

MODELING LAB

Objective of the Course:

This lab is meant for the development of modeling and analysis skills of the machine components using software. This enables the students basic idea regarding modeling activities that are carried in present industries using modeling software.

MODELING:

1. Sketcher: Development of part drawings for various components in the form of orthographic and isometric. Constraining the drawings.

2. 3-D Modeling: Generation of various 3D models through protrusion, revolve, shell sweep, creation of various features. Study of parent child relation. Boolean based modelling.

3. Assembly: Assembly modeling, study of various standard assembly operations. Assembling of simple components like Bolt & Nut, Sleeve and cotter joint, Knuckle Joint, shaft with journal bearing, screw jack and gear train.

4. Sheet metal work: Basic sheet metal operations, making different sheet metal patterns.