Physics Lab Equipments



Physics Lab Equipments & Experimental Setups

ME 941 - Jolly Apparatus

Objective:

 To determine the coefficient of increase a volume of air at constant pressure / Constant volume

ME 942 - To determine the thermal conductivity of a nonmetallic solid (bad conductor) by Lee's disc method.



Lee's apparatus

· Steam boiler

Hot plate

• Thermometer :-10 to 110 Degree C (2 Nos.)

• Stop watch : Least count - 0.01 Sec

Vernier caliper : Least count - 0.01cm Range :15cm

Screw gauge :Least count - 0.01mm

Soft rubber pipe : 1 Meters

Optional: Digital weigh machine (1000gm)

ME 943 - Heat Efficiency of an Electric Kattel Objective :

 Heat Efficiency of an Electric Kettle is designed to study the Heating efficiency of an electric kettle with varying voltages.



D 0 1 11 11

Power Supply Unit

Output Voltage : 0-230V AC/ 2Amps

Variac : Varying the AC Supply voltage to the kettle

Digital Voltmeter : 0-300V AC

Two point power socket provided for kettle supply

Mechanism housed in a metallic box

Electric Kettle

Range : 220V / 450Watt element

Capacity: 1½ Liter.

ME 944 - To determine the Mechanical Equivalent of heat (J) by the Callender and Barnes method.



Setup Consist of :

- Callender and Barne's calorimeter
- AC mains with a step down transformer (12 V) ME 227

Ammeter :3A AC
 Voltmeter :12V AC
 Rheostat :100 ohm/1Amp

: 100 ohm/1Amp

• Stop watch : Least count - 0.01 Sec

Measuring jar :500 ml

• Thermometer :-10 to 110 Degree C (2 Nos.)

GN 7432 - To verify triangle and parallelogram law of forces with the help of Gravesand's apparatus.



Setup Consist of:

· Gravesand's apparatus

• Weight : 250G - 5 pcs (with hanger arrangement)

Thread : 2 Meters