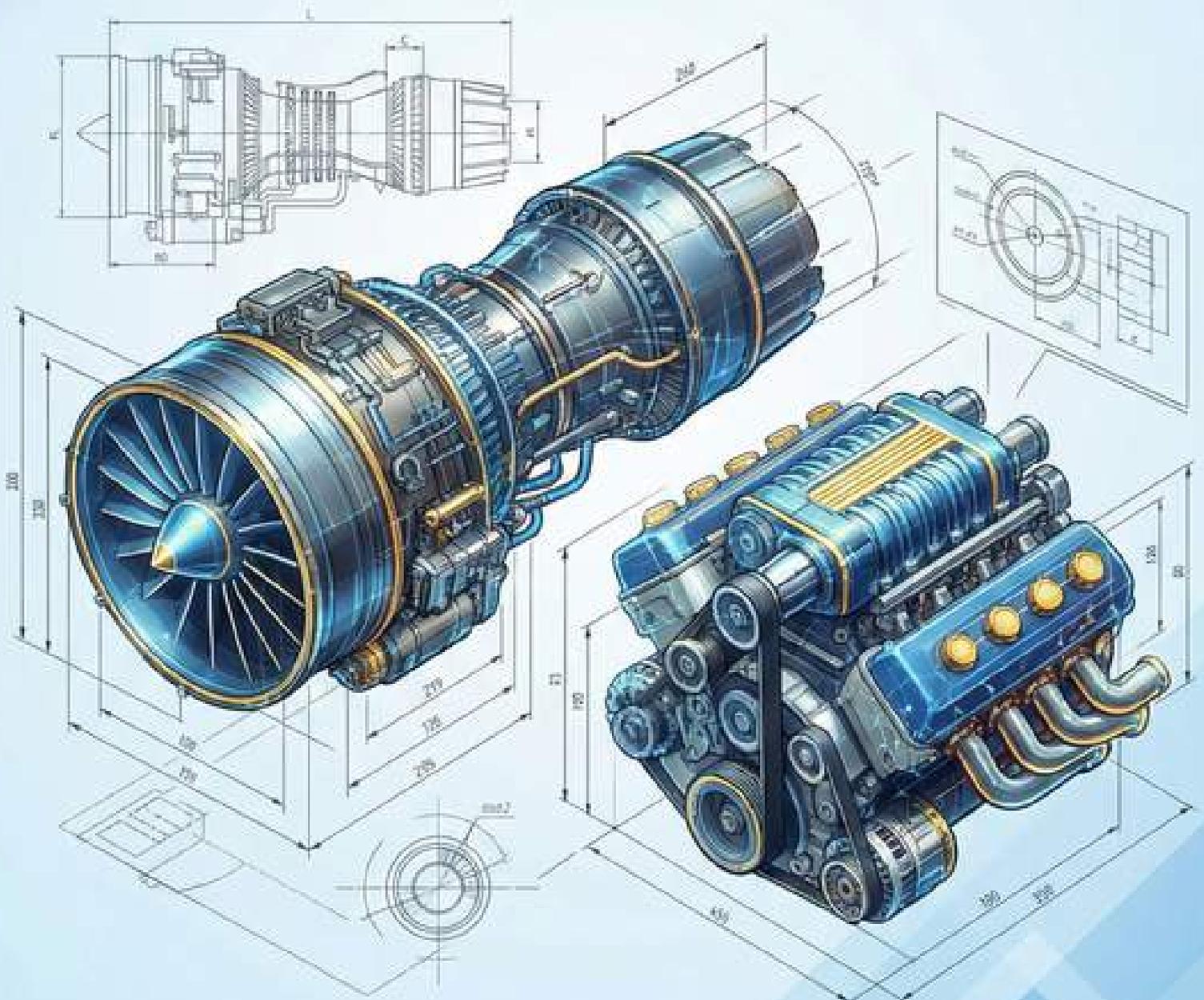




CATIA SYLLABUS – 2026



CATIA

LEVEL - 1 (ESSENTIAL)

2D



3D



ASSEMBLY

DRAFTING



BEGINNER TO ESSENTIAL LEVEL

NO.1.AUTHORIZED CAD TRAINING INSTITUTE IN COIMBATORE

LEVEL-1 (Essential)

