

Unigraphics NX7	
DAY 01	Introduction to NX ,System Requirements, Getting Started with NX ,Important Terms and Definitions ,Understanding the Functions of the Mouse Buttons,Toolbars, Hot Keys , Color Scheme , Dialog Boxes in NX ,Selecting Objects , Deselecting Objects ,Selecting Objects Using the Quick Pick Dialog Box , Self-Evaluation Test
DAY 02	Practice Day,Doubt clearing session
DAY 03	The Sketcher Environment , Starting NX , Starting a New Document in NX ,Invoking Different NX Environments , Creating Three Fixed Datum Planes (XC-YC, YC-ZC, XC-ZC) , Displaying the WCS (Work Coordinate System) , Invoking the Sketcher Environment
DAY 04	Sketching Tools , Drawing Sketches Using the Profile Tool , Using Help Lines to Locate Points,Drawing Individual Lines, Drawing Rectangles , Placing Points , Drawing Ellipses or Elliptical Arcs , Drawing Arcs , Drawing Circles
DAY 05	Drawing Conics , Drawing Studio Splines , Filletting Sketched Entities, The Drawing Display Tools , Fitting Entities in the Current Display ,Zooming to an Area , Dynamic Zooming,Panning Drawings , Fitting View to Selection
DAY 06	Restoring the Original Orientation of the Sketching Plane , Setting Selection Filters in the Sketcher Environment , Selecting Objects , Deselecting Objects ,Using Snap Points Options While Sketching ,Deleting Sketched Entities, Exiting the Sketcher Environment
DAY 07	Practice Day,Doubt clearing session

PIOUS INFOTECH ACADEMY

DAY 08	Constraining Sketches, Concept of Constrained Sketches , Under-Constrain , Fully-Constrain , Over-Constrain , Degree of Freedom Arrows , Geometric Constraints , Applying Additional Constraints Individually , Applying Automatic Constraints to a Sketch , Controlling Inferred Constraints Settings, Showing All Constraints in a Sketch , Turning off the Display of All Constraints in a Sketch , Showing/Removing Constraints , Converting a Sketch Entity into a Reference Entity , Dimensional Constraints,
DAY 09	Applying Horizontal Dimensions, Vertical Dimensions, Parallel Dimensions , Perpendicular Dimensions, Angular Dimensions, Diameter Dimensions, Radius Dimensions , Perimeter Dimensions , Dimensions by Using the Inferred Dimensions Tool , Editing the Dimension Value and Other Parameters
DAY 10	Animating a Fully Constrained Sketch , Measuring the Distance Value between a Objects in a Sketch , Measuring the Distance between Two Objects in a Sketch , Measuring the Projected Distance between Two Objects , Measuring the Screen Distance between Two Objects, Measuring the Length of an Arc or a Line, Measuring the Angle between Entities , Measuring the Angle Value Using the By Objects Option , Measuring the Angle Value Using the By 3 Points Option , Measuring the Angle Value Using the By Screen Points Option
DAY 11	Practice Day, Doubt clearing session
DAY 12	Editing Sketches , Trimming Sketched Entities , Extending Sketched Entities, Creating a Corner between Sketched Entities , Mirroring Sketched Entities
DAY 13	Copying, Moving, and Rotating Sketched Entities, Transforming Sketched Entities , Editing Sketched Entities by Dragging , Exiting the Sketcher Environment, Changing the View of the Sketch , Creating Base Features by Extruding
DAY 14	Extrude Dialog Box Options , Creating Solid Revolved Bodies , Hiding Entities, Showing Hidden Entities , Hiding All Entities Using a Single Tool

PIOUS INFOTECH ACADEMY

DAY 15	Rotating the View of a Model in 3D Space, Setting Display Modes
DAY 16	Practice Day,Doubt clearing session
DAY 17	Additional Sketching and Reference Planes ,Types of Datum Planes
DAY 18	Creating Three Fixed (Principle) Datum Planes ,Creating Relative Datum Planes
DAY 19	Creating Datum Coordinate Systems , Creating Fixed and Relative Datum Axes , Other Extrusion Options,Specifying the Boolean Operation , Specifying Other Extrusion Termination Options , Projecting External Elements
DAY 20	Practice Day,Doubt clearing session
DAY 21	Advanced Modeling Tools ,Creating Simple Holes ,Creating Counter bore Holes , Creating Countersink Holes , Creating Holes by using the Hole Tool , Creating General Holes ,Creating Drill Size Hole , Creating Screw Clearance Hole ,Creating Threaded Hole ,Creating Hole Series , Creating Grooves ,Creating Rectangular Grooves
DAY 22	Ball End Grooves , U Grooves , Slots ,Rectangular Slots ,Creating Ball-End Slots, U-Slots ,T-Slots ,Dove-Tail Slots ,Chamfers , Chamfer Feature Using the Symmetric Method , Chamfer Feature Using the Asymmetric Method , Chamfer Feature Using the Offset and Angle Method , Edge Blend
DAY 23	Practice Day,Doubt clearing session
DAY 24	Instance Feature Tool , Creating Rectangular Arrays Using the Instance Feature Tool , Creating Circular Arrays Using the Instance Feature Tool
DAY 25	Using the Pattern Face Option of the Instance Feature Tool , Mirror Feature Tool ,Mirror Body Tool ,Sweeping Sketches along the Guide Curves , Creating Swept Features ,Creating Tubes or Cables ,Threads, Symbolic Threads , Detailed Threads, Shell Features
DAY 26	Practice Day,Doubt clearing session
DAY 27	Editing Features ,Editing a Hole Feature ,Editing the Positioning of a Hole Feature ,Editing the Positioning of a Groove Feature,Editing the Positioning of a Slot Feature

