

Republic of Yemen

Ministry of Higher Education & Scientific Research

Emirates International University



**Faculty of Medical Sciences**

**Department of Clinical Pharmacy**

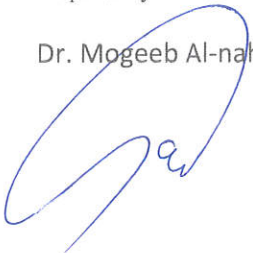
**Bachelor of Pharm D**

**Course Specification of Pharmacotherapy Module IV  
:Gastroenterology/Nutrition**

**Course No. (PP 5404)**

Prepared by:

Dr. Mogeab Al-nahari

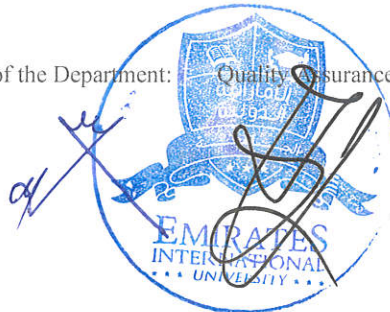


Reviewed by:

Dr. Mohammed  
Al-Khawlane

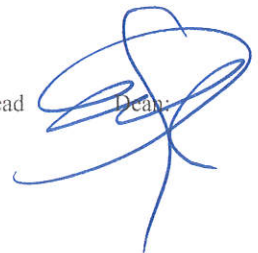


Head of the Department:



Quality Assurance head

Dean:

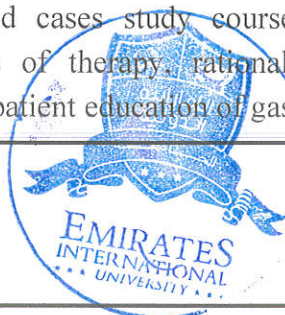


## I. Course Identification and General Information:

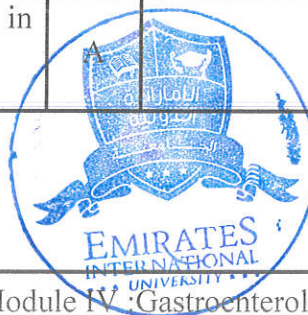
1	<b>Course Title:</b>	Pharmacotherapy Module IV :Gastroenterology/Nutrition			
2	<b>Course Code &amp; Number:</b>	PP 5404			
3	<b>Credit Hours:</b>	<b>Credit Hours</b>	<b>Theory Hours</b>		<b>Lab. Hours</b>
			<b>Lecture</b>	<b>Exercise</b>	
		2	2	--	--
4	<b>Study Level/ Semester at which this Course is offered:</b>	5 Level / 1 Semester			
5	<b>Pre –Requisite (if any):</b>	Pharmacology IIII			
6	<b>Co –Requisite (if any):</b>	None			
7	<b>Program (s) in which the Course is Offered:</b>	Bachelor of Pharm D			
8	<b>Language of Teaching the Course:</b>	English			
9	<b>Study System:</b>	Semester based System			
10	<b>Mode of Delivery:</b>	Full Time			
11	<b>Location of Teaching the Course:</b>	Faculty of Medical Sciences			
12	<b>Prepared by:</b>	Dr. Mogeab Al-nahari			
13	<b>Date of Approval:</b>				

## II. Course Description:

The course content is complementary to pathophysiology and pharmacology courses and is supportive for pharmaceutical care and cases study courses. The course content aims to understand the pathophysiology, goals of therapy, rational pharmacotherapy regimen, the standard pharmaceutical care plans, and patient education of gastroenterology/nutrition.



<b>III. Course Intended Learning Outcomes (CILOs) : (maximum 8)</b> Upon successful completion of the course, students will be able to:		<b>Referenced PILOs</b> Learning out of program	
<b>A. Knowledge and Understanding:</b>		<b>I, A or E</b>	
a1	Describe the pathophysiology, laboratory tests, physical examination, diagnosis, and prognosis of respiratory/ GIT diseases/ Bones and Joints diseases..	I	A1
a2	List the desired outcomes of treatment for gastroenterology/nutrition disease.	I	A5, A8, A10
<b>B. Intellectual Skills:</b>			
b1	Construct appropriate drugs regimen and monitoring plan of gastroenterology/nutrition diseases.	E	B7
<b>C. Professional and Practical Skills:</b>			
c1	Implement rational pharmacotherapy regimens and monitoring parameters to achieve targeted therapeutic goals of astroenterology/nutrition.diseases.	A	C5
c2	Evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	A	C5
<b>D. Transferable Skills:</b>			
d1	Search and interpret properly medical information from professional medical references	A	D5
d2	Share successfully therapeutic decisions in a healthcare team.		D1, D3, D4





