

Course Title : Heat Transfer

- **Aim:**

An Introduction to Heat Transfer and different mechanisms (convection, conduction, radiation)

- **Syllabus:**

- ✓ Introduction to heat transfer
- ✓ Derivation of one and three dimensional heat transfer equations in cylindrical and spherical coordinates in steady state and unsteady state
- ✓ Forced Convection
- ✓ Forced convection in internal flow
- ✓ Free convection in external flow
- ✓ Radiation heat transfer

- **Reading Resources**

Introduction to Heat Transfer, by Frank Incropera, David Dewitt, Theodore Bergman, Adrienne Lavine