

## COURSE DESCRIPTION FORM

**1. Course Name:**

**Pharmacology**

**2. Course Code:**

**3. Semester / Year:**

**Second Year/ Semester -I and II**

**4. Description Preparation Date:**

**3-10-2023**

**5. Available Attendance Forms:**

**Recording the student's attendance in theoretical lectures**

**6. Number of Credit Hours (Total) / Number of Units (Total)**

**(2) hours per week for the theoretical subject for a period of 15 weeks  
(total 30 hours) per semester**

**7. Course administrator's name (mention all, if more than one name)**

**Name: Assist. Prof Dr. Sarhan Rashid Sarhan**

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**8. Course Description**

The student should have extensive knowledge of medicines, their types, and the mechanisms of their action. Understanding of physiological and biochemical principles related to drug action. Know how to use medicines and the effect of drugs on the different of body system. Principles and methods of drug administration. Knowing the different types of medicines and their methods. Identify the side effects of drugs and their pharmacokinetics. Knowing the toxicity of drugs and methods of evaluating the safety of drugs and their intersection with other drugs or foods.

**9. Course Objectives**

*At the end of the course the student will be able to:*

- ✓ The student's knowledge of the different types of drugs, the scientific classification followed for these drugs, and the study of their chemical composition.
- ✓ The student's knowledge of the course of these drugs, starting from absorption, diffusion, metabolism and excretion outside the body
- ✓ Knowing the methods of evaluating drugs.
- ✓ The student's knowledge of injuries and diseases that can be treated with special types of medicines
- ✓ Identify the ways in which drugs affect enzymes and receptors
- ✓ The student will be able to choose the appropriate treatment for diseases.
- ✓ The student can avoid side effects and toxicity.
- ✓ The student will be able to calculate the appropriate dose of medication B4- The student will be able to evaluate the treatment and its safety and risk.
- ✓ The student will be able to know the precautions for the use of medicines and methods of treating misuse and overdose.

### 10. Teaching and Learning Strategies

- ✓ Method of delivering the lecture using PowerPoint
- ✓ Continuous discussion by asking questions and answers in the hall and motivating the student to self-think and thus to self-learning.
- ✓ Using innovative educational methods, such as scientific instructional pictures, the procedure application, and displaying an educational video that brings the material closer to the students' minds.

### 11. Course Structure ( Semester I )

*Theoretical = 2 h*

Date of Class	Unit to be Covered and/or Activity
Week 1	Principles of pharmacology, Drugs names, OTC Drugs

<b>Week 2</b>	pharmacokinetic
<b>Week3</b>	Absorption and distribution
<b>Week 4</b>	Metabolism and excretion
<b>Week 5</b>	Pharmacodynamics
<b>Week 6</b>	Drugs acting on autonomic and somatic nervous system
<b>Week 7</b>	Cholinergic drugs
<b>Week 8</b>	Adrenergic drugs
<b>Week 9</b>	Examination (1)
<b>Week 10</b>	Drugs acting on central nervous system
<b>Week 11</b>	Drug affecting gastrointestinal function
<b>Week 12</b>	Autacoids
<b>Week 13</b>	anti-inflammatory
<b>Week 14</b>	Cardiovascular system drugs
<b>Week 15</b>	Examination (2)

**12. Course Structure ( Semester II )**  
*Theoretical = 2 h*

<b>Date of Class</b>	<b>Unit to be Covered and/or Activity</b>
<b>Week 1</b>	Antihyperlipidimic
<b>Week 2</b>	Blood drugs
<b>Week3</b>	Endocrines
<b>Week 4</b>	Hormonal therapy
<b>Week 5</b>	Chemotherapy of microbial diseases
<b>Week 6</b>	Antibacterial drugs

<b>Week 7</b>	Antifungal drugs
<b>Week 8</b>	Antiviral drugs
<b>Week 9</b>	Examination (1)
<b>Week 10</b>	Antifungal drugs
<b>Week 11</b>	Antiviral drugs
<b>Week 12</b>	Drugs acting on renal function and fluid-electrolytes therapy
<b>Week 13</b>	Drugs acting on respiratory system
<b>Week 14</b>	Drug interaction
<b>Week 15</b>	Examination (2)

### 13.Course Evaluation

Midterm Theory examination	25%
Report, Attendance and Quizzes	5%
The total of 30% before the final exam.	
The Final exam	70%
Total	100%

### 14.Learning and Teaching Resources

- ✓ **Lippincott Illustrated Reviews: Pharmacology**
- ✓ **Pharmacology for nurses.**
- ✓ **Basic pharmacology for nurses**