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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<b>a1-</b> Describe the pathophysiology, laboratory tests, physical examination, diagnosis, and prognosis of gastroenterology/nutrition diseases..	Lecture Solving Problem Methods	Problem-Solving Exercises. Assignment Quiz
<b>a2-</b> List the desired outcomes of treatment for gastroenterology/nutrition diseases.	Lecture Solving Problem Methods	Problem-Solving Exercises. 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
<b>b1-</b> Construct appropriate drugs regimen and monitoring plan of gastroenterology/nutrition diseases.	Lecture 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
<b>C1-</b> Implement rational pharmacotherapy regimens and monitoring parameters to achieve targeted therapeutic goals of gastroenterology/nutrition diseases.	Lecture Solving Problem Methods	Problem-Solving Exercises. Assignment Quiz
<b>C2-</b> Evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan	Lecture Solving Problem Methods	Problem-Solving Exercises. Assignment Quiz

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

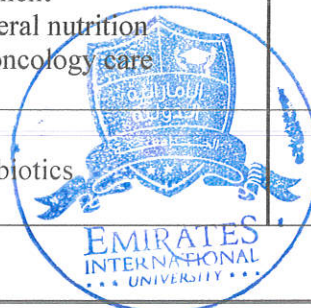
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<b>d1-</b> Search and interpret properly medical information from professional medical references	Self-Learning Seminar	Presentation Assignment
<b>d2-</b> Share successfully therapeutic decisions in team-work.	Seminar	Presentation

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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	GIT diseases	a 1, a 2, b1, c1, c2, d 1, d 2	- Peptic Ulcer Disease (PUD)	1	2
			- Gastroesophageal Reflux Disease (GERD)	1	2
			- IBD: Ulcerative colitis (UC) and Crohn's Disease (CD)	1	2
			- Irritable Bowel Syndrome (IBS)	1	2
			- Complications of Cirrhosis	2	4
			- Clinical Presentation and Diagnosis of Viral Hepatitis	1	2
2	Midterm Exam	a 1, a 2, b1, c1, c2, d 1		1	2
3	GIT diseases		- Management of Viral Hepatitis Pancreatic Disorders and Exocrine Insufficiency	1	2
4	Nutritional Support in Critical Care	a 1, a 2, b1, c1, c2, d 1, d 2	- Pharmacotherapy and parenteral nutrition in critically ill patients - Enteral and parenteral nutrition formulations, administration, and complications - Monitoring nutritional status, optimizing support, and transitioning to oral intake	1	2
				1	2
5	Nutritional Support in Oncology	a 1, a 2, b1, c1, c2, d 1, d2	- Pharmacological management and nutritional support in cancer patients - Appetite stimulants, antiemetics, and mucositis management - Enteral and parenteral nutrition considerations in oncology care	1	2
			- Probiotics and Prebiotics	1	2

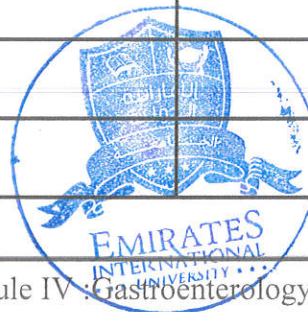




			- Emerging Trends in Gastroenterology and Nutrition	1	2
				1	2
6	Final Exam	a 1, a 2, b1, , c1,c2, d 1		1	32
<b>Number of Weeks /and Units Per Semester</b>				<b>16</b>	<b>32</b>

**B. Case Studies and Practical Aspect:**

No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
1	NA			
2				
3	-			
4	-			
5	-			
6	-			
7	-			
8	-			
9				
10	-			
11	-			
12	-			
13	-			



No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
14	-			
15	-			
16				
<b>Number of Weeks /and Units Per Semester</b>				

