

Republic of Yemen

Ministry of Higher Education & Scientific Research

Emirates International University



**Faculty of Medicine and Health Science**

Department of Clinical Pharmacy

Bachelor of Pharm D

Course Specification of .Pharmacotherapy Module VII :Infectious  
Disease/Hematology

Course No. (PP 507)

Prepared by:

Dr. Mogeab Al-nahari

Reviewed by:

Dr. Mohammed  
Alkhwilani

Head of the Department:

Quality Assurance head

Dean



## I. Course Identification and General Information:

1	Course Title:	.Pharmacotherapy Module VII :Infectious Disease/Hematology			
2	Course Code & Number:	PP 507			
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 III			
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:				

## II. Course Description:

The course content is complementary to pathophysiology and pharmacology courses and is supportive for pharmaceutical care and integrated-case based learning" courses. The course aims to introduce the knowledge of the pathophysiology, clinical presentations, therapeutics (pharmacokinetics & pharmacodynamics) of infectious and oncology conditions including venous thromboembolism, emesis, anemia, febrile neutropenia, infection related to cancer, common chemotherapy regimen used for cancer, pain management, and general toxicity of

chemotherapy agents.

<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	Define the pathophysiology, diagnosis, and complications of infectious and oncology conditions including venous thromboembolism, emesis, anemia, febrile neutropenia, infection related to cancer, common chemotherapy regimen used for cancer, pain, and general toxicity of chemotherapy agents.	I	A1
a2	List the targeted goals of drug therapy for Hematology and infectious conditions.	I	A5, A8, A10
<b>B. Intellectual Skills:</b>			
b1	Construct rational drug regimens and monitoring plan of selected and Hematology infectious .	E	B3, B7,B8,B9
<b>C. Professional and Practical Skills:</b>			
c1	Use properly drug regimens and monitoring parameters to achieve therapeutic goals of and Hematology infectious conditions.	A	C5, C8
<b>D. Transferable Skills:</b>			
d1	Search for required medical information from professional medical references to	A	D5



	solve and manage Hematology and infectious conditions		
d2	Share successfully therapeutics decisions with healthcare professionals and patients.	A	D1, D3

**(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> Define the pathophysiology, diagnosis, and complications of infectious and oncology conditions including venous thromboembolism, emesis, anemia, febrile neutropenia, infection related to cancer, common chemotherapy regimen used for cancer, pain, and general toxicity of chemotherapy agents.	Lecture Discussions Office hour	Exam Assignment Quiz
<b>a2-</b> List the targeted goals of drug therapy for Hematology and infectious conditions.	Lecture Discussions Office hour	Exam Assignment Quiz

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

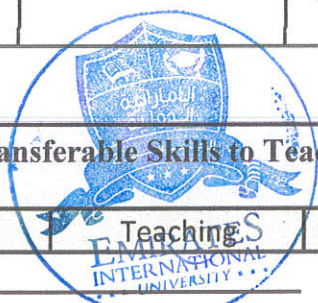
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<b>b1-</b> Construct rational drug regimens and monitoring plan of selected and Hematology and infectious conditions.	Lecture Discussions Office hour	Exam Assignment Quiz

**(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> Use properly drug regimens and monitoring parameters to achieve targeted goals of and Hematology and infectious conditions.	Lecture Discussions Office hour	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
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	strategies	Strategies
<b>d1-</b> Search for required medical information from professional medical references to solve and manage and Hematology and infectious conditions	Self-Learning Seminar	Presentation Assignment Quiz
<b>d2-</b> Share successfully therapeutics decisions in team-work.	Seminar	Presentation

#### IV. Course Content:

##### A – Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	Infectious Diseases	Lower Respiratory Tract Infection	1	2	a 1, a2, b1, b2, c1, c2, d1, d2
		Upper Respiratory Tract Infection	1	2	
		Urinary Tract Infection	1	2	
		Antimicrobial Prophylaxis in Surgery	1	2	
		CNS infections	1	2	
		- Vaccines and Immunization	1	2	
2	Antibiotic Stewardship and Resistance	- Antibiotic Stewardship and Resistance	1	2	a 1, a2
3	Mid-Term Exam		1	2	a 1, a2, b1, b2, c1, c2, d1, d2
4	Hematology Diseases	- Overview of Blood and Blood Components	1	2	a 1, a2, b1, b2, c1, c2, d1, d2
		Anemia	2	4	
		Coagulation Disorders	2	4	
		Sickle Cell Disease	1	2	

5	Final Exam		1	2	a 1, a2, b1, b2, c1, d1
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>	

### V. Teaching Strategies of the Course:

Lecture  
 Instructor – student Interactive  
 Exercises  
 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	<b>Assignment 2:</b> Develop pharmaceutical care plan for cancer patients with febrile neutropenia based on current recommendations.	a 1, a 2, b1, ,c1, d 1, d 2	6th	2.5
2	<b>Assignment 3:</b> Compare between four chemotherapy agents based on general toxicity	a 1, a 2, b1, ,c1, d 1, d 2	9th	2.5
<b>Total</b>				<b>5</b>

### 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 and attendance	Week 3-13	5	5%	a 1, a 2, b1, ,c1, d 1, d 2
2	Quiz	6 <sup>th</sup>	5	5 %	a 1, a 2, b1, ,c1, d 1
3	Midterm Exam	Week 7	20	20%	a 1, a 2, b1, ,c1, d 1
4	Final Exam	Week 16	70	70 %	a 1, a 2, b1, ,c1, 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.

