



T-104  
2022

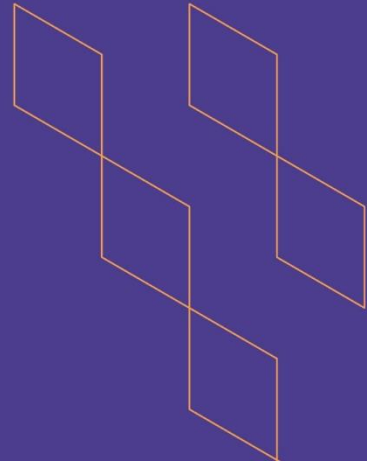
# Course Specification





T-104  
2022

## Course Specification



Course Title: <b>Pharmacotherapy-II</b>
Course Code: <b>455-PHP-3</b>
Program: <b>Pharmaceutical Sciences</b>
Department: <b>Clinical Pharmacy</b>
College: <b>College of Pharmacy</b>
Institution: <b>Najran University</b>
Version: <b>V2022-1</b>
Last Revision Date: 15-11-2023



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## A. General information about the course:

Course Identification	
1. Credit hours:	2+1
2. Course type	
a.	University <input type="checkbox"/> College <input type="checkbox"/> Department <input type="checkbox"/> Track <input type="checkbox"/> Others <input checked="" type="checkbox"/>
b.	Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered:	Level 8 / 4 <sup>th</sup> year
4. Course general Description This course deals with the pharmacotherapy of major diseases of cardiovascular and central nervous disease. The potential changes in drug safety and efficacy that may occur in the presence of impaired function in any of these systems will be highlighted in order to ensure usage of the most appropriate drug at individual level the rational use of antimicrobial agents. The expanded professional role of clinical pharmacist will be highlighted as will potential area of future development.	
5. Pre-requirements for this course (if any): <b>451-PHP-3</b>	
6. Co- requirements for this course (if any):	
7. Course Main Objective(s) <ul style="list-style-type: none"> <li>• Basic concept of the diseases of major organs (cardiovascular, nervous, ...etc)</li> <li>• Students can choose the best therapy according to the condition of the patients.</li> <li>• Able to do the differential diagnosis between some common diseases.</li> </ul>	

### 1. 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		

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

No	Activity	Contact Hours
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1.	Lectures	30
2.	Laboratory/Studio	30
3.	Field	0
4.	Tutorial	0
5.	Others (specify)	
	<b>Total</b>	<b>60</b>

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

Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
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	Written exam Assignments Presentations
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	Written exam Assignments Presentations
2.0	Skills			
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	Group discussion PBL Lecture	Written exam Assignments Presentations Practical exam
2.2	Evaluate scientific and professional literature critically to be utilized in evidence- based practice and conducting research.	S2	Group discussion Case studies Lecture	Written exam Assignments Presentations
2.4	Utilize appropriate information technologies to optimize safe medication use and patient care.	S4	Lecture Case studies	Written exam Assignments Presentations Practical exam
2.5	Communicate clearly and effectively in a collaborative manner with health care professionals, patients, caregivers, administrative staff, supportive personnel and the public	S5	Lecture Case studies	Written exam Assignments Presentations Practical exam
3.0	Values, autonomy, and responsibility			
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	Lecture Practice session	Observation card Presentation Assignments Practical exam
3.2	Advocate patient rights to safe and effective medication use in relevant practice setting.	V2	Lecture Practice session	Observation card Presentation Assignments Practical exam
3.3	Engage in self-learning practices and inter-professional healthcare education activities.	V3	Lecture Practice session	Observation card Presentation Assignments Practical exam
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	Lecture Practice session	Observation card Presentation Assignments Practical exam

## C. Course Content (Theory)

No	List of Topics	Contact Hours
1.	Ischemic heart disease	3
2.	Hypertension	4
3.	Heart failure	3
4.	Dyslipidemia	2
5.	Parkinson disease	2
6.	Alzheimer disease	2
7.	Schizophrenia	2
8.	Epilepsy	3
9.	Depression	3
10.	Bipolar mania	2
11.	Anxiety	2
12.	Attention- Deficit/ hyperactivity disorder (ADHD)	2
Total		30

## C. Course Content (Practical)

No	List of Topics	Contact Hours
1	Ischemic heart disease	4
2	Hypertension	4
3.	Heart failure	4
4.	Dyslipidemia	2
5.	Parkinson disease	2
6.	Alzheimer disease	2
7.	Schizophrenia	2
8.	Epilepsy	2
9.	Depression	2
10.	Bipolar mania	2
11.	Anxiety	2
12.	Attention- Deficit/ hyperactivity disorder (ADHD)	2
Total		30

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	Class tests	10%
2.	Midterm exam	6-7	20%
3.	Presentation	8	10%
4.	Assignments/ clinical visit	10	5%
5.	Observation	11	5%
6.	Final Practical	11	10%
7.	Final exam	12-13	40%
8.	<b>Total</b>		<b>100%</b>

\*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	Pharmacotherapy a pathophysiologic approach by Joseph T. DiPiro, PharmD, and etal (AccessPharmacy)
Supportive References	1. Walker, R., 2011. <i>Clinical Pharmacy and Therapeutics E-Book</i> . Elsevier Health Sciences.  2. Wells BG, DiPiro JT, Schwinghammer TL, DiPiro CV. Pharmacotherapy Handbook, 9/E. McGraw Hill Professional; 2014 Aug 22.
Electronic Materials	<a href="http://lib.nu.edu.sa/DigitalLibrary.aspx">http://lib.nu.edu.sa/DigitalLibrary.aspx</a>  <a href="http://www.thefreedictionary.com/pharmacotherapies">http://www.thefreedictionary.com/pharmacotherapies</a>
Other Learning Materials	Micromedex and <a href="https://www.youtube.com">youtube.com</a>

### 2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<b>A Lecture containing at least 25 seats</b>



Items	Resources
Technology equipment (projector, smart board, software)	<ul style="list-style-type: none"> <li>• <b>Computer lab</b></li> <li>• <b>Internet access</b></li> </ul>
Other equipment (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	Students	Questionnaires (Indirect)
Other		

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

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval Data

COUNCIL /COMMITTEE	Clinical Pharmacy Department Council
REFERENCE NO.	
DATE	