

Course Overview



Course Information

Code: PHT-222

Title: Physical Pharmacy

Cr hr: 2+1

Level: 4

Program: PharmD

Co-requisites: None

Prerequisites: PHT-220

Course Description

This course deals with basic physicochemical properties influencing pharmaceutical dosage form design and efficiency. This course helps pharmacy student to understand the concepts of different liquid dosage forms and their applications. The following key topics will cover: molecular forces, different types of solutions, buffered and isotonic solutions, surface and interfacial phenomena, complexation, colloids, and rheology.

Topics

- Intermolecular binding forces
- States of matter
- Phase equilibria and the phase rule
- Buffers
- Solutions of non-electrolytes
- Solutions of electrolytes
- Rheology
- Surface and interfacial phenomena
- Colloids
- Concept of complexation