

Techno-Social Excellence Marathwada Mitra Mandal's INSTITUTE OF TECHNOLOGY (MMIT)

Lohgaon, Pune-411047.

Department of Mechatronics Engineering

Course Name: Heat and Mass Transfer Class: SE Mechatronics Engineering Course Code: 217542 (2019 Course)

Course Objectives:

- 1. Study of basic concepts and laws of thermodynamics.
- 2. Study of modes of heat transfer and governing laws.
- 3. Study and analysis of Boilers, turbines and heat exchangers

Course Outcomes:

On completion of the course, learner will be able to

- CO1.Demonstrate understanding of basic concepts of thermodynamics
- CO2. Analyze performance of Boilers and steam turbine.
- CO3. Analyze the various power cycles CO4. Identify & explain the three modes of heat transfer (conduction, convection and radiation).
- CO5.Interprint heat transfer by convection and radiation between simple geometry for black and gray surface
- CO6.Design and analyze different heat exchangers