model)



04/04/2023	Providing Drug Information part 1	Face-to-Face	Quiz 3 (Patient Consultation in the Cycle of Patient Care -Communication skills) 04/04/2023 (first 5-10 minutes of the Providing Drug Information 1 lecture)  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 4 Pages 86-133
09/04/2023	Providing Drug Information part 2	Face-to-Face	PPTs and Group Discussion  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 4 Pages 86-133
<b>Midterm Exam</b>					
11/04/2023	ASHP Guidelines on the Pharmacist's Role in Providing Drug Information Asynchronous Part 1 Providing Drug Information - Patient Centred Care part 2 video	Asynchronous	Pdf and video (refer to the model for directions)	K1,2 S1,2,3,4 C1,2,3,4,5	ASHP Guidelines on the Pharmacist's Role in Providing Drug Information Asynchronous Part 1 Providing Drug Information - Patient Centred Care part 2 video (refer to model)
16/04/2023	Providing Drug Information part 3	Face-to-Face	Quiz 4 (Quiz 4 providing drug information service (16/04/2023) (first 5-10 minutes of the Providing Drug Information 3 lecture)	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 4 Pages 86-133
18/04/2023	Drug Administration Part 1	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 9 Pages 325-359
23/04/2023	Routes of Drug Administration	Asynchronous	Pdf (refer to the model for directions)	K1,2 S1,2,3,4 C1,2,3,4,5	Routes of Drug Administration (refer to model)

25/04/2023 Holiday	Drug Administration Part 2	Face-to-Face	<b>Homework 1 (Drug Administration to be delivered during lecture time (25/04/2023) only</b>  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 9 Pages 325-359
30/04/2023	Drug Administration Part 3	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 9 Pages 325-359
02/05/2023	Medicines administration understanding routes of administration Asynchronous.	Asynchronous	Pdf (refer to the model for directions)	K1,2 S1,2,3,4 C1,2,3,4,5	Medicines administration understanding routes of administration (refer to model)
07/05/2023	Clinical drug monitoring Part 1	Face-to-Face	<b>Homework 2 (Drug Administration to be delivered during lecture time (07/05/2023) only</b>  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 15 Pages 484-507
09/05/2023	Clinical drug monitoring Part 2	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 15 Pages 484-507
14/05/2023	Role of the clinician in therapeutic drug monitoring-practice Asynchronous	Asynchronous	Pdf (refer to the model for directions)	K1,2 S1,2,3,4 C1,2,3,4,5	Role of the clinician in therapeutic drug monitoring-practice (refer to model)
16/05/2023	Clinical drug monitoring Part 3	Face-to-Face	<b>Homework 3 (clinical drug monitoring to be delivered during lecture time 16/05/2023) only</b>  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 15 Pages 484-507

21/05/2023	Pharmacy practice of Antibiotics, Antivirals, and Infection part 1	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 16 Pages 508-537
23/05/2023	Infection and Antimicrobial stewardship Asynchronous	Asynchronous	Pdf (refer to the model for directions)	K1,2 S1,2,3,4 C1,2,3,4,5	Infection and Antimicrobial stewardship Asynchronous (refer to model)
28/05/2023	Pharmacy practice of Antibiotics, Antivirals, and Infection Part 2	Face-to-Face	<b>Homework 4 (Infection and Antimicrobial Stewardship to be delivered during lecture time 28/05/2023) only</b>  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 16 Pages 508-537
30/05/2023	Pharmacy practice of Antibiotics, Antivirals, and Infection part 3	Face-to-Face	PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 16 Pages 508-537
04/06/2023	Principles of Antimicrobial Stewardship	Asynchronous	Pdf (refer to the model for directions)	K1,2 S1,2,3,4 C1,2,3,4,5	Principles of Antimicrobial Stewardship (refer to model)
06/06/2023	Pharmacy practice of Antibiotics, Antivirals, and Infection part 4	Face-to-Face	<b>Homework 5 (Principles of Antimicrobial Stewardship to be delivered during lecture time 06/06/2023) only</b>  PPTs and Group Discussion	K1,2 S1,2,3,4 C1,2,3,4,5	Chapter 16 Pages 508-537
<b>Final Exam</b>					

Education procedures: (Direct, synchronous, asynchronous). \*\* Teaching methods: Lecture, video.....). \*\* Reference: Pages of the book, 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	K3	S1	S2	S3	S4	C1	C2	C3	C4	C5
First Exam															
Second Exam															
Mid-term Exam				3	3		7	8			3	3	3		
Final Exam				3	7		12	13			3	6	6		
Quizzes				2	2		3	3			2	1	1		
Home works							2	2			2				
<b>Total out of 100</b>				<b>20</b>			<b>50</b>				<b>30</b>				

## 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	Dr. Hamza Alhamad	2-4-2023	
Faculty Dean	Dr. Ahlam Al Kilani	2-4-2023	