

Course Type	Course Code	Name of Course	L	T	P	Credit
DP	PHC300	THERMAL PHYSICS LAB	0	0	2	2

Sl No.	Name of the experiments*
1	To study characteristic of thermistor
2	Study of Seebeck effect and calibration of thermocouple.
3	Study of Peltier effect using a thermocouple.
4	To calibrate a thermocouple to measure temperature in a specified Range using (1) Null Method, (2) Direct measurement using Op-Amp difference amplifier and to determine Neutral Temperature.
5	Study of black body radiation and verification of Planck's Law.
6	Determination of ratio of specific heats of gas γ by Clark and Katz method.
7	To determine the specific heat of metal samples, and to determine the heat of fusion for ice.
8	Determination of Carnot efficiency using thermocouples.
9	Determination of Boltzmann's constant using <i>pn</i> -diode.
10	Verification of Joule's law of heating using Calorie meter.

*Any 8 experiments will be conducted