PIOUS INFOTECH ACADEMY

DAY 28	Editing the Parameters of Features ,Editing the Parameters of Features with Rollback ,Editing Sketches of the Sketch-based Features
DAY 29	Reordering Features ,Advanced Modeling Tools,Creating Boss Features ,Creating Pocket Features ,Creating Pad Features ,Creating Drafts
DAY 30	Practice Day,Doubt clearing session
DAY 31	The Assembly Environment ,Invoking the Assembly Environment ,Invoking the Assembly Environment Using the Assembly ,Template from the New Dialog Box,Invoking the Assembly Environment in the Current Part File
DAY 32	Types of Assembly Design Approaches ,Creating Bottom-up Assemblies ,Placing Components in the Assembly Environment,Changing the Reference Set of a Component
DAY 33	Applying Assembly Constraints to Components,Points to Remember while Assembling Components ,Creating a Component Array in an Assembly ,Replacing a Component in an Assembly ,Moving a Component in an Assembly,Repositioning a Component in an Assembly ,Mirroring a Component in an Assembly,Modifying a Component in the Assembly File
DAY 34	Practice Day,Doubt clearing session
DAY 35	The Top-down Assembly Design Approach
DAY 36	Creating Components Using the Top-down Assembly Design Approach,Creating Subassemblies,Editing Assembly Constraints ,Modifying the Assembly Constraints
DAY 37	Checking the Interference between the Components of an Assembly ,Checking Interference and Clearance,Using the Check Clearance Analysis ,Checking Interference Using the Assembly Clearance Method
DAY 38	Checking Interference and Clearance, and Analyzing,Cross-sections of Components Using the View Section Tool ,Creating Exploded Views of an Assembly ,Exploding Views Automatically,Exploding Views Manually

PIOUS INFOTECH ACADEMY

DAY 39	Practice Day,Doubt clearing session
DAY 40	Introduction to Surface Modeling ,Invoking the Sheet Modeling Environment .Extruded Surface ,Revolved Surface ,Ruled Surface,Through Curves Tool
DAY 41	Through Curve Mesh Tool ,Creating a Surface Using the Four Point Surface Tool
DAY 42	Creating a Swoop Surface ,Creating the Planar Surfaces from 2D Sketches .Edges of Solid or Surface ,Creating a Transition Surface Using the Transition Tool ,N-Sided Surface ,Silhouette Flange Surface ,Extending a Surface Using the Law Extension Tool ,Offset Surface Tool ,Trim and Extend Tool ,Trimmed Sheet Tool ,Studio Surface Tool
DAY 43	Creating a Surface between Two Walls Using the Styled Blend Tool ,Creating Surfaces Using the Styled Sweep Tool ,Sewing Individual Surfaces into a Single Surface ,Adding Thickness to a Surface
DAY 44	Practice Day,Doubt clearing session
DAY 45	Curves from Bodies ,Intersection Curves ,Section Curves ,Extract Curves
DAY 46	Advanced Surface Modeling Tools
DAY 47	Dart Features ,Emboss Sheet Features ,Creating Face Blend Features ,Soft Blend Features , Fillet Features ,Bridge Features
DAY 48	Practice Day,Doubt clearing session
DAY 49	The Drafting Environment ,Invoking the Drafting Environment,Invoking the Drafting Environment Using the Drawing,Template from the New Dialog Box,Invoking the Drafting Environment in the Current Part File ,Editing the Drawing Sheet Parameters in the Drafting Environment

PIOUS INFOTECH ACADEMY

DAY 50	Invoking the Drafting Tools ,Types of Drawing Views in NX,Base View ,Projected View ,Detail View ,Section View ,Auxiliary View ,Half-Section View ,Revolved Section View ,Break-Out Section View ,Broken View ,Generating Drawing Views ,Generating the Base View,Generating the Orthographic Drawing Views Using the Projected View Tool ,Generating the Detail View Using the Detail View Tool ,Generating Section Views Using the Section View Tool
DAY 51	Generating the Half Section View Using the Half Section View Tool ,Generating the Revolved Section View ,Generating the Break-Out Section View ,Generating the Broken View ,Manipulating the Drawing View,Aligning the Drawing Views Using the Align View Tool ,View Boundary ,Displaying the Model Using the Display Sheet Tool
DAY 52	Inserting a Drawing Sheet Using the New Sheet Tool ,Modifying the Properties of a Generated Drawing View, the Scale Value of the Drawing View ,Adding Dimensions to the Drawing Views ,Retrieving Dimensions from the Model ,Adding Dimensions to the Drawing View
DAY 53	Generating Exploded Views of an Assembly ,Creating Parts List and Associative Balloons,Creating a Parts List for an Assembly ,Creating Associative Balloons ,Creating a Tabular Note (Title Block) ,Adding Multiline Text to a Drawing Sheet ,Printing Tools ,Print ,Plot
DAY 54	Practice Day,Doubt clearing session
DAY 55	Introduction, Move Face,Pull Face , Offset Region , Replace Face
DAY 56	Resize Blend , Resize Face , Delete Face , Copy Face,Cut Face , Paste Face , Mirror Face , Pattern Face
DAY 57	Resize Chamfer , Label Chamfer , Make Coplanar , Make Coaxial,Make Tangent ,Make Symmetric ,Make Parallel ,Make Perpendicular ,Make Fixed ,Show Related Face

PIOUS INFOTECH ACADEMY

DAY 58	Linear Dimension ,Angular Dimension ,Radial Dimension ,Shell Body ,Shell Face
DAY 59	Change Shell Thickness ,Group Face ,Cross Section
DAY 60	Practice Day,Doubt clearing session