

**SYLLABUS**

**Course:** Heat Transfer  
**SEE:** 80  
**CLA:** 20

**Lab Code:** 15MEL67  
**Exam duration:** 3 hrs  
**Credits:** 02 (L:T:P::01:00:02)

**Co-requisite Courses:** Heat Transfer

**Course Objectives:**

- The primary objective of this course is to provide the fundamental knowledge necessary to understand the behaviour of thermal systems.
- This course provides a detailed experimental analysis, including the application and heat transfer through solids, fluids, and vacuum. Convection, conduction, and radiation heat transfer in one and two dimensional steady and unsteady systems are examined.

**PART-A**

1. Determination of Thermal Conductivity of a Metal Rod.
2. Determination of Overall Heat Transfer Coefficient of a Composite wall.
3. Determination of Effectiveness on a Metallic fin.
4. Determination of Heat Transfer Coefficient in a free Convection on a vertical cylinder
5. Determination of Heat Transfer Coefficient in a Forced Convection Flow through a Pipe.
6. Determination of Emissivity of a Surface.
7. Analysis of steady and transient heat conduction, temperature distribution of plane wall and cylinder using Numerical approach (ANSYS/CFD package).

**PART-B**

1. Determination of Steffan's Boltzmann Constant.
2. Determination of LMDT and Effectiveness in a Parallel Flow and Counter Flow Heat Exchangers.
3. Experiments on Boiling of Liquid and Condensation of Vapour.
4. Performance Test on Vapour Compression Refrigeration.
5. Performance Test on a Vapour Compression Air – Conditioner.
6. Experiment on Transient Conduction Heat Transfer.
7. Determination of temperature distribution along a rectangular and circular fin subjected to heat loss through convection using Numerical approach (ANSYS/CFD package)

**References**

1. M. Necati Ozisik, Heat Transfer – A Basic Approach, McGraw Hill, New York, 2005.
2. Incropera, F. P. and De Witt, D. P., Fundamentals of Heat and Mass Transfer, 5th Edition, John Wiley and Sons, New York, 2006.
3. Holman, J. P., Heat Transfer, 9th Edition, Tata McGraw Hill, New York, 2008.

**Scheme of Examination:**

ONE question from part -A:	25 Marks
ONE question from part -B:	40 Marks
Viva –Voice:	15 Marks
<b>Total:</b>	<b>80 Marks</b>

# Hmt Manual Vtu

**N Colangelo**



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