SLOG SOLUTIONS PRIVATE LIMITED TECHNOLOGY: CREO

DURATION: MODULE 1 (4 WEEKS)
MODULE 1 + 2 (6 WEEKS)

- **❖ INTRODUCTION TO CREO PARAMETRIC**
- Introduction to Creo Parametric
- Feature-Based Nature
- Bidirectional Associative Property
- Parametric Nature
- System Requirements
- Getting Started with Creo Parametric
- Important Terms and Definitions
- File Menu Options
- Managing Files
- Menu Manager
- Model Tree
- Understanding the Functions of the Mouse Buttons
- Ribbon
- Toolbars
- Navigator
- Creo
- Parametric Browser
- Appearance Gallery
- Rendering in Creo Parametric
- Colour Scheme Used in this Book
- ❖ CREATING SKETCHES IN THE SKETCH MODE-I
- The Sketch Mode
 - ✓ Working with the Sketch Mode
 - √ Invoking the Sketch Mode
- The Sketcher Environment
- Working with a Sketch in the Sketch Mode

- √ Placing a Point
- ✓ Drawing a Line
- √ Drawing a Centreline
- Drawing a Geometry Centreline
- Drawing a Rectangle
- √ Drawing a Circle
- ✓ Drawing an Ellipse
- ✓ Drawing an Arc
- Dimensioning the Sketch
 - ✓ Converting a Weak
 Dimension into a Strong
 Dimension
 - Dimensioning a SketchUsing the Normal Too
- Dimensioning the Basic Sketched Entities
 - ✓ Linear Dimensioning of a Line
 - ✓ Angular Dimensioning of an Arc
 - √ Diameter Dimensioning
 - √ Radial Dimensioning
 - Dimensioning Revolved Sections
- Working with Constraints
 - ✓ Types of Constraints
 - ✓ Disabling Constraints
 - Modifying the Dimensions of a Sketch
 - ✓ Using the Modify Button
 - ✓ Modifying a Dimension by Double-Clicking on it
 - ✓ Modifying DimensionsDynamically
- Resolve Sketch Dialog Box
- Deleting the Sketched Entities
- Trimming the Sketched Entities
- Mirroring the Sketched Entities
- Inserting SSStandard/User-Defined Sketches
- Drawing Display Options

- ❖ CREATING SKETCHES IN THE SKETCH MODE-II
 - Dimensioning the Sketch
 - ✓ Dimensioning a Sketch Using the Baseline Tool
 - Replacing the Dimensions of a Sketch Using the Replace Tool
 - Creating Fillets
 - ✓ Creating Circular Fillets
 - ✓ Creating Elliptical Fillets
 - Creating a Reference Coordinate System
 - Working with Splines
 - ✓ Creating a Spline
 - ✓ Dimensioning of Splines
 - √ Modifying a Spline
 - Writing Text in the Sketcher Environment
 - Rotating and Resizing Entities
 - Importing 2D Drawings in the Sketch Mode
- **❖ CREATING BASE FEATURES**
 - Creating Base Features
 - Invoking the Part Mode
 - The Default Datum Planes
 - Creating a Protrusion
 - ✓ Extruding a Sketch
 - √ Revolving a Sketch
 - Understanding the Orientation of Datum Planes
 - Parent-Child Relationship
 - ✓ Implicit Relationship
 - ✓ Explicit Relationship
 - Nesting of Sketches
 - ❖ DATUMS
 - Datums
 - ✓ Default Datum Planes
 - Need for Datums in Modeling
 - Selection Method in Creo Parametric
 - Datum Options
 - ✓ Datum Planes
 - Creating DatumPlanes
 - ✓ Datum Planes

- Creating Cuts
 - Removing Material by Using the Extrude Tool
 - Removing Material by Using the Revolve Tool
- ❖ OPTIONS AIDING CONSTRUCTION OF PARTS-I
 - Options Aiding Construction of Parts
 - Creating Holes
 - √ The Hole Dashboard
 - Important Points to Remember While Creating a Hole
 - Creating Rounds
 - ✓ Creating Basic Rounds
 - Creating a Variable Radius Round
 - Points to Remember While Creating Rounds
 - Creating Chamfers
 - ✓ Corner Chamfer
 - √ Edge Chamfer
 - Understanding Ribs
 - ✓ Creating Trajectory Ribs
 - ✓ Creating Profile Ribs
 - Editing Features of a Model
 - Editing Definition or Redefining Features
 - √ Reordering Features
 - √ Rerouting Features
 - √ Suppressing Features
 - ✓ Deleting Features
 - ✓ Modifying Features
- OPTIONS AIDING CONSTRUCTION OF PARTS-II
- Introduction
- Creating Feature Patterns
 - √ Uses of patterns
 - ✓ Creating Patterns
 - / Deleting a Pattern
- Copying Features
 - ✓ New Refs
 - √ Same Refs
 - ✓ Mirror
 - ✓ Move
 - ✓ Select

