Course code	Course Name	L-T-P-Credits	Year of Introduction
CH331	HEAT TRANSFER OPERATIONS LAB	0-0-3-1	2016

Prerequisite : CH202 Process heat transfer

Course Objectives

- To understand the principles of various modes of heat transfer through experimentation

List of Experiments (Minimum of 10 experiments are mandatory)

1. Heat Transfer by Natural Convection
2. Thermal Conductivity of Metal Rod
3. Heat Transfer through Composite Wall
4. Parallel Flow / Counter Flow Heat Exchanger
5. Heat Transfer in Shell and Tube Heat Exchanger
6. Heat Transfer in fins
7. Unsteady state Heat Transfer
8. Heat Transfer in Agitated Vessels
9. Combined convection and radiation heat transfer
10. Radiation heat transfer
11. Film wise Condensation
12. Determination of Critical thickness of insulation
13. Any other experiments related to modes of heat transfer with and without change of phase

Expected outcome :

- The students will be able to find heat transfer properties and characteristics by conducting experiments