



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	 A photograph showing various metrology instruments on a white table. In the foreground, there are three wooden blocks, each holding a different tool: a vernier caliper, a depth gauge, and a micrometer. In the background, there are more tools, including a dial indicator and a surface plate, along with their respective wooden storage boxes.
Lab Name	Metrology Laboratory
Lab Description	This laboratory serves the practicals for the course Metrology. The laboratory details are as given below. Room No:CM-217-A Lab In-charge: Prof. P.V. Salunke



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Lab Equipments	(1)Surface Finish Tester (2)Floating Carriage Micrometer with thread measuring wire set (3)Slip Gauges M83 (4)Centrimeter (5)Surface plates C.I & Granite (6)Angle Slip Gauges (7)Vernier & Micrometer Instruments (8)Sigma Comparator (9)Monochromatic Light Unit (10)Pneumatic Gauging System (11)Height Master (12) Sine bar & Sine Center (13) Dial Comparator with Magnetic base (14)Optical Flat (15)Plug & Ring gauges (16)Machine Tool Alignment test kit (17)Standard Sized Balls & Rollers (18)Internal & External Standard Taper Jobs. (19)Standard 'Straight Edge'(1+2) (20) Profile Projector
Lab Floor Area in square meters	83.42

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Practicals Engaged in Lab	<ol style="list-style-type: none">1.Study & use of Vernier Instruments2.Study & use of Micrometer Instruments3.Study & use of Slip Gauges & Calibration of Micrometer4.Study of Limit Gauges5.Study & use of Comparators – Mechanical & Pneumatic6.Study & use of angle measuring instruments & Standards.7.'Gear Tooth' thickness measurement.8.Thread Measurement
Name of Lab Incharge	Mr.S.M. Utage
Name of Lab Assistant	Mr. S.J. Deodhare
Name/s of Lab Menial Staff	Mr. N.C. Achalere