

Sessions	Topics
Session 1	<ul style="list-style-type: none"> • Introduction to CATIA V5 • Understanding View Manipulation
Session 2	<ul style="list-style-type: none"> • Introduction to Sketcher • Profile Creation Using • Understanding Sketch Tools • Creating Construction/ Standard Element • Applying Geometrical/ Dimensional Constraints • Understanding User Selection Filter toolbar • Understanding Visualization Toolbar
Session 3	<ul style="list-style-type: none"> • Editing Profile using • Corner • Chamfer • Relimitations • Transformation • 3D Geometry • Understanding Constraints • Constraints • Constraint Creation • Contact Constraint • Fix together • Auto Constraint • Animate Constraint • Edit Multi - Constraint • Sketch Analysis
Session 4	<ul style="list-style-type: none"> • Introduction to Part Design • Creating Sketch-Based Features • Pad Definition • Drafted Filleted Pad Definition • Pocket Definition • Drafted Filleted Pocket • Shaft Definition • Groove Definition • Hole Definition • Creating Reference Element • Plane Definition
Session 5	<ul style="list-style-type: none"> • Creating Sketch-based Feature • Rib Definition • Slot Definition • Stiffener Definition • Solid Combine Definition • Applying Dress-Up Features • Edge Fillet Definition • Variable Fillet Definition • Chordal Fillet Definition • Face-Face Fillet Definition • Tritangent Fillet Definition <ul style="list-style-type: none"> ○ Chamfer Definition .
Session 6	<ul style="list-style-type: none"> • Creating Sketch-Based Features • Multi-Sections Solid Definition • Removed Multi-Section Solid Definition • Applying Dress-up Features • Draft Definition • Draft Reflect Line Definition • Variable Angle Draft Definition • Shell Definition • Thickness Definition • Thread/Tap Definition

	<ul style="list-style-type: none"> • Remove/Replace Face Definition • Creating Surface-Based Features • Split Definition • Thick Surface Definition • Close Surface Definition <ul style="list-style-type: none"> ○ Sew Surface Definition
Session 7	<ul style="list-style-type: none"> • Creating Reference Element • Point Definition • Line Definition • Creating Transformation Features • Applying Boolean Operations
Session 8	<ul style="list-style-type: none"> • Inserting new bodies • Body • Geometric Set • Ordered Geometrical Set • Understanding Measure Toolbar • Measure Between • Measure Item <ul style="list-style-type: none"> ○ Measure Inertia
Session 9	<ul style="list-style-type: none"> • Formula • Relations • Design Table • Apply Material • Understanding Knowledge Templates <ul style="list-style-type: none"> ○ Data Exchange in CATIA
Session 10	<ul style="list-style-type: none"> • Introduction to Assembly Design • Understanding Top Down & Bottom Up Approach • Understanding Product Structure Tools • New Component • New Product • New Part • Existing Component • Existing Component with Positioning • Understanding Constraints Toolbar • Coincidence Constraints • Contact Constraints • Offset Constraints • Angle Constraints • Fix Component • Fix Together • Quick Constraint • Flexible/Rigid Sub-Assembly • Change Constraint <ul style="list-style-type: none"> ○ Reuse Pattern
Session 11	<ul style="list-style-type: none"> • Understanding Move Toolbar • Manipulation • Snap/Smart Move • Explode • Stop Manipulate on Clash • Understanding Product Structure Tools • Replace Component • Graph tree Reordering • Generate Numbering • Selective Load • Manage Representations • Multi Instantiation • Assembly Features • Split • Hole • Pocket • Add • Remove

	<ul style="list-style-type: none"> • Symmetry • Applying Material • Creating Scenes • Enhanced Scene • Scene browser • Applicative Entities Reordering • Understanding Space Analysis Toolbar <ul style="list-style-type: none"> ○ Understanding Catalogue Browser
<p>Session 12</p>	<ul style="list-style-type: none"> • Introduction to Sheet metal Design • Understanding Sheet metal Parameters • Understanding Views Toolbar • Fold/Unfold • Multi viewer • Views Management • Creating Walls • Wall • Wall on Edge • Extrusion • Swept Walls- Flange, Hem, Tear Drop, User Flange • Creating Rolled Walls • Hopper • Free from Surface • Rolled Wall • Understanding Bending Operations • Bend / Conical Bend • Bend from Flat • Unfolding/ Folding • Point or Curve Mapping <ul style="list-style-type: none"> ○ Recognize Definition
<p>Session 13</p>	<ul style="list-style-type: none"> • Understanding Cutting Operations • Understanding Stamping Operations • Understanding Transformation Operations • Understanding Manufacturing Preparation • Check Overlapping • Save as DXF
<p>Session 14</p>	<ul style="list-style-type: none"> • Wireframe and Surface Design • Introduction to Surface Design • Understanding Wireframe Toolbar • Point, Point and Planes Repetition • Line, Axis, Polyline • Plane, Planes Between • Projection • Intersection • Circle, Corner, Connect • Spline, Helix • Creating Surfaces • Extruded Surface Definition • Revolution Surface Definition • Sphere Surface Definition <ul style="list-style-type: none"> ○ Trim & Split Definition
<p>Session 15</p>	<ul style="list-style-type: none"> • Creating Surfaces • Cylinder Surface Definition • Offset Surface Definition • Fill Surface Definition • Multi-Sections Surface Definition • Blend Definition • Understanding Operations Toolbar • Join • Healing • Untrim <ul style="list-style-type: none"> ○ Disassemble
<p>Session 16</p>	<ul style="list-style-type: none"> • Creating Sweep Surface

	<ul style="list-style-type: none"> • Swept Surface Definition using profile type: - Explicit, Line, Circle, Conic • Understanding Operations Toolbar • Extract • Transformations Commands • Extrapolate
<p>Session 17</p>	<ul style="list-style-type: none"> • Introduction to Drafting • Creating New Drawing File • Creating Projection Views • Front view • Un folded view • View from 3D • Projection • Auxiliary • Isometric • Advanced Front view • Creating Sectional Views • Offset Section view • Aligned Section view • Offset Section Cut <ul style="list-style-type: none"> ○ Aligned Section Cut
<p>Session 18</p>	<ul style="list-style-type: none"> • Creating Details Views • Detail • Sketched Detail Profile • Quick Detail • Sketched Quick Detail Profile • Creating Clipping View • Clipping • Sketched Clipping Profile • Quick Detail • Sketched Quick Clipping Profile • Creating Broken View • Creating Broke out View • Add 3D Clipping • Creating Wizard • Adding Drawing Sheets • Sheets • New View • Deriving Annotations • Generate Dimension • Generate Dimension Step by Step • Balloon Creation • Bill of Materials
<p>Session 19</p>	<ul style="list-style-type: none"> • Applying Dimensioning • Creating Dimensions Using dimensions subToolbar • Dimension Edition Using Re-route dimension Sub-toolbar • Understanding Tolerancing Sub-Toolbar • Understanding Annotations Toolbar • Understanding Dress up Toolbar • Understanding Geometry creation Toolbar <ul style="list-style-type: none"> ○ Understanding Geometry modification Toolbar
<p>Session 20</p>	<ul style="list-style-type: none"> • Inserting Frame and Title Block • Understanding Positioning Toolbar • Element Positioning • Line up <ul style="list-style-type: none"> ○ Align into system