**C. Tutorial Aspect: (ان وجدت)**

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
<b>Number of Weeks /and Units Per Semester</b>				

**V. Teaching Strategies of the Course:**

Lecture  
Presentation  
Office hours  
Seminar  
Assignment  
Self-Learning





## 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 IBD	a 1, a 2, b1, ,c1, , c2d 1, d 2	3th	5
<b>Total</b>				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	3th	5	5%	a 1, a 2, b1, ,c1, d 1, d 2
2	Quiz1	6 <sup>th</sup>	5	5%	a 1, a 2, b1, ,c1,c2, d 1
3	Midterm Exam (Theory)	Week 8	20	20%	a 1, a 2, b1, ,c1,c2, d 1
4	Final Exam (Theory)	Week 16	70	70%	a 1, a 2, b1, ,c1, c2, d 1
5					
<b>Total</b>			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 ).

- 1- Chisholm-Burns et al, 2015, Pharmacotherapy principles & practice. ed. , 4<sup>th</sup> edition
- 2- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

### 2- Essential References.

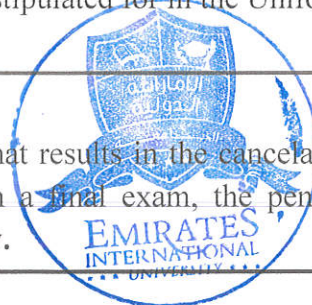
- 1 -DiPiro et al, 10th edition, 2017. Pharmacotherapy: A Pathophysiological Approach, ed edition.
2. Walker & Whittlesea, 5th edition, 2011. Clinical Pharmacy and Therapeutics, ed. Wall Whittlesea, 6th edition, 2018.

### 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	<p><b>Class Attendance:</b>                  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.</p>
2	<p><b>Tardiness:</b>                  A student will be considered late if he/she is not in class after 10 minutes of the start time of class.</p>
3	<p><b>Exam Attendance/Punctuality:</b>                  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.</p>
4	<p><b>Assignments &amp; Projects:</b>                  Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.</p>
5	<p><b>Cheating:</b>                  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.</p>
6	<p><b>Forgery and Impersonation:</b>                  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.</p>
7	<p><b>Other policies:</b></p>



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.





## Faculty of Medical Sciences

### Department of Clinical Pharmacy

#### Program of Pharm D

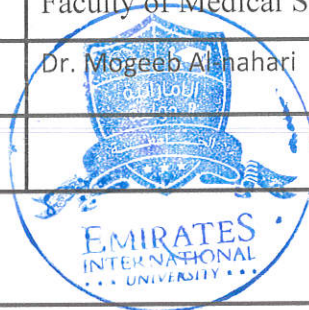
## Course Plan (Syllabus) of Pharmacotherapy Module IV :Gastroenterology/Nutrition

**Course No.** ( PP 5404 )



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

II. Course Identification and General Information:					
1	Course Title:	Pharmacotherapy Module IV :Gastroenterology/Nutrition			
2	Course Code & Number:	PP 5404			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Exercise	
		2	2	--	--
4	Study Level/ Semester at which this Course is offered:	5 Level / 1 Semester			
5	Pre -Requisite (if any):	Pharmacology IIII			
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of 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. Mogeab Al-nahari			
13	Date of Approval:				





### III. Course Description:

The course content is complementary to pathophysiology and pharmacology courses and is supportive for pharmaceutical care and cases study courses. The course content aims to understand the pathophysiology, goals of therapy, rational pharmacotherapy regimen, the standard pharmaceutical care plans, and patient education of gastroenterology/nutrition.

### IV. Course Intended Learning Outcomes (CILOs) :

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

A. Knowledge and Understanding:	
a1	Describe the pathophysiology, laboratory tests, physical examination, diagnosis, and prognosis of respiratory/ GIT diseases/ Bones and Joints diseases..
a2	List the desired outcomes of treatment for gastroenterology/nutrition disease.
B. Intellectual Skills:	
b1	Construct appropriate drugs regimen and monitoring plan of gastroenterology/nutrition diseases.
C. Professional and Practical Skills:	
c1	Implement rational pharmacotherapy regimens and monitoring parameters to achieve targeted therapeutic goals of astroenterology/nutrition.diseases.
c2	Evaluate drug therapy and the outcomes of an implemented pharmacotherapeutic plan
D. Transferable Skills:	
d1	Search and interpret properly medical information from professional medical references
d2	Share successfully therapeutic decisions in a healthcare team.

