



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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Department of Civil Engineering

Lab Details

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| Lab Name: | Engineering Geology Lab |
| Lab Description | Major tests conducted in laboratory <ol style="list-style-type: none">1. Study of basic properties of various minerals using available specimens in laboratory2. Study of Geological features such as Deep, Strike, Fault etc.3. Study of Geological Maps |
| Lab Equipment | <ol style="list-style-type: none">1. Mineral Specimens2. Models of Geological Features, Dip, Strike, Pitch etc3. Geological Maps |
| Lab Floor Area in square meters | 70 |
| Practicals Engaged in Lab | <ol style="list-style-type: none">1) Study of physical properties of minerals.2) Study of different group of minerals.3) Study of Crystal and Crystal system.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.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.6) Identification of rocks (Sedimentary Petrology): Conglomerate, Breccia, Sandstone and its varieties, Laterite, Limestone and its |

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| | <p>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> |
| Name of Lab Incharge | Dr. Sachin Chandrakant Deshmukh |
| Associated Faculty with the lab | Dr. P. D. Mali, Dr. S. B. Joshi Mr. Vijay Waghmare |
| Name of Lab Assistant | Mr. N. V. Akatnal |
| Name/s of Menial Staff | Mr. N. R. Shivashetti |