

पदार्थ प्रबलता प्रयोगशाला Strength of Material Lab

Major Equipments:

- Universal Testing Machine (1000KN)
- Fatigue Machine
- Torsion testing machine
- Rockwell Hardness
- Proving Ring (1000KN)
- Ultrasonic cleaner
- Universal testing machine (40tonnes)
- Impact testing machine
- Amsler (1000KN)





In Charge

Associate Faculty:

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SAFETY PRACTICESTO BE FOLLOWED IN LABORATORY:

- 1. Enter in Lab with enclosed Shoes/Footwear (no sandals).
- 2. Make sure that you know the location of First Aid Kit and Fire Extinguishers before you start your experiments.
- 3. Get First Aid immediately for any injury, no matter how small it is and do not wear loose dress.
- 4. Do not play with valves, screws and nuts.



DO's

- Be on time, at the start of the lab period, there will be a short introduction to the experiment you will perform that day.
- Thoroughly CLEAN your laboratory work space at the end of the laboratory session.
- Maintain silence and clean environment in the lab and put bags at allocated Locations.

DON't

- Do not try to run and operate any machine without permission and knowledge of the lab Personnel
- In case of any mishap Do not be Panicky, be calm but quick report at once to the Lab Personnel.
- Do not eat or Drink in the Lab room at any time.

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Course Outcomes Strength of Material (110305)

- Upon Completion of practical course, the students will be able to:
- CO 1 : Evaluate Properties of material by impact test.
- CO 2 : Evaluate Properties of material by hardness test.
- CO 3 : Evaluate Properties of material by tensile test.
- CO 4 : Determine Compressive & Flexural Strength of materials.

LIST OF EXPERIMENTS:

- 1. Impact Test
- 2. Brinell Hardness Test
- 3. Tensile test
- 4. Compression test
- 5. Flexure test
- 6. Shear test
- 7. Verification of Maxwell's Reciprocal Theorem.
- 8. Bending of Beam (One Point loading only).

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