2D

SESSION	Topic	Commands	Hrs
1	2D	<p>Catia Introduction</p> <p>Units</p> <p>Apply Scene</p> <p>Plane Introduction</p> <p>Line</p> <p>Profile</p> <p>Rectangle</p> <ul style="list-style-type: none"> • Oriented Rectangle • Centered Rectangle <p>Circle</p> <p>Arc</p> <ul style="list-style-type: none"> • 3 Point Arc • 3 Point arc starting with limits Arc <p>Trim</p> <ul style="list-style-type: none"> • Quick Trim <p>Dimension</p> <ul style="list-style-type: none"> • Dimensional Constraints • Automatic Dimensional Constraints 	45 Min

SESSION	Topic	Commands	Hrs
2	2D	Fully Defined Concepts Shortcuts Relation Slot <ul style="list-style-type: none"> Elongated Hole Cylindrical Hole Keyhole Profile Mirror Translate Rotate Fillet Chamber Offset	45 Min

SESSION	Topic	Commands	Hrs
3	2D	Circle <ul style="list-style-type: none"> Circle using coordinates Tri-Tangent Circle Rectangle <ul style="list-style-type: none"> Parallelogram Centered Parallelogram Line <ul style="list-style-type: none"> Bi-Tangent Line Bi-Secting Line normal to curve Construction Standard Elements Snap to points Axis Symmetry Scale Trim <ul style="list-style-type: none"> Break Close Arc Complement 	45 Min

SESSION	Topic	Commands	Hrs
4	2D	Point <ul style="list-style-type: none"> • Point by clicking • Point by using coordinates • Equidistant Point • Intersection Point • Projection Point • Align Points Ellipse <ul style="list-style-type: none"> • Parabola by focus • Hyperbola by focus • Conic Spline <ul style="list-style-type: none"> • Connect • Constraint • Contact Constraint • Revision 	45 Min

3D

SESSION	Topic	Commands	Hrs
5	3D	3D Drawing - Concept: 1.Natural Plane 2.Referance Plane <ul style="list-style-type: none"> • Parallel Plane • Mid Plane • Diagonal Plane • Inclined Plane 3.Surface Method Pad <ul style="list-style-type: none"> • Drafted Filleted Pad • Multi Pad Pocket <ul style="list-style-type: none"> • Drafted Filleted Pocket • Multi Pocket Fillet Chamber Stiffener Fly Mode Fit in all Pan Rotate Zoom in Zoom Out Normal View Isometric View Shaded View Hide /Show Swap Visible Space	45 Min

SESSION	Topic	Commands	Hrs
6	3D	Rectangular Pattern Circular Pattern User Pattern Mirror Shaft Groove Axis Point Coordinates Draft Shell Fillet <ul style="list-style-type: none"> • Face-Face Fillet • Tritangent Fillet 	45 Min

SESSION	Topic	Commands	Hrs
7	3D	Helix & Sprial Rib Slot Multi Sections Solid Removed Multi Sections Solid Draft Angle <ul style="list-style-type: none"> • Draft Reflect Line • Variable Angle Draft Translation Rotation Symmetry Axis to Axis	45 Min

SESSION	Topic	Commands	Hrs
8	3D	Hole Thread Solid Combine Annotation Text with Leader <ul style="list-style-type: none"> • Text • Text Parallel to Screen Flag Note With Leader View From Reference Display Text Scaling <ul style="list-style-type: none"> • Affinity 	45 Min

SESSION	Topic	Commands	Hrs
9	3D	Revision Advance 3D <ul style="list-style-type: none"> • Apply Material • Measure Inertia 	45 Min

ASSEMBLY

SESSION	Topic	Commands	Hrs
10	Assembly	Existing Components Product Part Component Move <ul style="list-style-type: none"> • Manipulation Coincidence Constraint Contact Offset Angle Fix Fix Together Exploded	45 Min

SESSION	Topic	Commands	Hrs
11	Assembly	Snap (smart move) Explode Stop Manipulate on Clash Quick Flexible/Rigid sub Assembly Change Reuse Pattern Replace Components	45 Min

