

REPUBLIC OF YEMEN

21 SEPTEMBER UMAS

**Development Academic Center &
Quality Assurance**



الجامعة السبتمبرية

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-III

Course No. (CPh201)

2021/2022



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

Prepared by:

Reviewed by:

Head of the Department:

Quality Assurance head

Dean:

Dr. Ali Alyahawi

Dr.



I. Course Identification and General Information:

1	Course Title:	Therapeutics- III			
2	Course Code & Number:	CPh201			
3	Credit Hours:	Credit Hours	Theory Hours		Lab. Hours
			Lecture	Seminar	
		3	2	1	--
4	Study Level/ Semester at which this Course is offered:	2 nd level /3 rd semester			
5	Pre –Requisite (if any):	Therapeutics-II			
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 is designed to understand the clinical manifestations, complications, goals of therapy (clinical uses, pharmacokinetics, clinically significant side effects, drug interactions and contraindications to medications) and patient education of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions. The pharmacotherapy course is supported by pharmaceutical care presentation of cases study.



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:		
a1	Describe the pathophysiology and clinical presentation of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	A1, A2
a2	Define the drug therapy and target goals of treatment for selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	A1, A2
B. Intellectual Skills:		
b1	Construct rational therapeutic regimens and monitoring plan of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	B1, B2
C. Professional and Practical Skills:		
c1	Apply appropriate drugs regimen and monitoring parameters based on current treatment guidelines to achieve targeted therapeutic outcomes of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	C1,C2
c2	Provide a correct information to the health care team regarding therapeutic goals and rational drugs selection.	C3
D. Transferable Skills:		
d1	Search efficiently for required medical information in professional medical references and sites.	D2
d2	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 presentation of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	Lecture Instructor – student Interactive Office hour	Exam Assignment
a2- Define the drug therapy and target goals of treatment for selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	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 rational therapeutic regimens and monitoring plan of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	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- Apply appropriate drugs regimen and monitoring parameters based on current treatment guidelines to achieve targeted therapeutic outcomes of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	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	Self-Learning	Presentation



information in professional medical references and sites.	Seminar Exercises	Assignment
d2- Communicate effectively and ethically with a healthcare team and patients	Seminar Instructor–student Interactive Exercises	Presentation

Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Learning Outcomes	Sub Topics List	Number of Weeks	Contact Hours
1	Neurologic Disorders	a 1, a2, b1, c1, c2, d1, d2	- Epilepsy	1	2
2	Psychiatric Disorders	a 1, a2, b1, c1, c2, d1, d2	- Depression	1	2
			- Anxiety & insomnia	1	2
3	Bones and Joints diseases	a 1, a2, b1, c1, c2, d1, d2	- Rheumatoid Arthritis	1	2
			- Osteoarthritis	1	2
			- Osteoporosis	1	2
			- Gout and Hyperuricemia	1	2
4	Midterm Exam	a 1, a2, b1, c1, c2, d1		1	2
5	GIT diseases	a 1, a2, b1, c1, c2, d1, d2	- Viral Hepatitis	2	4
			- Inflammatory bowel disease	1	2
			- Irritable Bowel Syndrome (IBS)	1	2
			- Complications of Cirrhosis	1	2
6	Woman conditions	a 1, a2, b1, c1, c2, d1, d2	- Pregnancy and Lactation: Therapeutic Considerations	1	2
			- Menstruation-Related Disorders	1	2
7	- Parkinson Disease		Self-reading		
8	- Schizophrenia		Self-reading		
9	- Contraception		Self-reading		
10	Final Exam	a 1, a2, b1, c1, c2, d1		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 (CILOs)
1	- Major Depression	1	1	a 1, a2, b1, c1, c2, d1, d2
2	- Generalized Anxiety Disorder	2	1	a 1, a2, b1, c1, c2, d1, d2
3	- Complex Partial Seizures	3	1	a 1, a2, b1, c1, c2, d1, d2
4	- Status epilepticus	4	1	a 1, a2, b1, c1, c2, d1, d2
5	- Rheumatoid arthritis	5	1	a 1, a2, b1, c1, c2, d1, d2
6	- Ulcerative Colitis	6	1	a 1, a2, b1, c1, c2, d1, d2
7	- Viral Hepatitis B	7	1	a 1, a2, b1, c1, c2, d1, d2
8	- Viral Hepatitis C	8	1	a 1, a2, b1, c1, c2, d1, d2
9	- Menstruation-Related Disorders	9-10	2	a 1, a2, b1, c1, c2, d1, d2
10	- Irritable Bowel Syndrome (IBS)	11	1	a 1, a2, b1, c1, c2, d1, d2
11	- Complications of Cirrhosis	12	1	a 1, a2, b1, c1, c2, d1, d2
12	- Selected Course Seminars	13-14	2	a 1, a2, b1, c1, c2, d1, d2
Number of Weeks /and Units Per Semester		14	14	



C. Tutorial Aspect: (ان وجدت)

No.	Tutorial	Number of Weeks	Contact Hours	Learning Outcomes (CILOs)
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

