

Courses Details for ANSYS

ANSYS is an engineering simulation software founded by software engineer John Swanson. It develops general-purpose finite element analysis (FEA) and computational fluid dynamics software. ANSYS has been the pioneer in the application of finite element methods to solve the engineering design challenges.

ANSYS

[Normal Track - \(2 Months\) or Fast Track - \(1Month\)](#)

- Theory of FEA
- Exploring the GUI
- Graphics picking
- General analysis procedure
- Solid modeling
- Defining Work planes
- Coordinate Systems
- Importing geometry
- Defining element attributes
- Element types
- Generating mesh
- Free meshing
- Mapped meshing
- Defining material
- Defining loads and boundary conditions
- APDL basics
- Select logic
- Solvers
- Post processing
- Structural Static analysis
- Modal analysis
- Transient Dynamic analysis
- Nonlinear analysis-Material Nonlinearity
- Beam analysis
- Thermal analysis
- Coupled Field analysis
- Project