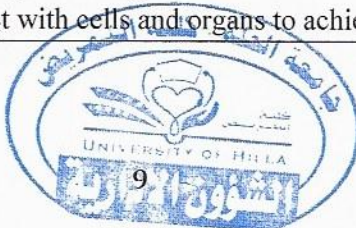


Course Description Form

1. Course Name:	
Pharmacology for nursing I	
2. Course Code:	
PHR204	
3. Semester: second stage / first semester	
2 hours/2 credits	
4. Description Preparation Date:	
1\9\2024	
5. Available Attendance Forms:	
Attendance	
6. Number of Credit Hours (Total) / Number of Units (Total)	
Theoretical: Two hours / week Practical: None Number of study hours (total) / 30 hours Theoretical number of units (total) 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Maysam Ali Ameen Awadh Email : maysamawadh2@gmail.com	
8. Course Objectives	
Course Objectives	Cognitive objectives: <ul style="list-style-type: none"> Understanding how medications affect body functions and different body systems, with a study of the short-term and long-term effects of medications. Analysis of how to choose the appropriate medications for treating various diseases, taking into account drug interactions and their therapeutic effects. Recognizing the most common side effects of medications and managing them, understanding how to diagnose drug toxicity and how to treat it. Studying how drugs are absorbed and distributed in the body and how they interact with cells and organs to achieve the therapeutic effect.



- Enhancing the student's ability to describe the recommended medications for each disease according to medical standards, with a basic understanding of the different types of medications used in medical treatment.
- Encouraging the student to develop self-learning skills to research additional information about medications, including new drugs and groups.
- Equipping the student with the ability to identify the serious side effects of each medication and the contraindications that must be considered when using the drugs.

Skill objectives:

- Developing the student's skills in analyzing the mechanism of action of drugs and how they affect diseases and treat symptoms.
- Enabling the student to evaluate drug side effects and classify them based on severity and how to manage them in emergency situations.
- Developing the student's skills in independent research to obtain accurate and reliable information about various medications and how to use them safely.
- Developing the student's ability to make medical decisions based on a precise understanding of how to select medications according to the patient's condition and health circumstances.
- Training the student on how to explain medications to patients in a simplified manner, including information on how to use them, potential side effects, and how to manage them.
- Applying the necessary skills to monitor drug interactions between different medications and how to avoid negative interactions.

9. Teaching and Learning Strategies

Strategy

Lectures: To present basic information and theoretical concepts.

Group discussions: To enhance critical thinking and effective participation among students.

Teamwork: To develop collaboration skills and the practical application of concepts.

Evaluation methods:

- Written tests: to measure the theoretical understanding of concepts and terms.
- Practical assessment (applied skills): through case studies or the execution of practical activities.
- Participation in group discussions: to assess the level of interaction and critical understanding.
- Brainstorming
- Reports



- Quis

10. Course Structure

No.	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
First week	2 hours	Presentation of a series of discrete slides using the whiteboard	Introduction to Pharmacology: Basic terms. Properties of ideal drug. Factors that determine the intensity of drug action.	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Second week	2 hours	Presentation of a series of discrete slides using the whiteboard	Basic principles of Pharmacology: <ul style="list-style-type: none"> • Pharmacokinetic terms. • Pharmacodynamics. • Drug-drug and drug-food interactions. • Adverse drug reactions. • Individual variations in drug responses. 	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Third week	2 hours	Presentation of a series of discrete slides using the whiteboard	Autonomic Pharmacology: <ul style="list-style-type: none"> • Basic principles of neuropharmacology. • Cholinergic drugs. 	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Fourth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Autonomic Pharmacology: <ul style="list-style-type: none"> • Muscarinic agonists and antagonists. • Cholinesterase inhibitors 	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Fifth weeks	2 hours	Presentation of a series of discrete slides using the whiteboard	Autonomic Pharmacology: Neuromuscular blocking agents. Ganglionic blocking agents.	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz



Sixth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Adrenergic agonists and antagonists. Indirect acting anti-adrenergic agents.	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
seventh week	2 hours	Presentation of a series of discrete slides using the whiteboard	Cardiovascular Pharmacology: Drugs acting on the cardiovascular system. Anti-hypertensive Drugs: - Centrally acting sympatholytics. - Ganglionic blockers. - Adrenoceptors blocking agents. - Vasodilators. - Drugs acting on the renin-angiotensin system. - Diuretics.	- Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Ninth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Drugs used in the treatment of angina and myocardial infarction. Drugs used for the treatment of heart failure (digoxin and other agents).	-Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Tenth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Anti-arrhythmic drugs.	-Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Eleventh weeks	2 hours	Presentation of a series of discrete slides using the whiteboard	Respiratory system - diseases affecting the respiratory system receptors present medicines that act on the respiratory system, mechanism of action	-Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz



Twelfth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Respiratory system - diseases affecting the respiratory system receptors present medicines that act on the respiratory system, mechanism of action	-Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
thirteenth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Digestive system - the study of diseases that affect the digestive system and receptors in the digestive system and influential drugs and their mechanism of action	-Lectures, group discussion, seminars, clinical training, brain storming, and assignments.	Quiz
Fourteenth Week	2 hours	Presentation of a series of discrete slides using the whiteboard	Digestive system - the study of diseases that affect the digestive system and receptors in the digestive system and influential drugs and their mechanism of action	-Lectures, group discussion, seminars, clinical training, brain storming, and assignments	Quiz
Fifteenth week	2 hours	Presentation of a series of discrete slides using the whiteboard	Digestive system - the study of diseases that affect the digestive system and receptors in the digestive system and influential drugs and their mechanism of action	-	



11. Course Evaluation

The grade of the semester (100) is distributed as follows

The presence score	5%
Daily Test Score	5%
Mid exam score	20%
Final exam score	70%

12 Learning and Teaching Resources

Required textbooks (methodology, if any)	<p>Brunton, L. L., Knollmann, B. C., & Hilal-Dandan, R. (2022). Goodman & Gilman's: The pharmacological basis of therapeutics (14th ed.). McGraw-Hill Education.</p> <p>Katzung, B. G., Vanderah, T. W., & Trevor, A. J. (2021). Basic and clinical pharmacology (15th ed.). McGraw-Hill Education.</p> <p>Scientific Journals:</p> <ol style="list-style-type: none">1. British Journal of Pharmacology – Published by Wiley.2. Journal of Pharmacology and Experimental Therapeutics – Published by ASPET.3. Clinical Pharmacology & Therapeutics – Published by Wiley.4. European Journal of Pharmacology – Published by Elsevier.5. The Lancet – Pharmacology Section – Published by Elsevier.
Recommended books and references (scientific journals, reports...)	<ul style="list-style-type: none">• Rang, H. P., Dale, M. M., Ritter, J. M., Flower, R. J., & Henderson, G. (2019). Rang & Dale's pharmacology (9th ed.). Elsevier.• Brenner, G. M., & Stevens, C. W. (2018). Pharmacology (6th ed.). Elsevier.
Electronic references, websites	<ol style="list-style-type: none">1. PubMed - Medical and Pharmaceutical Research Database. www.pubmed.ncbi.nlm.nih.gov2. National Center for Biotechnology Information (NCBI) - www.ncbi.nlm.nih.gov3. World Health Organization (WHO) – Essential Medicines List - www.who.int4. U.S. Food and Drug Administration (FDA) - www.fda.gov5. Medscape Pharmacology - www.medscape.com6. Drugs.com - Reliable pharmaceutical encyclopedia.. www.drugs.com7. American Society for Pharmacology and Experimental Therapeutics (ASPET) -

