

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University for Medicals and Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of **Pharmaceutical Care-I**

Course No. (02.01.217)

2022

I. Course Identification and General Information:

1	Course Title:	Pharmaceutical Care-I			
2	Course Code & Number:	02.01.217			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Seminar	
		1		2	--
4	Study Level/ Semester at which this Course is offered:	4 Level / 1 st Semester			
5	Pre –Requisite (if any):	Pharmacology -III			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Clinical Pharmacy			
12	Prepared by:	Dr. Ali Alyahawi			
13	Date of Approval:	2022			

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi		Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

II. Course Description:

The course aims to improve students' knowledge and skills of patient-centred care throughout practicing the pharmaceutical care in different patients settings. The course content introduces students to their professional responsibilities as Pharm D. It is directed toward improving the students skills to use the theoretical and basic principles of pharmacology, therapeutic and clinical courses to identify and resolve different treatment related problems.

III. Course Intended Learning Outcomes (CILOs)

Referenced PILOs

Learning out of program

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

a1	Define the basic principles of pharmaceutical care practice	A1
a2	Describe the different categories of Treatment-related problems and appropriate interventions.	A5

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

b1	Construct a plan of pharmaceutical care for a different patient conditions	B4
b2	Compare and contrast between the drug related problems based on their appropriate recommendations.	B5

C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

c1	Apply the rational pharmacotherapy regimens based on patient condition and provide a references for your recommendations.	C4
c2	Continually evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	C3, C5

D. Transferable Skills: Upon successful completion of the course, students will be able to:

d1	Communicate effectively with patients and other healthcare professionals	D1
d2	Efficiently search in the medical journal databases for updated professional medical information	D2, D3

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(a) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1- Define the basic principles of pharmaceutical care practice	- Lectures - Assignment - Office hours - Seminar	- Exam - Assignment - Oral presentation
a2- Describe the different categories of Treatment-related problems and appropriate interventions.	- Lectures - Assignment - Office hours - Role plays - Case Presentation - Seminar	- Exam - Assignment - Oral presentation

(b) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1- Construct a plan of pharmaceutical care for a different patient conditions	- Lectures - Assignment - Office hours - Role plays - Watching videos - Case Presentation - Seminar	- Exam - Assignment - Oral presentation
b2- Compare and contrast between the drug related problems based on their appropriate recommendations.	- Lectures - Assignment - Office hours - Role plays - Case Presentation - Seminar	- Exam - Assignment - Oral presentation

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(c) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
C1- Apply the rational pharmacotherapy regimens based on patient condition and provide a references for your recommendations.	- Lectures - Assignment - Office hours - Case Presentation - Seminar	- Exam - Assignment - Oral presentation
C2- Continually evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	- Lectures - Assignment - Office hours - Case Presentation - Seminar	- Exam - Assignment - Oral presentation

(d) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1-Communicate effectively with patients and other healthcare professionals	- Role plays - Case Presentation - Seminar	- Oral presentation
d2- Efficiently search in the medical journal databases for updated professional medical information	- Lectures - Assignment - Office hours - Case Presentation - Seminar	- Exam - Assignment - Oral presentation

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IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	contact hours
1	Principles and Concepts of Pharmaceutical Care	a 1, a2	- Introduction to pharmaceutical care	1	2
			- Overview of the pharmaceutical care process	1	2
			- The needs for pharmaceutical care	1	2
			- Barriers to pharmaceutical care	1	2
			- Becoming a practitioner : the tools you need	1	2
			- Providing drug information in pharmacy practice	1	2
			- Collecting patient data base and medical history	1	2
2	Midterm Exam			1	2
3	The Assessment of drug related needs	a 2	- The Therapeutic Relationship - Indication, Effectiveness, Safety, and Adherence) - Stating Drug Related Problems.	1	2
4	Classifications & Causes of Drug related problems	a 2, b2	- Strand and colleagues classification System - The seven categories of drug related problems - Drug therapy problem identification - Categories and Common Causes of Drug Related Problems	2	4
5	Adverse drug reactions	a 2, b1, b2, c1, c2, 1, d2	- Types of Adverse drug reactions - Medications Most Frequently		

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			Involved in Adverse Drug Reactions - Terms Used to Describe Adverse Drug Reactions - Managing Medications: Establishing the Safety of the Drug Regimen	1	2
6	Drug-Drug interactions	a 2, b1, b2, c1, c2, d1, d2	- Medications Involved in Drug Interactions Requiring Interventions - Managing Drug interactions	1	2
7	Components of Pharmaceutical Care Plan	a 1, a2, b1, b2	- Goals - Interventions - Documentation and consult note - Monitoring and follow up	2	4
8	Final Exam	a 2, b1, b2, c1, c2		1	2
Number of Weeks /and Units Per Semester				16	32

B. Case Studies and Practical Aspect:

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	NA			
Number of Weeks /and Units Per Semester				

C. Tutorial Aspect: (ان وجدت)

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	NA			
Number of Weeks /and Units Per Semester				

