

Republic of Yemen

Ministry of Higher Education & Scientific Research

21 September University of Medical & Applied Sciences



Faculty of Clinical Pharmacy

Bachelor of Pharm. D.

Course Specification of

**Hospital Training: Hospital Training: Internal Medicine
training -I**

Course No. (02.05.252)

2021/2022

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
Dr. Ali Alyahawi	Dr. Abdelmalek abudunya	Dr. -----	Dr. Abdulelah Thabet	Dr. Ali Alyahawi

I. Course Identification and General Information:

1	Course Title:	Hospital Training: Internal Medicine training -I		
2	Course Code & Number:	02.05.252		
3	Credit Hours:	Credit Hours	Theory Hours	
			Lecture	Exercise
3	Credit Hours:	7	--	--
4	Study Level/ Semester at which this Course is offered:	216 contact hrs. (210 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)		
5	Pre –Requisite (if any):	6 Level / 1 Semester		
6	Co –Requisite (if any):	Students must have successfully completed their basic curriculum of 5 th Year.		
7	Program (s) in which the Course is Offered:	None		
8	Language of Teaching the Course:	Bachelor of Pharm. D.		
9	Study System:	English		
10	Mode of Delivery:	Semester based System		
11	Location of Teaching the Course:	Full Time		
12	Prepared by:	Faculty of Clinical Pharmacy		
13	Date of Approval:	Dr. Ali ALyahawi		

II. Course Description:

The internal medicine- I training course aims to integrate the student skills and knowledge of pharmacology, therapeutic and clinical courses in practice real cases of gastro-intestinal and nephrology disorders to identify and resolve different treatment related problems. Some of the activities done by students include: solving a case for treatment-related problems (TRPs), patient counseling, therapeutic drug monitoring, checking dosage regimen, checking drug interactions and assessing safety and efficacy of medications.

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	Understand the role and responsibilities of a clinical pharmacist in identifying and resolving different treatment related problems of gastro-intestinal and nephrology diseases cases in internal medicine.	A1, A3, A4, A5
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B. Intellectual Skills: Upon successful completion of the course, students will be able to:

b1	Design appropriate pharmacotherapy treatment and monitoring plan for selected cases of gastro-intestinal and nephrology disorders.	B2, B3, B4, B5
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C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:

c1	Provide rational pharmacotherapy regimen according to the patient specific condition.	C3, C4, C5
c2	Apply appropriate patient monitoring parameters regarding the selected cases of gastro-intestinal and nephrology disorders.	C4

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

d1	Share successfully in team-work and improve student skills of patients' interview.	D1
d2	Search efficiently in the medical journal databases by browsing the internet professional sites for Evidence-Based Medicine (EBM)	D2, D3

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(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 role and responsibilities of a clinical pharmacist in identifying and resolving different treatment related problems of gastro-intestinal and nephrology diseases cases in internal medicine.	- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam

(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 an appropriate pharmacotherapy treatment and monitoring plan for selected cases of gastro-intestinal and nephrology	- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for

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	- advanced database search - Individual supervision - Self-learning	- one of the course content topics. - Exam
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(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- Provide rational pharmacotherapy regimen according to the patient specific condition.	- Clinical cases studies - Small practical session and discussion - Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning	- Assignments - Oral case discussions during clinical rounds - Pharmacy practice manual - Formal case presentation - Presentation for one of the course content topics. - Exam
C2- Apply appropriate patient monitoring parameters regarding the selected cases of gastro-intestinal and nephrology disorders..	- Clinical cases studies - Small practical session and discussion	- Assignments - Oral case discussions during clinical rounds - Pharmacy

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	- Seminars - Manuals - Use of advanced database search - Individual supervision - Self-learning	- 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
d1 -Share successfully in team-work and improve student skills of patients interview.	- Small practical session and discussion - Seminars	- Oral case discussions during clinical rounds - Formal case presentation - Presentation for one of the course content topics.
d2 - Search the medical journal databases by browsing the internet professional sites for Evidence-Based Medicine (EBM)	- Use of advanced database search - Self-learning	- Assignments - Formal case presentation - Presentation for one of the course content topics. - Exam

IV. Course Contents:

A. Theoretical Aspect:

Prepared by:	Reviewed by:	Head of the Department:	Vice Dean for Quality affairs	Dean of College:
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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
1	1- NA	– ...			

