

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
Ambulatory care clerkship
Course No. (CR 609)



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Prepared by:

Dr. Ali Al-Muhamawi

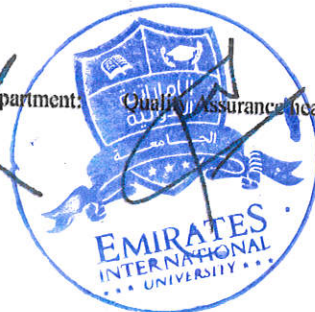
Reviewed by:

Dr. Maged Al-Nahari

Head of the Department:

Quality Assurance head

Dean:



I. Course Identification and General Information:


1	Course Title:	Ambulatory care clerkship		
2	Course Code & Number:	CR 609		
3	Credit Hours:	Credit Hours	Theory Hours	Training Hours
			Lecture	
		2	--	144 hours
4	Study Level/ Semester at which this Course is offered:	6 Level / 2 Semester		
5	Pre –Requisite (if any):	Pharmacotherapy I-IV		
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 Medicine and Health Sciences		
12	Prepared by:	Dr. Ali Alyahawi		
13	Date of Approval:			

II. Course Description:

The ambulatory care training course aims to improve student knowledge and skills in ambulatory care practice setting such as internal medicine clinic, nephrology clinic, and GIT clinic. During the rotation, student will develop skills in the provision of pharmaceutical care including obtaining medication histories, assessing the appropriateness of medication regimens, counseling patients, monitoring therapies, and providing appropriate drug information to both patients and physicians.

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	Define the roles and responsibilities of clinical pharmacist as active member in team-work of the ambulatory care practice.	I	
a2	Describe the rational pharmacotherapy	I	

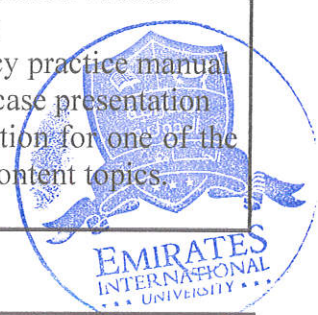
	regimen of selected cases discussion related to internal medicine/nephrology/GIT at ambulatory care setting.		A5, A10
B. Intellectual Skills:			
b1	Design a rational pharmacotherapy regimen related to internal medicine/nephrology/GIT at ambulatory care setting.	E	B2, B7, B8, B9
b2	Develop monitoring plan and therapeutic endpoints for efficacious drug use at ambulatory care setting.	E	B7
C. Professional and Practical Skills:			
c1	Implement the rational drug regimen for selected cases discussion related to ambulatory care setting in real-time and post-clinic discussions according to appropriate primary literature and updated guidelines.	A	C5, C8
c2	Continuously evaluate the targeted goals for selected cases discussion related to ambulatory care setting	A	C5, C8
D. Transferable Skills:			
d1	Share successfully and effectively with healthcare providers and patients.	A	D1, D3
d2	Search efficiently for appropriate medical information in professional medical references	A	D5

(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 roles and responsibilities of clinical pharmacist as active member in team-work of the ambulatory care practice.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning	- Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
a2- Describe the rational	Clinical cases studies	- Assignments

pharmacotherapy regimen of selected cases discussion related to internal medicine/nephrology/GIT at ambulatory care setting.	Discussions & Small group discussions Seminars Training Self-learning	<ul style="list-style-type: none"> - 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
b1- Design a rational pharmacotherapy regimen related to internal medicine/nephrology/GIT at ambulatory care setting.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
b2- Develop monitoring plan and therapeutic endpoints for efficacious drug use at ambulatory care setting.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	<ul style="list-style-type: none"> - 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
c1- Implement the rational drug regimen for selected cases discussion related to ambulatory care setting in real-time and post-clinic discussions according to appropriate primary literature and updated guidelines.	Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -	<ul style="list-style-type: none"> - Assignments - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam



