



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

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Associate Faculty:

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Strength of Material Lab

SAFETY PRACTICES TO 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 (U10305)

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).