



## CREO/PRO-E

### General Course Outline

#### ➤ 1. Introduction to the Interface Lecture on CREO/PRO-E

- 2D Sketching
- 2D Modeling
- Constraints and Relations application
- Dimensioning and Editing dimensions
- Inspection of Sketches or Profiles

#### ➤ 2. Part Modeling

- Use of Modeling Tree
- Selection of planes
- Datum plane creations
- Basic steps for creating profiles in part Environment

What is modeling?

Creating an Extrude feature (Solid, Surface, Sheet Metal,  
Protrusion and Cut)

Revolve Tool with live Examples

Sweeping models with examples

Helical sweep creating different types of springs and threading  
features

Creating blend features

Parallel blends and Rotational blends

Creating of advanced features (Fillet, Chamfers, Ribs, Drafts,  
Shell, Mirror)

Pattern features

Axis pattern

Fill pattern

Direction Pattern

Dimension Pattern

Creating surface features (Trim, Offset, Thicken, Solidify,  
Intersect, Project, Extend)

Creating advanced surface features (Blend, Fill, 3DSurfaces)

Creating Hole features (Standard and Normal holes)

Material application of model

View Tool bar icons use

Layers tree use

Rendering

### ➤ **3. Assembly Design**

Importing of models in assembly module

Use of 3d axis system in assembly module

Place a base component

Constraints using in assembly condition

Replacing component

Creating exploded views

Creating section views

Material visualize after assembly

Pattern use in assembly condition

## ➤ 4. Drafting

- Drawing fundamentals
- Adding items to drawing
- Creating and placing drawing views
- Working with major view types
- General view-changing default orientations
- Auxiliary, Detailed, Revolve views
- Controlling the visibility of model
- Moving and modifying the views
- Rendering the views
- 2D drafting
- Creating dimensions
- Drawing notes
- Geometric Tolerances
- Detail menu on drawing mode
- Creating the drawing Tables
- Adding new sheets to the drawing
- Formate creating
- Image placing or logo placing
- Surface roughness symbols application

## ➤ 5. Sheet Metal

- Introduction to sheet metal
- Sheet metal operations
- Extrusion Tool
- Planar Tool and use
- Bend types
- Flat bend
- Flange bend
- Blend tool
- Part to sheet metal conversions
- Rip application and types
- Punch form tool
- Fill tool

Extend tool and offset tool use  
Bend calculations