



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	Theory of Machines
Lab Description	This laboratory serves the practicals for the courses Theory of Machines(I & II). The laboratory details are as given below. Room No:CM-123 Lab In-charge: Mr. A.N. Surde
Lab Equipments	<ol style="list-style-type: none"><li>1.MOTORISED GYROSCOPE</li><li>2.UNIVERSAL GOVERNER APPARATUS</li><li>3.VIBRATION MEASUREMENT APPARATUS</li><li>4.INVOLUTE GEAR TOOTH PROFILE GENERATING RACK CUTTER APPARATUS</li><li>5.FFT ANALYZER</li><li>6.GOVERNOR APPARATUS</li><li>7.MODELS OF VARIOUS MECHANISMS</li><li>8.MODELS OF CAM &amp; FOLLOWER</li></ol>
Lab Floor Area in square meters	116.42

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Practicals Engaged in Lab	Theory of Machines-I & II :- 1. Demonstration of Grashoff's law for four bar mechanism. 2. Drawing the cam profile by plotting displacement, velocity & acceleration diagrams on drawing sheet 3. Experiment on Watt, Porter & Hartnell governors to study governor characteristics. 4. Experiment to generate involute gear tooth profile. 5. Two Problems on each type of Epicyclic gear train using tabular method. 6. Experiment on Gyroscope.
Name of Lab Incharge	Mr. A.N.Surde
Associated Faculty of the Lab	Mr S.S. Rathod
Name of Lab Assistant	Mr.G.D. Navalgund
Name of Menial Staff	Mr. A.N. Talikoti