B.Sc. Semester-I

Practical: PH-MJ 101 (P)

Sr.No.	Experiment
1	To do error analysis and least square fitting
2	To determine force constant (k) of a spring
3	To study one-dimensional elastic collision using two hanging balls
4	To determine modulus of rigidity of a rod by Searle's apparatus
5	To determine Poisson's ratio of rubber
6	Study of Melde's experiment (with constant mass)
7	Study of Melde's experiment (with constant length)
8	Demonstration of cathetometer

ReferenceBooks

1. D. C. Tayal, University Practical physics, Edited by Ila Agarwal, Himalayan Publishing House
2. B. L.Worsnopand H.T. Flint, Advanced Practical Physics, Asia Publishing House, New Delhi.
3. D. P. Khandelwal, A Laboratory Manual of Physics for Undergraduate Classes, Vani Publication House, New Delhi.
4. Geeta Sanon, B.Sc.Practical Physics, 1st Ed.(2007),R.Chand & Co.

Note:

1. The duration of each experiment is of 2 hours. Two such experiments are to be performed by each student per week..
2. In the external exam, a student will have to perform two experiments, one from each group. The experiment will be of 2 hour duration.
3. There should be two examiners, one for each group, in the external examination.
4. There should not be more than **10 students** per examiner per session in the external examination.