## *Courses Details for Pro/Engineer or Creo*

This course suits the needs of Mechanical design industry. This will be especially useful for 3D Mechanical product design. The purpose of this course is to enable students to be a topnotch in Mechanical designing. This will bring adequate knowledge to the Mechanical engineers, how to work with Pro/Engineer in the 3D Mechanical Design industry.

## Pro/Engineer or Creo

- **Introduction**                    **Normal Track  -  (2 Months)  or  Fast Track  -  (1Month)**
- **Pro/ENGINEER Concepts**
- **Using the Pro/ENGINEER interface**
- **Creating sketcher geometry**
- **Creating Extrude, Revolve& Ribs**
- **Selecting & Editing**
- **Creating datum features**
- **Utilizing internal sketches & embedded datums**
- **Creating sweeps & blends**
- **Creating holes & shells**
- **Creating rounds, chamfers & drafts**
- **Variable section sweeps, Helical sweeps & swept blends**
- **Creating patterns**
- **Group, copy, mirror tools**
- **Measuring & inspecting models**
- **Advanced reference management**
- **Relations & parameters**
- **Layers, family tables & UDF**
- **Assembling with constraints**
- **Exploding assemblies**
- **Creating surface features**
- **Editing surface features in pro/E**
- **Creating drawing views**
- **Creating drawing details**
- **Using advanced assembly constraints**
- **Creating &using component interfaces & flexible components**
- **Using assembly features & shrink wrap**
- **Replacing components in an assembly**
- **Understanding simplified reps**
- **Creating cross-section, display styles,& combined views**
- **Substituting components by rep, envelope, & model**
- **Creating & using assembly structures & skeletons**
- **Introduction to sheet metal design**

- **Primary, secondary & unattached walls**
- **Unbend, bend back & cuts**
- **Notches & punches**
- **Sheet metal forms**
- **Bending & unbending sheet metal geometry**
- **Converting solid parts**
- **Real time rendering**
- **Project**