*******(ANSYS)*******

- ❖ Introduction to Engineering Design
- ❖ Different types of Numerical Methods & applications
- ❖ Practical Applications of FEA
- ❖ Basics of Finite Element Method (FEM)
- ❖ Analytical Method to solve any Mechanics Problem
- ❖ Theoretical FEM Procedure to solve above Mechanics Problem
- ❖ Theories of Failure
- ❖ Basic Linear & Torsional Equation
- ❖ Getting Started with ANSYS 11.0
- ❖ CAD Modeling Using ANSYS
- ❖ Introduction to Meshing
- ❖ Types of elements & FEA design intent
- ❖ Meshing Techniques
- ❖ Assigning material properties
- ❖ Working with different boundary conditions
- ❖ Performing Different Analysis & Viewing Results
- ❖ 1D element example Problems
- ❖ 2D Plane Stress/strain example problem
- ❖ 3D Analysis
- ❖ Thermal
- ❖ Coupled field Analysis