



S.A.P.D. Jain Pathashala

Walchand Institute of Technology, Solapur

An Autonomous Institute

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Department of General Engineering

Lab Details

Lab Name	Engineering Physics
Lab Description	<p>The Engineering Physics Laboratory is designed to provide first-year engineering students with practical experience in fundamental physics concepts, fostering both understanding and applications relevant for all engineering disciplines. It can accommodate about 20 -22 students per batch. The lab supports hands-on learning in areas such as mechanics, optics, electricity, solid state physics, semiconductor physics, electronics and modern physics through advanced and traditional experiments; enabling students to link theory with practical engineering applications. Combining traditional instruments and virtual modules, the lab promotes self-learning, adaptability and exposure to new technologies through simulations. This integrated approach fosters practical skills, critical thinking and course outcome attainment, preparing students for future engineering challenges.</p>
Lab Equipments	Grating & Spectrometer, Polarimeter, Hall Effect Kit, He-Ne Laser Kit, Crystal Models, Malus law Kit, Energy Band Gap Kit, Fibre Optic Trainer, Kundt's Tube, Plank's Constant Kit
Lab Floor area in square meters	114.38
Practicals engaged in Lab	<ul style="list-style-type: none">• XRD analysis• Crystallography• Hall Effect• Band Gap Energy• Theory of Plane Diffraction Grating• Resolving Power of Plane Diffraction Grating• He-Ne Laser: Beam Divergence• Numerical aperture and Acceptance angle of an optical fibre.• Plank's constant• Kundt's Tube• Half Shade Polarimeter

	<ul style="list-style-type: none">• Malus Law
Name of Lab Incharge	Dr. Mrs. P.S. Joshi
Associated Faculty with the lab	Dr. Mrs. P.S. Joshi, Mr. S. S. Siddul
Name of Lab Assistant	Mr. M. S. Satpute
Name/s of Menial Staff	Mr. K.D. Patel