

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: 1

Mechanical Engineering (CAD/CAM)

Subject Name CAD & Solid modelling Lab

Sr. No.	Practicals
1.	To prepare a computer program for scan converting a line using Bresenham's algorithm.
2.	To prepare a computer program for scan converting a circle using Bresenham's algorithm.
3.	Preparation of computer program for 2D transformations.
4.	Preparation of computer program for 3D transformations.
5.	Study of DXF, IGES, STL and script file formats and preparing models.
6.	Study of Solid Modelling and making models using commercial software.
7.	Study of Wire frame Modelling and making models using commercial software.
8.	Study of Surface Modelling and making models using commercial software.
9.	Computer program preparation for the designing of Machine components using File / Database management.
10.	Development of computer program for the Optimization of Machine elements.

Software Practice Project- Acquire skill to use any CAD software, to prepare solid models of assembly and components and prepare the views from CAD file of solid models. A project to prepare solid models and their views of assembly and components is to be completed and submitted.