



# MANIPAL UNIVERSITY JAIPUR

School of Civil and Chemical Engineering

Department of Civil Engineering

## *Lab & Equipment Details (Material Testing Lab-I)*

Name of Laboratory	Material Testing Lab-I
<b>Lab Description</b>	This lab provides a practical overview of the concepts of various mechanical properties of materials used for residential and infrastructure projects. This lab will introduce the students to basic theory and concepts of strength of material. Students will learn how to perform the test and what are the resemblance of a certain test to the practical use of it in the field.
<b>Lab resources</b>	<ol style="list-style-type: none"> <li>1. Brinell Hardness Testing Machine</li> <li>2. Coil Spring &amp; Leaf Spring</li> <li>3. Fatigue Testing Machine</li> <li>4. Heat of Hydration Apparatus</li> <li>5. Impact Testing Machine</li> <li>6. Micrometer Screw Gauge &amp; Proving Ring</li> <li>7. Rebound Hammer</li> <li>8. Rockwell Hardness Testing M\C</li> <li>9. Spring Testing Machine</li> <li>10. Torsion Testing Machine</li> <li>11. Universal Testing Machine 60 TN</li> <li>12. Servo Digital Universal Testing Machine 100 TN</li> <li>13. CTM 100 KN Electrically Operated</li> <li>14. Vernier Calipers Digital</li> <li>15. Rapid chloride Permeability Tester With UPS</li> <li>16. Carbonation Chamber</li> <li>17. Ultra-Sonic Pulse Velocity Tester</li> <li>18. Vickers Hardness Testing Machine</li> </ol>