NPTEL Video Course - Mechanical Engineering - NOC:Experimental Methods in Fluid Mechanics

Subject Co-ordinator - Prof. Pranab K. Mondal

Co-ordinating Institute - IIT - Guwahati

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

Lecture 30 - Constant temperature hot-wire anemometer, LDA
Lecture 31 - Use of PIV
Lecture 32 - Use of PIV (Continued...)
Lecture 33 - Use of PIV (Continued...)
Lecture 34 - Measurement of pitch angle
Lecture 35 - Measurement of torque by dynamometers, straingauge, transducers
Lecture 36 - Measurement of microscale flow features - I
Lecture 37 - Measurement of microscale flow features - II
Lecture 38 - Transient and Frequency response consideration
Lecture 39 - Examples
Lecture 40 - Analysis of experimental data, causes and types of experimental errors
Lecture 41 - Rejection of data
Lecture 42 - Error propagation
Lecture 43 - The Method of Least square with example