

# Industrial visit report

A comprehensive report of the recent technical visit to **Kailtech Test and Research Centre Pvt. Ltd.**, Indore on **06/10/2023**.

The visit aimed to gain insights into the industry's technology, particularly about the Test and calibration laboratory.

## 1. Introduction:

The visit to Kailtech Test and Research Centre Pvt. Ltd. Indore was organized for the III year B. Tech. students as a part of the academic program activities. The visit provided an excellent opportunity for students to bridge the gap between theoretical knowledge and practical industry applications. The primary objective of the visit was to acquire in-depth knowledge about the technology prevalent in the industry, with a specific focus on the Test and Calibration Laboratory. In this one-day visit, almost 58 students and 4 faculty members of the department participated.

## 2. Overview of the Visit:

Date: **October 06, 2023.**

Venu: **Kailtech Test and Research Centre Pvt. Ltd. Electronics Complex, Indore.**

Duration: **One day.**

Participants: **58 students (III B. Tech.)** of the Department of Electronics and Instrumentation Engineering attended the visit.

## 3. Objectives:

The primary objectives of the visit were to acquire in-depth knowledge about the technology prevalent in the industry, with a specific focus on the Test and Calibration Laboratory. The detailed objectives are listed as follows:

- Acquire firsthand knowledge of the test and calibration industry.
- Observe the testing procedures for instruments and materials across various industrial sectors such as civil, mechanical, materials, plastics, chemicals, electrical, and electronics.

- Explore the methodologies of calibration within specific departments. Specifically, delve into the technology and equipment utilized within the electrical and electronics test and calibration laboratory.
- Engage with industry professionals and experts to gain deeper insights.

#### **4. Key Highlights:**

During the visit, we observed and learned the following:

- The key processes, technologies, and equipment involved in test and calibration lab for different disciplines of technology and engineering.
- Explore the Geotechnical investigation including SPT, DCPT, Bore logs, ERT hydraulic studies etc.
- Explore the non-destructive testing.
- Visited and observed the plastic, rubber and polymer testing units.
- Explore the chemical testing facilities for ferrous alloys, non-ferrous alloys, lubricants, and minerals.
- In the electrical testing unit, students study the IP ratings, cold testing, dry heat testing, vibration testing, shock testing, salt spray testing etc..
- In calibration units, students studied and explored the calibration unit for electrical and electronic equipment like for RTD, thermocouples, and calibration of various measuring types of equipment.

#### **5. Benefits and Key Takeaways:**

- The visit to Kailtech Test and Research Centre provided several benefits, including:
- Enhanced understanding and perception of the test and calibration industry.
- Exposure to state-of-the-art technology and equipment used in the test and calibration industry.
- Insights into industry best practices.
- Valuable interactions with professionals in the field.
- Inspiration and motivation for future career prospects.

## 6. Acknowledgments:

We extend our gratitude to the management and staff of Kailtech Test and Research Centre for their warm welcome, knowledge-sharing, and assistance during our visit.

## 7. Conclusion:

The visit to Kailtech Test and Research Centre Pvt. Ltd. was an enriching experience, providing students with practical exposure and valuable insights. It was a vital step towards bridging the gap between academia and industry.

## Enclosures:

1. *The report Includes photographs.*
2. *Sample report submitted by the student.*
3. *Attendance of students visited.*

## Visit Coordinators:

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