

**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  
internal Medicine clerkship (2)**

**Course No. (CR 606)**



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Prepared by:

Dr. *Ali Ay*

Reviewed by:

Dr. *[Signature]*

Head of the Department:

Quality Assurance head

Dean:



## I. Course Identification and General Information:

1	Course Title:	Internal medicine clerkship (2)		
2	Course Code & Number:	CR 606		
3	Credit Hours:	Credit Hours	Theory Hours	Lab/Training Hours
		4	Lecture --	Exercise -- 192 hours
4	Study Level/ Semester at which this Course is offered:	6 Level / 2 Semester		
5	Pre –Requisite (if any):	Pharmacotherapy I-V		
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. Ali Alyahawi		
13	Date of Approval:			

## II. Course Description:

The hospital training course aim to use the principles of pharmacology, therapeutic and clinical courses in dealing with real cases to identify and resolve different treatment related problems of 4 different sub-specialties practiced over the semester (cardiology, respiratory, infectious diseases, and endocrinology). Each sub-specialty lasts about 2 weeks. Students are distributed so each student will be trained on 4 sub-specialties. Students will also cover cases in outpatient clinics.

**III. Course Intended Learning Outcomes (CILOs) : (maximum 8)**  
Upon successful completion of the course, students will be able to:

**Referenced PILOs**  
Learning out of program

A. Knowledge and Understanding:

I, A  
or E



a1	Identify drug-related problems through selected cases discussion of cardiology, respiratory, infectious diseases, and endocrinology.	I	A1, A5, A8, A10
<b>B. Intellectual Skills:</b>			
b1	Describe the clinical manifestations, complications, goal of pharmacotherapy, patient education, and monitoring parameters of selected cases of cardiology, respiratory, infectious, and endocrine diseases.	E	B1, B7
b2	Design the appropriate pharmacotherapy treatment and monitoring plan through selected case discussion of cardiology, respiratory, infectious diseases, and endocrinology.	E	B1, B2, B7, B8, B9
<b>C. Professional and Practical Skills:</b>			
c1	Apply the optimal pharmacotherapy regimen and monitoring parameters for selected cases of cardiology, respiratory, infectious diseases, and endocrinology.	A	C5, C8
<b>D. Transferable Skills:</b>			
d1	Improve student skills of data collection and interpretation from professional medical sites.	A	D4, D5
d2	Communicate effectively with healthcare team and improve student skills of patient counseling.	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
a1- Identify drug-related problems through selected cases discussion of cardiology, respiratory, infectious diseases, and endocrinology.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning	- Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics

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

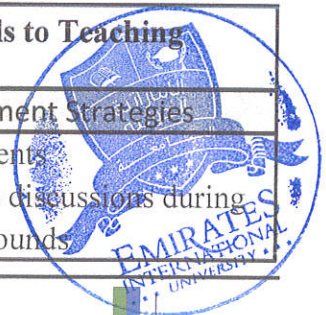
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<b>b1-</b> Describe the clinical manifestations, complications, goal of pharmacotherapy, patient education, and monitoring parameters of selected cases of cardiology, respiratory, infectious, and endocrine diseases.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	- Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
<b>b2-</b> Design the appropriate pharmacotherapy treatment and monitoring plan through selected case discussion of cardiology, respiratory, infectious diseases, and endocrinology.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	- Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

**(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> Apply the optimal pharmacotherapy regimen and monitoring parameters for selected cases of cardiology, respiratory, infectious diseases, and endocrinology	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	- Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

**(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> Improve student skills of data collection and interpretation from professional medical sites.	Clinical cases studies Discussions & Small group discussions	- Assignments - Oral case discussions during clinical rounds

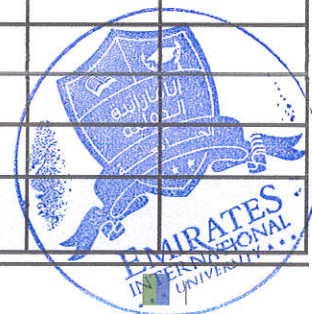


	Seminars Training Self-learning Group learning and Problem-based learning -	- Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
<b>d2-</b> Communicate effectively with healthcare team and improve student skills of patient counseling.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	- Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

#### IV. Course Contents:

##### A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	n/a	–			
2		–			
3		–			
4		–			
5		–			
6		–			
7		–			
8		–			
9		–			
10		–			
11		–			
12		–			
<b>Number of Weeks /and Units Per Semester</b>					



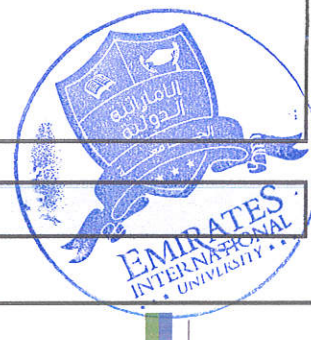
### B. Case Studies and Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Hypertension	Week 14	Course Training Period	a 1, b1, b2, c1, d1, d2
2	Dyslipidemia	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
3	Heart Failure	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
4	Coronary Artery Disease (CAD)	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
5	Atrial Fibrillation	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
6	Diabetes mellitus and its complications	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
7	Thyroid disorders	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
8	Meningitis	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
9	UTI	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
10	Asthma	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
11	COPD	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
12	CAP	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
13	HAP/VAP	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
14	Aspiration pneumonia	Week 1-4	Course Training Period	a 1, b1, b2, c1, d1, d2
<b>Number of Weeks /and Units Per Semester: 4 Weeks</b>			<b>192 hours</b>	

