Physics Lab Equipments



Physics Lab Equipments & Experimental Setups

ME 853 - To verify the expression for the focal length of a combination of two lenses.

Setup comprises of:

: Focal length 10cm and Convex lens

20cm (One Each)

· Optical bench : 1 Meter (Full Shaper)

· Lamp of narrow opening

· Cross slit screen

Nodal slide assembly

· Plane mirror in holder



ME 854 - To find the specific rotation of sugar solution by using a polarimeter



Setup comprises of:

· Polarimeter with polarimeter tube : 30cm

Beaker & measuring cylinder: 100ml (1 Each)

 Light Source : 35 Watt Sodium vapour lamp housed in powder

coated Steel cabinet with Transformer & Stand

Optional Accessories: Cane sugar, Glass funnel, Glass rod

ME 855 - To find the wavelength of white light with the help of a plane transmission diffraction Grating



Setup comprises of:

Diffraction Grating : 15000 lines/inch

Spectrometer :6 Inch, Least Count - 30 Sec.

 Light Source :80 Watt Mercury vapour lamp housed in powder

coated Steel cabinet with Transformer & Stand

ME 855A - To determine the Rydberg's constant with help of diffraction grating and the hydrogen discharge tube



Setup Consist of:

:6 Inch, Least Count - 30 Sec. Spectrometer

 Hydrogen discharge tube with supply Diffraction grating : 15000 lines/inch ME 855B - To study the absorption spectrum of iodine vapours and hence to calculate electronic energy gap, vibrational energy and force constant for its excited state.



Setup Consist of:

lodine vapour glass tube in wooden box with stand arrangement with iodine pallets (1m)

100 W straight filament lamp arrangement

Spectrometer :6 Inch, Least Count - 30 Sec.

: 15000 lines/inch Diffraction grating