

4 Lab Report

Hand written on **loose A4 sheets** and to be **written in the Lab hours and submitted**. Make sure that it contains all the basic details needed to perform/reproduce the experimental results.

Report content:

1. Aim of the experiment (with parts if any)
2. Instruments used (including all the components required e.g. cable, etc)
3. connections – draw the set-up diagram
4. Basic physics principle behind the detection
5. Brief description of the Functioning/working of the instrument
6. Set-up used for each part of the experiment (e.g. time duration used, Amplifier set-up, etc, if any)
7. results/conclusion of each part in the end (after the data and plot)
8. **A scanned copy to be Uploaded on Moodle using the appropriate Link**

Lab report arrangement: 1 File per group, arranged as follow

- **** Each member** of a **group** will write **his/her own report** separately. **Plots and data** will be one (**per group**).
- **On the TOP of the report** write your Name, Roll number, Group number, Date, and Tag on the instrument (e.g. GM1, GR-2, etc.) if any
- Arrange the **hand written** report per the **Roll Number** within the group, then the Data-file and plots
- After arrangement as indicated, staple it and submit

NOTE: Penalty for **similar/identical** REPORT or **copying**.

!!!! Will lead to Quiz and Viva taking over, could lead to fluctuation in score upto 20-30% !!!!

5 Sources & Precautions

5.1 Precautions

Radioactive sources handled in the lab are and do not pose any serious health threat unless exposed/contact directly. Sources are very weak and the amount of dose one might get is very less and much below the **prescribed safe-limit**. For more details on Biological effect, check **Leo's Chapter 3**

1. **Don't** hold the source in your hand for a **long-time**.
2. **Don't** the source in your pocket.
3. **Avoid** taking the source **outside** the Lab (**strictly prohibited**)
4. **As soon as** data taking/gathering is **completed**, return the source immediately and do the plotting or calculation part.

**** Don't forget to Sign** the source issuance log-book.

!!!! Action will be taken in case of improper handling/misuse !!!!