



# Course Specification

— (Bachelor)

Course Title: **Pharmacologic Aspects of Patient Care**

Course Code: **NRS 245**

Program: **Bachelor of Nursing**

Department: **Basic Nursing Department**

College: **College of Nursing**

Institution: **Majmaah University**

Version: **V4**

Last Revision Date: **June 2023**



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## A. General information about the course:

### 1. Course Identification

<b>1. Credit hours: (3 (3+0+0))</b>					
<b>2. Course type</b>					
A.	<input type="checkbox"/> University	<input type="checkbox"/> College	<input type="checkbox"/> Department	<input type="checkbox"/> Track	<input type="checkbox"/> Others
B.	<input checked="" type="checkbox"/> Required		<input type="checkbox"/> Elective		
<b>3. Level/year at which this course is offered: (Year 2 / Level 4)</b>					
<b>4. Course general Description:</b>					
<p>This course deals with pharmacodynamics, pharmacokinetics, clinical/therapeutic uses, and toxicology of drugs. Emphasis is given on how a drug works to anticipate when giving a drug to a patient are of paramount importance since nursing responsibilities include administering drugs, calculating medication dosages based on given setting, assessing drug effects, intervening to make a drug more tolerable, and providing teaching about drugs and the drug regimen.</p>					
<b>5. Pre-requirements for this course (if any):</b>					
PCHM 124					
<b>6. Co-requirements for this course (if any):</b>					
NRS 237					
<b>7. Course Main Objective(s):</b>					
<p>This course provides basic pharmacokinetics and physiologic information concerning drugs that are widely used for common disease conditions including categories, actions, side effects and interactions. The principles of altered pharmacodynamics relative to age and ethnicity will be included. It focuses on the principles and concepts of pharmacology and related nursing practices.</p>					

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

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	45	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.	Lectures	45
2.	Laboratory/Studio	
3.	Field	
4.	Tutorial	
5.	Others (specify)	
<b>Total</b>		<b>45</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
<b>1.0</b>	<b>Knowledge and understanding</b>			
K3.1	Memorize the concept and principles related to pharmacokinetics, pharmacodynamics, pharmaco-therapeutics and recall the pharmacological effects of drugs	K3	Classroom lecture supplemental reading	Written exams
<b>2.0</b>	<b>Skills</b>			
S3.1	Explain the correct measures to ensure the prevention of medication errors.	S3	Classroom lecture supplemental reading	Written exams Assignment (DS)
S4.1	Discuss potential drug-drug interactions and drug-food interactions based on physiologic responses to pharmacological agents and apply critical thinking skills	S4	Classroom lecture supplemental reading	Written exams Assignment (DS)





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	for appropriate intervention.			
<b>3.0</b>	<b>Values, autonomy, and responsibility</b>			
V3.1	Integrate professional nursing roles in relation to medication administration in various health care settings.	V3	Group discussion	Professionalism & group discussion

### C. Course Content

No	List of Topics	Contact Hours
1.	UNIT 1: Introduction and Overview. Basic terminology, definition of disease, properties of ideal drug, therapeutic objectives of medications, factors determine the intensity of response, sources of individual variations, Drug names and Standards (the Chemical Name, the Generic Name, the Brand Name), terminology, Drug information sources, Drug classification system, Drug legislation and ethics, Drug action and interaction, Important factors that affect drug action	6
2.	UNIT 2: Application of Pharmacology in Nursing Practice. Pharmacology and the Nursing Process: Assessment (pre administration Assessment, assessment of patient's capacity for self-care), Diagnosis, Planning, Implementation, Evaluation. Principles of nursing care for patients receiving medications: pre-administration Assessment, Drug and Dosage Administration, Guidelines to help ensure correct administration, Evaluating and Promoting Therapeutic Effects, Promotion of Patient Compliance, Minimize Adverse Effects, PRN Decisions, Patient Education about PRN drugs. Principles of medication administration. Routes of medication administration	6
3.	UNIT 3: Drugs Affecting the Cardiovascular System. Cardiac Glycosides, Anti-dysrhythmia, Antihypertensive, Calcium Channel Blockers, Vasodilators, Diuretics.	6
4.	UNIT 4: Drugs Affecting the Respiratory System. Mucokinetic and Bronchodilators Drugs, Oxygen and Miscellaneous Respiratory Agent	6
5.	UNIT 5: Drugs affecting the Nervous System. Analgesics and anesthetics, Sedative-hypnotic drugs, Antiepileptic drugs, Drug Affecting Parasympathetic Nervous System, Drug Affecting the Sympathetic Nervous system	6
6.	UNIT 6: Drugs Affecting the Gastrointestinal Tract. Antacids, Antispasmodics, Ulcer healing drugs, Anti-diarrheal drugs, Laxatives, emetics & anti emetics	3
7.	UNIT 7: Drugs Affecting the Renal System. Drug therapy for renal system Dysfunction.	3





