

## **Diploma Unigraphics NX 9.0**

### **A Course Especially for Engineers and Designers.**

*This course is designed specially for technical people. This Course explains both concept **Design for Mfg.** & **Design for Analysis** & gives maximum knowledge in minimum duration. The syllabus is designed according to the **Industry standards.** For any type of Industrial carrier in 3D Modeling, Pro-Engineer is the most popular & commonly used software.*

#### **Syllabus:**

Introduction: CAD/CAM/CAE Product cycle, Introduction to Parametric Technology, Introduction to UG Environment & Menu bar, Use of Mouse.

**Sketcher:** Creating 2D Geometry, Dimensioning & Modifying Dimensions, Sketching & Selection Methods, Task Environment, Selection Filters, Applying Constraints, Creating Parametric sketches, Animation of Constrained Sketch, Editing Sketches, Creating Text in Sketcher Environments.

**Solid Modeling:** Convert Basic Sketches to Features, Convert Basic Sketches to Features, Commands like – Extrude, Revolve, Creation of Thin Features, Thumb Rule, Rotating Model in 3D space, Setting Display Modes, Usage of Reference Geometries, Understanding of CSYS, Axis, Projecting Elements in Sketching Plane, Creation of Various planes and CSYS Boolean Operations, Trim between faces, Projecting external elements, Creation of various models, Learning Advance Tools like – Hole, Groove, Slot, Chamfer, Edge Blend, Array Features, and Mirror etc., Creation of Sweep, Swept, Tubes, Threads, Converting Solid to Hollow Feature, Editing Advance Features, Roll Back, Reorder Features, Advance Features like – Creation of Boss, Packets, Pad Taper Features

**Assembly:** Types of Assembly and Approach, Uses and their relation reference, Bottom-Up Approach, Relation Modification, Manipulating creation of Patterns, Top-Down Assembly, Creation of Sub-Assemblies, Checking interference and Clearance, Creation of Exploded Views, Replacing Assembly Constraints

**Drafting:** Introduction to Drafting Environment, Selection of Drawing Sheet for different sizes, Creating Projected & Auxiliary Views, View Modifications, Inserting Section Views, Detailed View & Revolved view, Manipulate drawing views, Annotation, Placing Exploded Views, Creating notes, Tables, Inserting Drawing Sheets

**Surfacing:** Surfacing Basics, Creation of Ruled Surfaces, Creation of Surface through curve and mesh, Swoop, Bounding, Transition, Creating 'N' sided surface, Extending of surfaces, Understanding various tools, studio surface, blend, sweep methods  
Adding thickness to surface etc.

**Pre-requisites:** Mechanical / Production Engineering / Diploma / ITI  
(Student / Professionals) **Total Duration: 100 Hrs. Fees: Rs. 15,000/-**



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