



ANSYS

➤ Session 1

- ANSYS
- Introduction to ANSYS
- Engineering Drawing/CAE Design
- Design Solution-(Analytical, Numerical, Experimental)
- FEM/FEA concepts
- One model for the demonstration***

➤ Session 2

- GUI of ANSYS
- Intro to modeling
- Overview on meshing
- Solving Beam problems

➤ Session 3

- Meshing
- Structural/Un structural/Hybrid
- Basic physics behind the meshing
- 1D/2D Meshing
- 2D Truss Problem(Bridge Problem)

➤ Session 4

- Boolean Operations
- Plain Stress
- Uniform Pressure loading and plane stress Bracket
- Types of mesh free and mapped meshing
- Error message Handling
- Element Types-classification, properties

➤ Session 5

- Element Types (cont.)-properties, meshing
- Importing geometry from cad packages
- 2D meshing
- Material Definition
- SPACE Frame example



➤ **Session 6**

- Advanced meshing and Techniques
- 2D map meshing
- 3D meshing-Tetra
- Modeling Using Axisymmetry

➤ **Session 7**

- Finalizing FE model for Analysis
- Creating Quality Mesh
- Buckling
- Eigen values
- Piping P Section

➤ **Session 8**

- Thermal Analysis
- Conduction
- Convection
- Radiation

➤ **Session 9**

- Joints
- Springs
- Substructuring
- Creating Super Elements

➤ **Session 10**

- Coupled Structure
- Melting using element Death
- Contact elements

➤ **Larav Session 11**

- Project Handling
- FEA Reports and Backup
- Contact elements



➤ **Larav Session 12**

- Project Skills
- Concluding Lecture
- General Queries



SOFTCRAYONS TECH SOLUTION (OPC) PVT. LTD.

Plot No. - 693, Sector 14-A, Vasundhara, GZB-201010

Telephone: 0120-4952626, 4262233

Mobile: (+91)-9136366665 , 8545012345

Email: info@softcrayons.com

www.softcrayons.com