



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)

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Mechanical Engineering Department Lab Details

Lab Photo	
Lab Name	Basic Mechanical Engineering
Lab Description	This laboratory serves the practicals for the course Basic Mechanical Engineering of FE-I of all branches
Lab Equipments	Babcock & Wilcox Boiler Model, Instruction Charts on various subject topics, (Steam Power, Diesel Power, Gas Turbine, Hydro Power, Refrigeration, Window A/C, Transmission systems, Pumps & Compressors), Four Stroke Single Cylinder Diesel Engine - Cut section, Velocity ratio apparatus, Cut section of Diesel Engine
Lab Floor Area in square meters	86.82
Practicals Engaged in Lab	<ol style="list-style-type: none">1. Study of I.C. Engines: Study of different parts, working, use, of 2 stroke and 4 stroke IC Engines (existing models),2. Study of different parts, working, application of:<ol style="list-style-type: none">a. Pumps Reciprocating, Centrifugal, & Rotary pump.b. Compressors - Reciprocatory & Rotary <p>C Turbines - Francis & Pelton Wheel (sharing with Fluid Mechanics Lab of Civil Engg. Dept.)</p>



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	<p>3 Study of various Power Transmission systems (TOM Lab, Mech. Engg Dept.)</p> <p>4. Study of machine tool (Central Workshop)</p> <p>a. Introduction to Lathe</p> <p>b. Drilling machine - Pillar type.</p> <p>5. Study of Joining Process (Central Workshop):</p> <p>Gas welding, Arc Welding, & Spot welding</p> <p>6. Study of Refrigeration & Air conditioning (RAC Lab, Mech engg. Dept.)</p> <p>a. Split & Window A/C systems</p> <p>b. Test rig of Vapour compression refrigeration</p>
Name of Lab Incharge	Mr.S.M. Math
Name of Lab Assistant	Mr. S. J. Deodhare
Name/s of Lab Menial Staff	Mr.N.R. Mansawale