



55732 Experimental Set Up has been designed specifically for the study of electromagnetic induction and verification of Faraday's law. The set up is absolutely self contained and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

Object:-

Study of electromagnetic induction and verification of Faraday's law.

- 01 To study the Induced emf as a Function of Velocity of the Magnet passing through a Coil.
- 02 To study the Charge Delivered Due to Electromagnetic Induction
- 03 To study electromagnetic damping

Features

The Set up consists of the following :

- 01 Mechanical part consisting of a permanent magnet mounted on an arc of a semi-circle of radius 40 cm. The arc is part of a rigid frame of aluminium and is suspended at the centre of arc so that the whole frame can oscillate freely in its plane. Weights have been provided on the diagonal arm, so that by altering their position, the time period of oscillation can be varied from about 1.5 to 3 sec. Two coils of about 10,000 turns of copper wire loop the arc, so that the magnet can pass freely through the coil. The two coils are independent and can be connected in series or parallel.
- 02 Measurement board consisting of Voltmeter, Milliammeter, resistance, condenser and diode.
- 03 Weight : 3.4 Kg. (Approx.)
- 04 Dimension : W 415 x H 165 x D 315
- 05 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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