

Sem.	Subject code	Course title	No. of hours	Credits	Paper type
VI	17U6PMP3	Practical - III	3+3	6	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 – Non-Electronics

(Any Sixteen only)

No.	Experiment (Non-Electronics)
1	LCR- series resonance
2	i-d curve - Spectrometer
3	Owen's bridge – Determination of 'L'
4	Absolute value of C – BG
5	i ₁ -i ₂ curve -Spectrometer
6	Mutual inductance – BG
7	Low pass filter
8	Conversion of G into V-Potentiometer
9	LCR- parallel resonance
10	High pass filter
11	Cauchy's constants - Spectrometer
12	Bi-prism - Spectrometer
13	Thermo emf using -MG
14	Calibration of high range voltmeter-Potentiometer
15	Anderson's bridge – Determination of 'L'
16	Hydrogen spectrum-Spectrometer
17	Determination of Plank's constant-h using photo cell
18	Determination of energy band gap of a given thermister
19	Characteristics of the given thermocouple (Fe-Cu)
20	e/m – Thomson's experiment
21	Charge of an electron - Millikan's experiment
22	Determination of Stefan's constant
23	Magnetic susceptibility – Quinke's method
24	Verification of Brewster's law using Nicol's prism – Spectrometer

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
 3. Practical Physics : S.R. Govinda Rajan, T. Murugaiyan S. Sundara Rajan – Rochouse & Sons
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