

Course Overview



Course Information

Code: PHT-521

Title: Modern Pharmaceutical Technology

Cr hr: 2+0

Level: 10

Program: PharmD

Co-requisites: None

Prerequisites: PHT-320, PHT-323

Course Description

Principles and techniques involved in this course are dealt with the latest advances in pharmaceutical drug delivery and targeting system. The purposes of this course are the study at the advanced level of the physical and biological strategies which apply to the design, development, and evaluation of modern drug delivery systems.

Topics

- Introduction to modern pharmaceutical technology
- Controlled drug delivery systems
- Targeted drug delivery systems
- Microtechnology drug delivery systems
- Nanotechnology and nanomedicines for drug delivery ocular drug delivery systems
- Nasal and pulmonary drug delivery systems
- Drug delivery through blood –brain barrier
- Oral protein and peptide delivery
- Biosimilar medicines
- Pharmaceutical gene delivery systems
- Recent advances in cancer therapy