

## Laboratory of Atomic and Solid State Physics (M.Sc.)

Department of Physics, NIT Srinagar

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C. No. : **PSPHY-LB1/105**  
R. No. : 331

S. No.	Name of Experiment	Bench No.
1.	To study the variation of Hall coefficient with temperature.	
2.	To find the band gap of intrinsic semiconductor using four probe method	
3.	To calculate the hysteresis loss by tracing the BH curve.	
4.	To study the variation of dielectric constant of PZT with temperature	
5.	To study the Thermo-luminescence of F-centers in alkali halides	
6.	To determine the excitation energy of argon using Frank Hertz experiment	
7.	To determine the Planck's constant through photoelectric effect	
8.	To study the magnetic field dependence of the transverse magnetoresistance of a given semiconductor sample	
9.	To determine the magnetic susceptibility of a given paramagnetic sample by Gouy's method	
10.	To determine the ionization potential of argon/mercury	