



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 287 (JAN) 3:0

Refrigeration Engineering

Instructor(s): G S V L Narasimhan

Course description:

Methods of refrigeration, vapour compression refrigeration-standard and actual vapour compression cycles, multipressure systems, compressors, condensers, expansion devices, evaporators, refrigerants and refrigeration controls, component matching and system integration, vapour absorption refrigeration thermodynamics, single stage, dual stage and dual effect systems. Selection of working fluids, design of generators and absorbers, non-conventional refrigeration systems, vapour jet refrigeration.

Prerequisites:

Resources:

Stoecker, W.F., and Jones, J.W., Refrigeration and Air conditioning, Second Edn, Tata McGraw Hill, 1982., Therikeld, J.L., Thermal Environmental Engineering, Prentice Hall, Inc., Englewood Cliffs, New Jersey, 1970., ASHRAE Handbooks (SI Editions): Fundamentals (2009), Refrigeration (2010).

Outcomes:

Additional information:

Course website: