### DESIGN LAB - 1 PROJECT

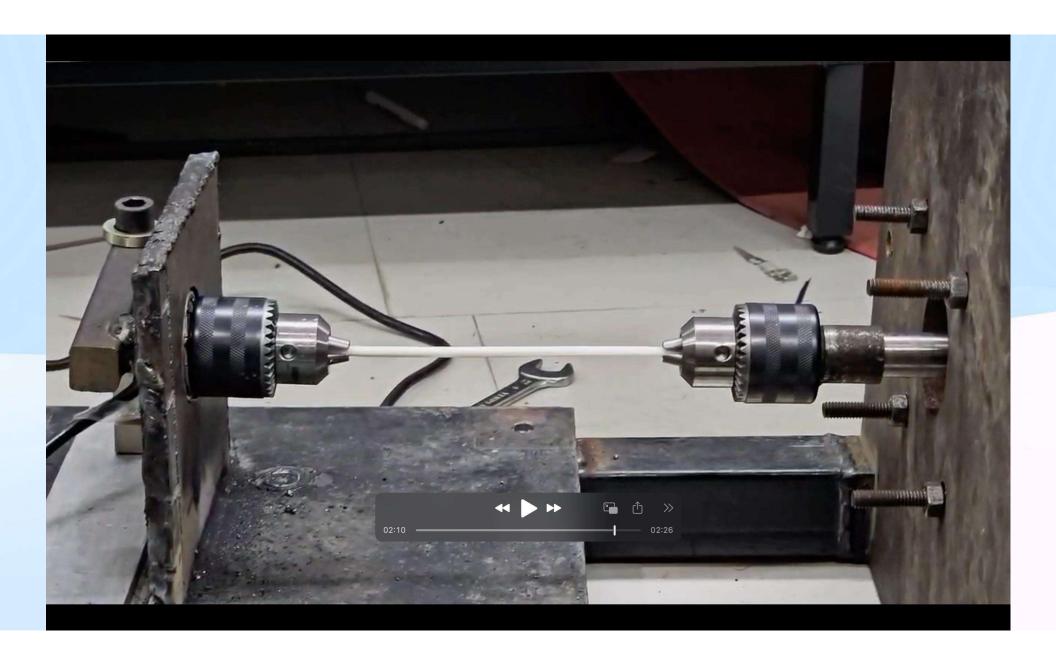
# **Tortion Testing Machine**

#### Aim of the Project

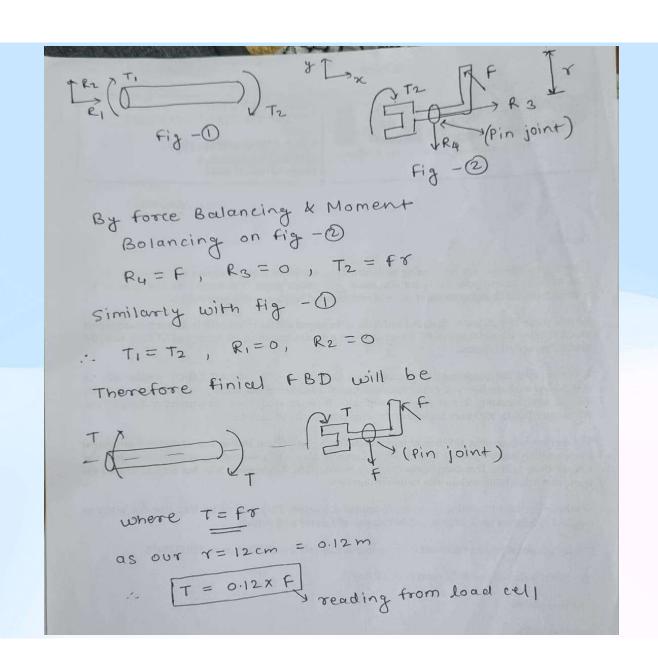
- To measure the torque
- To calculate relation between torque and angle of twist.

## ComponentsUsed

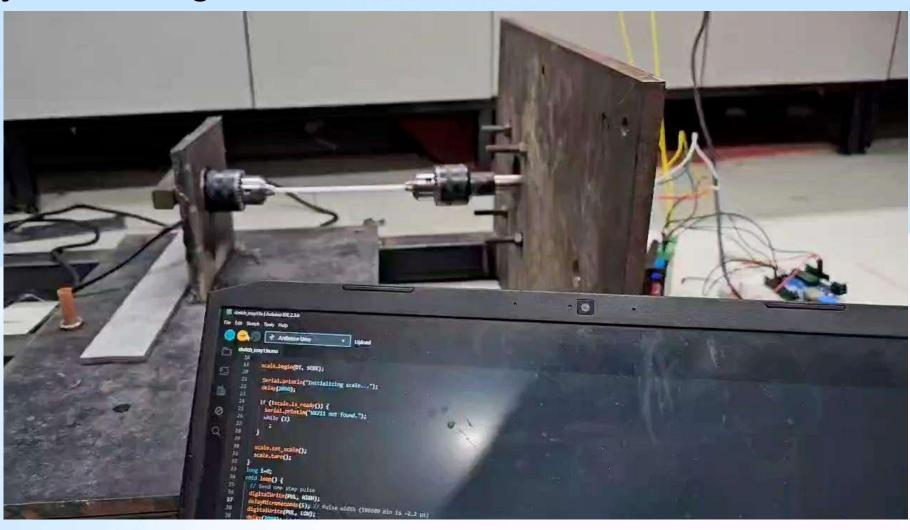
- Sample
- Motordriver
- Arduino
- Loadcell
- Chuck
- Steppermotor
- Bearing
- Setup



#### **FBD** of Setup



#### **Project in working**



- We know this relation between T,  $\theta$ , l, J and G.
- We can calculate the value of G by this relation

