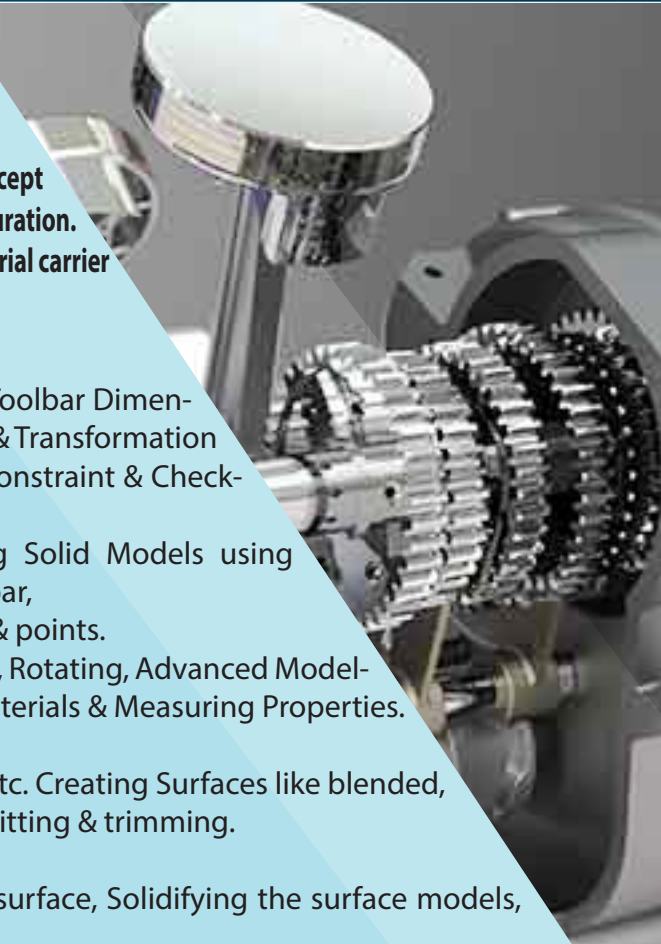


GENIUS COMPUTER ACADEMY

PLACE WHERE QUALITY MATTERS

CATIA V5



A Course Especially for Engineers and Designers:

This course is designed specially for technical people. This Course explains both concept Design for Mfg. & Design for Analysis & gives maximum knowledge in minimum duration. The syllabus is designed according to the Industry standards. For any type of Industrial carrier in 3D Modeling, Catia V5 is the most popular & commonly used software.

Syllabus:

Sketcher Workbench: Creating 2D Geometry, Working on Profile Toolbar Dimensioning the Sketches, Modifying and Constructing using Operation & Transformation Toolbar, Applying Constraints & Constraint Definition, Animating constraint & Checking Various Mechanisms

Part Design: Understanding Part Design Environment, Creating Solid Models using Sketch-Based Features, Working with Dress-Up Features, View Toolbar, Creating & Working efficiently on Reference Elements Planes, lines & points. Editing - Updating Features, Transformation Features e.g. Patterning, Rotating, Advanced Modeling Techniques e.g. Boolean Operations, Annotations, Assigning Materials & Measuring Properties.

Surface Design:

Basic Task: Creating Wireframe elements e.g. helix, splines, Curves, etc. Creating Surfaces like blended, lofted surfaces, etc. Operations on Shape Geometry e.g. Joining, splitting & trimming.

Advanced Task: Surface Operations like Healing, Extracting, etc.

Handling with Curves, Extrapolating surfaces, Splitting body with surface, Solidifying the surface models, Sewing Surface with Solid body.

Assembly Design: Creating Bottom-up Assemblies, Inserting Components, Using Smart Move tool, Applying Constraints, Creating Top-down Assemblies, Working with Subassemblies, Editing Assemblies, Simplifying Assembly, Interference Detection, Sectioning & exploding assembly.

Drafting Workbench : Generating Drawing View with 1st angle or 3rd angle, Using Wizard, Generating Projected, Auxiliary, Section, Detailed views, etc Using Control knob, Editing Views, Generating Dimensions, Inserting Sheets, Adding Datum, Geometric Tolerances & symbols, Generating BOM table.

Sheet Metal workbench: Creating Planer walls on edge, Extrusion, Flange. Generating Stamping with various types. Bending the Sheet with various Bends. Cutting & Stamping Techniques, Transformation Toolbar e.g. Patterning, Mirroring. Applying Bending & Unbending.

Pre-requisites: Mechanical / Production Engineering / Diploma / ITI

Student version: - Total Duration: (78 Hours)

Professional version: -Total Duration: (110 Hours)

Branch 1: 6 & 6A, C Wing, Parmar Plaza, Wanowrie, Fatimanagar, Pune- 411040

Branch 2: 1st Floor, Sarvaswi Apartment, Behind Sinhgad College Campus, Ambegaon, Pune-411046