**02.03.2020**

**Mechanical Testing Laboratory**

**‘Performing a Tensile Test to Metallic Materials’**

You will be given a brass specimen in the laboratory. Using provided load, F (N) – elongation, Δl (mm) data draw **engineering stress-strain diagram** and based on this diagram also do the followings;

1. Compute the modulus of elasticity
2. Find the yield stress of the material in MPa.
3. Calculate the maximum load in kgs that the material may carry,
4. Compute the modulus of resilience and toughness,
5. Find the ductility in % elongation (EL) and % Reduction in area (RA).