



Computer Aided Design (CAD) using Fusion 360

Duration: 40 Days

Course Content

1. CAD Part

- Introduction to Autodesk Fusion 360
- Fusion 360 GUI
- Utilize Autodesk 360 to manage your designs
- Data Panel
- 2D Sketching: Sketch, Constraints and Dimensions
- Holes and Thread Features
- Fillets and Chamfers
- Mirror Features
- Construction Planes
- Pattern of Features
- Shell & Split Features
- Rib & Web Feature
- 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

2. 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

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