# Birla Institute of Technology & Science, Pilani

Pilani Campus

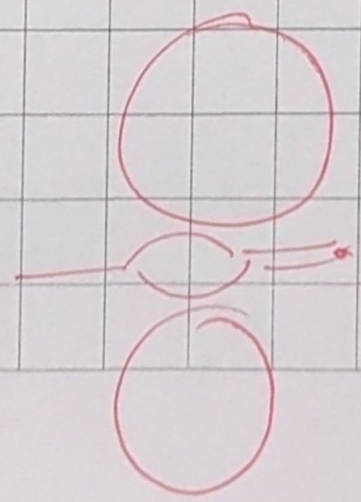
**PHY F244 : Modern Physics Laboratory** | SEM - II | 2024-2025

Observation Sheet

**Date:** 6/02/25

**Exp No. :** 03 **Exp Name :** Specific charge of electron **Group No. :** 01

| S.N. | Name | ID | Signature | Viva Marks | Faculty Signature with Date |
|---|---|---|---|---|---|
| 1. | Abhay Badoni | 2023B5AA1111P | Abhay | 5 | 3/2/25 |
| 2. | Aarav Shah | 2023B5AA0132P | [illegible] | 5 | |
| 3. | Aaditya Thakkar | 2023B5AD1128P | [illegible] | 5 | |
| 4. | | | | | 6/2/25 |

| | d = 2 cm | d = 3 cm | d = 4 cm | d = 5 cm |
|---|---|---|---|---|
| U(V) | I(A) | I(A) | I(A) | I(A) |
| 150 | 3.133 | 2.057 | 1.485 | 1.156 |
| 160 | 3.266 | 2.104 | 1.546 | 1.207 |
| 170 | 3.338 | 2.190 | 1.584 | 1.275 |
| 180 | 3.406 | 2.242 | 1.638 | 1.326 |

$F = e v B$