



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

| | |
|--|---|
| Laboratory Name: | Structural Dynamics Lab |
| Lab Description | Simulation of various ground motions to study the performance of structures such as, <ol style="list-style-type: none">1. Base isolation study2. Effectiveness of retrofitting3. Identification of liquefaction potential of soil4. Soil structure Interaction5. Soil pile interaction |
| Lab Equipment | The laboratory is developed with the help of financial assistance of AICTE under the Research Promotion Scheme (RPS), File No. 20/AICTE/ RIFD/RPS (POLICY- III)33/2012-13. This laboratory is well equipped for dynamic experimentation with the help of a servo-hydraulic Uniaxial Shake Table. Shake Table is of size 2m x 2m having a payload capacity of 30 kN. This facility simulates various kinds of motion such as sine, ramp, pulse, etc. Simulating the real past earthquake is also possible by providing time history data to the machine. |
| Lab Floor Area in square meters | 70 |
| Practicals Engaged in Lab | <ol style="list-style-type: none">1. Evaluation of the seismic performance of the building frame considering soil-structure interaction2. Effectiveness of alternate bracing system of composite building frames considering soil-structure interaction.3. Evaluation of the time period of structures by various approaches |
| Name of Lab In-charge | Dr. Mahesh Girmallappa Kalyanshetti |
| Associated Faculty | 1. Mr. Chetan Gourishankar Konapure |

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

| | |
|-------------------------------|---------------------------------------|
| with the lab | 2. Mr. Prashant Vishwanath Dhanshetti |
| Name of Lab Assistant | Mr. G. V. Potdar |
| Name/s of Menial Staff | Mr. Jain. G.C |