**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 etc. and displays the graphical results.
* Show animated graphical output for Vibrational Loading in 2D and possibly 3D.

**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.

**Estimated Timeline:**

Till Mid-term (1st October):

Input Graphical Interface and differential equation governing the given problems.

Post Mid-term:

Output Graphics interface show solved result and animation of vibration of beam.

**Language used:**

C++, MATLAB

**Platforms used:**

CodeBlocks, GitHub, Ubuntu.