

DETERMINATION OF ACCELERATION DUE TO GRAVITY USING SIMPLE PENDULUM AND FINDING LENGTH OF SECONDS PENDULUM ALSO STUDY THE DEPENDENCE OF TIME PERIOD ON MASS OF BOBS, AMPLITUDE OF OSCILLATIONS & LENGTH OF THE PENDULUM
OMEGA TYPE ES-300

OMEGA TYPE ES-300 Experimental Set-Up has been designed specifically to determine acceleration due to gravity using simple pendulum & finding the length of seconds pendulum. It is also designed for studying variation of time period of a simple pendulum with variation of mass of bobs, amplitude of oscillations and length of the pendulum.

The set-up is complete in all respects and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

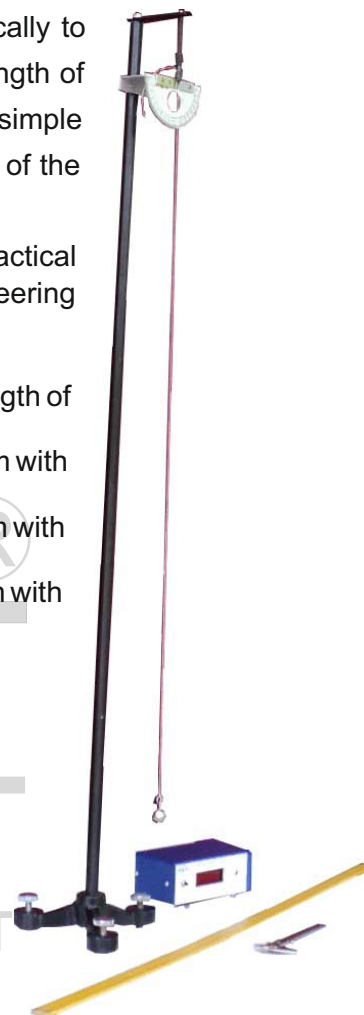
OBJECTS

- 01 To determine acceleration due to gravity using simple pendulum & to find length of seconds pendulum.
- 02 To study experimentally the dependence of time period of a simple pendulum with variation of mass of bobs.
- 03 To study experimentally the dependence of time period of a simple pendulum with variation of amplitude of oscillations.
- 04 To study experimentally the dependence of time period of a simple pendulum with variation of length of the pendulum.

FEATURES

The complete Experimental Set-up consists of the followings:

- 01 **IRON STAND** : 1.2 meter long rod with Strong base
- 02 **STRING HOLDER (DRILL CHUCK)** : Arrangement to change the length of the thread
- 03 **PENDULUM BOBS** : 3 bobs (Aluminum, Steel, Brass), Diameter approx. 20mm.
- 04 **VERNIER CALLIPERS** : 150 mm
- 05 **DIGITAL STOP CLOCK (OMEGA TYPE DSC-602)** : With START/STOP operation by means of toggle a switch & RESET by a push button switch. It has a range of 999.9 seconds with resolution of 0.1sec. and accuracy of $\pm 0.01\%$ (Quartz controlled) Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage.
- 06 **THREAD** : Thin soft Cotton Thread
- 07 **WOODEN SCALE** : 1 metre
- 08 **PROTRACTOR (D)** : 180° Attached
- 09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.



We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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