CATIA V6

Starting CATIA with introduction &GUI of CATIA

Introduction of part design

Using sketch based features. (Pad, pocket, shaft & groove)

Sketch based profiles (rib, slot, solid combine, multi-section solids, stiffener)

Reference elements

Project based exercises and applications of tools min.-10 projects.

View tools, dress-up features, advance dress-up features

Transformation based features (translation, rotation, mirror, and pattern)

Project based exercise and applications of tools min.054 projects

Assembly intro, inserting components, constraint vs. positional assembly

Assemblies constraints, coincidence, contact, offset, angle, fix etc.

Manipulation, compass positioning, snap, exploded assembly

Project based practice session on different types of machine assemblies or sub assemblies

Wireframe and surface introduction,

Surface based tools,

Extrude,

Revolve, sphere,

Cylinder, offset etc.

Fill, Multi-sections,

Blend, sweep

Reference elements, intersection

Projection, operation based features (join, split, translate)

Drawing intro

Inserting drawing,

Drawing details,

Section view,

Detail view,

View scale

Types of dimensioning, anchor points, inserting GD& T, print setting

Review of part design, assemblies, and format/drawing workbench

Apply material, measure between, Boolean operations

Practice session and assignments ………………………

Advanced surface design tools for a-class surfacing, concept of Mechanism

Motion in assemblies

Free style surfacing,

Generative shape design,

Free form surface etc.

Sheet metal operations. Tools, explorations, etc.

Course fee   : Rs6000 /-

Mode of Payment   : Deposit your fees at cash counter in the college.