



**Hall Effect Measurement System**

**In Charge: Dr. M. C. Santhosh Kumar**

**Specifications**

Sample size : 5 mm x 5mm up to 15m x 15mm  
Resistivity :  $10^{-4}$  to  $10^7$  (Ohms-cm)  
Magnet : Permanent magnet, 30 mm diameter  
Magnet Flux Density : 0.51T nominal +/-1% of marked value  
Mobility : ( $\text{cm}^2/\text{Volt-sec}$ )  $1 \sim 10^7$   
Concentration : ( $\text{cm}^{-3}$ ):  $10^7 \sim 10^{21}$   
Current Source: Range : 1nA-20mA Compliance: 12V  
Minimum Hall Voltage :  $1\mu\text{V}$   
Temperature Ranges : HMS-5000: 80K to 350K