<p>c2- Continuously evaluate the targeted goals for selected cases discussion related to ambulatory care setting</p>	<p>Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -</p>	<ul style="list-style-type: none"> - 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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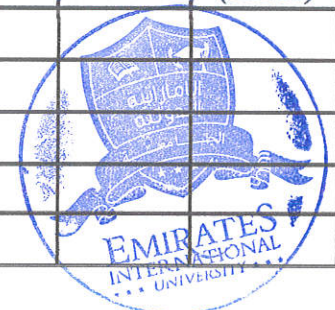
(d) Alignment Course Intended Learning Outcomes of Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
<p>d1- Share successfully and effectively with healthcare providers and patients.</p>	<p>Self-learning Group learning and Problem-based learning -</p>	<ul style="list-style-type: none"> - Oral case discussions during clinical rounds - Seminar - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
<p>d2- Search efficiently for appropriate medical information in professional medical references.</p>	<p>Clinical cases studies Discussions & Small group discussions Seminars Training Self-learning Group learning and Problem-based learning -</p>	<ul style="list-style-type: none"> - 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		-			



No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
6					
7		–			
8		–			
9		–			
10		–			
11		–			
12					
Number of Weeks /and Units Per Semester					

B. Case Studies and Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Internal Medicine Clinic: <ul style="list-style-type: none"> Bone and joints diseases Endocrine diseases CVD Respiratory Diseases Nephrology Clinic: <ul style="list-style-type: none"> Chronic Kidney Diseases GIT Clinic: <ul style="list-style-type: none"> Peptic ulcer Disease GERD Irritable bowel syndrome Inflammatory bowel diseases Complications of Cirrhosis 	Week 1-2 Week 1-2	144 hours	a 1, a2, b1, b2, c1, d1, d2
2				a 1, a2, b1, b2, c1, d1, d2
3				a 1, a2, b1, b2, c1, d1, d2
Number of Weeks /and Units Per Semester		2 weeks	144 hours	

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	Week Due	Mark	Aligned CILOs (symbols)
1	Assignment 1: New Recommendations according to Updated ADA clinical practice guideline.	a 1, a2, b1, b2, c1, d1, d2	Week 1	5
2	Assignment 2: New Recommendations according to Updated ACCP clinical practice guideline.	a 1, a2, b1, b2, c1, d1, d2	Week 2	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	Weekly 1-2	10	10%	a 1, a2, b1, b2, c1, d1, d2
2	Oral case discussions during clinical rounds	Weekly 1-3	10	10%	a 1, a2, b1, b2, c1, d1, d2
3	Pharmacy practice manual	Weekly 1-3	15	15%	a 1, a2, b1, b2, c1, d1, d2
4	Formal case presentation	Week 3	10	10%	a 1, a2, b1, b2, c1, d1, d2
5	Presentation for one of the course content topics.	Week 3	5	5%	a 1, a2, b1, b2, c1, d1, d2
6	Final exam	Week 3	50	50%	a 1, a2, b1, b2, c1, d2
Total					

IX. Learning Resources:

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

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

2- Essential References.

1. DiPiro et al, 2017, Pharmacotherapy: A Pathophysiological Approach, 10th edition.
2. Caroline S. Zeind and Michael G. Carvalho, 2018, Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3. Walker & Whittlesea, 2018. Clinical Pharmacy and Therapeutics, 6 edition.

3- Electronic Materials and Web Sites etc.

- UpToDate
- <http://www.globalrph.com/>
- Updated Clinical Practice Guidelines for selected course disorders

X. Course Policies: (Based on the Uniform Students' By law (2007))

	Class Attendance:
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.
	Tardiness:
2	A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
	Exam Attendance/Punctuality:
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.
	Assignments & Projects:
4	Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
	Cheating:
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.
	Forgery and Impersonation:
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.
	Other policies:
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 Science
Department of Clinical Pharmacy
Bachelor of Pharm D

Course Specification of Ambulatory care clerkship
Course No. (CR 609)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member:	Dr. Ali Alyahawi	Office Hours					
Location & Telephone No.:	775957401						
E-mail:	alyahawipharm@yahoo.com	SAT	SUN	MON	TUE	WED	THU



