



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

DEPARTMENT OF MECHANICAL ENGINEERING

THEORY OF MACHINES LABORATORY

Theory of machines laboratory provides hand on experience on the mechanisms and machines and also enriches design thinking for simple and critical applications of mechanical system which include automobile, machine tools and inter disciplinary applications. It provides platform for kinematics and kinetics to determine the performance of anti-frictional machine tool elements, find out the whirling speeds, balancing techniques for rotating equipment's and fuel control mechanism in prime movers.

List of Equipment

S. No	Item	Make	No. of Units	Cost per Unit (Rs.)	Total Cost (Rs.)
1	Universal Vibration apparatus	Scientific Enterprises	1	94,500	94,500
2	Journal Bearing apparatus	Scientific Enterprises	1	59,000	59,000
3	Mechanism models	Scientific Enterprises	1	49,000	49,000
4	Universal governor apparatus	Scientific Enterprises	1	39,800	39,800
5	Motorized gyroscope	Scientific Enterprises	1	39,800	39,800
6	Static and dynamic force analysis	Scientific Enterprises	1	39,800	39,800
7	Whirling of shaft apparatus	Scientific Enterprises	1	39,500	39,500
8	Ball bearing test rig	Scientific Enterprises	1	17,900	17,900
9	Differential gear box model	Scientific Enterprises	1	4,500	4,500
Total Cost (Rs.)					3,83,800
<i>(In words: Rupees Three Lakhs eighty three thousand and eight hundred only)</i>					

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