VI. Assessment Methods of the Course:

Exam
Assignments
Quiz



VII. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Assignment 1: Each student presents selected case and or a recent article on updates in GIT diseases and participation in class case discussion.	a 1, a2, b1, c1, c2, d1, d2	Week 3-9	5
2	Assignment 2: Each student presents selected case and or a recent article on updates in endocrine diseases and participation in class case discussion.	a 1, a2, b1, c1, c2, d1, d2	Week 10-13	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	Week 3-13	10	10%	a 1, a2, b1, c1, c2, d1, d2
2	Quiz 1	Week 6	5	5%	a 1, a2, b1, c1, c2, d1
3	Midterm Exam	Week 8	20	20%	a 1, a2, b1, c1, c2, d1
4	Quiz 2	Week 12	5	5%	a 1, a2, b1, c1, c2, d1
5	Cases Presentation	Week 3-13	20	20%	a 1, a2, b1, c1, c2, d1, d2
6	Final Exam	Week 16	40	40%	a 1, a2, b1, c1, c2, d1
Total			100	100%	

IX. Learning Resources:	
<ul style="list-style-type: none"> 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. , 5 th 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))

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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University of 21 September for Applied and Medical Sciences

Faculty of Clinical Pharmacy

Program of Master in Clinical Pharmacy

Course Plan (Syllabus) of Therapeutics-III

Course No. (CPh201)

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- III			
2	Course Code & Number:	CPh201			
3	Credit Hours:	Credit Hours	Theory Hours		
			Lecture	Seminar	Lab. Hours
		3	2	1	--
4	Study Level/ Semester at which this Course is offered:	2nd level /3rd semester			
5	Pre –Requisite (if any):	Therapeutics-II			
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:				



III. Course Description:

The course is designed to understand the clinical manifestations, complications, goals of therapy (clinical uses, pharmacokinetics, clinically significant side effects, drug interactions and contraindications to medications) and patient education of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions. The pharmacotherapy course is supported by pharmaceutical care presentation of cases study.

IV. Course Intended Learning Outcomes (CILOs) :

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

		A. Know
a1	Describe the pathophysiology and clinical presentation of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	
a2	Define the drug therapy and target goals of treatment for selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	
		B. Intelle
b1	Construct rational therapeutic regimens and monitoring plan of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	
		C. Profes
c1	Apply appropriate drugs regimen and monitoring parameters based on current treatment guidelines to achieve targeted therapeutic outcomes of selected neurologic diseases, psychiatric diseases, bones and joints diseases, GIT diseases, and woman conditions.	
c2	Provide a correct information to the health care team regarding therapeutic goals and rational drugs selection.	
		D. Trans
d1	Search efficiently for required medical information in professional medical references and sites.	
d2	Communicate effectively and ethically with a healthcare team and patients.	



V. Course Contents:

A. Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Neurologic Disorders	- Epilepsy	1	2
2	Psychiatric Disorders	- Depression - Anxiety & insomnia	1 1	2 2
3	Bones and Joints diseases	- Rheumatoid Arthritis - Osteoarthritis - Osteoporosis - Gout and Hyperuricemia	1 1 1 1	2 2 2 2
4	Midterm Exam		1	2
5	GIT diseases	- Viral Hepatitis - Inflammatory bowel disease - Irritable Bowel Syndrome (IBS) - Complications of Cirrhosis	2 1 1 1	4 2 2 2
6	Woman conditions	- Pregnancy and Lactation: Therapeutic Considerations - Menstruation-Related Disorders	1 1	2 2
7	- Parkinson Disease	Self-reading		
8	- Schizophrenia	Self-reading		
9	- Contraception	Self-reading		
10	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
1	- Major Depression	1	1
2	- Generalized Anxiety Disorder	2	1



No.	Topic of case Presentation	Week Due	Contact Hours
3	- Complex Partial Seizures	3	1
4	- Status epilepticus	4	1
5	- Rheumatoid arthritis	5	1
6	- Ulcerative Colitis	6	1
7	- Viral Hepatitis B	7	1
8	- Viral Hepatitis C	8	1
9	- Menstruation-Related Disorders	9-10	2
10	- Irritable Bowel Syndrome (IBS)	11	1
11	- Complications of Cirrhosis	12	1
12	- Selected Course Seminars	13-14	2
Number of Weeks /and Units Per Semester		14	14

No.	Topic of case Presentation	Week Due	Contact Hours
1	- Major Depression	1	1
2	- Generalized Anxiety Disorder	2	1
3	- Complex Partial Seizures	3	1
4	- Status epilepticus	4	1
5	- Rheumatoid arthritis	5	1
6	- Ulcerative Colitis	6	1
7	- Viral Hepatitis B	7	1
8	- Viral Hepatitis C	8	1
9	- Menstruation-Related Disorders	9-10	2



No.	Topic of case Presentation	Week Due	Contact Hours
10	- Irritable Bowel Syndrome (IBS)	11	1
11	- Complications of Cirrhosis	12	1
12	- Selected Course Seminars	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
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Assignment
Self-Learning



VII. Assessment Methods of the Course:

Exam
Assignments
Quiz

VIII. Assignments:

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

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X. Learning Resources:

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3- Electronic Materials and Web Sites etc.

- 1 -www.accesspharmacy.com
- 2 -Disease management guidelines (specified in lecture notes)

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	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.
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