**Design Of A Single Plate Clutch**

**Abstract:**

This paper shows the design of single-plate clutch in automobile. This type of clutch is a dry friction clutch. The design of single plate clutch is drawn by using theoretical calculation results. A 2D drawing of clutch disc is drafted. The comparison result is done for using three materials to define the best material for friction plate. The stress of clutch disc is analyzed to observe the stress, displacement and strain during applying pressure on clutch disc face by using Solid Works software.

Keywords: Stress, Pressure, Friction Materials, catia v5.