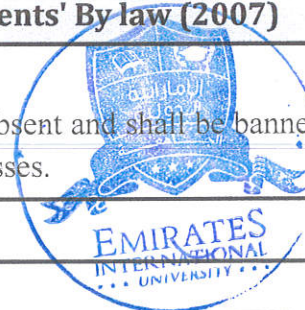
- 1 -DiPiro et al, 10th edition, 2017. Pharmacotherapy: A Pathophysiological Approach, ed. edition.
2. Walker & Whittlesea, 5th edition, 2011. Clinical Pharmacy and Therapeutics, ed. Wall Whittlesea, 6th edition, 2018.

#### 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)

<b>Class Attendance:</b>	
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.
<b>Tardiness:</b>	
2	



	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	<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.
4	<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.
5	<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.
6	<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.
7	<b>Other policies:</b> 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 Medicine and Health Science

### Department of Clinical Pharmacy

### Bachelor of Pharm D

## Course Plan (Syllabus) of .Pharmacotherapy Module VII

### :Infectious Disease/Hematology

Course No. (PP 507)

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

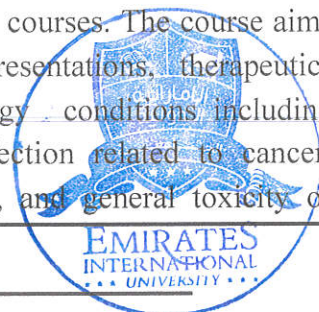


## II. Course Identification and General Information:

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			<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 III			
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>				

## III. Course Description:

The course content is complementary to pathophysiology and pharmacology courses and is supportive for pharmaceutical care and integrated-case based learning" courses. The course aims to introduce the knowledge of the pathophysiology, clinical presentations, therapeutics (pharmacokinetics & pharmacodynamics) of infectious and oncology conditions including venous thromboembolism, emesis, anemia, febrile neutropenia, infection related to cancer, common chemotherapy regimen used for cancer, pain management, and general toxicity of



chemotherapy agents.

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

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

<b>A. Knowledge and Understanding:</b>	
a1	Define the pathophysiology, diagnosis, and complications of infectious and oncology conditions including venous thromboembolism, emesis, anemia, febrile neutropenia, infection related to cancer, common chemotherapy regimen used for cancer, pain, and general toxicity of chemotherapy agents.
a2	List the targeted goals of drug therapy for Hematology and infectious conditions.
<b>B. Intellectual Skills:</b>	
b1	Construct rational drug regimens and monitoring plan of selected and Hematology infectious .
<b>C. Professional and Practical Skills:</b>	
c1	Use properly drug regimens and monitoring parameters to achieve therapeutic goals of and Hematology infectious conditions.
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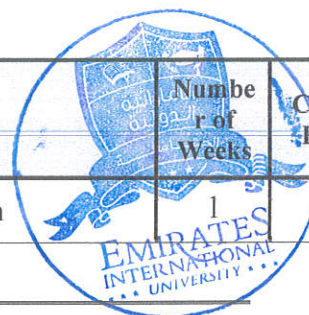
#### V. Course Contents:

##### A. Theoretical Aspect:

#### IV. Course Content:

##### A – Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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		Upper Respiratory Tract Infection	1	2
		Urinary Tract Infection	1	2
		Antimicrobial Prophylaxis in Surgery	1	2
		CNS infections	1	2
		- Vaccines and Immunization	1	2
2	Antibiotic Stewardship and Resistance	- Antibiotic Stewardship and Resistance	1	2
3	Mid-Term Exam		1	2
4	Hematology Diseases	- Overview of Blood and Blood Components	1	2
		Anemia	2	4
		Coagulation Disorders	2	4
		Sickle Cell Disease	1	2
5	Final Exam		1	2
<b>Number of Weeks /and Units Per Semester</b>			<b>16</b>	<b>32</b>

خطأ! لم يتم العثور على مصدر المرجع.

### C. Tutorial Aspect:

### VI. Teaching Strategies of the Course:

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

### VII. Assessment Methods of the Course:

Assignments



Quiz
Exam

VIII. Assignments:				
NO	Assignments		Week Due	Mark
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4	Final Exam	Week 16	70	70 %	
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<b>Total</b>			100	100%	

X. Learning Resources:	
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