



Mechanical Designer Professional

Duration: 1 Year

(100% Placement Assistance)

Course 1: AutoCAD Civil (35 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: Computer Aided Design (CAD) using Fusion 360

Content: CAD Part, 2D Sketching: Sketch, Constraints and Dimensions, 3D modeling, Apply joints to an Assembly, Assembly Techniques, Drawing Views, Create Form, Symmetry, Bridge and Thicken Bodies, Insert Crease & Edge, Surfacing, Rendering, Creating and stl (3D print) file, Managing and Collaborating Fusion 360 Data

CAE Part,

Introduction to Finite Element Analysis, Steps in Finite Element Analysis, Meshing, Material Properties, Loading & Boundary Conditions, Static Structural Analysis, Frequency Analysis, Animation, Reports

Live Project

Course 3: CATIA for Mechanical Engineers (55 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 4: Any one course among Solidworks/ Creo/ NxCAD

Option 1: Solidworks for Mechanical Engineers (50 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 (50 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 5: ANSYS Workbench & Mechanical APDL

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**
- **Live Project**
- **Basic of Engineering Design & Material**
- **GD&T**
- **Experience on Project Assistance**

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