



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 298(JAN) 3:0 Fluid Turbulence

Instructor(s): Jaywant H Arakeri

Course description:

Stability of fluid flows, transition to turbulence-introduction to turbulence, Reynolds averaged equations, statistical description of turbulence, vorticity dynamics, similarity methods, turbulent shear flows, Rayleigh Benard convention, modeling and numerical methods.

Prerequisites:

Consent of Instructor Tennekes H and Lumley J L,,A First Course in Turbulence, MIT 1972,Pope S.B., Turbulent Flows, Cambridge, 2000

Resources:

Outcomes:

Additional information:

Course website: