

REPUBLIC OF YEMEN
21 SEPTEMBER UMAS

Development Academic Center &
Quality Assurance



الجامعة اليمنية

جامعة 21 سبتمبر
للعلوم التطبيقية والطبية
مركز التطوير الأكاديمي وضمان الجودة

University of 21 September for Applied and Medical Sciences

Faculty of Clinical Pharmacy

Master of Clinical Pharmacy

Course Specification of Therapeutics-I

Course No. (CPh102)

2021/2022



This template of course specifications was prepared by CAQA, Yemen, 2017.

Prepared by: Dr. Ali
Alyahawi

Reviewed by:

Head of the Department:

Quality Assurance head

Dean:

I. Course Identification and General Information:

1	Course Title:	Therapeutics- I			
2	Course Code & Number:	CPh102			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Seminar	
		3	2	1	--
4	Study Level/ Semester at which this Course is offered:	- Level 1/ Semester			
5	Pre –Requisite (if any):	-NA			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Master Degree in Clinical Pharmacy			
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:				

II. Course Description:

The course content aims to understand the pathophysiology and clinical presentation of selected cardiovascular, endocrine, and GIT diseases & explain the rationale for drug therapy. The pharmacotherapy course is supported by pharmaceutical care of selected cases study discussion.

III. Course Intended Learning Outcomes (CILOs): Upon successful completion of the course, students will be able to:		Referenced PILOs Learning out of program
A. Knowledge and Understanding:		
a.1	Describe the pathophysiology and clinical manifestations of related diseases	A1, A2
a.2	Define the principles of drugs action, clinical uses, drug interactions, adverse effects of related drugs, and the target goals of treatment for selected cardiovascular, endocrine, and GIT diseases.	A1, A2
B. Intellectual Skills:		
b.1	Construct appropriate drugs regimen and monitoring plan of selected cardiovascular, endocrine, and GIT diseases based on current treatment guidelines.	B1, B2
C. Professional and Practical Skills:		
c.1	Recommend the most appropriate therapeutic approach to management of these disease states including reference to the latest available evidence	C1, C2
c.2	Provide a correct information to the health care team regarding therapeutic goals and rational drugs selection.	C3
D. Transferable Skills:		
d.1	Search efficiently for required medical information in professional medical references and sites.	D2
d.2	Communicate effectively and ethically with a healthcare team and patients	D1

(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- Describe the pathophysiology and clinical manifestations of related diseases.	Lecture Instructor – student Interactive Office hour	Exam Assignment
a2- Define the principles of drugs action, clinical uses, drug interactions, adverse effects of related drugs, and the target goals of treatment for selected cardiovascular, endocrine, and GIT diseases.	Lecture Instructor – student Interactive Office hour	Exam Assignment

(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 appropriate drugs regimen and monitoring plan of selected cardiovascular, endocrine, and GIT diseases based on current treatment guidelines.	Lecture Instructor – student Interactive Exercises Solving Problem Methods	Problem-Solving Exercises. Assignment

(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- Recommend the most appropriate therapeutic approach to management of these disease states including reference to the latest available evidence	Lecture Instructor – student Interactive Self-Learning	Exam Assignment
C2- Provide a correct information to the health care team regarding therapeutic goals and rational drugs selection.	Lecture Instructor – student Interactive Self-Learning	Exam Assignment

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

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1- Search efficiently for required medical information in professional medical references and sites.	Self-Learning Seminar Exercises	Presentation Assignment
d2- Communicate effectively and ethically with a	Seminar	

healthcare team and patients	Instructor–student Interactive Exercises	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	CVD	a 1, a2, b1, b2, c1, c2, d1	- Hypertension (HTN)	1	2
			- Heart Failure (HF)	1	2
			- Ischemic heart disease: Chronic Stable Angina	1	2
			- Acute Coronary Syndromes (ACS)	1	2
			- Dyslipidemias	1	2
			- Venous Thromboembolism (VTE)	1	2
			- Arrhythmias: Atrial Fibrillation	1	2
2	Midterm Exam	a 1, a2, b1, b2, c1, c2		1	2
3	CVD	a 1, a2, b1, b2, c1, c2, d1	- Stroke	1	2
		a 1, a2, b1, b2, c1, c2, d1	- Peripheral arterial disease	1	2
4	Endocrine diseases	a 1, a2, b1, b2, c1, c2, d1	- Diabetes Mellitus	1	2
		a 1, a2, b1, b2, c1, c2, d1	- Thyroid disorders	2	4
5	GIT	a 1, a2, b1, b2, c1, c2, d1	- Peptic ulcer disease	1	2
		a 1, a2, b1, b2, c1, c2, d1	- Gastroesophageal Reflux Disease (GERD)	1	2
6	Use of vasopressors and inotropes in the pharmacotherapy of shock		Self-reading		
7	Hypovolemic shock		Self-reading		