SESSION	Topic	Commands	Hrs
12	Assembly	Mechanisms : Digital Mockup Dmu Kinematics <ul style="list-style-type: none">• Prismatic Joint• Cylindrical Joint• Screw Joint• Revolute Joint• Spherical Joint• Planar Joint• Rigid Joind• Gear Joind• Rack Joind Fixed Part Simulation Update Revision	45 Min

DRAFTING

SESSION	Topic	Commands	Hrs
13	Drafting	<p>Empty Sheet</p> <p>All Views</p> <p>First Angle</p> <p>Third Angle</p> <p>Views :</p> <p>Projection</p> <ul style="list-style-type: none"> • Front • Unfolded View • View From 3D • Projection • Auxillary • Isometric • Advanced Front <p>Sections</p> <ul style="list-style-type: none"> • Offset Section View • Aligned Section View • Offset Section Cut • Aligned Section Cut <p>Details View</p> <ul style="list-style-type: none"> • Detail View • Detail View Profile • Quick Detail View • Quick Profile <p>Clippings</p> <ul style="list-style-type: none"> • Clipping View • Clipping View Profile • Quick Clipping View • Quicl Profile <p>Break View</p> <ul style="list-style-type: none"> • Broken View • Breakout View <p>Image Insert</p> <p>Sheet Background</p> <p>Frame and Title Block</p> <p>Manage Frame and Title Block</p> <p>Working Views</p> <p>PDF Generates</p>	45 Min

SESSION	Topic	Commands	Hrs
14	Drafting	<p>Annotation</p> <p>Text</p> <ul style="list-style-type: none"> • Text With Leader • Text Replicate • Balloon • Datum Target <p>Table</p> <p>Generation Dimension</p> <ul style="list-style-type: none"> • Generate Dimension Step by step • Balloons • Bill of materials <p>Dress-up</p> <p>Axis & Threads</p> <ul style="list-style-type: none"> • Centerline • Centerline Reference • Thread • Thread With Reference • Axis Line • Axis Line & Centerline <p>Areafill</p> <ul style="list-style-type: none"> • Area Fill Creations • Area Fill Creations Modifications <p>Arrow</p> <p>Symbols :</p> <ul style="list-style-type: none"> • Roughness Symbol • Welding Symbol • Weld Symbol • Add Leader 	45 Min

SESSION	Topic	Commands	Hrs
15	Drafting	GD & T Datum Feature Revision	45 Min

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CATIA

LEVEL - 2 (PROFESSIONAL)

WELDMENTS



SHEET METAL



SURFACE



LEVEL-2 (Professional)

WELDMENTS

SESSION	Topic	Commands	Hrs
16	Weldments	Structure Design Grid Plane System Shape Cutback <ul style="list-style-type: none"> • Normal cut • Weld cut • Miter cut • Remove • Trim to Plane • None Cutout Standard Endcut Contextual End cut Standed Slot Contextual Slot Plate End Plate Split Merge Small Assembly Structure Piece Part Generator Copying Plates and Shapes	1 hr 45 Min



SHEETMETAL

SESSION	Topic	Commands	Hrs
17	Sheetmetal	Generative Sheetmetal Design Parameters Wall Wall on Edge Flange Hem Tear Drop User Flange Cutout Corner Chamfer Bend Fram Flot Mirror Rectangular Pattern Circular Pattern User Pattern	1 hr 45 Min

SESSION	Topic	Commands	Hrs
18	Sheetmetal	Extrusion bend Conical Bend Folding Unfolding Hole Circular Cutout Corner Relief Stamping Types : <ul style="list-style-type: none"> • Surface Stamp • Bead • Curve Stamp • Flanged Cutout • Louver • Bridge • Flanged hole • Circular Stamp Stiffening Rib Dowel Userstamp Hopper Rolled Wall	1 hr 45 Min

SURFACE

SESSION	Topic	Commands	Hrs
19	Surface	Surface introduction Wireframe & Surface Design : Extrude Revolve Sphere Cylinder Offset Sweep Fill Multi-Section Surface Trim join Thick Surface	1 hr 45 Min

SESSION	Topic	Commands	Hrs
20	Surface	Blend Projection Intersection Split Healing Untrim Disassemble Boundary Extract Extrapolate Unfold Cathybrid Part Transfer Translate Rotate Symmetry Scaling Affinity Axis to Axis	1 hr 45 Min



Staff Sign