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V. Teaching Strategies of the Course:

- Lectures
- Assignment
- Office hours
- Role plays
- Watching videos
- Case Presentation
- Seminar

VI. Assessment Methods of the Course:

- Assignments
- Exam
- Quiz

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Describe some advantages a to pharmaceutical care practice	a 1	Week 3	5
2	Assignment 2: Describe Examples of treatment related problems for CVD	a 2, b2	Week 13	5
Total				10

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	Week 6, 12	10	10 %	a 1, b2
2	Case Presentation	Week 2-14	10	10 %	a 1, a2, b1, b2, c1, c2, d1, d2
3	Midterm Exam	Week 8	10	10 %	a 1, a2, b1, b2, c1, c2, d2
4	Final Exam	Week 16	70	70 %	a 1, a2, b1, b2, c1, c2, d2
Total			100	100%	

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Dr. Ali Alyahawi		Dr. -----		

IX. Learning Resources:

- Written in the following order: (Author - Year of publication – Title – Edition – Place of publication – Publisher).

1- Required Textbook(s) (maximum two).

1. Langely CA, Belcher D, 2009 , Applied Pharmaceutical Practice. 1st ed. Pharmaceutical Press. London. ISBN 978 0 85369 746 6
2. David M. Angaran, Karen Whalen, 2015. Medication Therapy Management: A Comprehensive Approach., 2nd edition, ISBN: 978-0-07-184869-5

2- Essential References.

1. Cipolle, RJ, Strand, LM, & Morley, PC, 2012. Pharmaceutical Care Practice: The Patient-Centered Approach to Medication Management Services (3rd edition). ISBN-13: 0071756389
2. Robert S. Beardsley, Carole L. Kimberlin, William N. Tindall, 2011, Communication Skills in Pharmacy Practice: A Practical Guide for Students and Practitioners.. ISBN-13: 978-1608316

3- Electronic Materials and Web Sites etc.

- www.medlineplus.com (for patient counseling).
- www.guidelines.gov (International guidelines)
- www.drugs.com (for drug-drug interactions)
- www.pubmed.com (Clinical trials).

X. Course Policies: (Based on the Uniform Students' By law (2007))

Class Attendance:

- 1 Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.

Tardiness:

- 2 A student will be considered late if he/she is not in class after 10 minutes of the start time of class.

Exam Attendance/Punctuality:

- 3 No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.

Assignments & Projects:

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi		Dr. -----		

	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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Dr. Ali Alyahawi		Dr. -----		

I. Information about Faculty Member Responsible for the Course:

Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours					
Location & Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU

II. Course Identification and General Information:

1	Course Title:	Pharmaceutical Care-I			
2	Course Code & Number:	02.01.217			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Seminar	
		1		2	--
4	Study Level/ Semester at which this Course is offered:	4 Level / 1st Semester			
5	Pre –Requisite (if any):	Pharmacology -III			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Clinical Pharmacy & Pharm. D.			
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IV. Course Intended Learning Outcomes (CILOs) :

Upon successful completion of the Course, student will be able to:

A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| a1 | Define the basic principles of pharmaceutical care practice |
| a2 | Describe the different categories of Treatment-related problems and appropriate interventions. |

B. Intellectual Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| b1 | Construct a plan of pharmaceutical care for a different patient conditions |
| b2 | Compare and contrast between the drug related problems based on their appropriate recommendations. |

C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|---|
| c1 | Apply the rational pharmacotherapy regimens based on patient condition and provide a references for your recommendations. |
| c2 | Continually evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan |

D. Transferable Skills: Upon successful completion of the course, students will be able to:

- | | |
|----|--|
| d1 | Communicate effectively with patients and other healthcare professionals |
| d2 | Efficiently search in the medical journal databases for updated professional medical information |

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V. Course Contents:

A. Theoretical Aspect:

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		- The needs for pharmaceutical care	1	2
		- Barriers to pharmaceutical care	1	2
		- Becoming a practitioner : the tools you need	1	2
		- Providing drug information in pharmacy practice	1	2
		- Collecting patient data base and medical history	1	2
2	Midterm Exam		1	2
3	The Assessment of drug related needs	- The Therapeutic Relationship - Indication, Effectiveness, Safety and Adherence) - Stating Drug Related Problems.	1	2
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5	Adverse drug reactions	- Types of Adverse drug reactions - Medications Most Frequently Involved in Adverse Drug Reactions - Terms Used to Describe Adverse Drug Reactions - Managing Medications: Establishing the Safety of the Drug Regimen	1	2
6	Drug-Drug interactions	- Medications Involved in Drug Interactions Requiring Interventions - Managing Drug interactions	1	2
7	Components of Pharmaceutical Care Plan	- Goals - Interventions - Documentation and consult note - Monitoring and follow up	2	4
8	Final Exam		1	2
Number of Weeks /and Units Per Semester			16	32

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VI. Teaching Strategies of the Course:

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