

# **Report on Technical Invited Talk on Advanced Surveying Techniques in Total Station and DGPS**

**Presented by:** Shabana H, Cill Associates

**Topic:** Advanced Surveying Techniques in Total Station and DGPS

**Date:** October 26, 2023

**Location:** PTA Seminar Hall

## **Introduction:**

On October 26, 2023, a highly informative technical invited talk was held at the PTA Seminar Hall, featuring Shabana H, an expert from Cill Associates. The central theme of the talk was "Advanced Surveying Techniques in Total Station and DGPS."

## **Speaker Profile:**

Shabana H, a distinguished professional affiliated with Cill Associates, brought a wealth of experience and expertise in the field of surveying and geospatial technology. Her insights and knowledge make her a valuable resource for understanding advanced surveying techniques.

## **Talk Highlights:**

**Topic:** Advanced Surveying Techniques in Total Station and DGPS

**Time:** 1:30 PM to 2:30 PM

**Venue:** PTA Seminar Hall

## **Key Points from the Talk:**

1. **Introduction to Total Station and DGPS:** Shabana began by providing a comprehensive introduction to Total Station and DGPS (Differential Global Positioning System) technology, explaining their significance in surveying and geospatial applications.

2. **Precision and Accuracy:** She emphasized the importance of precision and accuracy in surveying and demonstrated how these advanced techniques can significantly enhance the reliability of survey data.

3. **Applications and Case Studies:** Shabana presented various real-world applications and case studies where Total Station and DGPS technology have been instrumental, including land surveying, construction, agriculture, and urban planning.

4. **Data Processing and Analysis:** The talk delved into data processing and analysis, highlighting the tools and software used to interpret survey data accurately.

5. **Challenges and Best Practices:** Shabana discussed the challenges encountered in advanced surveying and provided insights into best practices for successful data collection and analysis.

## **Conclusion:**

The technical invited talk on "Advanced Surveying Techniques in Total Station and DGPS" by Shabana H was a highly insightful and educational event. Attendees gained a profound understanding of the advanced tools and methodologies employed in modern surveying and geospatial applications.

The practical examples and case studies shared during the presentation illuminated the significance of precision and accuracy in surveying, and the applications discussed highlighted the diverse fields in which these techniques find use.

We express our gratitude to Shabana H for sharing her expertise with the audience and providing valuable insights into the world of advanced surveying technology.

