

# Course Overview



## Course Information

**Code:** PHT-422

**Title:** Industrial Pharmacy

**Cr hr:** 2+0

**Level:** 8

**Program:** PharmD

**Co-requisites:** None

**Prerequisites:** PHT-320, PHT-323

## Course Description

The course deals with the main operations that take place in industrial pharmacy and the equipment carrying out such operations. These operations include: size reduction, particle size analysis and mixing, filtration, heat flow, drying process, freeze drying, spray drying, evaporation, crystallization, tablets, tablet coating. Students are able to understand the common knowledge of other industrial aspects such as good manufacturing practice (GMP) and quality assurance are also included in this course. Emphasis will be given to pharmaceutical machines.

## Topics

- Introduction to industrial Pharmacy
- Mixing
- Size reduction
- Particle-size analysis
- Filtration
- Centrifugation drying
- Heat flow
- Evaporation
- Good manufacturing practice (GMP)
- Crystallization
- Industrial hazards and plant safety