





Strength of Materials Laboratory

The strength of material laboratory teaches students the fundamentals of material strength and allows them to perform various tests on a wide range of materials. Experiments are carried out to determine material properties such as impact strength, tensile strength, compressive strength, hardness, and so on. The laboratory is outfitted Universal Testing Machines, Hardness Testing Machines, Digital Rebound Hammers, and other equipment. The Strength of Material Laboratory is effectively used by undergraduate students in learning the principles and procedures involved in various materials testing conforming to standards.

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S.No	Name of the Equipment	Description	Image
1	Universal Testing Machine	It is used to determine the stress, strain, young's modulus, tensile strength and shear strength of mild steel	
2	Torsion Testing Machine	Twisting angle, Twisting moment, shear stress and modulus of rigidity of mild steel It is used to determine.	

S.No	Name of the Equipment	Description	Image
3	Brinell and Rockwell Hardness testing Machine	It is used to determine the Hardness of several specimens like Mild steel, Copper, Bronze etc.	
4	Spring Testing machine	It is used to determine the stiffness and modulus of rigidity of spring	

S.No	Name of the Equipment	Description	Image
5	Simply supported beam	It is used to determine Young's modulus, Bending strength of beam and deflection of the beam	