



S.A.P.D. Jain Pathashala

# Walchand Institute of Technology, Solapur


An Autonomous Institute

P.B.No.634, Walchand Hirachand Marg, Ashok Chowk, Solapur - 413006 (Maharashtra)

**Phone:** (0217)2652700, 2391700 **Extn:** 318 | **Fax:** (0217)2651538

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## Mechanical Engineering Department Lab Details

Lab Photo	
Lab Name	Internal Combustion Engines
Lab Description	<p>The Internal combustion engine laboratory provides hands-on training to impart technical knowledge and practical skills for tackling technical issues in engines, alternative fuels and emission control. Experimental research on alternative fuels especially blended fuels can be performed with the help of the the two computerized test rigs. The laboratory details are as given below. Room No:WS-109 Lab In-charge: Prof. R.D. Mistry</p>
Lab Equipments	<p>(A)Test Rigs: 1)Computerized VCR engine test rig. 2)Computerized 4-cylinder petrol engine test rig. 3)Single-cylinder, two stroke petrol engine test rig. 4)Low speed diesel engine test rig. (B)Demonstration Equipments: 1)4 cylinder truck engine cutaway. 2)Single cylinder diesel engine cutaway. 3)4 cylinder petrol engine for student projects and tinkering. 4)Diesel fuel injection pump cutaway. (C)Training Equipment: 1)Single cylinder motorcycle and scooter engines for hands-on training.</p>
Lab Floor Area in square meters	70

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Practicals Engaged in Lab	<ol style="list-style-type: none"><li>1. Survey of I.C.Engines</li><li>2. Constructional details of I.C.Engines.</li><li>3. Study of Engine systems : Air, exhaust,cooling,lubrication</li><li>4.Study of Carburetor and Petrol injection system</li><li>5. Study of fuel injection system of diesel engine</li><li>6. Test on Computerized VCR Diesel engine</li><li>7. Test on high speed diesel engine</li><li>8.Test on Computerized three cylinder petrol engine</li></ol>
Name of Lab Incharge	Prof. R.D. Mistry
Associated Faculty of the Lab	Prof. G.B.Agalave
Name of Lab Assistant	Mr.A.D.Korabu
Name/s of Lab Menial Staff	Mr.A.N.Talikoti