Practical MN-PH (PRA) – 401 (CREDITS – 02)

Sr. No.	Title
1.	To verify the perpendicular axes theorem of moment of inertia.
2.	To verify the parallel axes theorem of moment of inertia.
3.	To determine moment of inertia of a circular disc using torsional pendulum (η to be given).
4.	To determine moment of inertia of a flywheel.
5.	To determine self-inductance of an inductor using Maxwell's bridge.
6.	To determine figure of merit of a BG.
7.	To study simple harmonic motion.
8.	To determine moment of inertia of different specimen using bifilar suspension method.
9.	To determine Young's modulus of a beam by the method of vibration.
10.	To determine Young's modulus of a beam by the method of elevation.

Reference Books:

1. D. C. Tayal, University Practical physics, Edited by Ila Agarwal, Himalayan Publishing House
2. B. L. Worsnop and 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.
2. There should not be more than 10 students per batch as per NEP 2020 guidelines.
3. In the external exam, a student will have to perform two experiments, one from each group. The experiment will be of 2-hour duration.
4. There should be two examiners, one for each group, in the external examination.
5. There should not be more than 10 students per examiner per session in the external examination.