



## DEPARTMENT OF CIVIL ENGINEERING

The following shows the photographs of respective laboratories

Sl.N 0	Name of the laboratory	Photos
1	Survey Practical	 A group of students in light blue shirts and dark trousers are outdoors. One student is operating a yellow theodolite mounted on a tripod. Another student is holding a leveling staff vertically. A yellow toolbox is on the ground to the left.
2	Computer Aided Design and Drawing Laboratory	 A computer laboratory with several rows of desks. Each desk has a computer monitor and keyboard. Students are seated at the desks, some looking at their monitors. The room has a white ceiling with recessed lights and a white wall with a decorative archway.

**3** Strength of Materials Laboratory



**4** Hydraulic Engineering Laboratory



5  
Soil  
Mechanics  
Laboratory



6  
Environmenta  
l Engineering  
Laboratory



7	Concrete and Highway Engineering Laboratory	
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The following are the laboratories available in the Department of Civil Engineering.

<b>S. No.</b>	<b>Name of the Laboratory</b>	<b>Name of the Major Equipments</b>
1.	Environmental Engineering Laboratory	1. Gas chromatography 2. Atomic absorption spectroscopy 3. Spectrophotometer 4. Sodium potassium analyzer –Flame photometer 5. BOD Analyzer 6. COD Analyzer
2.	Strength of Materials Laboratory	1. Universal testing machine (1000 KN) Capacity. 2. Torsion testing machine. 3. Izod impact testing machine. 4. Rockwell / Brinell hardness testing machine. 5. Spring testing machine. 6. Beam deflection test apparatus
3.	Soil Mechanics Laboratory	1. Core Cutter Apparatus. 2. Sand Replacement Apparatus. 3. Proctor Compaction Apparatus.

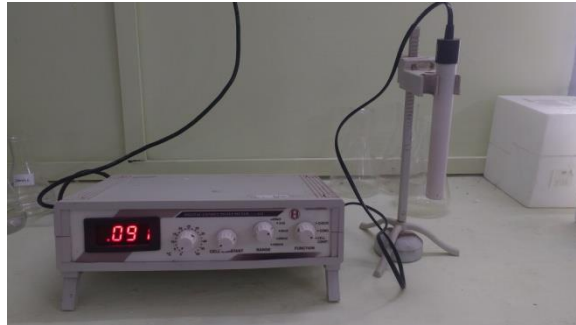
		<ol style="list-style-type: none"><li>4. Permeability Apparatus.</li><li>5. Liquid &amp; Plastic limit Apparatus.</li><li>6. Direct shear apparatus</li><li>7. Field density measuring device.</li><li>8. Tri-axial shear apparatus</li><li>9. Three gang consolidation test device</li></ol>
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4.	Concrete and Highway Engineering Laboratory	<ol style="list-style-type: none"> <li>1. Slump cone</li> <li>2. Flow table</li> <li>3. Vibrator</li> <li>4. Vee-Bee consistometer</li> <li>5. Aggregate impact testing machine</li> <li>6. CBR Apparatus</li> <li>7. Blains Apparatus</li> <li>8. Marshall stability apparatus</li> </ol>
5.	Surveying Lab	<ol style="list-style-type: none"> <li>1. Total Station</li> <li>2. Theodolite</li> <li>3. Dumpy Level</li> <li>4. Prismatic compass</li> <li>5. Surveyor Compass</li> <li>6. Hand held - GPS</li> </ol>
6.	Fluid Mechanics and Machines Lab	<ol style="list-style-type: none"> <li>1. Rotometer</li> <li>2. Venturimeter/Orifice meter</li> <li>3. Bernoullis Apparatus</li> <li>4. Centrifugal Pump</li> <li>5. Gear Pump</li> <li>6. Submersible pump</li> <li>7. Reciprocating Pump</li> <li>8. Pelton Wheel turbine</li> <li>9. kaplon turbine</li> <li>10. Determination of Metacentric height of floating bodies</li> <li>11. Francis turbines</li> <li>12. friction factor in pipes</li> <li>13. minor losses</li> </ol>
7	CAD lab	<ol style="list-style-type: none"> <li>1. AutoCAD software</li> <li>2. Analysis software –StaDDPro</li> <li>3. COMPUTER Pentium IV</li> <li>4. LCD projector and</li> </ol>

**Minor Equipments**



**Figure.10.1: pH meter**



**Figure.10.2: Conductivity meter**



**Figure.10.3: Dissolved oxygen meter**



**Figure.10.4: Ion meter**



**Figure.10.5: Calorimeter**



**Figure.10.6: Jar test apparatus**



**Figure.10.7: Slump cone**



**Figure.10.8: Flow table**



**Figure.10.9: Vibrator**



**Figure.10.10: Vee-Bee consistometer**



**Figure.10.11: Aggregate impact testing machine**