8	Final Exam			1	2
Number of Weeks /and Units Per Semester				16	32

B. Case Studies and Practical Aspect:

No.	Topic of case Presentation	Week Due	Contact Hours	Learning Outcomes (CIOs)
1	- Hypertension	1	1	a 1, a2, b1, b2, c1, c2, d1
2	- Systolic Dysfunction	2	1	a 1, a2, b1, b2, c1, c2, d1
3	- Chronic Stable Angina	3	1	a 1, a2, b1, b2, c1, c2, d1
4	- ST-Elevation Myocardial Infarction	4	1	a 1, a2, b1, b2, c1, c2, d1
5	- Dyslipidemia	5	1	a 1, a2, b1, b2, c1, c2, d1
6	- Atrial Fibrillation	6	1	a 1, a2, b1, b2, c1, c2, d1
7	- Deep Vein Thrombosis	7	1	a 1, a2, b1, b2, c1, c2, d1
8	- Chronic Anticoagulation	8	1	a 1, a2, b1, b2, c1, c2, d1
9	- Peripheral Arterial Disease	9	1	a 1, a2, b1, b2, c1, c2, d1
10	- Type 2 Diabetes Mellitus (Existing Disease)	10	1	a 1, a2, b1, b2, c1, c2, d1
11	- Hyperthyroidism: Graves' Disease	11	1	a 1, a2, b1, b2, c1, c2, d1
12	- Peptic Ulcer Disease	12	1	a 1, a2, b1,

No.	Topic of case Presentation	Week Due	Contact Hours	Learning Outcomes (CIOs)
				b2, c1, c2, d1
13	- Seminars on Selected course topics	13-14	2	a 1, a2, b1, b2, c1, c2, d1
Number of Weeks /and Units Per Semester		14	14	

C. Tutorial Aspect: (ان وجدت)

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

V. Teaching Strategies of the Course:

Lecture
Instructor – student Interactive
Case Discussion
Office hours
Seminar
Assignment
Self-Learning

				c1, c2
Total			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, 2019. Pharmacotherapy principles & practice. ed. , 5th edition
- 2- Katzung, 2018. Basic & Clinical Pharmacology, ed., 14th edition.

2- Essential References.

- 1 -DiPiro et al, 11th edition, 2020. Pharmacotherapy: A Pathophysiological Approach, ed. edition.
2. Carolin, 2018. Applied Therapeutics: The Clinical Use of Drugs, 11th edition.
3. Walker & Whittlesea, 6th edition, 2018. 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)

	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.



6	<p>Forgery and Impersonation:</p> <p>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>Other policies:</p> <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.</p>

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University of 21 September for Applied and Medical Sciences

Faculty of Clinical Pharmacy

Program of Master in Clinical Pharmacy

Course Plan (Syllabus) of Therapeutics-I

Course No. (CPh102)

2021/2022

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:	Therapeutics- I			
2	Course Code & Number:	CPh102			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Seminar	
		3	2	1	--
4	Study Level/ Semester at which this Course is offered:	- Level 1/ Semester			
5	Pre –Requisite (if any):	-NA			
6	Co –Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Master Degree in Clinical Pharmacy			
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III. Course Description:

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IV. Course Intended Learning Outcomes (CILOs) :

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

V. Course Contents:

A. Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	CVD	- Hypertension (HTN)	1	2
		- Heart Failure (HF)	1	2
		- Ischemic heart disease: Chronic Stable Angina	1	2
		- Acute Coronary Syndromes (ACS)	1	2
		- Dyslipidemias	1	2
		- Venous Thromboembolism (VTE)	1	2
		- Arrhythmias: Atrial Fibrillation	1	2
2	Midterm Exam		1	2
3	CVD	- Stroke	1	2
		- Peripheral arterial disease	1	2
4	Endocrine Diseases	- Diabetes Mellitus	1	2
		- Thyroid disorders	1	2



5	GIT	- Peptic ulcer disease	1	2
		- Gastroesophageal Reflux Disease (GERD)	1	2
6	Use of vasopressors and inotropes in the pharmacotherapy of shock	Self-reading		
7	Hypovolemic shock	Self-reading		
8	Final Exam		1	2
Number of Weeks /and Units Per Semester			16	32

No.	Topic of case Presentation	Week Due	Contact Hours
1	- Hypertension	1	1
2	- Systolic Dysfunction	2	1
3	- Chronic Stable Angina	3	1
4	- ST-Elevation Myocardial Infarction	4	1
5	- Dyslipidemia	5	1
6	- Atrial Fibrillation	6	1
7	- Deep Vein Thrombosis	7	1
8	- Chronic Anticoagulation	8	1
9	- Peripheral Arterial Disease	9	1
10	- Type 2 Diabetes Mellitus (Existing Disease)	10	1
11	- Hyperthyroidism: Graves' Disease	11	1
12	- Peptic Ulcer Disease	12	1
13	- Seminars on Selected course topics	13-14	2
Number of Weeks /and Units Per Semester		14	14

C. Tutorial Aspect:

No.	Tutorial	Number of Weeks	Contact Hours
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
Number of Weeks /and Units Per Semester			

VI. Teaching Strategies of the Course:

Lecture
Instructor – student Interactive
Case Discussion
Office hours
Seminar
Assignment
Self-Learning

VII. Assessment Methods of the Course:

Exam
Assignments
Quiz

VIII. Assignments:

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

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
1	Assignments	Week 3-13	10	10%
2	Quiz (1)	Week 6	5	5%
3	Midterm Exam	Week 8	20	20%
4	Quiz (2)	Week 12	5	5%
5	Cases Presentation	Week 2-13	20	20%
6	Final Exam	Week 16	40	0%
Total			100	100%

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