

## NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Mechanical Engineering - NOC:Convective Heat Transfer

Subject Co-ordinator - Dr. Arup Kumar Das

Co-ordinating Institute - IIT - Roorkee

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

- Lecture 1 - Introduction
- Lecture 2 - Balance of Total Energy
- Lecture 3 - Different Forms of Thermal Energy Equation
- Lecture 4 - Thermal Boundary Layer
- Lecture 5 - Forced Convection
- Lecture 6 - Forced Convection
- Lecture 7 - Forced Convection over a Flat Plate
- Lecture 8 - Natural Convection
- Lecture 9 - Natural Convection
- Lecture 10 - Tutorial
- Lecture 11 - Forced Convection in Ducts
- Lecture 12 - Thermally Developed Slug Flow in a Duct
- Lecture 13 - Thermally and Hydrodynamically Developed Flow
- Lecture 14 - Thermally and Hydrodynamically Developed Flow
- Lecture 15 - Thermal Entrance Region
- Lecture 16 - Thermal Entrance Region
- Lecture 17 - Rayleigh Benard Convection
- Lecture 18 - Heat Transfer with Phase Change
- Lecture 19 - Mass Transfer
- Lecture 20 - Tutorial

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