

MECHANICAL ENGINEERING DEPARTMENT LAB MANUAL

Material Testing Lab (Subject Code: KME 352)

List of Experiments:

Objectives:

- To understand the principles and performance characteristics different materials.
- To know about material properties.

1. Strength test of a given mild steel specimen on UTM with full details and stress versus strain plot on the machine.
2. Other tests such as shear, bend tests on UTM.
3. Impact test on impact testing machine like Charpy, Izod or both.
4. Hardness test of given specimen using Rockwell and Vickers/Brinell testing machines.
5. Spring index test on spring testing machine.
6. Fatigue test on fatigue testing machine.
7. Creep test on creep testing machine.
8. Experiment on deflection of beam, comparison of actual measurement of deflection with dial gauge to the calculated one, and or evaluation of young's modulus of beam.
9. Torsion test of a rod using torsion testing machine.
10. Study of NDT (non-destructive testing) methods like magnetic flaw detector, ultrasonic flaw detector, eddy current testing machine, dye penetrant tests.

Course Outcomes: The students who have undergone the course will be able to measure various properties of materials.

Experiment 1 (Tensile Test)

OBJECTIVE: Strength test of a given mild steel specimen on UTM with full details and

Mechanical Engineering Department Lab Manual

Sebastian Brünink



Mechanical Engineering Department Lab Manual:

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Mechanical Engineering Department Lab Manual**

In a global inundated with displays and the cacophony of quick conversation, the profound energy and psychological resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the constant onslaught of sound and distractions. However, located within the musical pages of **Mechanical Engineering Department Lab Manual**, a captivating perform of literary brilliance that pulses with raw emotions, lies an remarkable trip waiting to be embarked upon. Penned by way of a virtuoso wordsmith, this magical opus guides viewers on a mental odyssey, gently exposing the latent possible and profound influence stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect their charming publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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