

Building Materials Lab



Device Name: Manual Vicat Apparatus

Used For: To measure the Consistency, Initial and Final Setting Time of Cement Mortar.

Experiment associated with it:
Consistency and setting time of cement

Courses associated with it: Building Materials



Device Name: Gilmore Apparatus

Used For: To measure the Consistency, Initial and Final Setting Time of Cement Mortar.

Experiment associated with it:
Consistency and setting time of cement

Courses associated with it: Building Materials



Device Name: Vibrator

Used For: To compact the Concrete Specimens instead of tamping

Experiment associated with it:
Workability of Concrete

Courses associated with it: Building Materials



Device Name: Flow Table

Used For: To measure the workability and the degree of segregation of Concrete

Experiment associated with it:
Workability of Concrete

Courses associated with it: Building Materials



Device Name: Vebe Consistometer

Used For: To measure the workability of Concrete

Experiment associated with it:
Workability of Concrete

Courses associated with it: Building Materials



Device Name: Kelly Ball Apparatus

Used For: To measure the workability of Concrete

Experiment associated with it:
Workability of Concrete

Courses associated with it: Building Materials



Device Name: Compacting Factor Apparatus

Used For: To measure the workability of Concrete.

Experiment associated with it:
Workability of Concrete

Courses associated with it: Building Materials



Device Name: Universal Testing Machine

Used For: To determine the tensile strength of steel and the flexural tension of concrete

Experiment associated with it:
1. Tensile test of steel
2. Destructive tests of concrete (Flexural test)

Courses associated with it: Building Materials



Device Name: Rebound Hammer

Used For: Non-destructive method; To determine the compressive strength of cubic concrete specimens.

Experiment associated with it:
Non-Destructive tests of concrete

Courses associated with it: Building Materials



Device Name: Ultrasonic Concrete Tester

Used For: Non-destructive method; To determine the compressive strength of cubic concrete specimens.

Experiment associated with it:
Non-Destructive tests of concrete

Courses associated with it: Building Materials



Device Name: Compression Testing Machine

Used For: To determine the compressive and splitting strength of different sizes and shapes of concrete.

Experiment associated with it:
Destructive tests of concrete (Compression test)

Courses associated with it: Building Materials



Device Name: Hand Operating Testing Machine

Used For: To determine the comp. strength of specific cubic and cylindrical concrete specimens.

Experiment associated with it:
Destructive tests of concrete (Compression test)

Courses associated with it: Building Materials



Device Name: Splitting Tensile Device

Used For: To fix cylindrical concrete specimens; to measure the splitting tensile strength using the comp. testing machine.

Experiment associated with it:
Destructive tests of concrete (Split test)

Courses associated with it: Building Materials



Device Name: Los Angeles Testing Machine

Used For: To determine the abrasion loss percent (wearing percent) of coarse aggregates (indication of the hardness).

Experiment associated with it: L.A. Abrasion test

Courses associated with it: Building Materials



Device Name: Mortar Mixer

Used For: To mix the cement mortar constituents together (To obtain a homogeneous mix; cement, sand and water).

Experiment associated with it:

1. Consistency and setting time of cement
2. Strength of mortar

Courses associated with it: Building Materials







Device Name: Concrete Drum Mixer

Used For: To mix the concrete constituents homogeneously together.

Experiment associated with it:
Workability of Concrete

Courses associated with it: Building Materials

	<p>Device Name: Sieve Shaker</p>
	<p>Used For: To determine the Aggregate size distribution.</p>
	<p>Experiment associated with it: Sieve Analysis</p>
	<p>Courses associated with it: Building Materials</p>
	<p>Device Name: Core Drilling Equipment</p>
	<p>Used For: To take cylindrical cores from a structure.</p>
	<p>Experiment associated with it: Core Drilling</p>
	<p>Courses associated with it: Building Materials</p>
	<p>Device Name: Flexural Tension Machine</p>
	<p>Used For: To determine the tensile strength of Cement Mortar briquettes.</p>
	<p>Experiment associated with it: Tensile Strength of Mortar</p>
	<p>Courses associated with it: Building Materials</p>
	<p>Device Name: Ovens</p>
	<p>Used For: To dry various specimens of aggregates, Sand...etc</p>
	<p>Experiment associated with it:</p> <ol style="list-style-type: none"> 3. Specific gravity and absorption 4. Sieve Analysis 5. L.A. Abrasion test
	<p>Courses associated with it: Building Materials</p>

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