B. Case Studies and Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	- Gastrointestinal: - Acute pancreatitis - Peptic Ulcer Disease (PUD) - Endoscopy - GERD - IBD (crohn's disease / ulcerative colitis) - Complication of Cirrhosis	Week 1-4	120	a 1, b1, c1, c2, d1, d2
2	- Nephrology: - Using different equations to estimate creatinine clearance or GFR in case of acute or stable kidney function. - Knowing the advantages and disadvantages in every equation and when it is applicable and could be used and when isn't versus 24-hrs urine collection. - Chronic Kidney Disease (stage 1 – 4) - Dialysis (Hemodialysis) - Acute Kidney Injury	Week 5-7	90	a 1, b1, c1, c2, d1, d2
Number of Weeks /and Units Per Semester 7 weeks			216 contact hrs. (210 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)	

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V. Teaching Strategies of the Course:

- Clinical cases studies
- Small practical session and discussion
- Seminars
- Manuals
- Use of advanced database search
- Individual supervision
- Collecting, interpreting, and integrating available information in disease state
- Self-learning

VI. Assessment Methods of the Course:

Assignments
Oral case discussions during clinical rounds
Pharmacy practice manual
Formal case presentation
Exam

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VII. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Develop a pharmaceutical care plan for selected case in GIT diseases according to appropriate primary literature and updated guidelines.	a 1, b1, c1, c2, d1, d2	Week 3	10
2	Assignment 2: Develop a pharmaceutical care plan for selected case in chronic kidney diseases according to appropriate primary literature and updated guidelines.	a 1, b1, c1, c2, d1, d2	Wee 6	10
Total				20

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	Course Training Period	20	20 %	a 1, b1, c1, c2, d1, d2
2	Adherence to Professional Attitudes	Course Training Period	10	10 %	d1, d2
3	Skills Acquired during Training	Course Training Period	20	20 %	b1, c1, c2, d1, d2
4	Formal Case Presentation	Last week of Rotation	10	10 %	a 1, b1, c1, c2, d1, d2
5	General Written Examination	Last week of Rotation	40	40 %	a 1, b1, c1, c2, d2
Total			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.

1. DiPiro et al, 2020, Pharmacotherapy: A Pathophysiological Approach, 11th edition.

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	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))	
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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Course Specification of Hospital Training: Hospital Training: Internal Medicine training -I

Course No. (02.05.252)

2021/2022

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

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			Lecture	Exercise	
3	Credit Hours:	7	--	--	216 contact hrs. (210 hrs. on-site a ward rotation + 6 hrs. a formal case presentation at the end of the rotation)
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5	Pre –Requisite (if any):	Students must have successfully completed their basic curriculum of 5th Year.			
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 Clinical Pharmacy			
12	Prepared by:	Dr. Ali ALyahawi			
13	Date of Approval:				

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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	Understand the role and responsibilities of a clinical pharmacist in identifying and resolving different treatment related problems of gastro-intestinal and nephrology diseases cases in internal medicine.	A1, A3, A4, A5
B. Intellectual Skills: Upon successful completion of the course, students will be able to:		
b1	Design appropriate pharmacotherapy treatment and monitoring plan for selected cases of gastro-intestinal and nephrology disorders.	B2, B3, B4, B5
C. Professional and Practical Skills: Upon successful completion of the course, students will be able to:		
c1	Provide rational pharmacotherapy regimen according to the patient specific condition.	C3, C4, C5
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D. Transferable Skills: Upon successful completion of the course, students will be able to:		
d1	Share successfully in team-work and improve student skills of patients' interview.	D1
d2	Search efficiently in the medical journal databases by browsing the internet professional sites for Evidence-Based Medicine (EBM)	D2, D3

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V. Course Contents:

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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	2- NA	— ...		

B. Case Studies and Practical Aspect:

C. Tutorial Aspect:

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VIII. Assignments:

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2	Adherence to Professional	Course Training	10	10 %	d1, d2

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	Attitudes	Period			
3	Skills Acquired during Training	Course Training Period	20	20 %	b1, c1, c2, d1, d2
4	Formal Case Presentation	Last week of Rotation	10	10 %	a 1, b1, c1, c2, d1, d2
5	General Written Examination	Last week of Rotation	40	40 %	a 1, b1, c1, c2, d2
Total			100	100%	

X. Learning Resources:

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

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