



## **Mechanical Designer Advance**

**Duration: 6 Month**

**(100% Placement Assistance)**

### **Course 1: AutoCAD Mechanical (40 Days)**

**Content:** Introduction To CAD, Understanding Drawings, Creating Geometry Tool, Manipulating Geometry Tool, Object Property & Layer Management, Mechanical Part Generators, Creating Drawing Sheets, Dimensioning And Annotating Drawing, File Management, Introduction to 3D

**Live Project**

### **Course 2: CATIA for Mechanical Engineers (60 Days)**

**Content:** Introduction To CATIA v5, Profile Creation, Part Design 3D, Dress-up Features, Reusing Data, Finalizing Design Intent, Sharing Information, Assembly Design, Drafting, Wireframe & Surface Design, Introduction to Surface Design, Creating Surfaces, Performing Operations on the Geometry, Completing the Geometry in Part Design, Sheet metal Products, Kinematics' & Simulation on CATIA

**Live Project**

### **Course 3: Any one course among Solidworks/ Creo/ NxCAD**

#### **Option 1: Solidworks for Mechanical Engineers (55 Days)**

**Content:** Solidworks Fundamental, Profile Creation, Part Design 3D, Dress-up Features, Finalizing Design Intent, Assembly Design, Drafting, Introduction to Surface Design, Creating Surfaces, Performing Operations on the Geometry, Completing the Geometry in Part Design, Sheetmetal Products, Simulation

**Live Project**

#### **Option 2: Creo for Mechanical Engineers (45 Days)**

**Content:** Introduction to Creo Parametric Concept, Solid Modeling in Creo, Advanced Selection, Creating Sweeps and Blends, Relations, Parameters & Family Tables, Measuring, Inspecting Models, Introduction to Assembly & Restructuring, Surfacing Modeling in Creo, Drafting in Creo, Sheetmetal Design in Creo

**Live Project**

#### **Option 3: NX CAD (Unigraphics) for Mechanical Engineers (50 Days)**

**Content:** Introduction to NX Fundamental, Sketcher window, Manipulating Commands for Sketcher, Part Modeling, Examining the structure of a model, Introduction to Assembly, Introduction to Drafting, NX Synchronous Modeling Fundamentals, NX Sheet Metal

**Live Project**

## **Course 4: ANSYS Workbench & Mechanical APDL(40 Days)**

### **Content: ANSYS Workbench**

Introduction to FEA and ANSYS Workbench, Design Modeler, Mechanical Basics, General Preprocessing, Meshing, Static Structural Analysis, Vibration Analysis, Thermal Analysis, Results and Post processing

### **ANSYS Mechanical APDL**

Selection Logic, Solid Modeling, Meshing, Material Properties, Boundary Conditions, Solvers, Post-processing, Static Structural Analysis, Modal Analysis, Thermal Analysis, Tips & Tricks

### **Live Project**

- **Interview Preparation**
- **GD&T**

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