

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 Pharmacotherapy-II

Course No. (02.01.215)

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

1	Course Title:	Pharmacotherapy–II			
2	Course Code & Number:	02.01.215			
3	Credit Hours:	Credit Hours	Theory Hours		Practical
			Lecture	Exercise	
		2	2	--	-
4	Study Level/ Semester at which this Course is offered:	4 Level / 2 Semester			
5	Pre –Requisite (if any):	Pharmacology-IV			
6	Co –Requisite (if any):				
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:				

The course content is supportive for pharmacy practice and integrated cases II course and is complementary to pathophysiology and pharmacology courses and is. The course deals with the study of pathophysiology, clinical presentations, the therapeutic goals, rational pharmacotherapy regimen, the standard therapeutic plans, and patient education for selected endocrine and renal diseases.

13 of 2Page

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 pathophysiology, clinical presentations, and prognosis of endocrine and renal diseases.	A1
a2	Describe the target goals of therapy for endocrine and renal diseases	A5
a3	Determine the rational pharmacotherapy regimen for treatment of endocrine and renal diseases	A5
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b1	Construct appropriate drugs regimen and monitoring plan of endocrine and renal diseases	, B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c1	Use properly drugs regimen and monitoring parameters to achieve targeted therapeutic outcomes of endocrine and renal diseases	C3, C4
c2	Provide a correct drugs information to the health care team and the patients	C3, C4
D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d1	Search effectively and properly medical information from professional medical references	D2, D3
d2	Share successfully therapeutic decisions in team-work.	D1

(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 pathophysiology, clinical presentations, and prognosis of endocrine and renal diseases.	Lecture Instructor – student	Exam Assignment

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	Interactive Office hour	Quiz
a2- Describe the target goals of therapy for endocrine and renal diseases	Lecture Instructor – student Interactive Office hour	Exam Assignment Quiz

(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 appropriate drugs regimen and monitoring plan of endocrine and renal diseases.	Lecture Instructor – student Interactive Exercises Solving Problem Methods	Problem-Solving Exercises. Assignment Quiz

(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- Use properly drugs regimen and monitoring parameters to achieve targeted therapeutic outcomes of endocrine and renal diseases	Lecture Instructor – student Interactive Self-Learning	Exam Assignment Quiz
C2- Provide a correct drugs information to the health care team and the patients	Lecture Instructor – student Interactive Self-Learning	Exam Assignment Quiz

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Search effectively & properly medical information from professional medical references	Self-Learning Seminar Exercises	Presentation Assignment Quiz
d2- Share successfully therapeutic decisions in team-work.	Seminar Instructor–student Interactive Exercises	Presentation

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I. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	Endocrine Diseases	a1, a2, b1 ,c1, c2, d1, d 2	- Diabetes Mellitus Type I	2	2
			- Diabetes Mellitus Type II		
			- Hypothyroidism	2	4
			- Hyperthyroidism		
			- Adrenal Gland Disorders	1	2
			- Pituitary Gland Diseases	2	2
2	Midterm Exam	a1, a 2, b1, ,c1, c2		1	2
3	Endocrine diseases	a1, a2, b1 ,c1, c2, d1, d2	- Pituitary Gland Diseases	1	2
4	Renal diseases	a1, a2, b1 ,c1, c2, d1, d 2	- Acute Kidney Injury	1	2
			- CKD Stages		
			- Complications of CKD	3	6
			- Fluids and Electrolytes	1	2
			- Acid–Base Disturbances	2	4
5	Final Exam	a 1, a 2, b1, , c1,c2		1	2
Number of Weeks /and Units Per Semester				16	32

V. Teaching Strategies of the Course:

- Lecture
- Instructor – student Interactive
- Exercises
- Presentation
- Office hours
- Seminar
- Assignment
- Self-Learning

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VI. Assessment Methods of the Course:

- Assignments
- Quiz
- Exam

VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop Pharmaceutical Care plan for patient with hypothyroidism	a 1, a 2, b1 ,c1, c2, d 1, d 2	Week 3	5
2	Assignment 2: Modify drug regimen for selected patients of CKD based on GFR	a 1, a 2, b1 ,c1, c2, d 1, d 2	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	3 rd , 12 th	10	10%	a1-a 3, b1, c1, c2, d 1, d 2
2	Quiz	2 nd -13 th	5	5%	a 1- a 2, b1, c1, c2, d 1, d 2
3	Midterm Exam (Theory)	Week 7	20	20%	a 1- a 2, b1 c1, c2
4	Quiz	14 th	5	5%	a1, a2, c1, c2
5	Final Exam (Theory)	Week 16	60	60%	a 1, a 2, b1,, c1,
Total			100	100%	

IX. Learning Resources:

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

- 1- Chisholm-Burns et al, 2019. Pharmacotherapy principles & practice. ed. , 5th edition
- 2- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

2- Essential References.

- 1- DiPiro et al, 11th ed, 2020. Pharmacotherapy: A Pathophysiological Approach,
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	3. Walker & Whittlesea, 6th edition, 2018. Clinical Pharmacy and Therapeutics, ed. Walker & Whittlesea, 6th edition, 2018.
3- Electronic Materials and Web Sites etc.	
	1- www.accesspharmacy.com 2- Disease management guidelines (specified in lecture notes)

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.
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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Faculty of Clinical Pharmacy

Bachelor of Clinical Pharmacy & Pharm D

Course Specification of Pharmacotherapy (2)

Course No. (02.01.215)

2021/2022

I. Information about Faculty Member Responsible for the Course:

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

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13 of 9Page

III. Course Description:

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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 pathophysiology, clinical presentations, and prognosis of endocrine and renal diseases.	A1
a2	Describe the target goals of therapy for endocrine and renal diseases	A5
a3	Determine the rational pharmacotherapy regimen for treatment of endocrine and renal diseases	A5

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

c1	Use properly drugs regimen and monitoring parameters to achieve targeted therapeutic outcomes of endocrine and renal diseases	C3, C4
c2	Provide a correct drugs information to the health care team and the patients	C3, C4

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

d1	Search effectively and properly medical information from professional	D2, D3
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	medical references	
d2	Share successfully therapeutic decisions in team-work.	D1

V. Course Contents:

A. Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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		- Diabetes Mellitus Type II		
		- Hypothyroidism	2	4
		- Hyperthyroidism		
		- Adrenal Gland Disorders	1	2
		- Pituitary Gland Diseases	2	2
2	Midterm Exam		1	2
3	Endocrine Diseases	- Pituitary Gland Diseases	1	2
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		- CKD Stages	3	6
		- Complications of CKD		
		- Fluids and Electrolytes	1	2
		- Acid-Base Disturbances	2	4
5	Final Exam		1	2
Number of Weeks /and Units Per Semester			16	32

VI. Teaching Strategies of the Course:

Lecture
Instructor – student Interactive
Exercises
Presentation
Office hours
Seminar

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Assignment

– Self-Learning

VII. Assessment Methods of the Course:

Assignments

Quiz

Exam

VIII. Assignments:

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	3 rd , 12 th	10	10%
2	Quiz	2 nd -13 th	5	5%
3	Midterm Exam (Theory)	Week 7	20	10%
4	Quiz	14 th	5	15%
5	Final Exam (Theory)	Week 16	60	50%
Total			100	100%

X. Learning Resources:

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

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

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