



# Course Specification

(Bachelor)

Course Title:	PHARMACOTHERAPY-I
Course Code:	PHCP 457
Program:	Pharmaceutical Sciences
Department:	Clinical Pharmacy
College:	Pharmacy
Institution:	Najran University
Version:	3
Last Revision Date:	20/7/2024

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## A. General information about the course:

### 1. Course Identification

#### 1. Credit hours: ( 3 )

(2+1)

#### 2. Course type

- A. ☐ University ☐ College ☐ Department ☐ Track ☒ Others (Program)
- B. ☒ Required ☐ Elective

#### 3. Level/year at which this course is offered: (Level 8<sup>th</sup> / 4<sup>th</sup> year)

#### 4. Course general Description:

This course emphasizes the clinical use of medication in the prevention and treatment of disease. Pharmacotherapy serve the needs of all upcoming pharmacy professionals by chronic diseases. This course reviews the pharmacotherapy of different diseases focus on therapeutic knowledge to care for patients.

#### 5. Pre-requirements for this course (if any):

PHCL 443

#### 6. Co-requisites for this course (if any):

None

#### 7. Course Main Objective(s):

- Basic concept of the diseases of major organs (GIT, Respiratory, Cardio vascular and Urinary system, blood disorders).
- Students can choose the best therapy according to the condition of the patients.
- Able to do the differential diagnosis between some common diseases.

### 2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	60	100
2	E-learning		
3	Hybrid <ul style="list-style-type: none"> <li>• Traditional classroom</li> <li>• E-learning</li> </ul>		
4	Distance learning		



### 3. Contact Hours (based on the academic semester)

No	Activity	Contact Hours
1.	<b>Lectures</b>	30
2.	<b>Laboratory/Studio</b>	30
3.	<b>Field</b>	
4.	<b>Tutorial</b>	
5.	<b>Others (specify)</b>	
<b>Total</b>		<b>60</b>

### B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
<b>1.0</b>	<b>Knowledge and understanding</b>			
1.1	Demonstrate specialized knowledge and understanding in biomedical, pharmaceutical, clinical, social, behavioral, administrative sciences and research methodology in relation to the development and use of medications including natural therapies for prevention and treatment	K1	Lectures. Laboratory (Practical). Problem-based Learning. Group discussion.	Practical exam. Written exam. Assignment. Presentation.
1.2	Demonstrate an in-depth knowledge of the concepts of pharmacy practice settings including the role of pharmacists according to legal, ethical and professional standards in promoting health prevention and treatment	K2	Lectures. Laboratory (Practical). Problem-based Learning.	Practical exam. Written exam. Assignment. Presentation.
<b>2.0</b>	<b>Skills</b>			
2.1	Integrate pharmaceutical, administrative and clinical sciences with information obtained from different resources to provide accurate recommendations and creative solutions for complex problems.	S1	Lectures. Laboratory (Practical). Problem-based Learning. Group discussion. Case study.	Practical exam. Written exam. Assignment. Presentation.





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
2.2	Evaluate scientific and professional literature critically to be utilized in evidence-based practice and conducting research.	S2	Lectures. Laboratory (Practical). Problem-based Learning. Group discussion. Case study.	Practical exam. Written exam. Assignment. Presentation.
2.4	Utilize appropriate information technologies to optimize safe medication use and patient care.	S4	Lectures. Laboratory (Practical). Problem-based Learning. Group discussion. Case study.	Practical exam. Written exam. Assignment. Presentation.
2.5	Communicate clearly and effectively in a collaborative manner with health care professionals, patients, caregivers, administrative staff, supportive personnel and the public.	S5	Lectures. Laboratory (Practical). Problem-based Learning. Group discussion. Case study.	Practical exam. Assignment. Presentation.
<b>3.0</b>	<b>Values, autonomy, and responsibility</b>			
3.1	Demonstrate empathy, professional attitude, ethical and legal behavior, integrity, trustworthiness, social and cultural awareness and self-awareness and proper judgment in relevant practice settings	V1	Practice sessions. Problem-based Learning. Lecture / Tutorial. Group discussion.	Practical exam. Assignment. Presentation. Observation card.
3.2	Advocate patient rights to safe and effective medication use in relevant practice setting.	V2	Practice sessions. Problem-based Learning. Lecture / Tutorial. Group discussion.	Practical exam. Assignment. Presentation. Observation card.
3.3	Engage in self-learning practices and inter-professional healthcare education activities.	V3	Practice sessions. Problem-based Learning. Lecture / Tutorial. Group discussion.	Assignment. Presentation. Observation card.
3.4	Demonstrate leadership, entrepreneurial and managerial skills, in addition to accountability, confidence, reflective reasoning and independent thinking to respond to routine or unanticipated circumstances.	V4	Practice sessions. Problem-based Learning. Lecture / Tutorial. Group discussion.	Practical exam. Assignment. Presentation. Observation card.



