

## **List of Selected Experiments for B.Sc. Semester-I Practicals-2020-21**

### **Group-I**

1. Determination of Stefan's Constant, [**Concerned Instructor: Dr. Rajneesh Kumar, Mobile - 9179702674**]
2. PN Junction diode and Zener diode characteristics. [**Concerned Instructor: Prof. Rajendra Kumar Singh, Mobile - 9451000681**]
3. Determination of modulus of rigidity of a wire using Maxwell's needle. [**Concerned Instructor: Dr. Jitesh Barman, Mobile - 9005660376**]
4. Determination of Young's modulus of material of a metallic bar by bending of beam method. [**Concerned Instructor: Dr. Devendra Kumar Mishra**]
5. Determination of acceleration due to gravity using compound pendulum. [**Concerned Instructor: Dr. Rajneesh Kumar, Mobile - 9179702674**]

## **Group-II**

1. Determination of Modulus of rigidity using Barton's apparatus. [**Concerned Instructor: Dr. Jitesh Barman, Mobile - 9005660376**]
2. Construction of three input OR, AND, NOT, NOR, and NAND gates using diode logic and to verify truth's tables. [**Concerned Instructor: Prof. Rajendra Kumar Singh, Mobile - 9451000681**]
3. Determination of viscosity of liquid using Poiseuille's method. [**Concerned Instructor: Prof. Rajendra Kumar Singh, Mobile - 9450578401**]
4. Determination of resistance per unit length and an unknown resistance using Carey-Foster bridge. [**Concerned Instructor: Prof. Rajendra Kumar Singh, Mobile - 9451000681**]
5. Determination of thermal conductivity using Lee's Disc method. [**Concerned Instructor: Dr. Devendra Kumar Mishra, Mobile - 9450578401**]