

Session 1: INTRODUCTION TO CATIA.

- Format
- Workbench
- Customize Environment
- Mouse button hot keys
- Catia V5 Hot keys
- Catia V5 Documents
- Save Management
- Product Tree
- Compass Views

Session 2:- SKETCHING

- Sketching Overview
- Lines & Rectangles.
- Circle – Profile
- Conic Shapes
- Quick Trim, Fully Defined Sketch
- Corner, Chamfer.
- Rotate, Scale.

Session 3: SKETCHING Contd...

- Symmetry & Mirror
- Spline
- Hide or show, Visible space
- Fix together
- Project edges
- Dimension Sketches
- Auto Constraint
- Contact Constraint
- Sketch Analysis



Session 4:

A) Solid Modeling Intro

B) Part Design

- Pad
- Pocket
- Shaft, Groove
- Multipad, Multipocket
- Rib
- Slot
- Hole
- Rectangular and circular patterns.
- Fillets
- Chamfer

Session 5: Part design Contd...

- Draft & Shell
- Translate, Rotate
- Symmetry, Mirror
- Scaling
- Planes
- Multi Section Solid
- Apply Material
- Apply Colour
- Apply Transparency
- Part Details

Section 6: Part design Contd...

- Measure tools Overview
- Boolean Operations Overview
- Create Boolean Bodies
- Boolean Add and it's Application
- Boolean Remove and its Application
- Boolean Intersect and its Application
- Example



Session 7: Drafting

- Drawing Intro
- Insert Drawing Views
- Drawing display
- Section Views
- Detail Views
- View Scale
- Linear dimension
- Angular Dimension
- Radial Dimension
- Diameter dimension
- Precision Dimension
- Anchor Points
- Inserting GD & T
- Print Settings.

Session 8: Assembly

- Assembly intro
- Inserting Components
- Constraint VS Positional assemblies
- Update
- Coincidence constraint
- Contact Constraint
- Offset Constraint
- Angle Constraint
- Fix Constraint
- Manipulation
- Compass positioning
- Snap
- Constraint Assembly Example
- Positional assembly Example
- Explode



Session 9: Surface Design

- Surface Intro
- Multi section – Extrude
- Fillet-Boundary-Sweep- join-Thick Surface
- Sew Surface-offset
- Sweep-Symmetry
- Sweep
- Fill
- Split
- Finishing the example Part
- Revolve sphere-Close-Surface

Session 10: Sheet metal Design

- Wall-surface-stamp
- Curve stamp
- Circular Stamp- Wall on edge
- User defined stamps
- Example which uses all the other options.