- Mirroring a Geometry
- Creating a Section of a Solid Model
 - ✓ Work Region Method
- ADVANCED MODELING TOOLS-I
- Other Protrusion Options
- Sweep Features
 - ✓ Creating Sweep Protrusions
 - Aligning a Sketched Trajectory to an Existing Geometry
 - Creating a Thin Sweep Protrusion
 - ✓ Creating a Sweep Cut
- Blend Features
 - ✓ Parallel Blend
 - ✓ Rotational Blend
 - ✓ General Blend
- Using Blend Vertex
- Shell Feature
 - Creating a Constant Thickness Shell
 - ✓ Creating a Variable Thickness Shell 8
- Datum Curves
 - Creating a Datum Curve by Using the Curve Button
 - ✓ Creating a Datum Curve by Sketchina
 - Creating a Curve by Using the Intersect Option
 - Creating a Curve by Using the Project Option
 - Creating a Curve by Using the Wrap Option
- ***** ASSEMBLY MODELING
- Important Terms Related to the Assembly Mode
 - √ Top-down Approach
 - ✓ Bottom-up Approach
 - ✓ Placement Constraints
 - ✓ Package
- Creating Top-down Assemblies
 - ✓ Creating Components in the Assembly Mode
- Creating Bottom-up Assemblies

- ✓ Inserting Components in an Assembly
- Assembling Components
 - Displaying Components in a Separate Window
 - Displaying Components in the Same Window
 - √ 3D Dragger
 - ✓ Applying Constraints
 - √ Status Area
 - ✓ Placement Tab
 - √ Move Tab
 - √ Packaging Components
 - ✓ Creating Simplified Representations
 - Redefining the Components of an Assembly
 - Reordering Components
 - ✓ Suppressing/Resuming Components
 - ✓ Replacing
 - ✓ Assembling Repeated
 Copies of a Component
- Modifying the Components of an Assembly
 - Modifying Dimensions of a Feature of a Component
 - Redefining a Feature of a Component
- Creating the Exploded State
 - ✓ References Tab Offset Tab
 - ✓ Explode Line Tab
- The Bill of Materials
- Global Interference
- Pairs Clearance

MODULE 2(6 WEEKS)

- GENERATING, EDITING, AND MODIFYING THE DRAWING VIEWS
- The Drawing Mode
 - √ Generating the General View
 - √ Generating the Projection View
 - ✓ Generating the Detailed View
 - ✓ Generating the 3D Cross-Section View
- Generating Drawing Views
- Editing the Drawing Views
- Modifying the Drawing Views
 - √ Changing the View Type
 - √ Changing the View Scale
 - Reorienting the Views
 - ✓ Modifying the Cross-sections
 - ✓ Modifying Boundaries of Views
 - Adding or Removing the Crosssection Arrows
 - ✓ Modifying the Perspective Views
- Modifying Other Parameters
 - ✓ Editing the Cross-section Hatching
 - DIMENSIONING THE DRAWING VIEWS
- Dimensioning the Drawing Views
 - ✓ Show Model Annotations Dialog Box
- Adding Notes to the Drawing
- Adding Tolerances in the Drawing Views
 - √ Dimensional Tolerances
 - √ Geometric Tolerances
 - Editing the Geometric Tolerances
 - Adding Balloons to the Assembly Views
 - Adding Reference Datums to the Drawing Views
 - Modifying and Editing Dimensions

OTHER DRAWING OPTIONS

- Sketching in the Drawing Mode
- Modifying the Sketched Entities
- User-Defined Drawing Formats
- Retrieving the User-Defined Formats in the Drawings
- Adding and Removing Sheets in the Drawing
- Creating Tables in the Drawing Mode
- Generating the BOM and Balloons in Drawings
- **SURFACE MODELING**
- Surface Modeling
- Creating Surfaces in Creo Parametric
- ✓ Creating an Extruded Surface
- ✓ Creating a Revolved Surface
- ✓ Creating a Sweep Surface
- Creating Surfaces the Using the Style Environment of Creo Parametric
- √ Style Dashboard
- Surface Editing Tools
- ✓ Mirroring the Surfaces
- ✓ Merging the Surfaces
- ✓ Trimming the Surfaces
- ✓ Creating the Fill Surfaces
- Creating the Intersect Curves
- \checkmark Creating the Offset Surfaces
- ✓ Adding Thickness to a Surface
- ✓ Converting a Surface into a Solid
- Creating a Round at the Vertex of a Surface
- Freestyle modelling environment
- √ Freestyle Dashboard
- ❖ WORKING WITH SHEET METAL COMPONENTS
- Introduction to Sheet metal
- Invoking the Sheet metal Mode
- Introduction to Sheet metal Walls
- ✓ Creating the Planar Wall
- Creating the Unattached Revolve Wall

- Creating the Unattached Blend
 Wall
- ✓ Creating the Unattached Offset Wall
- Creating Reliefs in Sheet metal Components
- ✓ Creating a Flat Wall
- ✓ Creating a Twist Wall
- ✓ Creating an Extend Wall
- √ Creating a Flange Wall
- Creating the Bend Feature
- Creating the Unbend Feature
- ✓ Creating the Bend Back
- Conversion to Sheet metal Part
- Creating Cuts in the Sheet metal Components



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