### V. Course Contents:

#### A. Theoretical Aspect:

#### IV. Course Content:

##### A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	GIT diseases	a 1, a 2, b1	- Peptic Ulcer Disease (PUD)	1	2

		,c1, c2, d1, d2	<ul style="list-style-type: none"> <li>- Gastroesophageal Reflux Disease (GERD)</li> <li>- IBD: Ulcerative colitis (UC) and Crohn's Disease (CD)</li> <li>- Irritable Bowel Syndrome (IBS)</li> <li>- Complications of Cirrhosis</li> <li>- Clinical Presentation and Diagnosis of Viral Hepatitis</li> </ul>	1	2
2	Midterm Exam	a 1, a 2, b1, ,c1, c2, d 1		1	2
3	GIT diseases		<ul style="list-style-type: none"> <li>- Management of Viral Hepatitis</li> <li>- Pancreatic Disorders and Exocrine Insufficiency</li> </ul>	1	2
4	Nutritional Support in Critical Care	a 1, a 2, b1 ,c1,c2, d 1, d 2	<ul style="list-style-type: none"> <li>- Pharmacotherapy and parenteral nutrition in critically ill patients</li> <li>- Enteral and parenteral nutrition formulations, administration, and complications</li> <li>- Monitoring nutritional status, optimizing support, and transitioning to oral intake</li> </ul>	1	2
				1	2
5	Nutritional Support in Oncology	a 1, a 2, b1, ,c1, c2, d 1, d2	<ul style="list-style-type: none"> <li>- Pharmacological management and nutritional support in cancer patients</li> <li>- Appetite stimulants, antiemetics, and mucositis management</li> <li>- Enteral and parenteral nutrition considerations in oncology care</li> </ul>	1	2
			<ul style="list-style-type: none"> <li>- Probiotics and Prebiotics</li> </ul>	1	2
			<ul style="list-style-type: none"> <li>- Emerging Trends in Gastroenterology and Nutrition</li> </ul>	1	2
				1	2
6	Final Exam	a 1, a 2, b1, , c1,c2, d 1		1	32
<b>Number of Weeks /and Units Per Semester</b>				<b>16</b>	<b>32</b>





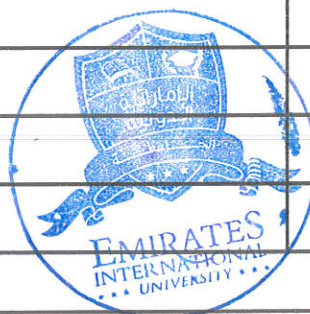
<b>B. Case Studies and Practical Aspect:</b>			
<b>No.</b>	<b>Tasks/ Experiments</b>	<b>Week Due</b>	<b>Contact Hours</b>
1	NA		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
<b>Number of Weeks /and Units Per Semester</b>			
<b>No.</b>	<b>Tasks/ Experiments</b>	<b>Week Due</b>	<b>Contact Hours</b>
1	NA		
2			



No.	Tasks/ Experiments	Week Due	Contact Hours
3	-		
4	-		
5	-		
6	-		
7	-		
8	-		
9			
10	-		
11	-		
12	-		
13	-		
14	-		
15	-		
16			
<b>Number of Weeks /and Units Per Semester</b>			

**C. Tutorial Aspect:**

No.	Tutorial	Number of Weeks	Contact Hours
1			
2			
3			
4			
5			





No.	Tutorial	Number of Weeks	Contact Hours
6			
7			
8			
9			
10			
Number of Weeks /and Units Per Semester			

## VI. Teaching Strategies of the Course:

Lecture  
Presentation  
Office hours  
Seminar  
Assignment  
Self-Learning

## VII. Assessment Methods of the Course:

Assignments  
Quiz  
Exam

## VIII. Assignments:

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

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خطأ! لم يتم العثور على مصدر المرجع.

## X. Learning Resources:

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<b>3- Electronic Materials and Web Sites etc.</b>	
	1 -www.accesspharmacy.com 2 -Disease management guidelines (specified in lecture notes)

## XI. Course Policies: (Based on the Uniform Students' Bylaw (2007))

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