**Computer Graphic and Product Modeling-ME-735**

**Course Project**

**Group Number: 3**

Objective:

To build software that simulates the problems of strength of materials like bending of beams, torsion, vibrations etc. and display the graphical results.

Language used:

C++

Deliverables:

* User friendly GUI consisting of ‘drag and drop’ feature to construct the given SOM problem.
* Diagram showing final Orientation of the beam.
* Differential Equation of the problem and its solution is given as output.
* Simulated Animation of Vibrations in the beam as expected to be seen in real life.