Creo Syllabus – 2hrs per day

C	Introduction to CAD, CAE
Session	
1	Features of Creo,
	Concepts:-Modeling ,Parametric , Associative , Feature based
	CreoGraphical User Interface - Feature manager design tree, , Handles, mouse buttons, keyboard shortcuts, Understanding the Windows Menu Hardware and Software requirements,
Session 2	Sketch Entities – Inference line, Centerline line, Line, Circle, Arc, Ellipse, Rectangle, Slots, Polygon, Parabola, Ellipse, Partial Ellipse, Spline, Spline tools, Spline on surface, Equation driven curve, Points, Text, Construction geometry, Snap, grid,
Session 3	Sketch Tools - Fillet, Chamfer, Offset, Convert entities, Trim, Extend, Split, Jog, Mirror, Dynamic Mirror, Move, Copy, Rotate, Scale, Stretch, Sketch pattern
	Relations - Adding Sketch Relation, Automatic relations,
	Dimensioning - Smart, Horizontal, Vertical, Ordinate, Horizontal ordinate, Vertical ordinate, Align ordinate, Fully define sketch.
	Sketch Diagnosis, SketchXpert, 3D Sketching, Rapid Sketch
Session 4	Part Modeling Tools Creating reference planes
	Creating Extrude features – Direction1, Direction2, From option, Thin feature, Applying draft, Selecting contours
	Creating Revolve features – Selecting Axis, Thin features, Selecting contours
	Creating Swept features- Selecting, Profile and Path, Orientation/twist type, Path Alignment, Guide Curves, Start/End tangency, Thin feature
Session 5	Creating Loft features – Selecting Profiles, Guide curves, Start/End Constraints, Centerline parameters, Sketch tools, Close loft.
5	Selecting geometries – Selection Manager, Multiple Body concepts
	Creating Reference - points, axis, coordinates
Session	Creating curves -
6	Split curve, Project curve, Composite curve, Curve through points, Helix and Spiral

	Creating Fillet features
	Inserting Hole types
Session	Creating Chamfer
7	Creating Shell
	Creating Rib
	Creating Pattern -
Session	Environment & Utilities - Working with views and manipulating views, Trouble
8	shooting
0	Inserting Library feature, Adding Configuration, Inserting Design table, System options, Measuring Geometries, Calculating Mass Properties,
Session	Assembly Modeling Tools
9	Introduction to Assembly Modeling & Approaches – Top down and Bottom up
9	approach
	Applying Standard Mates- Coincident, Parallel, Perpendicular, Tangent,
	Concentric, Lock, Distance, Angle.
Session	Applying Advanced Mates – Symmetric, Width, Path Mate, Linear/Linear
10	Coupler, Limit Mate.
Session	Manipulating Components - Replacing Components, Rotating Components,
11	Move Components, Collision Detection, Physical Dynamics, Dynamic Clearance,
11	Detecting Interference
	Creating Pattern - Assembly Pattern, Mirror
	Creating Explode Views
	Creating Explode views
	Top Down Design – Layout Sketch, Work Part In the Context of an assembly.
	Smart Components, Smart Fasteners, Physical Simulation
Session	Surface Modeling tools
12	Creating Extrude, Revolve, Swept, loft, Boundary surface.
	Replace Face, Delete face, Untrim surface, Thickening a Surface, Move Face
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13	Introduction To Angle Of Projection
	Generating Views - Generating Model View, Projected Views, Inserting Standard 3 View
	View creation relative to model, Inserting predefined views, empty views, Auxiliary Views, Detailed Views, Crop view, Broken –Out Section, Broken Views, Section View, Aligned Section View, Alternate Position View, Working assembly specific view, Drawing properties, Manipulating views
Session 14	Creating Dimensions – Smart, Horizontal, Vertical, Baseline, Ordinate, Horizontal Ordinate, Vertical Ordinate, Chamfer, Attach Dimensions, Align Collinear/Radial, Align Parallel/Concentric, Model Dimensions, Auto dimension, DimXpert, Annotations, Spell check
Session 15	Inserting Annotations - Datum Features, Geometric Tolerance, Surface Finish, Jog Leaders, Hole Callout, Datum Target, Dowel Pins, Area Hatch, Cosmetic Thread, Balloon, Centre Mark, Centre Lines, Layers, Working With Tables, Bill Of Materials, Hole Table, Sheets And Templates, Sheet Format. Sheet Metal Design
Session 16	Concepts in Sheet metal design bend allowance bend deduction, K-factor Inserting Base Flange, Sheet Metal Tab, Edge Flange, Miter Flange, Hem, Jog. Creating Break Corner/Corner Trim, Closed Corners, Rip. Inserting Sketched Bend, Fold/Unfold, Forming Tools. Inserting Cross Break, Welded Corner. Adding Corner Trim, Lofted Trim Conversion Of Solid Body To Sheet Metal.
Session 17	 Working with import /Export data - Importing In Pro/E, Editing Imported Features, Feature Recognition, 2d To 3d Conversion Work with Different File Format, File Conversions Photo Realistic Rendering
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