



Mechanical Engineering
Indian Institute of Science
Bengaluru, 560 012
India

Indian Institute of Science

E-mail: chair.me@iisc.ac.in
URL: www.mecheng.iisc.ac.in
Telephone: +91 (80) 2293 2332 (office)



ME 274 (JAN) 3:0

Convective Heat Transfer

Instructor(s): Saptarshi Basu, Pramod Kumar

Course description:

Energy equation, laminar external convection, similarity solution, integral method, laminar internal convection, concept of full development heat transfer in developing flow, turbulent forced convection, free convection from vertical surface, Rayleigh-Benard convection.

Prerequisites:

ME 201 and ME 271 Kays, W.M., and Crawford,,M.E., Convective Heat and Mass Transfer, Tata-McGraw Hill. Bejan, A.,,Convective Heat Transfer, John W iley.

Resources:

Outcomes:

Additional information:

Course website: