

**Name of Lab: - Engineering Mechanics Lab**

**Name of Lab In charge: - Prof. Ghatol C.B.**

**Name of Lab Assistant: - Mr. Patil V.B**

The main objective of Engineering Mechanics Lab is to perform the practical's of physical science (Physics) under control environment, to understand the fundamentals of Law of Mechanics and their Engineering Applications. The experimental work helps to understand the different forces on civil Engineering Structures.

**Maharashtra State Board of Technical Education**

**Equipment List**

**Name of Lab: - Engineering Mechanics**

**Particulars:** Specifications of Major/essential Equipment required for conduction of practical as per curriculum

<b>Sr. No</b>	<b>Particulars</b>	<b>No of Available</b>	<b>Cost</b>
1	Slotted Weights (CAT NO.9141)	2	Rs.6280/-
2	Chain Pulley Blocks (Without Weight)	1	Rs.5760/-
3	Inclined Plane (Without Weight)	1	Rs.1680/-
4	Lever Apparatus <b>Specification:</b> - simple graduated beam fitted into a pivoted stirrup and with spirit level on base supplied with a) two set of weights, each set consisting of focus slotted weights. b) One hanger of 20cm.	3	Rs.3600/-
5	Moment Of Inertial Of Flywheel(Without Weight)	1	Rs.1920/-
6	Parallel Force Apparatus, Over Hang Beam Type	1	Rs.6000/-
7	Pulley Demonstrate Set (With Weight)	1	Rs.4920/-
8	Screw Jack (Without Weight)	1	Rs.3600/-

9	Simple Jib Crane	1	Rs.2280/-
10	Universal Force Table	1	Rs.8650/-
11	Wheel And Differential Axle 30 Cm Dia.(Without Weight)	1	Rs.4320/-
12	Winch Crab , Double Purchase(Without Weight) <b>Specification:</b> - consist of 25 cm dia cast iron gear wheel& axle in mesh with pinion wheel& effort wheel running in bracket, supplied complete with double set of gearing arrangement & without weights.	1	Rs.9000/-
13	Winch Crab , Single Purchase(Without Weight)	1	Rs.7680/-
14	Worm And Worm Wheel	1	Rs.3720/-
<b>Total Cost</b>			<b>Rs.69410/-</b>

Lab In charge

HOD