



# Course Specification

## (Bachelor)

Course Title:	PHARMACOLOGY FOR NURSING
Course Code:	315 NUR
Program:	Nursing
Department:	Nursing
College:	College Nursing and health sciences
Institution:	Jazan University
Version:	2024-2025
Last Revision Date:	21 Aug 2024

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## A. General information about the course:

### 1. Course Identification

#### 1. Credit hours:

**2 hours**

#### 2. Course type

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

#### 3. Level/year at which this course is offered: ( level 5/3<sup>rd</sup> year)

#### 4. Course general Description:

This course provides the basic knowledge and importance of pharmacology in nursing. By studying this course, the students will be aware of mechanism of action, pharmacological actions, adverse effects and therapeutic effect of drugs along with various drug interactions and apply the theoretical knowledge related to drugs into the clinical area while administering drugs to the patients to facilitate patient healing process.

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

212NUR-2 (Physiology for Nursing)

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

None

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

At the end of this course, the student will be able to:

- Discuss the basic principle and importance of pharmacology in nursing.
- Discuss pharmacodynamics, pharmacokinetics, therapeutic uses, side effects of drugs with their interactions and nursing management.
- Display ability to recognize the different categories of drugs
- Utilize theoretical knowledge related to pharmacology in the clinical area.

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

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	2x15=30	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	15x2=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 CLOs aligned with program	Teaching Strategies	Assessment Methods
1.0	Knowledge and understanding			
1.1	Describe the influence of <u>medications on body systems</u> using the nursing process and Maslow's Hierarchy of Needs.	K1	1- Lecture-discussions and didactics 2. Computer-aided Instructions (CAI) 3. Problem-Based Learning. Activities. 4-Data show presentation.	1. Recitation in class. 2. Quizzes 3. Periodical Examinations 4. Case studies 5. Individual and group requirements. 6- MCQs. 7- Short answer question
1.2	Recognize the general concepts of <u>pharmacokinetics and pharmacodynamics</u> process that are tailored to diverse population.	K2	1- Lecture-discussions and didactics 2. Computer-aided Instructions (CAI) 3. Problem-Based	1. Recitation in class. 2. Quizzes 3. Periodical Examinations 4. Case studies





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
			Learning. Activities. 4-Data show presentation.	5. Individual and group requirements. 6- MCQs. 7- Short answer question
1.3	Explain efficiently the legal and ethical issues related to <u>nurses' roles and responsibilities</u> in medication administration, patient assessment and monitoring for drug effects.	K3	1- Lecture-discussion s and didactics 2. Computer-aided Instructions (CAI) 3. Problem-Based Learning. Activities. 4-Data show Presentation	
2.0	Skills			
2.1	Employ <u>technology and information systems</u> for identifying trends used in promoting quality improvement, and preserving safety during patient care	S1	1. Research project development by Group. 2.Student-lead activities 3. Actual clinical experience 4. Video clips. 5-Small group discussion	1- use of rubrics for group activities 2- use of rubrics for student-patient relationships 3- use of rubrics for student communication and attitude 4- peer evaluation from their colleagues. 5- Supervisor evaluation for performance and attitude. 6- Group discussion.
2.2	Use communication skills in therapeutic interactions, inter-professional	S2	1. Research project development by Group.	1- use of rubrics for group activities





Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
	information sharing, and scholarly dissemination		2.Student-lead activities 3. Actual clinical experience 4. Video clips. 5-Small group discussion	2- use of rubrics for student-patient relationships 3- use of rubrics for student communication and attitude 4- peer evaluation from their colleagues. 5- Supervisor evaluation for performance and attitude. 6- Group discussion.
2.3	Practice <u>decision-making skills</u> while administering drugs to the patients	S3	1. Case studies and presentations 2. Questioning 3. Problem-solving 4. Simulation 5. Problem-based learning. 6- Lectures. 7- E-Videos. 8- Small group discussion	1. Case presentations 2. Periodical Examinations that vary from recall to comprehension, analysis, and application 3. Quizzes 4- MCQs. 5- Problem solving questions. 6- Assignments.
3.0	Values, autonomy, and responsibility			
3.1	Display <u>teamwork</u> , management and leadership skills during the process of treating patients in the hospital for professional development.	V1	1. Research project development by Group. 2.Student-lead activities 3. Actual clinical experience 4. Video clips. 5-Small group discussion	1- use of rubrics for group activities 2- use of rubrics for student-patient relationships 3- use of rubrics for student communication and attitude



