



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

**Email:** principal@witsolapur.org | principal.witsolapur@gmail.com

## Department of Civil Engineering

### Lab Details

<b>Lab Name:</b>	Engineering Geology Lab
<b>Lab Description</b>	Major tests conducted in laboratory <ol style="list-style-type: none"><li>1. Study of basic properties of various minerals using available specimens in laboratory</li><li>2. Study of Geological features such as Deep, Strike, Fault etc.</li><li>3. Study of Geological Maps</li></ol>
<b>Lab Equipment</b>	<ol style="list-style-type: none"><li>1. Mineral Specimens</li><li>2. Models of Geological Features, Dip, Strike, Pitch etc</li><li>3. Geological Maps</li></ol>
<b>Lab Floor Area in square meters</b>	70
<b>Practicals Engaged in Lab</b>	<ol style="list-style-type: none"><li>1) Study of physical properties of minerals.</li><li>2) Study of different group of minerals.</li><li>3) Study of Crystal and Crystal system.</li><li>4) Identification of minerals: Silica group: Quartz, Amethyst, Opal; Feldspar group: Orthoclase, Plagioclase; Cryptocrystalline group: Jasper; Carbonate group: Calcite; Element group: Graphite; Pyroxene group: Talc; Mica group: Muscovite; Amphibole group: Asbestos, Olivine, Hornblende, Magnetite, Hematite, Corundum, Kyanite, Garnet, Galena, Gypsum.</li><li>5) Identification of rocks (Igneous Petrology): Acidic Igneous rock: Granite and its varieties, Syenite, Rhyolite, Pumice, Obsidian, Scoria, Pegmatite, Volcanic Tuff. Basic rock: Gabbro, Dolerite, Basalt and its varieties, Trachyte.</li></ol>

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

**Email:** [principal@witsolapur.org](mailto:principal@witsolapur.org) | [principal.witsolapur@gmail.com](mailto:principal.witsolapur@gmail.com)

	<p>6) Identification of rocks (Sedimentary Petrology): Conglomerate, Breccia, Sandstone and its varieties, Laterite, Limestone and its varieties, Shales and its varieties.</p> <p>7) Identification of rocks (Metamorphic Petrology): Marble, slate, Gneiss and its varieties, Schist and its varieties. Quartzite, Phyllite.</p> <p>8) Study of topographical features from Geological maps. Identification of symbols in maps.</p> <p>9) Study of structural Geological models. (at least 5)</p> <p>10) Identification of Subsurface rock with the help of Resistivity Instrument</p>
<b>Name of Lab Incharge</b>	Dr. Sachin Chandrakant Deshmukh
<b>Associated Faculty with the lab</b>	Dr. P. D. Mali, Dr. S. B. Joshi Mr. Vijay Waghmare
<b>Name of Lab Assistant</b>	Mr. N. V. Akatnal
<b>Name/s of Menial Staff</b>	Mr. N. R. Shivashetti