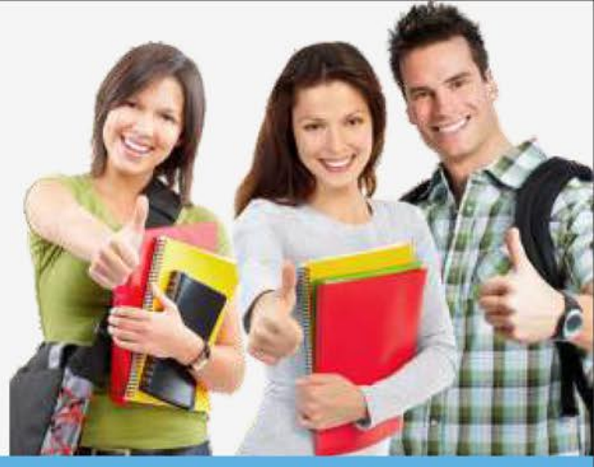
CATIA



CURRICULUM

» I. INTRODUCTION

- Dassault Systems and Products.
- CATIA, PLM and Industries using CATIA V5-6 R2012.
- Parametric/ Feature based modeling concept
- Supported File Formats
- Syllabus modules
- Starting CATIA V5 R2012
- Customization of Workbench and entering a workbench.
- Mouse navigation
- Toolbars
- Hot Keys
- Color Schemes
- General Commands
- Design Intent

» II. WORKBENCHES

- Sketcher
- Part Design
- Surface Design
- Assembly design
- Drafting
- Sheet Metal Design

» III. SKETCHER

- Entering the sketcher workbench
- Toolbars
  - Workbench
  - Standard
  - Sketch Tools
  - Profile
  - Operation
  - Constraint
  - View
  - Properties
  - Visualization
  - User Selection Filter
- Customisation and Options
  - General
  - Display
  - Parameters and Measure
- Tips and Workshop

» IV. PART DESIGN

- Common Toolbars
  - Standard
  - View
  - Workbench
  - Select
- Sketcher Toolbar
- Sketch Based Features
  - Pad
  - Pockets
  - Shaft
  - Groove
  - Hole
  - Rib
  - Slot
  - Solid Combine
  - Stiffener
  - Multi-sections Solid
  - Remove Multi-Sections Solid
- Dress Up Features
  - Fillets
  - Chamfers
  - Drafts
  - Shell
  - Thickness
  - Thread /Tap
  - Remove Face

- Transformation Features
  - Translation
  - Rotation
  - Symmetry
  - Mirror
  - Patterns
  - Scaling
- Apply Material Toolbar
- Tips and Workshop

» V. SURFACE DESIGN

- Wireframe Toolbar
  - Points
  - Lines
  - Planes
  - Projection
  - Intersection
  - Spline
  - Connect
  - Helix
  - Circle
- Surface Toolbar
  - Extrude
  - Revolve
  - Sphere
  - Cylinder
  - Offset
  - Sweep
  - Fill
  - Multi section
  - Blend
- Operation Toolbar
  - Join
  - Disassemble
  - Heal
  - Split
  - Trim
  - Boundary
  - Extract
  - Extrapolate
  - Transformation
- Surface and Solids Interaction
- Tips and Workshop

» VI. ASSEMBLY DESIGN

- Top Down and Bottom Up Assembly
- Common Toolbars
- Product Structure Tools
- Move and Manipulating parts using compass
- Constraints
- Assembly Features
- Catalogue
- Measure
- Tips and Workshop

» VII. DRAFTING

- Page set up and Customization
- Layouts and Templates
- Common Toolbars
- Generative Design Toolbars
  - Geometry Creations
  - Modification Tools
- Interactive Design Toolbars
  - Generating Views
  - Billing of Materials
  - Generate Dimensions
- Dress Up
- Dimensioning
- Annotation
- GD & T
- Tips and Workshop

» VIII. SHEET METAL DESIGN

- Generative sheet metal design
  - Creating Base Wall
  - Creating Wall On Edge
  - Creating Extrusions
  - Creating Swept Walls
  - Creating Bend
  - Bend from Flat
  - Rolled Walls
  - Folding and Unfolding Sheet Metal Parts
  - Flat Patterns of Sheet Metal Components
  - Viewing a Sheet Metal Components in Multiple Windows
- Common Toolbars
- Cutting
- Stamping
  - Creating a Surface Stamp
  - Creating a Bead Stamp
  - Creating a Curve Stamp

- Creating a Flange Cut Out Stamp
- Creating a Louver Stamp
- Creating a Bridge Stamp
- Creating a Flanged Hole Stamp
- Creating a Circular Stamp
- Creating a Stiffening Rib Stamp
- Creating a Dowel Stamp