

**Relevant Course: Heat Transfer**

**Relevant Department:** Mechanical Engineering, Aerospace Engineering, Chemical Engineering, Power Engineering, Energy Engineering, Applied Mathematics

**Relevant Semester: 5<sup>th</sup>**

**Pre- requisite:** Engineering Mathematics and Thermodynamics

**Course Description and Outline:**

Introduction to fundamental concept, Derivation of heat conduction equation, Discussion on boundary and initial conditions, One dimensional steady state heat conduction with and without heat generation: plane wall, cylindrical wall, and spherical wall, Concept of critical thickness of insulation, Heat transfer through extended surfaces: fins

**Finalized topic name:** Introduction to Conduction Heat Transfer