

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 safety wire 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-filar 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: 220V AC, 5 Amps, 1000 watt.

TECHNICAL SPECIFICATION -

- RPM Measurement: Digital RPM Indicator with Proximity sensor.
- The setup also consists of exciter unit with FVP 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.

 **LAB ENGINEERING**

Elab Engineering Equipments Manufacturers