



Course Specification

(Bachelor)

Course Title: **Geriatric Pharmacology**

Course Code: **542 PHL-2**

Program: **Pharmaceutical Sciences**

Department: **Pharmacology**

College: **Pharmacy**

Institution: **Najran University**

Version: **1**

Last Revision Date: **24/12/2023**



Table of Contents

A. General information about the course:	3
B. Course Learning Outcomes (CLOs), Teaching Strategies and Assessment Methods	4
C. Course Content	5
D. Students Assessment Activities	6
E. Learning Resources and Facilities	7
F. Assessment of Course Quality	7
G. Specification Approval	8





A. General information about the course:

1. Course Identification

1. Credit hours: (2 (2+0))

2. Course type

A. ☐ University ☐ College ☐ Department ☐ Track ☒ Program
B. ☐ Required ☒ Elective

3. Level/year at which this course is offered: (9th level/ 5th year)

4. Course general Description:

Pharmacists in most practice settings have an important role to play in identifying and preventing drug-related problems in the older adult population. Older adults are more vulnerable to drug-therapy problems as a result of the numerous physiological changes that occur as they age, and many of them also have multiple disease conditions that lend themselves to polypharmacy. This course covers various disease states and essential skills for geriatric pharmacy practice based on the Saudi Pharmacy Licensure Exam (SPLE).

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

None

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

None

7. Course Main Objective(s):

Students after completion this course will be:

- Identify medical conditions commonly seen in the elderly.
- Demonstrate knowledge of geriatric pharmacotherapy and the knowledge and skills to provide pharmaceutical care to the elderly.
- Interpret and understand current clinical practice guidelines for older adults.
- Describe and communicate the role of the pharmacist in managing various diseases in the elderly.
- Assess patient cases to aid in translating knowledge into practice

2. Teaching mode (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	30	100%
2	E-learning	-	-
3	Hybrid <ul style="list-style-type: none"> • Traditional classroom • E-learning 	-	-
4	Distance learning	-	-

3. Contact Hours (based on the academic semester)





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

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

Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Students after completion this course will be able to: • Identify medical conditions commonly seen in the elderly. • Demonstrate knowledge of geriatric pharmacotherapy and the knowledge and skills to provide pharmaceutical care to the elderly.	K1	Lectures	Written exams with multiple choice questions (MCQs) and short-answer questions (Quizzes, Mid-term and Final exams)
2.0	Skills			
2.1	Interpret and understand current clinical practice guidelines for older adults. -Describe and communicate the role of the pharmacist in managing various diseases in the elderly.	S1	Lectures Laboratory work Case studies or multimedia instruction	Written exams with multiple choice questions (MCQs) and short-answer questions (Quizzes, Mid-term and Final exams) Practical Exams
2.2	Assess patient cases to aid in translating knowledge into practice.	S2	Lectures Laboratory work Case studies or multimedia instruction Group discussion	Written exams with multiple choice questions (MCQs) and short-answer questions





Code	Course Learning Outcomes	Code of PLOs aligned with program	Teaching Strategies	Assessment Methods
				(Quizzes, Mid-term and Final exams) Practical Exams
3.0	Values, autonomy, and responsibility			
3.1	Demonstrate leadership, skills, in addition to accountability, confidence, and independent thinking to respond to routine or unanticipated circumstances.	V1	Lectures Practice sessions	Observation card
3.2	Professional use of computer in preparing reports, assignments, and oral presentations and to be skilled in the use of electronic library and internet resources for self-directed learning.	V2	Lectures	Assignments (using rubrics) Presentations (using rubrics)

C. Course Content

No	List of Topics (Theory)	Contact Hours
1.	Introduction Introduction to Geriatric Medications Management Population Specific Activities	3
2.	Anticoagulation A Practical Approach to Laboratory Abnormalities	2
3.	Dementia, Depression and Insomnia Dementia and Behaviour Disturbances Depression and Anxiety Disorders Insomnia	4
4.	Aging Biology and Socioeconomics of Aging General Principles in Caring for Older Adults Geriatric Syndrome Urinary Incontinence and Urinary Tract Infection Wellness and Health Promotion	4
5.	Anemia in Chronic Kidney Disease	3
6.	Arrhythmias and Antiarrhythmic drugs	2





7.	Heart Disease in the Elderly Dyslipidemia in the Elderly Heart Failure Hypertension in the Elderly Ischemic Heart Diseases Stroke and Transient Ischemic Attacks	3
8.	Asthma and COPD Asthma COPD	2
9.	Infections in the Elderly Infections in the Elderly – General Principles Herpes Zoster in the Elderly	3
10.	Common Elderly-Related Illnesses: Constipation, Diarrhea, Influenza Osteoarthritis Rheumatoid Arthritis Gout, Osteoporosis Pneumonia, Endocrine Disorders, Diabetes in the Older Adult Parkinson's Disease Pharmacological Management of Pain in the Elderly Benign Prostatic Hyperplasia and Erectile Dysfunction	4
Total		30

D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz	5 th week	10%
2.	Midterm Exam	8 th week	25 %
3.	Practical Quiz	9 th week	5%
4.	Student Activity/Assignment/Presentation	14th Week	5%
5.	Students Observation card	Per semester	5%
6.	Final Theoretical Exam	17 th week	50%
7.	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	Fundamentals of Geriatric Pharmacotherapy. 2nd Edition by Lisa C. Hutchison and Rebecca B. Sleeper.
Supportive References	1. Goodman& Gilman: Pharmacological Basis of Therapeutics. 14 th Edition. 2. Katzung-Trevor. Basic & Clinical Pharmacology. 4th Edition. 3. Rang & Dale's: Pharmacology. 9 th Edition.
Electronic Materials	1. Pub Med





	2. Science direct. 3. Medscape. 4. www.dlaf.nu.edu.sa
Other Learning Materials	Library contains adequate number of copies of the required reference text books.

2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	1. Suitable lecture room equipped with data show and internet and sufficient number of seats. 2. Blackboard collaborative system for e-learning in NU.
Technology equipment (projector, smart board, software)	1. Data show. 2. Computer software listed above. 3. Internet and Wifi- access
Other equipment (depending on the nature of the specialty)	1. Microsoft Office Package software

F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Program Leaders Students	Direct Indirect
Effectiveness of Students assessment	Faculty Department council Peer Reviewer	Direct Direct Direct
Quality of learning resources	Students Faculty	Indirect Direct
The extent to which CLOs have been achieved	Faculty	Direct
Other		

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

Assessment Methods (Direct, Indirect)

G. Specification Approval

COUNCIL /COMMITTEE	PHARMACOLOGY DEPARTMENT COUNCIL
REFERENCE NO.	COUNCIL NO. 5, 1445-1446 H
DATE	24/12/2023

