

Cankaya University
Faculty of Engineering
Mechanical Engineering Department

ME 510 Conduction Heat Transfer
Course Outline

Spring 2017

Prof.Dr.N. Onur

- 1) Foundations of Heat Transfer
- 2) General Heat Conduction Equation. Initial and boundary Conditions
- 3) Formulation Methods
- 4) Steady One Dimensional Problems .Extended Surfaces.Special Functions
- 5) Steady Two Dimensional Problems.Separation of variables .Orthogonal Functions
- 6) Unsteady problems. Separation of variables .Orthogonal Functions
- 7) Unsteady Problems .Laplace Transforms
- 8) Steady Periodic Problems