

Course Overview



Course Information

Code: PHT-323

Title: Pharmaceutics II

Cr hr: 3+1

Level: 6

Program: PharmD

Co-requisites: None

Prerequisites: PHT-222, PHT-320

Course Description

This course designed to help pharmacy student to understand the concepts of liquid dosage forms, types of these dosages (pharmaceutical solutions, pharmaceutical suspensions, and pharmaceutical emulsions), preparation methods, rationale of clinical uses, applications, their benefits over other oral dosage forms and common stability issues. In addition, this course deals with the principles and techniques involved in the formulation of sterile and ophthalmic dosage forms. Moreover, the following main topics are going to be covered: methods of sterilization, sterile preparation facilities, handling and administration, small and large-scale preparations, IV admixture incompatibility and ophthalmic preparations and their packaging.

Topics

- Pharmaceutical solutions
- Coarse dispersions (suspensions)
- Emulsions
- Introduction to sterile dosage forms
- Formulation of parenteral products
- Aseptically dispensed solutions
- Calculations associated with parenteral formulations
- Biologics
- Ophthalmic preparations
- Otic and Nasal preparations
- Introduction to sterilization
- Clean room
- Packaging and stability of sterile dosage form