


Walchand Institute of Technology, Solapur  
Lab Details

Lab Photo	
Lab Name	Transportation Engineering Laboratory
Lab Description	<p>The Transportation Engineering laboratory is modernized under AICTE MODROB scheme. The laboratory is well equipped for all engineering students to study the characteristics of coarse aggregates, bitumen and bitumen mix. Currently the lab is utilized for conducting experiments in highways materials along with consultancy and testing work for various infra structural projects such as government, semi government, public sector undertaking, limited companies and local bodies. Presently tests conducted in laboratory are various tests on aggregate, bitumen &amp; soil along with CBR strength of soil, and Marshall Mix design of bituminous mix for infrastructural development.</p>
Lab Equipments	<p>Aggregate Impact Tester with Automatic Blow Counter, Los Angeles Abrasion Testing Machine with Counter, Pendulum Skid Resistance Tester, Universal Penetrometer with Automatic Time Controller, Ductility Testing Machine electrically operated with digital display, Flash Point (Closed) Pensky-Martens Apparatus (Automated), Thin Film oven/Loss on Heating, Serological Water bath, Modified Roughness indicating Machine (MERLIN), 3-meter straight Edge and Metric Wedge, Camber Board, Cannon Manning cum Cannon Fenske Viscometer (Kinematic &amp; Dynamic Viscosity of Bitumen), Pavement Dynamic Cone Penetrometer, Softening Point Ring and Ball Apparatus (Digital Semi-Automatic), Centrifuge Extractor capacity 1500gm Electrically Operated, Laboratory California Bearing Ratio Test Apparatus Motorized with 3 speed and Marshall Stability Apparatus of 50KN.</p>

Lab Floor Area in square meters	86.44
Practicals Engaged in Lab	Impact, crushing value and abrasion tests on road aggregate and ballast for railway tracks, Determination of various properties of bitumen such as penetration, ductility, softening point, Thin Film Oven Test, Dynamic and kinematic viscosity of bitumen by capillary viscometer, Bituminous Mix Design by Marshall Stability Method, Bituminous Binder Extraction by Centrifuge machine, Determination of California Bearing Ratio of subgrade for road and railway works, Pavement deflection study by Benkelman Beam Deflection equipment.
Name of Lab Incharge	Prof. Ashok Kumar Ninganna
Associated Faculty of the Lab	Prof. S.C.Deshmukh
Name of Lab Assistant	Mr. S.G.Rajmane
Name/s of Lab Menial Staff	Mr.J.M.Zade