Code	Course Learning Outcomes	Code of CLOs aligned with program	Teaching Strategies	Assessment Methods
				4- peer evaluation from their colleagues. 5- Supervisor evaluation for performance and attitude. 6- Group discussion
3.2	Comply to professional responsibility regarding standards of practice for the professional nurse as related to the medication administration process.	V2	1. Case analysis 2. Research project development. 3. Simulation 4. Conversational diads/groups 5. Public speaking 6. Case studies. 7. Webinars 8. Write and comment on scientific nursing. 9. English is the medium of instruction and business transactions 10. Small group discussion	1- Use of rubrics for communication skills assessed in the clinical. 2- use of rubrics for interviews with the students and by the students 3- EBP findings from e-links/e-sources 4- subscription to the SDL. 5- professional web pages 6- peer evaluations 7- evaluate written and spoke English. 8- Research Assignment. 9- Case study assignment. 10- Problem-solving questions.
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### C. Course Content

No	List of Topics	Contact Hours
1.	<b>Introduction to Pharmacology</b>	2
2.	<b>Routes of Drug administration</b>	2
3.	<b>Antimicrobial drugs</b>	2
4.	<b>Autonomic nervous system drugs 1</b>	2





5.	Autonomic nervous system drugs II	2
6.	Antidepressant drugs & Sedatives and hypnotics	2
7.	Drugs affecting Respiratory System	2
8.	Drugs affecting GIT	2
9.	Endocrine system and Drugs used in thyroid disorders and Diabetes mellites	2
10.	Chemotherapy	2
11.	Cardiovascular system drugs I	2
12.	Cardiovascular system drugs II	2
13.	Analgesics	2
14.	Review	2
15.	Final Exams	2
Total		30

#### D. Students Assessment Activities

No	Assessment Activities *	Assessment timing (in week no)	Percentage of Total Assessment Score
1.	Quiz 1	2	5%
2.	Assignment	4	10%
3.	Midterm	6	30%
4.	Behavior and discipline	continuous	5%
5.	Final Exam	11	50%
	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	<ol style="list-style-type: none"> <li>1. Rang and Dale Pharmacology, 9<sup>th</sup> edition, Nov 2018.</li> <li>2. Goodman and Gilman's The Pharmacological Basis of Therapeutics, 13<sup>th</sup> Edition, Oct 2017.</li> <li>3. Lippincott's Illustrated Reviews Pharmacology, 6<sup>th</sup> edition, 2011</li> <li>4. Mosby' Pharmacology in Nursing. 22<sup>nd</sup> edition (December 30, 2005),</li> <li>5. Essential of Medical Pharmacology By K.D. Tripathi.5<sup>th</sup> edition, 2004</li> <li>6. introductory-clinical-pharmacology-7th-edition</li> </ol>
Supportive References	<p>Pinnell,N.(Latest ed). Nursing pharmacology. W.B Saunders Co. Philadelphia.</p> <p>2.Mycek.M.J. Harvey,R.A and Champe,P.C(Latest ed.) Lippincott's illustrated Review: Pharmacology. Williams and Wilkins</p>







Electronic Materials	<a href="http://WWW.emedicine.com">WWW.emedicine.com</a> , PUBMED, NCBI. Science direct, Elsevier WWW.ecc.cc.mo.us Medicare web site BSCO web Site
Other Learning Materials	British National Formulary, Pharmacopeia (Indian, European, United States)

## 2. Required Facilities and equipment

Items	Resources
facilities (Classrooms, laboratories, exhibition rooms, simulation rooms, etc.)	Lecture rooms (50 students per semester)
Technology equipment (projector, smart board, software)	Smart Board with ICT software and internet connection in the classrooms; audio speakers for voice amplification and audio streaming; lapel and handheld microphones for teacher and students.
Other equipment (depending on the nature of the specialty)	Textbooks and learning resources

## F. Assessment of Course Quality

Assessment Areas/Issues	Assessor	Assessment Methods
Effectiveness of teaching	Students	Course Report Students' teaching evaluation questionnaire. Continuing feedback from students during the semester.
Effectiveness of students assessment	Instructor	Course report CLO Evaluation survey Continuing feedback from students during the semester.
Quality of learning resources	Quality Assurance Unit	Students Satisfaction Survey Continuing feedback from students during the semester.
The extent to which CLOs have been achieved	Instructor	Course report CLO Evaluation survey Continuing feedback from students during the semester.
Other		

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

**Assessment Methods** (Direct, Indirect)





### G. Specification Approval

COUNCIL /COMMITTEE	Nursing Department Council
REFERENCE NO.	NUR 2508
DATE	Jan 15, 2025

