SolidWorks Design

Mechnical Engineering

Eligibility

B.Tech/BE in Mechnical Engineering

Diploma in Mechnica Engineering

Training Duration

- Full Time : 1.5 Months (Monday-Friday)
- Part Time : 2.5 Months (Saturday-Sunday)
- Online   : 2 Months
- Distance : 3 Months

Course Outline

SKETCH
- Introduction and Understanding Planes
- Sketching a Line, Modifying a Line
- The Rectangle Tool, Drawing a Shapes
- Editing a Sketch
- Editing a Feature
- The Circle and Smart Dimension Tools
- Setting Units on the Document Options
- The Centerpoint Arc and Tangent Arc Tools
- 3 Point Arc ,Sketch Fillet and Undo Tools
- Spline , Polygon, Ellipse Parabola, Offset
- Convert Entities, Point, Trim, Extend, Split Entities
- Jog Line, Mirror Entities
- Using Dynamic Mirror, Move Entities, Rotate Entities, Copy Entities, Scale Entities
- Centerline, Linear Sketch Pattern, Circular Sketch Pattern
- Text, Adding Relations, Sample Problems

PART
- Introduction Extrude Boss/Base
- Extruded Cut, Hole Wizard, Fillet, Chamfer
- Revolved Boss/Base, Revolved Cut
- Lofted Boss/Base, Swept Boss/Base
- Rib, Draft, Shell, Linear Sketch Pattern
- Circular Sketch Pattern, Curve Driven Pattern
- Sketch Based Pattern, Mirror, Editing Features
- Using Materials, Creating Links b/w Dimensions
- Rebuilding Drawings, Reference Geometry
- Using Curves, Wrap, Dome, Mirror
- Using Design Library, Setting 3D Views, Section View, Visualization, Setting Appearance

- Using Add-ins, Evaluating Drawing, Introduction to Sheet metal
- Forming Tools, Sample Problems, Working with Photo Works

ASSEMBLY AND MOTION STUDY
- Introduction Inserting Components
- Mates, Setting Exploded and Unexploded View
- Move and Rotate Component
- Understanding Motion Study, Motor, Force, Gravity
- Animation Wizard, Results and Plots, Motion Study Properties
- Motion Analysis, Stress Test, Creating Videos

Drawing
- Introduction Drawing Orthographic Views
- Adding Sheets
- Section Views, Broken Views, Detail Views, Auxiliary Views
- Setting Smart Dimensions
- Creating an Exploded Isometric Drawing
- Assembly Numbers
- Bill of Materials (BOM)
- Creating Tables, Title Blocks

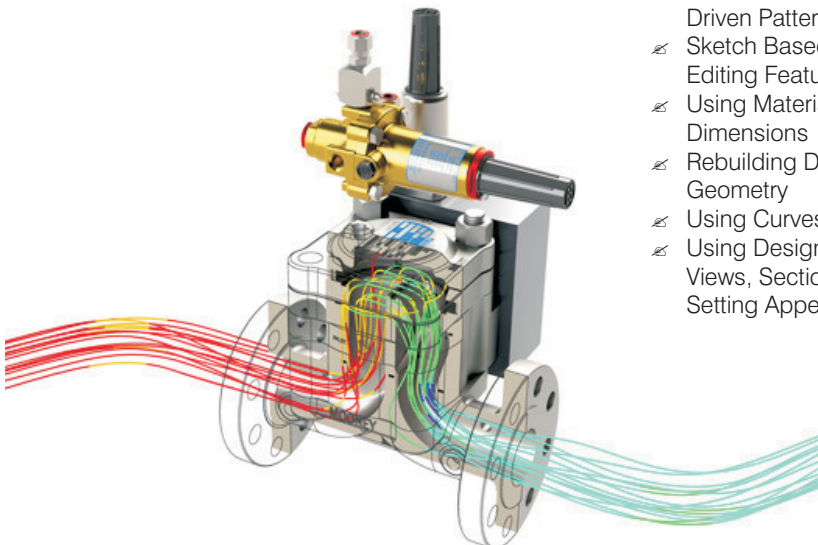### Photo View
- Understanding Photo View
- Opening Parts
- Appearances
- Environments
- Settings, Render
- Saving Files in different formats

Edrawings
Understanding eDrawings
- Setting Password
- Viewing Different Views
- Mass Properties
- Sectioning Views
- Converting eDrawing into .html and .exe format