**MCD 411: B.Tech. Project (First Semester 2019-20)**

Weekly Progress Report (From: 9/10/2019 To: 15/10/2019)

I undertake that the following work has been accomplished during the above-mentioned period of one week:

* We had used a model which was inspired from the representation of a car tyre, i.e. we assumed simple spring forces on the instrument nodes which happened to be in close vicinity of the beam node elements. This way, we came up with a hypothesis which would try to mimic the behaviour of a thick soft wall.
* One problem with this can be to validate the approach and more importantly, to standardise this model with the data (deformation behaviour of colon/intestine walls) available in the literature. We came up with ideas to fix this issue.
* We tried to fit a polynomial equation in the stress strain curve of the intestinal wall, so that it could be used to fix the parameters (beam axial and bending stiffness + the spring stiffness and constants used in our force function) of our model.

**Submitted by (student’s name with signature) Endorsed by:**

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