CATIA

Description

ARDENT's CATIA is the most powerful Knowledge based and widely used CAD (Computer Aided Design) software of its kind in the world. CATIA has been created by Dassault Systems of France and is marketed & technically supported worldwide by IBM. The software is being used by designers, manufacturing facilities, assemblers, architects, industrial engineers etc. Have a Look around you. Everything and Anything you see had to be designed before manufacturing. The desk you are using, the chair you are sitting in, your daily use appliances, your car, your home etc.

Expectations and Goals

- Learn about sketch designing
- The various type of solid designing with proper dimension
- Perfect assembly according to the demo model
- Implementing proper color and materials
- Proper Drafting of the assembly design
- Perfect surface designing according to the demo model
- Learn about animations

Prerequisites

Anybody interested in CATIA can take this Training. Though basic knowledge of Engineering drawing will be a plus point.

Course Schedule

Module	Topic	Hours
Module 1	**Introduction** Introduction of CATIA Abbreviation for CATIA Applications	1 hrs.
Module 2	**Sketcher** Introduction to Sketcher Toolbars Types of Rectangle, Polygon Types of Circle, Spline, Ellipse, corner, chamfer, Quick trim, Mirror, symmetry, Translate, rotate, offset, scale, etc.	4 hrs.
Module 3	**Part design** Pad, Pocket, hole, Rib, Slot, multi section solid, Remove multi section solid, solid combine etc. About planes, views, Compass system Surface systems	8 hrs.

Module 4	**Assembly** Concept of compass system. Top down and bottom up assembly Concept of Manipulate & Snap.	8 hrs.
Module 5	**Drafting** Types of Drafting Template, sheet size Back ground, working view	2 hrs.
Module 6	**Wireframe & surface design** Extrude, revolve, sphere, cylinder, offset, sweep, fill, Multi section surface, etc, and assignment.	8 hrs.
Module 7	**Generative and Shape Design** Modeling of Bevel Gear, Spark Gear etc.	9 hrs.
Module 8	**Dmu kinematics (for animations)** Revolute, Prismatic, Cylindrical, Screw, Point curve, Roll curve, Planer, Gear mesh, etc.	10 hrs.
Module 9	**Project work.** Project Implementation	10 hrs.