

**DESCRIPTION:**

- The apparatus provided comprehensive 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.

EXPERIMENTATION:

- 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 bi-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 tensional vibrations of single rotor system.
- Undamped torsion vibrations of double rotor system.
- To study the damped torsional vibration of single rotor system and to determine the damping coefficient.
- Verification of Dunker ley's Rule.
- To study the forced damped vibration of spring mass system.

UTILITIES REQUIRED:

- Floor Space: 2.5 m x 2 m approx.
- Power Supply: 230V AC, 5 Amps. With earth.

TECHNICAL DETAILS:

- Exciter Unit : With FHP DC Motor with Speed Control Facility
- RPM measurement : Digital RPM Indicator with Proximity sensor.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Ordinary Chart recorder : For recording Frequency and Amplitude of Vibration.
- Stop Watch : Electronic Stop Watch.
- Instruction Manual : An ENGLISH instruction manual will be provided along With the Apparatus.
- The whole set-up is well designed and arranged in a good quality painted structure.



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