CHE (258)301 Unit Operations of Chemical Engineering I 3(3/3-0/0)

Abbreviation UNIT OP CHEM ENG I

Prerequisite CHEM 102 and third year standing

## **Course Description**

Introduction, fluid statics, flow of absolute fluid, flow of real fluid, ordinary flow meter, heat transfer principle, heat transfer applications, evaporation, and mass transfer principle.

## Objective

Students will be able to understand principle, operation and design of unit operations involving fluid mechanics, heat transfer and mass transfer.

Course Content	Lecture Hours
1. Introduction	1
2. Fluid statics	4
3. Flow of absolute fluid	3
4. Flow of real fluid	6
5. Ordinary flow meter	1
6. Heat transfer principle	6
7. Heat transfer applications	5
8. Evaporation	4
9. Mass transfer	15
9.1 Fick's laws of diffusion	
9.2 Diffusion in fluid and solid	
9.3 Mass transfer by convection	
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