



भारतीय विज्ञान संस्थान

# Proficience Course

Aug-Dec 2025

## Turbomachinery I

O N Ramesh

Dept. of Aerospace Engineering Indian Institute of Science

#### About Us

Centre for Continuing Education Indian Institute of Science, Bengaluru India

Phone: +91 080 2293 2055/2491/2247 E-mail: office.cce@iisc.ac.in

### Objectives

To introduce Turbomachinery fundamentals in a rational framework so as to bolster the Aerothermodynamics of turbomachinery in general and Aeroengines in particular. This is expected to be followed up by a second course in Aeroengine turbomachinery.

Syllabus
Introduction

Dimensional Anlaysis and Simillitude Cascade flows **Axial Flow Turbines Axial Flow Compressors** Centifugal pumps and compressors Aerothermodynamics of Jet propulsion



### Eligibility

B E Mechanical or Aerospace Engineering

#### Prerequisites

Basic courses in Fluid Mechanics Gas Dynamics and Thermodynamics

#### Who will benefit

Gas Turbine and Turbomachinery design **Engineers and Academics** 

#### Schedule Tuesday and Thursay 6:30 to 8 PM

