



**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 288 (JAN) 3:0

### Air Conditioning Engineering

**Instructor(s):** G S V L Narasimhan

**Course description:**

Properties of air-water mixtures, psychrometric chart, air conditioning processes, enthalpy potential, cooling and dehumidifying coils, cooling towers, heat transfer in buildings, comfort air conditioning, cooling load calculations, air conditioning system, design of air delivery systems, clean rooms and laminar flow equipment, air conditioning controls, noise and vibration control in air-conditioned rooms.

**Prerequisites:**

**Resources:**

Jones, W.P., Air Conditioning Engineering, Fifth Edn, Butterworth Heinemann, Oxford, 2001. Croom e, D.J. and Roberts, B.M., Airconditioning and Ventilation of Buildings, Second Edn, Pergamon Press, Oxford, 1981., Haines, R.W., and Hittle, D.C., Control Systems for Heating, Ventilating, and Air Conditioning, Sixth Edn, Springer Science plus Business Media, Inc., NY, 2003, ASHRAE Handbooks (SI Editions): HVAC Applications (2007), Systems and Equipment (2008), Fundamentals (2009).

**Outcomes:**

**Additional information:**

**Course website:**