

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 **Case Studies in Pharmacotherapy I:**
“case-based seminars”

Course No. (02.01.265)

2021/2022

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

I. Course Identification and General Information:

1	Course Title:	Case Studies in Pharmacotherapy I: “case-based seminars”		
2	Course Code & Number:	02.01.265		
3	Credit Hours:	Credit Hours	Theory Hours Lecture Seminar	Lab. Hours
		1	--	2 --
4	Study Level/ Semester at which this Course is offered:	4 Level / 1 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 Medical sciences		
12	Prepared by:	Dr. Ali Alyahawi		
13	Date of Approval:	2022		

II. Course Description:

The course is designed to integrate the course of pharmacy practice and pharmacotherapy (I) by seminar discussion for selected clinical cases of cardiovascular and infectious diseases. The course content will emphasize on the comprehensive delivery of pharmaceutical care (pharmacokinetics & pharmacodynamics, drug/drug interactions, dosage calculations, adverse effects, treatment algorithm, goals of therapy & patient education) for selected cases discussion.

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III. Course Intended Learning Outcomes (CILOs)		Referenced PILOs Program Outcomes
A. Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
a1	Describe pathophysiology, clinical presentations, and complications by seminar discussion for selected clinical cases of cardiovascular and infectious diseases.	A1
a2	Define the rational medication use and goals of therapy by seminar discussion for selected clinical cases of cardiovascular and infectious diseases.	A5
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b1	Interpret clinical and Laboratory findings by seminar discussion for selected clinical cases of cardiovascular and infectious diseases	B4, B5
b2	Design an appropriate pharmaceutical care plan to selected cases discussion of cardiovascular and infectious diseases.	B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c1	Choose the rational pharmacotherapy regimens and monitoring parameters based on patient conditions	C3, C4
c2	Provide effective advices of life style and drug compliance to patients in order to improve targeted outcomes.	C3, C4
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d1	Search effectively for updated medical information from professional medical references.	D2, D3.
d2	Develop students' presentation skills	D1

(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
a1	Describe pathophysiology by seminar discussion for selected clinical cases of cardiovascular and infectious diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz

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a2	Define the rational medication use by seminar discussion for selected clinical cases of cardiovascular and infectious diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
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(B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching Strategies and Assessment Methods:

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
b1	Interpret clinical and Laboratory findings by seminar discussion for selected clinical cases of cardiovascular and infectious diseases	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
b2	Design an appropriate pharmaceutical care plan to selected cases discussion of cardiovascular and infectious diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz

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

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
c1	Choose the rational pharmacotherapy regimens and monitoring parameters based on patient conditions	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
c2	Provide effective advices of life style and drug compliance to patients in order to improve targeted outcomes.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz

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

Course Intended Learning Outcomes		Teaching Strategies	Assessment Strategies
d1	Search for updated medical information from the professional medical references.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
d2	Improve students' presentation skills	Seminars	Discussion

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■ Presentation

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Principles of Pharmacy Practice	- Pharmacist Care - Pharmacist Care Plan - Monitoring Parameters	1	2	b1
	Cases study of CVD	- HTN - HF - CAD - Acute Coronary Syndromes (ACS) - Dyslipidemia - Venous Thromboembolism (VTE)	1 1 1 1 1 1	2 2 2 2 2 2	a 1, a2, b1, b2, c1, c2, d1, d2
2	Midterm Exam		1	2	
3	Cases study of CVD	Stroke	1	2	a 1, a2, b1, b2, c1, c2, d1, d2
4	Cases study of Infectious Diseases	- Lower Respiratory Tract Infection - Upper Respiratory Tract Infection - Urinary Tract Infection - Antimicrobial Prophylaxis in Surgery - CNS infections	1 1 1 1 2	2 2 2 2 4	a 1, a2, b1, b2, c1, c2, d1, d2
5	Final Theoretical Exam		1	2	a1, a2, b1, b2, c1, c2
Number of Weeks /and Units Per Semester			16	32	

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Faculty of Clinical Pharmacy
Department of
Unit of Development & Quality assurance

الجمهورية اليمنية
وزارة التعليم العالي والبحث العلمي
جامعة 21 سبتمبر للعلوم الطبية والتطبيقية
كلية الصيدلة السريرية
قسم
وحدة التطوير وضمان الجودة

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V. Teaching Strategies of the Course:

- Assignments
- Interactive class discussions
- Office hours
- Seminars

VI. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam

VII. Assignments:

No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Case Presentation for AF.	a 1, a2, b1, b2, c1, c2, d1, d2	Week 6	5
2	Search for updated guideline recommendations of CAD	a 1, a2, b1, b2, c1, c2, d1, d2	Week 12	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 %	a1, a2, b1, b2, c1, c2, d1, d2
2	Quiz 1	Week 6	10	10%	a1, a2, b1, b2, c1, c2, d1
3	Midterm Exam	Week 8	20	20 %	a1, a2, b1, b2, c1, c2
4	Quiz 2	Week 12	10	10%	a1, a2, b1, b2, c1, c2, d1
5	Final Exam	Week 16	50	50 %	a1, a2, b1, b2, c1, c2
Total			100	100%	

IX. Learning Resources:

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

- Written in the following order: Author, Year of publication, **Title**, Edition, Place of publication, Publisher.

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

- Marie A. Chisholm-Burns and others, (2016), **Pharmacotherapy: Principles & practice**, 4th edition, McGraw-Hill Companies, Inc., United States of America.
- Joseph Dipiro, (2017), **Pharmacotherapy: pathophysiologic approaches**, 10th edition, McGraw-Hill Companies, Inc., United States of America.

2- Essential References:

- Walker and Edwards, (2012), **Clinical Pharmacy and Therapeutics**, 5th edition.
- Koda-Kimble, and others, (2012), **Applied Therapeutics: The Clinical Use Of Drugs**, 10th edition, Lippincott Williams & Wilkins , Philadelphia, United States of America.
- Drug Information Handbook: (2016), **A Clinically Relevant Resource for All Healthcare Professionals** 25th Edition Lexi Comp
- Pharmacotherapy Casebook, (2017), **A Patient-Focused Approach**, 10th Edition (Pharmacy), McGraw-Hill.

3- Electronic Materials and Web Sites etc.:

Websites:

- Word Document or Portable Data Files (PDF) for Lectures Delivery.
- American College of Clinical Pharmacy (ACCP) <http://www.accp.com>

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

1	Class Attendance: 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.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: 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.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.

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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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Second Part of Course Specification

Faculty of Clinical Pharmacy

Course Specification of Case Studies in **Pharmacotherapy I: “case-based seminars”**

Course No. (02.01.265)

2020/2021

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Course Plan (Syllabus) of Course Specification of **Case Studies in Pharmacotherapy I**

Course No. (02.01.265)

I. Information about Faculty Member Responsible for the Course:								
Name of Faculty Member:	Dr. Ali Alyahawi							
Location& Telephone No.:								
E-mail:			SAT	SUN	MON	TUE	WED	THU
Office Hours								

2020/2021

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			Lecture	Seminar
		1	--	2
4	Study Level/ Semester at which this Course is offered:	4 Level / 1 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		
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3	Cases study of CVD	– Stroke	1	2	
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