

ENR209 : Strength of Materials

The study of strength of materials shows the methods of calculating the stresses and strains in structural members such as beams, columns, and shafts. These methods predict the response of a structure when subjected to loading, as well as its susceptibility to various failure modes. The course focuses on types of stresses and strains, thermal effects on material strength, calculation of stresses and strains, normal stress in beams, shear/moment diagrams, and design of simple beams.

Credits 4

Prerequisite Courses

[ENR201: Statics](#)

Semester Offered

Varies