

## **Handling of Experimental Data**

### **1. Data Collection**

- **Define objectives clearly** before starting the experiment.
- Use **calibrated instruments** and standard operating procedures (SOPs).
- Ensure **consistency** in experimental conditions.
- Record **raw data immediately** and accurately in lab notebooks or digital formats.
- Perform **replicates** to ensure reliability and detect variability.

### **2. Data Recording**

- Use **standard formats and templates** for recording data.
- Include **metadata** (date, time, sample ID, environmental conditions, operator).
- Maintain **legible, organized, and tamper-proof records**.
- Document any **deviations or unexpected observations**.

### **3. Data Organization**

- Enter data into **structured formats** (Excel, software databases).
- Use **clear labeling** (sample names, units, trial numbers).
- Separate **raw data** from **processed data**.
- Backup regularly using **cloud storage or external devices**.

### **4. Data Processing and Cleaning**

- **Check for errors, inconsistencies, or outliers**.
- Handle **missing data** appropriately—flag it and document reasons.
- **Normalize or standardize** values if needed.
- Ensure **unit consistency** across datasets.

### **5. Data Analysis**

- Choose **appropriate statistical tools** based on data type (e.g., t-test, ANOVA).
- Use software like **Origin, R, Excel, Python, SPSS, GraphPad**.

# Handling Experimental Data

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## Handling Experimental Data:

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