

## STRENGTH OF MATERIALS LAB

The Strength of Materials Lab provides students with practical experience in testing the mechanical properties of various construction materials such as steel, concrete, and timber. The lab is equipped with essential testing machines, including a universal testing machine (UTM) for tension, compression, and bending tests, as well as a torsion testing machine, impact testing machine, and hardness testing equipment. These facilities help students understand material behavior under different loading conditions and validate theoretical concepts through hands-on experimentation.

### LABORATORY DETAILS

Name of the laboratory	<b>STRENGTH OF MATERIALS LAB</b>
Carpet area	<b>395 m<sup>2</sup></b>
No. of machines or experiment setups	<b>10</b>
No. of experiments conducted	<b>12</b>

## SPECIFICATION OF EQUIPMENTS/SETUPS AVAILABLE

Sl. No	Equipment
1	Universal testing machine (1000kN capacity)
2	Universal testing machine (400kN capacity)
3	Vickers Hardness Testing Machine
4	Rockwell and Brinell Hardness Testing Machine
5	Spring Testing Machine
6	Torsion Testing Machine model TT -6
7	Impact Testing Machine model IT -30
8	Strut Apparatus
9	Clark's Maxwell Reciprocal Verifying Apparatus
10	Torsion Pendulum Apparatus