1. **Course Summary**

This course focuses on the development of finite element methods for linear, static structural analysis. The basic tools of the finite element method are described and the formulation of various structural elements is discussed.

2. **Topics to be covered in this course**

2. The assembly and solution processes.
3. Requirements for convergence. The patch test.
6. Stress recovery procedures.
7. The active column solver.
9. The locking phenomenon.
10. Formulation of beam and plate Bending elements.

3. **Reference books**

The following reference text books are useful sources of information:


