



SigmaPlot Training for Ph.D. Scholars

(Batch 3 & 4)

Event Report

1. Title Page

- **Event Title:** *SigmaPlot Training Report – Research Workshop for Ph.D. Scholars*
- **Date:** 14 January 2025
- **Location:** *High Performance Computer Lab, JSPM University, Pune*
- **Prepared By:** *Dr. Anjali Upadhye, Director of Research*
- **Date of Report:** 30 January 2025
- **Total Registrations Done:** 56 (All Ph.D. Scholars from Batch 3 & 4)
- **Actual Number of Participants Attended:** 56 (100% participation rate)

2. Executive Summary

This report details the one-day intensive training on **SigmaPlot** conducted on 14 January 2025 for Ph.D. scholars of Batch 3 and 4. The session was designed to strengthen scholars' capabilities in advanced data analysis and visualization using SigmaPlot—an industry-standard graphing and statistical analysis software.

Participants gained skills in managing research datasets, performing statistical procedures, and producing publication-ready visual representations. Through a perfect blend of theory and application, this workshop enhanced the scholars' analytical precision and presentation proficiency.

3. Objectives of the Training

- To empower scholars with foundational and advanced skills in SigmaPlot software.



- To train participants in data preparation using Excel and importing into SigmaPlot.
- To demonstrate statistical operations such as frequency distributions, t-tests, ANOVA.
- To develop competency in generating 2D and 3D scientific graphs.
- To improve interpretation and communication of data insights visually.

4. Event Description

- **Date:** 14 January 2025
- **Venue:** High Performance Computer Lab, JSPM University
- **Duration:** One Day (9:30 AM – 4:30 PM)
- **Trainers:** Prof. Dr. Anjali Upadhye (Lead Facilitator), Dr. Chandan Patel (Coordinator)
- **Participants:** 56 Ph.D. scholars from diverse disciplines in Batch 3 & 4

This training adopted a hands-on approach and real-time demonstrations of all functionalities. Individual workstations were provided, with SigmaPlot installed, to allow each participant to practice simultaneously.

5. Programme Flow

Time	Session	Facilitator
9:30 – 10:00 AM	Registration & Welcome Address	Dr. Anjali Upadhye
10:00 – 11:00 AM	Excel Mastery for Data Preparation	Dr. Chandan Patel
11:00 – 12:00 PM	Descriptive Statistics & Parametric Tests	Dr. Anjali Upadhye
12:00 – 12:15 PM	Tea Break	—



Time	Session	Facilitator
12:15 – 1:15 PM	Graph Building: 2D & 3D Visualizations	Hands-On Lab
1:15 – 2:00 PM	Lunch Break	—
2:00 – 3:30 PM	Data Interpretation & Exporting Results	Dr. Chandan Patel
3:30 – 4:00 PM	Q&A and Troubleshooting	Trainer Panel
4:00 – 4:30 PM	Feedback, Certificate Distribution, Vote of Thanks	Academic Office

6. Key Highlights

- Dedicated lab-based training with 1:1 system access
- Scholars used their own datasets for practical work
- Real-time support for formulae, formatting, and result interpretation
- Printed reference manual and sample templates provided
- Group photo session and E-certificate distribution at the end

7. Learning Outcomes

Participants were able to:

- Prepare and clean research data using Excel for statistical analysis.
- Execute SigmaPlot operations like mean, SD, t-test, ANOVA.
- Create multi-format graphs with legends, axis formatting, and publication-ready clarity.
- Interpret outputs critically for inclusion in theses, research papers, and presentations.



8. Feedback Overview

Out of 56 scholars, 49 submitted feedback forms.

Criterion	Excellent (%)	Very Good (%)	Good (%)
Quality of Training	78%	18%	4%
Relevance to Research	84%	14%	2%
Trainer Effectiveness	90%	8%	2%
Confidence in Using SigmaPlot	72%	22%	6%

Participants especially praised the clarity of demonstrations, accessibility of trainers, and the pace of the sessions.

9. Outcomes & Impact

- Scholars gained increased confidence in presenting data graphically.
- Greater clarity on statistical output interpretation for publications.
- Request raised by scholars for a follow-up **Advanced SigmaPlot Series**.
- Some scholars immediately applied learning to ongoing project reports.

10. Recommendations & Follow-Up

- Organize an **Advanced SigmaPlot Training (Part 2)** in April 2025
- Provide remote access to SigmaPlot for those working off-campus
- Develop a **video tutorial series** for revision and self-paced learning
- Include future sessions on **multivariate graphing** and **nonlinear regression**

11. Attachments

- Attendance Sheet
- Training Agenda Brochure



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- Feedback Summary Chart
- Screenshots of Training Sessions
- Certificate Format
- Excel and SigmaPlot Templates
- Group Photo

Photographs:

