

ED5161 CAD LABORATORY

DETAILED SYLLABUS

OBJECTIVE

To impart knowledge on how to prepare drawings for various mechanical components using any commercially available 3D modeling software's

EXPERIMENTS OF CAD LAB

1. CAD Introduction.
2. Sketcher
3. Solid modeling –Extrude, Revolve, Sweep, etc and Variational sweep, Loft ,etc
4. Surface modeling –Extrude, Sweep, Trim ..etc and Mesh of curves, Free form etc
5. Feature manipulation – Copy, Edit, Pattern, Suppress, History operations etc.
6. Assembly-Constraints, Exploded Views, Interference check
7. Drafting-Layouts, Standard & Sectional Views, Detailing & Plotting.
8. CAD data Exchange formats- IGES, PDES, PARASOLID, DXF and STL