

Course Overview



Course Information

Code: PHL-331

Title: Pharmacology I

Cr hr: 3+0

Level: 5

Program: PharmD

Co-requisites: None

Prerequisites: PSL-215

Course Description

This course is designed to develop an understanding of the theoretical concepts surrounding pharmacology, such as the pharmacokinetics and pharmacodynamics of drugs, and the concepts surrounding pharmacotherapy. It gives specific information concerning the drugs which are acting on the peripheral nervous system, gastrointestinal system and respiratory system. For every class of drugs, the mode of action, the clinical effects and the side effects will be emphasized.

Topics

- Introduction
- Drug receptors and pharmacodynamics
- Pharmacokinetics and pharmacodynamics
- Drug biotransformation
- Introduction to autonomic pharmacology
- Cholinoceptor-activating and cholinesterase-inhibiting drugs
- Cholinoceptor-blocking drugs
- Skeletal muscle relaxants
- Adrenoceptor agonists sympathomimetic drugs
- Adrenoceptor antagonist drugs
- Agents used in cytopenias and hematopoietic growth factors
- Histamine, serotonin, and ergot alkaloids
- Eicosanoids: prostaglandins, thromboxanes, leukotrienes, and related compounds
- Drugs used in asthma
- Drugs used to treat chronic obstructive pulmonary disease, allergic rhinitis, and cough
- Drugs used in the treatment of gastrointestinal diseases