Cankaya University

Faculty of Engineering

Mechanical Engineering department

ME 613 Advanced Heat Transfer

Spring 2019

SYLLABUS

1- Foundations of convective heat transfer
2- Fundamental equations of convective heat transfer
3- Governing equations of incompressible external laminar boundary layers
4- Integral methods for convective heat transfer
5- Dimensional analysis
6- Laminar convective heat transfer in incompressible external boundary layers
7- One-dimensional laminar convective heat transfer in channels
8- Laminar convective heat transfer in channels
9- Free convection heat transfer
10- Turbulent flow