### C. Course Content (Theory)

No	List of Topics	Contact Hours
1.	Introduction to Pharmacotherapy	1
2.	Gastroesophageal Reflux Disease (GERD)	2
3.	Peptic ulcer	2
4.	Constipation and Diarrhea	2
5.	Nausea and Vomiting	1
6.	Dyslipidemia	2
7.	Heart failure	3
8.	Cardiac arrhythmias	2
9.	Hypertension	4
10.	Asthma	3
11.	COPD	1
12.	Respiratory infection (Pneumonia/ URTI)	3
13.	Hepatitis	2
14.	T.B	1
15.	Urinary Tract Infection (UTI)	1
Total		30

### C. Course Content (Practical)

No	List of Topics	Contact Hours
1	Introduction to Pharmacotherapy	1
2	Gastroesophageal Reflux Disease (GERD)	2
3	Peptic ulcer	2
4	Constipation and Diarrhea	2
5	Nausea and Vomiting	1
6	Dyslipidemia	2
7	Heart failure	3
8	Cardiac arrhythmias	2
9	Hypertension	4
10	Asthma	3
11	COPD	2
12	Respiratory infection (Pneumonia/ URTI)	2
13	Hepatitis	2
14	T.B	1
15	Urinary Tract Infection (UTI)	1
Total		30



## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	Continuous assessment	10%
2.	Midterm exam	9	20%
3.	Presentation	12	10%
4.	Assignment	12	5%
5.	Observation card	13	5%
6.	Final Practical Exam	13	10%
7.	Final exam	16 - 18	40%
	Total		100%

\*Assessment Activities (i.e., Written test, oral test, oral presentation, group project, essay, etc.).

## E. Learning Resources and Facilities

### 1. References and Learning Resources

Essential References	<p>✓ Clinical Pharmacy and Therapeutics (Walker, Clinical Pharmacy and Therapeutics) 5th Edition</p> <p>Wells BG, DiPiro JT, Schwinghammer TL, DiPiro CV. Pharmacotherapy Handbook, 9<sup>th</sup> edition McGraw Hill Professional</p>
Supportive References	
Electronic Materials	<p><a href="http://lib.nu.edu.sa/DigitalLibrary.aspx">http://lib.nu.edu.sa/DigitalLibrary.aspx</a></p> <p><a href="https://accesspharmacy.mhmedical.com">https://accesspharmacy.mhmedical.com</a></p> <p><a href="http://www.thefreedictionary.com/pharmacotherapies">http://www.thefreedictionary.com/pharmacotherapies</a></p>
Other Learning Materials	Micromedex software

### 2. Required Facilities and equipment

Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	A Lecture room containing at least 30 seats
<b>Technology equipment</b> (projector, smart board, software)	Computer lab Internet access

Items	Resources
<b>Other equipment</b> (depending on the nature of the specialty)	

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Head of departments and students	Indirect Questionnaires (indirect)
Effectiveness of Students assessment	Faculty members and students	Indirect Questionnaires (indirect)
Quality of learning resources	Student peer reviewer	Direct Indirect
The extent to which CLOs have been achieved	Instructor	<b>Direct</b>
Other		

**Assessors** (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval

<b>COUNCIL /COMMITTEE</b>	CLINICAL PHARMACY DEPARTMENT COUNCIL
<b>REFERENCE NO.</b>	14460214-1057-00001
<b>DATE</b>	20/8/2024

