

## Physics Lab Equipments & Experimental Setups

### ME 927 - Friction Slide Apparatus (without weight)

#### Objective :

- To study the conservation of energy of a ball rolling down on an inclined plane (using a double inclined plane).



#### Setup Consist of:

- A inclined plane (track) Apparatus
- Steel ball (Dia) : 20 cm
- Wooden blocks : 2.5 cm (2 Nos.)
- Roller : 1Pc
- Weights : upto 100g

### ME 928 - Friction Slide Apparatus (Inclined Plane) with weight & trolleys

- Same as ME 927

### ME 931 - Determination of the viscosity of water by method of capillary flow. (Poiseuilles method)

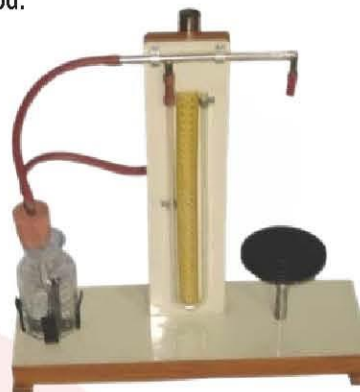


#### Setup Consist of:

- Capillary tube fitted on a board with a manometer and side tubes
- Constant level reservoir
- Measuring cylinder : 250ml
- Stop watch : Least count - 0.01 Sec

Optional : Traveling Microscope

### ME 932 - To determine the surface tension of a liquid (water) by Jaeger's method.



#### Setup Consist of:

- Jaeger's apparatus
- Beaker : 500ml
- Thermometer : -10 to 110 Degree C
- Optional : Travelling Microscope & Metallic scale 30cm

### ME 933 - To determine the co-efficient of viscosity of glycerin or castor oil by stoke's method.



#### Setup Consist of :

- Falling sphere viscometer with scaled glass tube (Length 1 Meter Approx.)
- Small metallic spheres of different radius
- Stop watch : Least count - 0.01 Sec
- Vernier caliper : Least count - 0.01cm  
Range : 15cm
- Screw gauge : Least count - 0.01mm
- Glycerin : 1 Liters