Practical MJ-PH (PRA) – 304 (2 Credits)

Sr. No.	Title
1.	To determine wavelength of spectral lines by plane transmission grating. (Minimum deviation method).
2.	To verify Malus' Law.
3.	To verify Brewster's Law.
4.	To determine the specific rotation of a solution by Laurent's half-shade polarimeter.
5.	To determine wavelength of lasers using diffraction grating.
6.	To determine Plank's constant using LED.
7.	To determine Cauchy's constants.
8.	To verify Thevenin's theorem.
9.	To verify Norton's theorem.
10.	To do VDB analysis for the CE configuration of a BJT.
11.	To determine Boltzmann's constant using PN junction diode.
12.	Study of Emitter-Biased Amplifier.

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. The experiment will be of 2-hour duration.
4. There should be two examiners per batch in the external examination.
5. There should not be more than 10 students per examiner per session in the external examination.