


Walchand Institute of Technology, Solapur
Lab Details

Lab Photo	
Lab Name	Concrete Technology
Lab Description	<p>Major tests conducted in laboratory:</p> <ol style="list-style-type: none"> 1. Major tests conducted in laboratory 2. Concrete mix design of various grades 3. Physical properties of concrete ingredients 4. Workability tests related to concrete such as Compaction factor test, Vee Bee test, Slump test, flow table test etc. 5. Nondestructive testing of RCC structures by Rebound Hammer and Ultra Sonic Pulse Velocity 6. Detection of reinforcement, concrete cover measurement by Rebar Locator 7. Testing of Self Compacting concrete.
Lab Equipments	<ol style="list-style-type: none"> 1. Compaction factor test apparatus 2. Flow table machine 3. Slump cone apparatus 4. Vibrating table 5. Vee-Bee test apparatus 6. Ultrasonic concrete tester 7. Digital Hammer 8. Concrete mixer 9. Rebar Locator 10. L Box, V Funnel, J Ring.
Lab Floor Area in square meters	118
Practicals Engaged in Lab	Subject:- Concrete Technology, Advance Concrete Technology, UG and PG Project Work.

	<p>CEMENT TESTING (IS 4031-1988)</p> <p>a) Consistency of cement</p> <p>b) Initial and final setting time of cement</p> <p>c) Soundness test of cement</p> <p>d) Fineness test of cement</p> <p>e) Compressive Strength of cement</p> <p>FINE AGGREGATE TESTING [IS 2386 -1963]</p> <p>a) Sieve analysis</p> <p>b) Determination fine silt</p> <p>c) Determination of specific gravity and water absorption</p> <p>d) Determination of bulk density</p> <p>e) Bulkage</p> <p>COARSE AGGREGATE TESTING [IS 2386 -1963]</p> <p>a) Sieve analysis</p> <p>b) Determination of specific gravity and water absorption</p> <p>c) Determination of bulk density</p> <p>TEST ON FRESH CONCRETE [IS 2386 -1963]</p> <p>a) Slump Cone Test</p> <p>b) Flow Table Test</p> <p>TEST ON HARDENED CONCRETE [IS 516 -1959]</p> <p>a) Compression Test</p> <p>CONCRETE MIX DESIGN</p> <p>a) I. S. Method</p>
Name of Lab Incharge	Mr. Chetan G Konapure
Associated Faculty of the Lab	Dr. S. S.Patil Mr. Satish B Thalange. Mrs. Shailaja S Dyawarkonda.
Name of Lab Assistant	Mr. N V Akatnal
Name/s of Lab Menial Staff	Mr. N R Shivashetti