

# Course Overview



## Course Information

**Code:** PCH-405

**Title:** Medicinal Chemistry III

**Cr hr:** 3+0

**Level:** 7

**Program:** PharmD

**Co-requisites:** None

**Prerequisites:** PCH-304

## Course Description

This course is designed to provide the knowledge to the students on physicochemical properties in relation to biological action, drug metabolism, role of stereochemistry in drug action and drug transporters. It covers the development of chemotherapeutic agents such as anticancer, antibacterial, antimycobacterial, antiviral, antifungal and antiparasitic agents with emphasis on structural features of drug molecules that are responsible for their activity (structure-activity relationships; SARs).

## Topics

- Introduction
- Synthetic antibacterial agents
- Antibiotics
- Antimycobacterial drugs
- Antiparasitic drugs
- Antifungal agents
- Antiviral agents
- Anticancer agents
- Steroidal and other hormonal agents