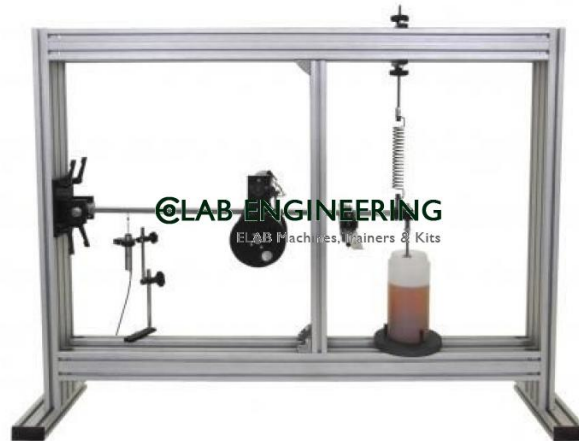


Product Name :
Universal vibration apparatus

Product Code :
Theory of Machine0010



Description :

Universal vibration apparatus

Technical Specification :

We are engaged in the manufacturing and exporting of Universal Vibration Apparatus. The apparatus provided inclusive unit to perform the vibration experiments. A universal frame is provided upon which quick and easy assembly of various experiments can be done. The unit is self contained to safely store spares. The students can easily assemble the experiments and study the theory of vibrations practically.

EXPERIMENTS:-

Following experiments can be performed with this unit:

- To verify the relation simple pendulum.
- To verify the relation of compound pendulum & to determine the radius of gyration.
- To study radius of gyration of bar suspension.
- To study the undamped free vibration of spring mass system.
- To study the longitudinal vibration of helical coiled spring.
- To study the forced vibration of simply supported beam for different damping.
- Undamped torsional vibrations of single rotor system.
- Undamped torsional vibrations of double rotor system.
- To study the damped torsional vibration of single rotor system and to determine the damping coefficient.
- Verification of Dunkerley's Rule.
- To study the forced damped vibration of spring mass system.

UTILITIES:-

- Floor Space: 2.5 m x 2.5 m approx.
- Power Supply: 230V AC, 5 Amps, 100W max.

TECHNICAL SPECIFICATION -

- RPM Measurement: Digital RPM Indicator with Proximity sensor.
- The setup also consists of exciter unit with PTP Motor and speed controller, ordinary strip chart recorder and damper with arrangement for changing damping.
- An electronic stop clock is provided to measure the time period
- The whole Setup is well designed and arranged in a good quality painted Structure

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