SLOG SOLUTIONS PRIVATE LIMITED TECHNOLOGY : <u>ANSYS</u>

DURATION: MODULE 1 (4 WEEKS)

INTRODUCTION

- About ANSYS
- ANSYS Basics
- Mechanics
- What is FEA?
- History Of FEM
- Need Of FEM
- Future Of FEM
- BASICS OF FEM
 - * FEM Procedure (Theoretical)
 - Steps In FEM
 - Theories Of Failure
 - Different Types Of Analysis
 - ✤ FEA Design Intent
- Getting Started with ANSYS
 - ANSYS Workbench Environment
 - ✤ Understanding GUI
 - Manipulating Model
 - Standard Toolbar
 - ANSYS Toolbar
 - File Types
 - The Database & Files

CAD MODELING USING ANSYS

- WorkPlane
- * Co-ordinates System & Units
- Different Types Of Modeling
- Methods of Solid Modeling
- Component & Assembly Management

- Simulating Bolted Joint
- Simulating Leakage IMPORTING GEOMETRY FROM OTHER CAD PACKAGES
 - Understanding Different Import Formats
 - * Working With IGES Files
 - Geometry Cleanup For Meshing
- > MESHING (BASIC)
 - Introduction
 - Classifications Of Elements
 - Use Of Meshes
 - Types Of Meshes

> MESHING (ADVANCE) & TECHNIQUE

- * Mesh Generation
- Different Techniques Involved In Meshes
- Manual Meshing

> FINALIZING FE MODEL FOR ANALYSIS

- Element Quality Area
- Quality Check Is Mesh
- Material
- Conditions For Boundary

> ADVANCE BOUNDARY CONDITIONS

- Application Of Mass Elements
- Application Of Rigid Elements
- *
- Mesh Generation

> HANDLING PROJECTS

- Steps In FEA
- Integrative and Dead-end FEA

> PROJECT SKILLS

- Possible Errors
- * Report Generator

> PROJECTS

- Power Transmissions Tower
- * Bicycle Frame
- --Any Many More-



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