

2. **3-D Modeling:** Generation of various 3D models through protrusion, revolve, shell sweep. Creation of various features. Study of parent child relation. Feature based and Boolean based modeling surface.
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.
4. **Sheet metal work:** Basic sheet metal operations, making different sheet metal patterns.

**SIMULATION :**

1. Static Analysis of Plane Truss
2. Static Analysis of Thick cylinder using 2D axis symmetry
3. Analysis of a plate with center hole
4. Free vibrations analysis of a simply supported beam.
5. Steady state heat transfer in square plate
6. Analysis of plate with center hole at quarter section
7. Static analysis of simple plane truss
8. Steady state heat transfer in composite plate
9. Static analysis of thick cylinder using 3D
10. Analysis of cantilever beam with point load at its end.

III Year B.Tech. Mechanical Engg. II-Semester

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**ME334 MINIPROJECT****Course Description & Objective:**

*The main objective of this miniproject is to enable the students analytical and practical exposure by giving the targets like Hands on work, also it is very much essential before the students allow into the main curriculum project work.*