

HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

B. Sc. PHYSICS - SEMESTER – III (PRACTICAL COURSE)

PROGRAMME CODE: SCIUG101

(Effective from June 2024 Under NEP – 2020)

COURSE NAME: MDC (MULTIDISCIPLINARY COURSE PRACTICAL)

COURSE CODE: SC23PMDCPHY303 CREDIT: 2

| TYPE OF COURSE | CREDIT | Marks | COURSE CODE |
|---|--------|------------------------|----------------|
| Multi Discipline Core Course (MDS CP) | 2 | 25 CCE + 25 SEE =50 | SC23PMDCPHY303 |
| Teaching Hours Teaching Hours per Week: 04 Hours for 2 Credit practical (60 Hours per Semester) | | | |

::LABORATORY EXPERIMENTS::

1. To Find out Viscosity co- efficient of liquid using co-axial viscometer.
2. To find out the value of e/k using power transistor (PNP \rightarrow CK 100 or NPN \rightarrow SL -100).
3. To Determine Self Inductance of inductor by Anderson Bridge.
4. To Find out The Wave Length of Light using Newton's Rings.
5. Stirling's formula (Numerical Interpolation).
6. Obtain the Characteristics of UJT and Determination of R_{BB} , V_d & η
7. Absorption Co-Efficient of Liquid using Photocell.
8. Obtain the Characteristics of PNP Common Base Transistor.
9. Construction of AND, OR, NOT Gates Using NAND & NOR Universal Gates.
10. Numerical Analysis (Minimum Class Method)