

ZENUS INFOTECH INDIA PVT. LTD.

CURRICULUM OF CATIA

Course Duration: 6/8 Weeks*

Introduction

Dassault Systems & products
CATIA, PLM & Industries using CATIA.
Parametric / Feature based Modeling
Concept
Supported file formats (open /Import & save / export)
Syllabus modules
Starting CATIA its GUI
Customization of workbench & entering a workbench
Mouse Navigation
General commands (new file, open, save, save as, close) & keyboard shortcuts & Mouse Gestures
Design Intent

Sketcher Workbench

Entering the Sketcher workbench Sketch & Positioned Sketch
Toolbars
Workbench
Standard
Sketch tools
Profile
Operation
Constraint
View
Properties
Extra toolbars like Visualization, Select, User selection Filter
Customization & options
General
Display

Parameters & measure
Mechanical Design? Sketcher

Part design Workbench

Common toolbars like standard, view, workbench, select
Sketcher toolbar
Sketch-based features (Pads, Pockets, Shaft, Groove, Hole, Rib, Slot, Solid Combine,
Stiffener, Multi-Sections Solid, Remove Multi- Sections Solid)
Dress-up features (Fillet, Chamfer, Drafts, Shell, Thickness, Thread/Tap, Remove Face)
Transformation features (Translation, Rotation, Symmetry, Mirror, Patterns, Scaling
Apply material toolbar

Wireframe & surface Design Workbench

Common toolbars
Wireframe toolbar (Points, Lines, Planes, Projection, Intersection, Spline, Connect, Helix, Circle)
Surfaces toolbar (Extrude, Revolve, Sphere, Cylinder, Offset, Sweep, Fill, Multi-section, Blend)
Operations toolbar (Join, Disassemble, Heal, Split, Trim, Boundary, Extract, Extrapolate Transformation)
Surface & solids interaction Part Design
Surface-Based Features Toolbar

Assembly Design Workbench

Top-down & Bottom-up assembly Design approach.

Common toolbars

Product structure tools

Move & manipulating parts using

Compass.

Constraints

Assembly features

Catalogue

Measure.

Tips & Workshop

Drafting Workbench

Page setup & customization

Layout & templates

Common toolbars

Generative design toolbars

Geometry creation & modification, Tools

Interactive design toolbars?

Generating views & Generate BOM,

Generate dimension

Dress-up

Dimensioning

Annotations

SHEETMETAL DESIGN

Introduction To Sheet Metal Design

Generative Sheet metal Design

Entering The Sheet metal Workbench

Process Of Sheet Metal Designing

Sheet metal Parameters & Its Importance

Sheet metal Wall

Types Of Walls

Profile Based Wall

Extruded Wall

Creating A Multi-Connected Profile Walls

Additional Types Of Walls

Tangent Walls

Creation Of Walls On The Edge

What Is Bend

Bending A Flat Sheet

Folding & Unfolding Of The Faces

Creating Relief On The Corner

Flange & Its Types

Features Of Sheet metal

Creating Holes In Sheet

Stamp & Its Role In Industry

Standard Stamps

Opening Faces of Stamp

Translating Created Sheet with Parameters

Rotating Sheet metal Parts

Pattern And Its Types

Mirroring The Features

Unfolded View

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