CATIA SYLLABUS

CATIA Interface & Setup

- Workbenches Overview
- Toolbars & Specification Tree
- View Controls
- Units & Settings
- File Management

Sketcher Workbench (FOUNDATION 🔥)

- Sketch Tools
- Constraints
- Geometric Constraints
- Dimensional Constraints
- Fully Constrained Sketch
- Sketch Analysis

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Part Design Workbench (CORE 🔥)

- Pad
- Pocket
- Shaft
- Groove
- Hole
- Fillet
- Chamfer
- Draft
- Shell

Advanced Part Modeling

- Boolean Operations
- Multi-Body Design
- Rib
- Slot
- Patterns
- Transformation Features

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Reference Elements

- Planes
- Axes
- Points
- Use of Reference Geometry

Assembly Design Workbench

- Creating Assemblies
- Fixing & Constraining Parts
- Assembly Constraints
- Exploded Views
- Clash Detection

Drafting Workbench

- Creating Drawing Views
- Dimensions
- Tolerances
- Surface Finish Symbols
- Title Blocks
- BOM

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Surface Design (ADVANCED 🔥)

Using Generative Shape Design (GSD)

- Wireframe Elements
- Surface Creation
- Surface Analysis
- Trim & Join
- Healing Surfaces
- Surface to Solid Conversion

Sheet Metal Design

- Wall
- Bend
- Flange
- Corner Relief
- Flat Pattern
- Sheet Metal Drawings