

GradTech

Ansys engineering simulation



Asia's First EdTech
Platform for Core
Engineers

Foundational Track

Module 1: Introduction to Ansys

- Ansys overview
- Ansys UI
- Units in Ansys workbench
- Ansys workbench Database and File format

Module 2: Engg. Data & Design modeller

- Materials & Their Properties
- Creating Own Material Library
- Design Modeler User Interface
- Selection Filter & Plane Sketch
- Control
- Draw Sketch
- Modify Sketch
- Dimensions
- Constraints
- Settings

Module 3: Solid model fundamental

- Extrude
- Revolve
- Sweep
- Loft
- Blend
- Thin & Chamfer
- Pattern
- Primitives

Module 4: Concept and Advance modeling

- Point, Line, Surface, Predefine Shape
- Skeleton Model
- Surface Modelling
- Symmetry, Selection, Freeze & Unfreeze
- Body Operations
- Working with CAD Model

Module 5: Ansys- Mechanical

- Ansys User Interface_ Mechanical
- Mechanical Application Wizard
- Co-ordinate System
- Contact Controls

Module 6: Ansys meshing

- Meshing Introduction
- Sizing, Refinement, Inflation
- Line Body Meshing
- Surface Body Meshing
- Solid Body Meshing

Module 7: Load and support

- Load -1, Load 2 & Load 3
- Support 1 & Support 2

Module 8: Static structural analysis

- Beam Analysis
- Truss Analysis
- Step Bar Analysis
- Bicycle-Frame Analysis
- Pressure Vessel Analysis
- Bicycle Spanner
- Steel Bracket Analysis
- Connecting Rod Analysis

Module 9: Buckling analysis

- Intro to Buckling Analysis
- Linear Buckling Analysis

Module 10: Vibration analysis

- Intro to Vibration Analysis
- Free Vibration Analysis
- Pre-Stress Vibration Analysis

Module 11: Thermal analysis

- Basics of Thermal Analysis
- Important Terms
- Composite Wall Thermal Analysis
- Fin Cooled Electronic Component
- Shell Analysis
- Transient Thermal Analysis

Ongoing real industry project discussion with industry experts

- Project discussion with expert
- Industry expectations from freshers
- Required skills as per industry need
- Networking and some insights
- Growth and development
- Expectations and reality

Interview preparation

- Aptitude and English
- Corporate ethics and etiquette
- Formal mail practice
- Group discussion
- How to handle interview questions
- Salary negotiation skills
- LinkedIn networking
- Mock interviews

Ready to turn your dreams into reality?

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