

55822 Experimental Set-Up has been designed specifically for determination of focal length of a combination of two convergent lenses using Nodal Slide Assembly. The set-up consists of Nodal Slide Assembly, Light s ource, optical screen, plane mirror \& convex lens.
The set up is complete in all respect and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

## OBJ ECT

To determine the focal length of a combination of two convergent lenses using Nodal Slide Assembly and to verify the relation

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\frac{1}{F}=\frac{1}{f_{1}}+\frac{1}{f_{2}}-\frac{d}{f_{1} f_{2}}
$$

## FEATURES

The complete experimental Set-up consists of :
01 Nodal Slide Assembly : Comprising of the following:
1.1 Optical Bench :Two 150 cm long steel rods $3 / 4 "$ dia forming a bench with end supports having levelling screws. One of the two steel rods is graduated in $\mathrm{cm} \& \mathrm{~mm}$. It has four riders, two with transverse motion.
1.2 Nodal Slide Unit : Two vertical axis contains a carriage with suitable arrangement for combination of single \& double lens holders. The lens holders are adjustable in height and are provided with lateral motion by rack \& pinion. These mations can be noted along a scale. The vertical carriage containing the whole mount can rotate along the vertical ax is along a cir cular graduated scale.
02 Lamp House : An electrical 40W bulb is encased in a case.
03 Optical Screen: With fine cross slit
04 Plane Mirror: Inclinable
05 Convex Lens: Two no's.
06 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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