



Creo Parametric 7.0

Powerful and flexible CAD 3D modeling software to create, analyze products which are more complex in its engineering

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Creo Parametric is a solid modeling and associative 3D modeling application developed by Parametric Technology Corporation (PTC). Creo Parametric formerly known as Pro/Engineer was the industry's first parametric 3D CAD modeling system. The parametric modeling approach uses parameters, dimensions, features, and relationships to capture intended model behavior. The strategy of this design approach is to use engineering constraints and relationships to quickly optimize the design.

It is the most robust, scalable 3D product design toolset with more power, flexibility, and speed to help you accelerate your entire product development process. With Creo Parametric, one can increase the productivity with more efficient and flexible 3D detailed design capabilities by quickly and easily create 3D models of any part or assembly with dedicated toolset for working with large assemblies. Learning Creo Parametric paves the way for engineering students to get placed in a commanding position across the globe and make them to take part in the global industrial design revolution.

Creo Parametric provides the broadest range of powerful yet flexible **CAD 3D modeling** software capabilities to accelerate the design of parts and assemblies. With Creo Parametric, you can **create, analyze, view, and share** designs downstream using 2D CAD, 3D CAD, and parametric modeling capabilities.



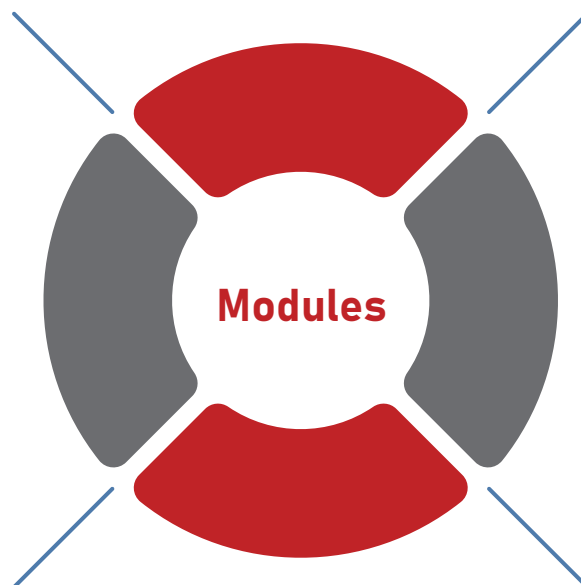
Sketcher & Part Modeling

Learn how to create and edit sketches. In addition to that, students can learn how to create complex mechanical parts with variety of advanced parametric modeling tools.



Assembly Modeling

Learn how to assemble different parts created in the part module to make a assembled product.



Sheetmetal Modeling



In this level, modeling of Sheetmetal components will be taught. Students can clearly learn the comprehensive methodology followed in creating Sheetmetal components using Creo parametric before it is being fabricated mechanically

Detailing



Learn how to create detailing of various parts and products created in the other module of Creo Parametric.

Syllabus



Sketcher & Part Modeling

- Lecture 01: Introduction & Creo Parametric Concepts, Interface
- Lecture 02: Sketcher Geometry & Sketcher Tools
- Lecture 03: Editing Tools, Dimensioning
- Lecture 04: Extrude, Revolve & Ribs
- Lecture 05: Datum Features, Holes, Shell
- Lecture 06: Draft & Patterns
- Lecture 07: Rounds, Chamfers & Layers
- Lecture 08: Selecting & Editing of Geometry, Features & Models
- Lecture 09: Advanced Selection, Sweep, Variable Section Sweeps
- Lecture 10: Helical Sweeps, Blends, Rotational Blends
- Lecture 11: Swept Blend, Toroidal Bend, Spinal Bend
- Lecture 12: Groups, Copy, Mirror & UDF's



Assembly Modeling

- Lecture 13: Assembling with Constraints - 1
- Lecture 14: Exploding, Replacing Components, Cross-Sections in Assemblies
- Lecture 15: Assembling with Constraints - 2
- Lecture 16: Component Interfaces, Flexible Components, Restructuring, Simplified Reps



