

ANSYS

1. ANSYS MECHANICAL APDL/ANSYS WORKBENCH

1. Introduction to CAE Softwares
2. Introduction to FEA
3. Modeling options in ANSYS MECHANICAL ADPL
4. Explanation of Work Plane and hot to import models in ANSYS Mechanical APDL
5. Explanation of Element Types
6. Explanation of how to do Line Mesh, Area or Surface Mesh and Solid Mesh in ANSYS
7. Explanation of how to do Map, Free and Sweep Mesh in ANSYS Mechanical APDL
8. Explanation of how to vary element size and shape in ANSYS Mechanical APDL

2. STRUCTURAL ANALYSIS

1. STRUCTURAL ANALYSIS and its sub types
2. STATIC LINEAR ANALYSIS with examples
3. Model analysis with examples
4. Static non-linear analysis with examples
5. Transient analysis with examples
6. Buckling analysis with examples
7. Design optimization with examples

3. THERMAL ANALYSIS

1. Static thermal analysis with examples
2. Transient thermal analysis with examples