

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 Therapeutics (3): “case-based seminars”

Course No. (02.01.267)

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 Therapeutics (3): “case-based seminars”		
2	Course Code & Number:	02.01.267		
3	Credit Hours:	Credit Hours	Theory Hours	Training Hours
		Lecture	Seminar	
		1	--	2
3 weeks				
4	Study Level/ Semester at which this Course is offered:	5 th Level / 1 st Semester		
5	Pre –Requisite (if any):	- Pharmacology-IV - Case Studies in Therapeutics (2): “case-based seminars”		
6	Co –Requisite (if any):	Integrated Pharmacotherapy III		
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:			

II. Course Description:

The course is designed to integrate the course of pharmacy practice and pharmacotherapy (3) by seminar discussion for clinical cases of GIT, Respiratory, and bones and joints diseases. The course will improve the students' skills of care delivery by seminar. It is designed to cover the pathophysiology, clinical presentations, complications and pharmacotherapy of GIT, Respiratory, and bones and joints diseases.

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

III. Course Intended Learning Outcomes (CILOs)		Referenced PILOs (Learning out of program)
Knowledge and Understanding: Upon successful completion of the course, students will be able to:		
a1	Describe the pathophysiology, clinical presentations, and complications by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	A5
a2	Define the rational pharmacotherapy regimens and goals of therapy by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	A1
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b1	Formulate appropriate pharmaceutical care plan by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	B4, B5
b2	Interpret clinical and Laboratory findings by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c1	Apply the rational pharmacotherapy regimens by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	C3, C4
c2	Advise the patient about disease and medication	C3, C4
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d1	Search efficiently for updated medical information from professional medical sites.	D2, D3
d2	Improve the students' presentations 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 the pathophysiology by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
a2	Define the rational pharmacotherapy regimens by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz

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

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

Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
b1 Formulate appropriate pharmaceutical care plan by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
b2 Interpret clinical and Laboratory findings by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints 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 Apply the rational pharmacotherapy regimens by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
c2 Advise the patient about disease and medication	- Interactive class discussions - 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 efficiently for updated medical information from professional medical sites.	- Assignments - Interactive class discussions - Office hours - Seminars	- Exam - Assignment - Quiz
d2 Improve the students' presentations skills	Seminars	- Discussion - Presentation

IV. Course Contents:

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

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	GIT diseases cases	– Peptic Ulcer Disease (PUD)	1	2	a1, a2, b1, b2, c1, c2, d1, d2
		– Gastroesophageal Reflux Disease (GERD)	1	2	
		– Inflammatory Bowel Disease (IBD)	1	2	
		– Irritable Bowel Syndrome (IBS)	1	2	
		– Viral Hepatitis	2	4	
		– Portal Hypertension and Cirrhosis	1	2	
2	Midterm Exam		1	2	a1, a2, b1, b2, c1,
3	GIT diseases cases	Portal Hypertension and Cirrhosis	1	2	a 1, a2, b1, b2, c1, c2, d1, d2
4	Respiratory diseases cases	– Asthma	1	2	a1, a2, b1, b2, c1, c2, d1, d2
		– Chronic Obstructive Pulmonary Diseases (COPD)	1	2	
5	Bones and Joints diseases cases	– Osteoporosis	1	2	a1, a2, b1, c1, c2, d1, d2
		– Osteoarthritis (OA)	1	2	
		– Rheumatoid Arthritis (RA)	1	2	
		– Gout and Hyperuricemia	1	2	
6	Final Theoretical Exam		1	2	a1, a2, b1, c1, c2,
Number of Weeks /and Units Per Semester			16	32	

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

V. Teaching Strategies of the Course:

- Assignments
- Interactive class discussions
- Office hours

VI. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam

VII. Assignments:

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

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

IX. Learning Resources:

- 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: A Clinically Relevant Resource for All Healthcare Professionals** 25th Edition Lexi Comp; 25 edition (May 2, 2016).
- Pharmacotherapy Casebook: A Patient-Focused Approach, Tenth Edition (Pharmacy)** 10th Edition, McGraw-Hill Education / Medical; 10 edition (January 4, 2017)

3- Electronic Materials and Web Sites etc.:

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

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

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.

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

Second Part of Course Specification

Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm. D.

Course Specification of

Case Studies in Therapeutics (3): “case-based seminars”

Course No. (02.03.267)

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

Course Plan (Syllabus) of Case Studies in Therapeutics (3)

Course No. (02.03.267)

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							

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 Therapeutics (3): “case-based seminars”		
2	Course Code & Number:	02.01.267		
3	Credit Hours:	Credit Hours	Theory Hours	Training Hours
		Lecture	Seminar	
		1	--	2
3 weeks				
4	Study Level/ Semester at which this Course is offered:	5 th Level / 1 st Semester		
5	Pre –Requisite (if any):	- Pharmacology-IV - Case Studies in Therapeutics (2): “case-based seminars”		
6	Co –Requisite (if any):	Integrated Pharmacotherapy III		
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:			

II. Course Description:

The course is designed to integrate the course of pharmacy practice and pharmacotherapy (3) by seminar discussion for clinical cases of GIT, Respiratory, and bones and joints diseases. The course will improve the students' skills of care delivery by seminar. It is designed to cover the pathophysiology, clinical presentations, complications and pharmacotherapy of GIT, Respiratory, and bones and joints diseases.

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

III. Course Intended Learning Outcomes (CILOs)

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

- | | |
|----|---|
| a1 | Describe the pathophysiology, clinical presentations, and complications by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases. |
| a2 | Define the rational pharmacotherapy regimens and goals of therapy by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases. |

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

- | | |
|----|--|
| b1 | Formulate appropriate pharmaceutical care plan by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases. |
| b2 | Interpret clinical and Laboratory findings by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases. |

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

- | | |
|----|---|
| c1 | Apply the rational pharmacotherapy regimens by seminar discussion for selected clinical cases of GIT, Respiratory, and bones and joints diseases. |
| c2 | Advise the patient about disease and medication |

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

- | | |
|----|---|
| d1 | Search efficiently for updated medical information from professional medical sites. |
| d2 | Improve the students' presentations skills |

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	GIT diseases cases	– Peptic Ulcer Disease (PUD)	1	2
		– Gastroesophageal Reflux Disease (GERD)	1	2
		– Inflammatory Bowel Disease (IBD)	1	2
		– Irritable Bowel Syndrome (IBS)	1	2
		– Viral Hepatitis	2	4
		– Portal Hypertension and Cirrhosis	1	2
2	Midterm Exam		1	2
3	GIT diseases cases	Portal Hypertension and Cirrhosis	1	2

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

4	Respiratory diseases cases	– Asthma	1	2	
		– Chronic Obstructive Pulmonary Diseases (COPD)	1	2	
5	Bones and Joints diseases cases	– Osteoporosis	1	2	
		– Osteoarthritis (OA)	1	2	
		– Rheumatoid Arthritis (RA)	1	2	
		– Gout and Hyperuricemia	1	2	
6	Final Theoretical Exam		1	2	
Number of Weeks /and Units Per Semester			16	32	

V. Teaching Strategies of the Course:

- Assignments
- Interactive class discussions
- Office hours

VI. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam

VII. Assignments:

No.	Assignments	Week Due	Mark
1	Case Presentation for UC.	Week 6	5
2	Search for updated guideline recommendations of Rheumatoid Arthritis (RA) disease.	Week 12	5
Total			10

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

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
6.	Assignments	Week 6, 12	10	10 %
7.	Quiz 1	Week 6	10	10%
8.	Midterm Exam	Week 8	20	20 %
9.	Quiz 2	Week 12	10	10%
10.	Final Exam	Week 16	50	50 %
Total			100	100%

IX. Learning Resources:

- 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 Dipro, (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: A Clinically Relevant Resource for All Healthcare Professionals** 25th Edition Lexi Comp; 25 edition (May 2, 2016).
- Pharmacotherapy Casebook: A Patient-Focused Approach, Tenth Edition (Pharmacy)** 10th Edition, McGraw-Hill Education / Medical; 10 edition (January 4, 2017)

3- Electronic Materials and Web Sites etc.:

- 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

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

	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.
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.

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