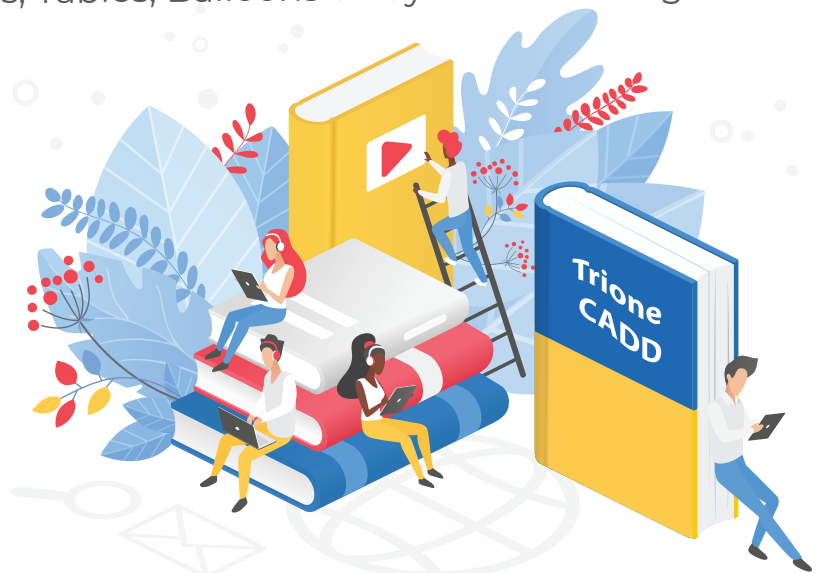
Sheetmetal Modeling

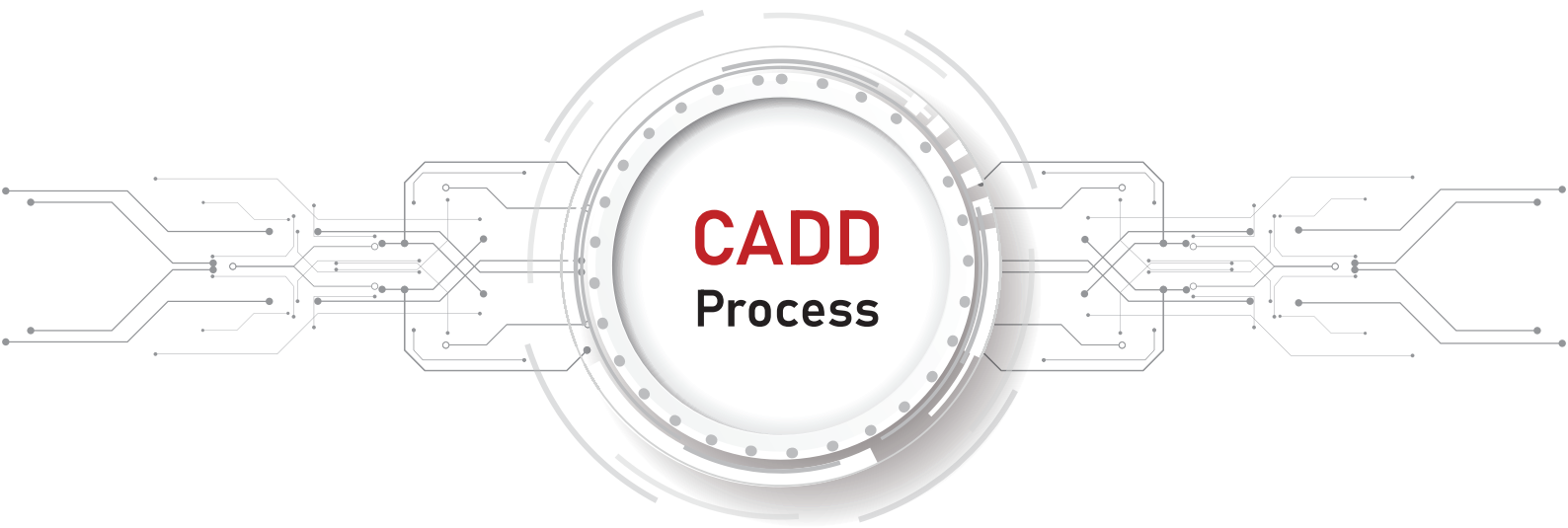
- Lecture 17: Sheetmetal Design Process & Fundamentals
- Lecture 18: Primary & Secondary Sheetmetal Wall Features
- Lecture 19: Bending, Unbending & Modifying Sheetmetal Models








Detailing

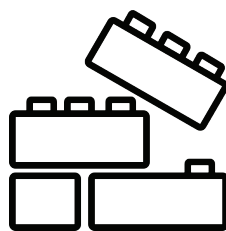
- Lecture 20: Introduction, Creating New Drawings & Drawing Views
- Lecture 21: Adding Model Details & Tolerance Information
- Lecture 22: Notes, Symbols, Tables, Balloons & Layers in Drawings



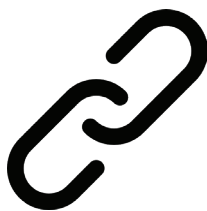


-  Sketching using the basic sketch entities
-  Converting the sketch into features and parts
-  Assembling different parts and analyzing them
-  Documenting parts and the assembly in terms of drawing views
-  Manufacturing the final part and assembly

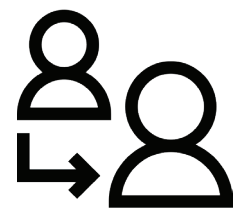
Features of Creo Parametric



Feature Based design









Bidirectional Associativity



parametric Nature

Course Highlights


-  Exclusively framed course syllabus covering all the key content of the modeling tool.
 -  22 Lectures scheduled with the duration of 33 hours to impart effective training to the students.
 -  Experienced staffs, certified by the Quality Enhancement Team are engaged in training the students.
 -  Unique Workbooks with exercises and tutorials covering the prominent tools in a detailed manner.
 -  3 Level CADD examinations help the students to recall all the tools, concepts periodically.
 -  Internationally valid certificate.
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Pre-requisites



Desktop / Laptop / Table
Windows 8 or 10 operating system
Intel i5 or equivalent processor
Minimum 4 GB of RAM
Internet with good download speed
Microphone / Webcam



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