Practical MJ-PH (PRA) – 403 (2 Credits)

Sr. No.	Title
1.	To study parallel resonance in LCR circuit.
2.	To determine the self-inductance of a coil by Anderson's bridge.
3.	To determine absorption coefficient of liquid.
4.	To study Owen's bridge.
5.	To determine the resistance of a BG.
6.	To determine capacitance of a capacitor by discharging it through a voltmeter.
7.	To determine phase angle between voltage and current using voltage vector triangle for an RC circuit.
8.	To find impedance, inductive reactance and capacitive reactance of an LCR ac series network for two different frequencies.
9.	To determine moment of inertia of different specimen using bifilar suspension method.
10.	To determine dielectric constant of a dielectric material.
11.	Study of thermocouple.
12.	To determine the capacitance of a capacitor using Schering bridge.

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.

Bajaj