### V. Teaching Strategies of the Course:

- Clinical cases studies
- Discussions & Small group discussions
- Seminars
- Training
- Self-learning
- Group learning and Problem-based learning

### VI. Assessment Methods of the Course:



- Assignments
- Oral case discussions during clinical rounds
- Seminar
- Pharmacy practice manual
- Formal case presentation
- Presentation for one of the course content topics.
- Exam

## VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	<b>Assignment 1:</b> Develop a pharmaceutical care plan for selected case of diabetes type 2 according to appropriate primary literature and updated guidelines.	a 1, b1, b2, c1, d1, d2	Week 3	5
2	<b>Assignment 2:</b> Develop a pharmaceutical care plan for selected case of ischemic heart disease according to appropriate primary literature and updated guidelines.	a 1, b1, b2, c1, d1, d2	Week 6	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	Weekly 1-2	10	10%	a 1, b1, b2, c1, d1, d2
2	Oral case discussions during clinical rounds	Weekly 1-2	10	10%	a 1, b1, b2, c1, d1, d2
3	Pharmacy practice manual	Weekly 1-2	15	15%	a 1, b1, b2, c1, d1, d2
4	Formal case presentation	Week 2	10	10%	a 1, b1, b2, c1, d1, d2
5	Presentation for one of the course content topics.	Week 2	5	5%	a 1, b1, b2, c1, d1, d2
6	Final exam	Week 2	50	50%	a 1, b1, b2, c1, d1
<b>Total</b>			100	100%	

## IX. Learning Resources:

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

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



2- Essential References.	
	<ol style="list-style-type: none"> <li>1. DiPiro et al, 2017, Pharmacotherapy: A Pathophysiological Approach, 10th edition.</li> <li>2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical U Drugs, 11th edition.</li> <li>3. Walker &amp; Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.</li> </ol>
3- Electronic Materials and Web Sites etc.	
	<ul style="list-style-type: none"> <li>- UpToDate</li> <li>- <a href="http://www.globalrph.com/">http://www.globalrph.com/</a></li> <li>- Updated Clinical Practice Guidelines for selected course disorders</li> </ul>

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.
	<b>Exam Attendance/Punctuality:</b>
3	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.
	<b>Assignments &amp; Projects:</b>
4	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
	<b>Cheating:</b>
5	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.
	<b>Forgery and Impersonation:</b>
6	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.
	<b>Other policies:</b>
7	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 Sciences

Department of Clinical Pharmacy

Bachelor of Pharm D

Course Specification of Internal medicine clerkship (2)

**Course No.** ( CR 606)

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



## II. Course Identification and General Information:

1	Course Title:	Internal medicine clerkship (2)			
2	Course Code & Number:	CR 606			
3	Credit Hours:	Credit Hours	Theory Hours		Lab/Training Hours
		4	Lecture	Exercise	
			--	--	192 hours
4	Study Level/ Semester at which this Course is offered:	6 Level / 2 Semester			
5	Pre –Requisite (if any):	Pharmacotherapy I-V			
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			
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The hospital training course aim to use the principles of pharmacology, therapeutic and clinical courses in dealing with real cases to identify and resolve different treatment related problems of 4 different sub-specialties practiced over the semester (cardiology, respiratory, infectious diseases, and endocrinology). Each sub-specialty lasts about 2 weeks. Students are distributed so each student will be trained on 4 sub-specialties. Students will also cover cases in outpatient clinics.

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

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

	<b>A. Knowledge and Understanding:</b>
a1	Identify drug-related problems through selected cases discussion of cardiology, respiratory, infectious diseases, and endocrinology.
	<b>B. Intellectual Skills:</b>
b1	Describe the clinical manifestations, complications, goal of pharmacotherapy, patient education, and monitoring parameters of selected cases of cardiology, respiratory, infectious, and endocrine diseases.

b2	Design the appropriate pharmacotherapy treatment and monitoring plan through selected case discussion of cardiology, respiratory, infectious diseases, and endocrinology.
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**C. Professional and Practical Skills:**

c1	Apply the optimal pharmacotherapy regimen and monitoring parameters for selected cases of cardiology, respiratory, infectious diseases, and endocrinology.
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**D. Transferable Skills:**

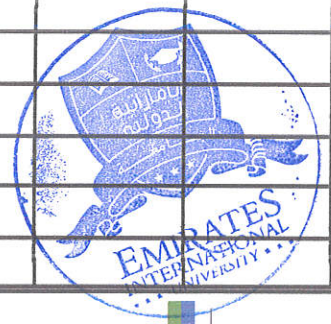
d1	Improve student skills of data collection and interpretation from professional medical sites.
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**V. Course Contents:**

**A. Theoretical Aspect:**

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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3		—		
4		—		
5		—		
6		—		
7		—		
8		—		
9		—		
10		—		
11		—		
12		—		
<b>Number of Weeks /and Units Per Semester</b>				

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
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2		—		
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4		—		
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6		—		



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7		-		
8		-		
9		-		
10		-		
11		-		
12		-		
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- Assignments
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- Exam

خطأ! لم يتم العثور على مصدر المرجع.

- 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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