



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	Metallurgy Laboratory
Lab Description	This laboratory serves the practicals for the course Metallurgy. The laboratory details are as given below. Room No:CM-120 Lab
Lab Equipments	<ol style="list-style-type: none">1. 'Dewinter' Metallurgical microscope with2. Material Plus Software3. Vertical and Inverted metallurgical microscope4. Single spindle automatic disc polishing machine.5. Resistance type muffle heat treatment furnace6. Models and charts to describe manufacturing processes, dislocations, crystallography, etc.7. Standard set of Microstructure specimen.8. Poldi Hardness tester9. Dye penetrant test kit10. Tempering furnace
Lab Floor Area in square meters	83.42



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Practicals Engaged in Lab	<ol style="list-style-type: none">1. a) Study of Metallurgical Microscopeb) Preparation of Specimen for metallographic observation2. Macroscopy<ol style="list-style-type: none">a) Macroetchingb) Spark test3. Study of Microstructures of Steels4. Study of grain size measurement5. Study of Microstructures of Cast Irons6. Study of Microstructures of Non ferrous alloys7. Study of Heat treatments Processes (Normalising, Annealing,
	<p>Hardening, Tempering)</p> <ol style="list-style-type: none">8. Study of Microstructures of Heat treated specimen9. Study of Destructive testing (Tensile, Impact, Hardness test)10. Study of Non destructive testing (Dye penetrant and Eddy current test)11. Study of Microstructures of Surface hardened steels
Name of Lab Incharge	Mr. V.P. Kulkarni
Name of Lab Assistant	Mr. G. D. Navalgund