

EME-810 Materials Technology

Credit Hours: 3

Pre-requisites: Nil

Course Contents:

- Materials - Structure & Properties & processing
- Mechanical working of metals & Heat treatment of steels
- Precipitation hardening & Alloying for maximum fracture toughness
- Introduction to polymeric materials

Course Outcomes

- After studying this course, the students will be proficient in utilizing Materials Technology.
- Apply them to the research areas related to Materials & Polymers.

Recommended Reading (including Textbooks and Reference books):

- Materials Science and Technology by John Wiley and Sons, Inc
- James A. Jacobs, Thomas F. Kilduff, Engineering materials technology, Pearson/Prentice Hall, 2005