



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

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## Mechanical Engineering Department Lab Details

|                                 |  |
|---------------------------------|--|
| Lab Photo                       |    |
| Lab Name                        | Automobile Engineering   |
| Lab Description                 | Automobile lab serves the as the venue and resource for the subjects Automobile Engineering, Basic Mechanical Engineering student projects.  |
| Lab Equipments                  | Automobile lab comprises of salvaged automobiles, individual components. It consists of demonstration models of diesel engine, truck chassis, and Maruti 800 car, Truck chassis and BAJA and FSAE completion vehicles. |
| Lab Floor Area in square meters | 100  |

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|                               |  |
|-------------------------------|--|
| Practicals Engaged in Lab     | <ol style="list-style-type: none"><li>1. Study and Demonstration of four wheeler chassis layout. Two-wheel &amp; four wheel drive layouts</li><li>2. Study and Demonstration of working of plate automobile clutch</li><li>3. Study and Demonstration of synchromesh Gearbox</li><li>4. Study and Demonstration of final drive and differential.</li><li>5. Study and Demonstration of working hydraulic breaking system.</li><li>6. Study and Demonstration of front wheel steering geometry and steering mechanism.</li><li>7. Study and Demonstration of suspension system of a four wheeler.</li><li>8. Study and Demonstration of battery and electrical starting system</li><li>9. Study and Demonstration of (a) Electric Horn (b) Electric fuel gauge (c) Flasher unit. (d) Wiper circuit.</li></ol> |
| Name of Lab Incharge          | Prof. R. D. Mistry/ Prof. N. R. Tambake.   |
| Associated Faculty of the Lab | Prof. N. R. Tambake  |
| Name of Lab Assistant         | Mr. S. J. Deodhare   |
| Name/s of Lab Menial Staff    | Mr. A. N. Talikoti   |