

## **Diploma in Pro-Engineer WildFire 5.0**

### **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 Pro-E Environment & Menu bar, Use of Mouse.

**Sketcher:** Creating 2D Geometry, Dimensioning & Modifying Dimensions, Modifying 2D Geometry and Construction Techniques like dynamic trim, Divide entity, Mirror, Copy, etc. Applying Constraints, Creating Parametric sketches.

#### **Solid Modeling:**

**Basic:** Understanding of Planes, Creating Solid using Extrude, Revolve, Sweep, etc. Modifying & Regenerating by Edit Definition, Applying Round, chamfer, Rib, etc., Working on Sets & Transitions, Creating & Working efficiently with datum Planes, Axis, curves, datum Points.

**Advance:** Creating Holes, Spring & Threads using Helical sweep, Swept blend, Applying Draft ,etc Copying features, Patterning in Various method, Pipe, Various Bending & Blending, View manager for Cross Sections, Cosmetic features, Working With Units, Family table, Parameters & Relations, Display settings & other settings, Orientations.

**Assembly:** Calling components, Constraining components, Assembly analysis, Working with Layers & Visibility, Patterning, Creating Assembly features, View manager, Exploded Views, Top-down & bottom-up design approach.

**Drafting:** Selection of Drawing Sheet for different sizes, Creating Projected & Auxiliary Views, View Modifications, Inserting Section Views, Detailed View & Revolved view, Adding Notes & Balloons Dimensioning for Assembly, Inserting Symbols & Creating Symbol Gallery, Applying Tolerances, Working with Tables, Creating BOM table, working with different sheets.

**Formatting:** Creating various sheet formats.



6 & 6A, C Wing, Parmar Plaza, Wanowrie, Ph: +91-20-60505053 / 020-41208878 / 9422512005 / 9673202620  
[www.ecti.co.in](http://www.ecti.co.in)

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### **Syllabus:**

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

**Sketcher:** Creating 2D Geometry, Dimensioning & Modifying Dimensions, Modifying 2D Geometry and Construction Techniques like dynamic trim, Divide entity, Mirror, Copy, Relation etc. Applying Constraints, Creating Parametric sketches. Uses of pallets. Text.

### **Solid Modeling:**

**Basic:** Understanding/creating of Planes ,axis, points. Creating Solid using Extrude, Revolve, Sweep, etc. Modifying & Regenerating by Edit Definition, Applying Round, chamfer, Rib, etc., Working on Sets & Transitions, Creating & Working efficiently with datum Planes, Axis, curves, datum Points, Auto round.

**Advance:** Creating Holes, Spring & Threads using Helical sweep, properties, Project, Swept blend, Helical sweep, Warp, Solid free form Applying Draft ,etc Copying features, Patterning in Various method, Pipe, Various Bending & Blending, View manager for Cross sections, Featur Parameters & Relations, Display settings & other settings, Orientations, model analyses,lfo,Appearance manager, Image editor, customize screen,Environment,Option

**Assembly:** Calling components, Constraining components, Assembly analysis, Working with Layers & Visibility, Patterning, Creating Assembly features, View manager, Exploded Views, Top-down & bottom-up design approach.

**Drafting:** Selection of Drawing Sheet for different sizes, Using template Creating Projected & Auxiliary Views, View Modifications, Inserting Section Views, Detailed View & Revolved view, Adding Notes & Balloons Dimensioning for Assembly, Inserting Symbols & Creating Symbol Gallery, Applying Tolerances, Working with Tables, Creating BOM table, working with different sheets.

**Formatting:** Creating various sheet formats.

**Pre-requisites:** Mechanical / Production Engineering / Diploma / ITI  
(Student / Professionals) **Total Duration: 60 Hrs. Fees: Rs. 10500/-**



**Pre-requisites:** Mechanical / Production Engineering / Diploma / ITI  
(Student / Professionals) **Total Duration: 100 Hrs. Fees: Rs. 15000/-**

