



**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 255(AUG) 3:0

# Fundamentals of Tribology

**Instructor(s):** M S Bobji

**Course description:**

Surfaces, theories of friction and wear, friction and wear considerations in design, viscosity, hydrodynamic lubrication, Reynolds equation, coupling of elastic and thermal equations with Reynolds equation. Elasto-hydrodynamic lubrication. Mechanics of rolling motion, hydrostatic lubrication, lubricants, tribometry, selection of tribological solutions.

**Prerequisites:**

Halling, J. (ed.), Principles of Tribology, Macmillan, 1975. Seireg

**Resources:**

**Outcomes:**

**Additional information:**

**Course website:**