



S.A.P.D. Jain Pathashala

# Walchand Institute of Technology, Solapur

An Autonomous Institute

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## Department of Civil Engineering

### Lab Details

<b>Lab Name:</b>	Surveying Lab
<b>Lab Description</b>	Major tests conducted in the laboratory: <ol style="list-style-type: none"><li>1. Demonstration of Total Station applications for contouring, line out, profile leveling, etc.</li><li>2. Permanent adjustment of surveying instruments such as Dumpy Level, Auto Level, Theodolite, etc.</li><li>3. Use of Plane Table and other minor instruments</li><li>4. Demonstration of GIS software (GRAM++) Use of Global positioning system (GPS) for absolute positions, tracking and navigation applications.</li></ol>
<b>Lab Equipment</b>	<ol style="list-style-type: none"><li>1. Automatic Level with Stand</li><li>2. Total Station</li><li>3. Dumpy Level</li><li>4. Digital Theodolite</li><li>5. Mirror Stereoscope</li><li>6. Plane table with accessories.</li><li>7. Global positioning system meters.</li><li>8. Geographical information system software (GRAM++).</li></ol>
<b>Lab Floor Area in square meters</b>	95.79
<b>Practicals Engaged in Lab</b>	Study and use of Auto Level, Study and use of Total station, Preparation of contour map using Block contouring method Minimum area of one Hectare.
<b>Name of Lab Incharge</b>	Mr. Shashikant Buvasaheb Gosavi
<b>Associated Faculty with the lab</b>	Mrs. Supriya Deepak Konda
<b>Name of Lab Assistant</b>	Mr. S. K. Umbardand
<b>Name/s of Menial Staff</b>	Mr. P. B. Honkase