8.	UNIT 8: Drugs Affecting the Endocrine System. Drug Affecting the pituitary, Drug Affecting the parathyroid and thyroid, Drug Affecting the Adrenal Cortex, Drug Affecting the pancreas.	3
9.	UNIT 9: Drug Affecting Immune System. Serum vaccines and other immunizing agents.	3
10.	UNIT 10: Other Pharmacological Agents. Antimicrobial agents, Anti-neoplastic drugs.	3
<b>Total</b>		<b>45</b>

## D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quizzes	6th and 13th week	10%
2.	Assignment (drug study)	9th week	15%
3.	Midterm Examination	11th week	30%
4.	Professionalism and group discussion	14th week	5%
5.	Final Exam	16th week	40%

\*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

- Linda Lane Lilley, Shelly Rainforth Collins, Julie S. Snyder (2012) Pharmacology and the Nursing Process. Mosby; (7th Ed). ISBN-10: 0323087892  
ISBN-13: 978-0323087896
- Reiss, Barry S. & Evans Mary E. (2002), Pharmacological Aspects of Nursing Care, 6th edition. US: Delmar Thompson Learning Inc
- Ogden, Sheila (2012) Calculation of Drug Dosages. (9th Ed.) St. Louis: Mosby.
- Broyles, Bonita; Reiss, Barry; Evans, Mary (2013) Pharmacological Aspect of Nursing Care; (8th Ed.). ISBN 13: 9781435489097  
ISBN 10: 1435489098
- Michael Adams, Leland Holland, Carol Urban (2013). Pharmacology for Nurses: A Pathophysiologic Approach. Prentice Hall; (4th Ed).



	ISBN-10: 0133026183 ISBN-13: 978-0133026184
Supportive References	<ul style="list-style-type: none"> <li>• Pinnell, N. (latest edition). Nursing Pharmacology. W.B. Saunders Co. Philadelphia.</li> <li>• McKenry, Leda, Tessier, Ed, Hogan, MaryAnn (2006), Pharmacology in Nursing, (22nd Ed).. US: Mosby (Elsevier).</li> </ul>
Electronic Materials	<ul style="list-style-type: none"> <li>• www.sdl.edu.sa</li> <li>• www.emedicine.com</li> <li>• www.medscapeurses.com</li> </ul>
Other Learning Materials	None

## 2. Required Facilities and equipment

Items	Resources
<b>facilities</b> (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	<ul style="list-style-type: none"> <li>• Lecture rooms should be large enough to accommodate 30 students</li> <li>• Practical Rooms should be large enough to accommodate 20 students</li> </ul>
<b>Technology equipment</b> (projector, smart board, software)	<ul style="list-style-type: none"> <li>• Every classroom must be equipped with smart or active board, latest Audio-visual aids, and computer with internet access.</li> </ul>
<b>Other equipment</b> (depending on the nature of the specialty)	NA

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	The instructor or by the Department	Questionnaires are given at the end of term (Student Experience Survey, Program Evaluation Survey, and Course Evaluation Survey)
Effectiveness of Students assessment	Teaching staff	<ul style="list-style-type: none"> <li>• Marking and scoring checking by an independent faculty member of a sample of student work.</li> <li>• Periodic exchange and remarking of a sample of assignments with a faculty member in same institution.</li> <li>• Periodic exchange and remarking of a sample</li> </ul>





Assessment Areas/Issues	Assessor	Assessment Methods
		of assignments with a faculty member in another institution. Discussing course objectives, teaching strategies, exams, students learning abilities and achievements, with another colleague in the same field.
Quality of learning resources	Students Faculty Course Coordinator Head	Academic advising survey (indirect) Student experience survey (indirect)
The extent to which CLOs have been achieved	Students Faculty Course Coordinator Head	Direct assessment outcome analysis (direct) Course report preparation (direct & indirect)
Other		

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

**Assessment Methods** (Direct, Indirect)

## G. Specification Approval

<b>COUNCIL /COMMITTEE</b>	<b>DEPARTMENT COUNCIL</b>
<b>REFERENCE NO.</b>	<b>4</b>
<b>DATE</b>	<b>19.09.2023</b>

