

Course code	Course Name	L-T-P-Credits	Year of Introduction
CH333	CHEMICAL REACTION ENGINEERING LAB	0-0-3-1	2016

Prerequisite: CH305 Chemical reaction engineering - I

Course Objective

- To expose the students to the fundamental concepts of chemical kinetics and reactor design through experimentation

List of Experiments

1. Isothermal Batch Reactor
2. Isothermal Plug Flow Reactor
3. Isothermal CSTR
4. Packed Bed Reactor
5. RTD Studies in a Packed Bed Reactor
6. RTD Studies in CSTR
7. RTD Studies in PFR
8. Combined Flow Reactor
9. UV Photo Reactor
10. Determination of activation energy
11. Kinetics of reactions
12. Any other experiments related to chemical reaction engineering applicable in chemical engineering field.

Expected Outcome

- The students will be able to determine chemical kinetic parameters using various experimental methods.