







Material Testing Lab

Sl No	Name of the experiment	List of equipment	Photographs
1.	To study the operation of different hardness testers such as brinell, Rockwell and Vickers hardness test.	<ul style="list-style-type: none">• Brinell hardness tester• Rockwell hardness tester• Vickers hardness tester• Specimen• Indenter	
2.	To determine the brinell hardness number of the cast iron/steel specimen.	<ul style="list-style-type: none">• Brinell hardness testing machine• Steel specimen• Microscope• Indenter• Stop watch	
3.	To determine the impact test strength of the steel specimen by conducting izod/charpy impact test.	<ul style="list-style-type: none">• Impact testing machine• Izod/charpy specimen• Scale	

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4.	To determine the hardness of the given specimen using Vickers hardness test.	<ul style="list-style-type: none">• Vickers harness test• Supplied specimen• Emery paper• File• Optical microscope• Square pyramid indentor	
5.	To study the behavior of the given material under tensile load by the universal testing machine.	<ul style="list-style-type: none">• U.T.M• Dial gauge• Various caliper~scale	

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6.	Determine the RHN of supplied specimen by Rockwell hardness tester using B & C scale.	<ul style="list-style-type: none">• Specimen• Indentor• Rockwell hardness tester• Diamond cone• Flat file• Emery paper	
7.	To study the impact strength of the steel specimen through izod impact test.	<ul style="list-style-type: none">• Impct testing• Izod specimen	