

Sem.	Subject code	Course title	No. of hours	Credits	Paper type
IV	17U4PMP2	Practical - II	2+2	4	Major Practical

Objectives:

To introduce the students to practical skills in electricity, optics, heat and other aspects of physics.

Learning outcome:

The students will be able to appreciate practical methods of determining physical quantities, verify laws of physics and be able to develop experimental skills.

List of Experiments

(Any Sixteen)

No.	Experiment
1	Sonometer - Determination of AC frequency
2	Newton's Rings – Determination of radius of curvature and R.I.
3	Air wedge – Determination of thickness of a given material
4	Deflection and Vibration Magnetometers – Determination of M & B _H
5	TAN C- Determination of pole strength
6	Optic Bench – Biprism – Determination of Wavelength
7	Mirror Galvanometer - Figure of merit –current and voltage sensitivity
8	M.G. – thermo emf of a thermocouple
9	Long Focus convex lens – Determination of focal length
10	Long Focus concave lens – Determination of focal length
11	De Sauty's Bridge – Verification of laws of capacitance
12	Carey-Foster's Bridge – Determination of resistance and resistivity
13	Copper voltameter - Determination of e.c.e
14	Field along the axis of a circular coil – Determination of B _H
15	Spectrometer – refractive index of a prism
16	Spectrometer – Grating – Determination of wavelengths of prominent lines
17	Spectrometer – Grating – Determination of resolving power
18	Spectrometer – Dispersive power of a prism
19	Spectrometer – Narrow angled prism – Refractive index
20	Laurent's half shade polarimeter
21	Potentiometer - Calibration of ammeter
22	Potentiometer - Calibration of Low range Voltmeter
23	Hysteresis curve– ferromagnetic material
24	B.G. - Ammeter Calibration
25	B.G. – High resistance by leakage method

Books for Reference

1. A Text Book of Practical Physics by M.N.Srinivasan, S.Balasubramanian, R.Ranganathan-Sultan Chand & Sons, 2007
 2. A Text Book of Practical Physics by Indu Prakash & Ramakrishna , Kitab Mahal Agencies, New Delhi, 2011
 3. Practical Physics, S.R. Govinda Rajan, T. Murugaiyan S. Sundara Rajan, Rochouse & Sons
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