II. Course Identification and General Information:

1	Course Title:	Ambulatory care clerkship		
2	Course Code & Number:	CR 609		
3	Credit Hours:	Credit Hours	Theory Hours	Training Hours
			Lecture	
		2	--	144 hours
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5	Pre –Requisite (if any):	Pharmacotherapy I-IV		
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 Medicine and Health Sciences		
12	Prepared by:	Dr. Ali Alyahawi		
13	Date of Approval:			

III. Course Description:

The ambulatory care training course aims to improve student knowledge and skills in ambulatory care practice setting such as internal medicine clinic, nephrology clinic, and GIT clinic. During the rotation, student will develop skills in the provision of pharmaceutical care including obtaining medication histories, assessing the appropriateness of medication regimens, counseling patients, monitoring therapies, and providing appropriate drug information to both patients and physicians.

IV. Course Intended Learning Outcomes (CILOs) :

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

	A. Knowledge and Understanding:
a1	Define the roles and responsibilities of clinical pharmacist as active member in team-work of the ambulatory care practice.
a2	Describe the rational pharmacotherapy regimen of selected cases discussion related to internal medicine/nephrology/GIT at ambulatory care setting.
	B. Intellectual Skills:



b1	Design a rational pharmacotherapy regimen related to internal medicine/nephrology/GIT at ambulatory care setting.
b2	Develop monitoring plan and therapeutic endpoints for efficacious drug use at ambulatory care setting.

C. Professional and Practical Skills:

c1	Implement the rational drug regimen for selected cases discussion related to ambulatory care setting in real-time and post-clinic discussions according to appropriate primary literature and updated guidelines.
c2	Continuously evaluate the targeted goals for selected cases discussion related to ambulatory care setting

D. Transferable Skills:

d1	Share successfully and effectively with healthcare providers and patients.
d2	Search efficiently for appropriate medical information in professional medical references

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1		– n/a		
2		–		
3		–		
4		–		
5		–		
6				
7		–		
8		–		
9		–		
10		–		
11		–		
12				
Number of Weeks /and Units Per Semester				

B. Case Studies and Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	contact hours
1	Internal Medicine Clinic: <ul style="list-style-type: none"> Bone and joints diseases Endocrine diseases CVD Respiratory Diseases Nephrology Clinic: <ul style="list-style-type: none"> Chronic Kidney Diseases GIT Clinic: <ul style="list-style-type: none"> Peptic ulcer Disease GERD Irritable bowel syndrome Inflammatory bowel diseases Complications of Cirrhosis 	Week 1-2 Week 1-2	144 hours
2			
3			
Number of Weeks /and Units Per Semester		2 weeks	144 hours

VI. Teaching Strategies of the Course:

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

VII. 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

VIII. Assignments:

No.	Assignments	Week Due	Mark
1	Assignment 1: New Recommendations according to Updated ADA clinical practice guideline.	a 1, a2, b1, b2, c1, d1, d2	Week 1
2	Assignment 2: New Recommendations according to Updated	a 1, a2, b1, b2,	Week 2

No.	Assignments	Week Due	Mark
	ACCP clinical practice guideline.	c1, d1, d2	
Total			

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Weekly 1-2	10	10%
2	Oral case discussions during clinical rounds	Weekly 1-3	10	10%
3	Pharmacy practice manual	Weekly 1-3	15	15%
4	Formal case presentation	Week 3	10	10%
5	Presentation for one of the course content topics.	Week 3	5	5%
6	Final exam	Week 3	50	50%
Total				

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Weekly 1-2	10	10%
2	Oral case discussions during clinical rounds	Weekly 1-3	10	10%
3	Pharmacy practice manual	Weekly 1-3	15	15%
4	Formal case presentation	Week 3	10	10%
5	Presentation for one of the course content topics.	Week 3	5	5%
6	Final exam	Week 3	50	50%
Total				

X. Learning Resources:

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

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

3. Chisholm-Burns et al, 2019 , Pharmacotherapy principles & practice. 5rd edition.
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	<ul style="list-style-type: none">- UpToDate- http://www.globalrph.com/- Updated Clinical Practice Guidelines for selected course disorders
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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.

