



MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE
(Deemed to be University)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA



A Report on Industrial Visit to "STQC Directorate, Chennai"
Organised by **Department of Electronics & Communication Engineering**
on **07.09.2026**



Report Submitted by : Mr. G Charan Kumar, Assistant Professor, Department of ECE

Venue: STQC Directorate, ETDC Centre Chennai

Number of Students: 50 – III B.Tech ECE

Faculty/Staff Accompanying the Students:

1. **Dr. Anurag Kumar Pandey, Assistant Professor, Department of ECE**
2. **Mr. G Charan Kumar, Assistant Professor, Department of ECE**
3. **Mrs. S Ayesha Bhanu, Lab Technician, Department of ECE**

Mode of Conduct: Offline

Report Received on 11.09.2026.

1. Introduction

The Department of Electronics & Communication Engineering, MITS Deemed to be University, organized an industrial visit to the **Standardisation Testing and Quality Certification (STQC) Directorate, Chennai**, on **07.09.2026**. A total of **50 III B.Tech ECE students** participated in the visit along with two faculty members and one laboratory technician.

The primary objective of the visit was to provide students with practical exposure to testing, calibration, quality assurance, and measurement practices followed in professional laboratories. The visit also helped students understand how theoretical concepts studied in Electronics and Communication Engineering are applied in real-world testing and certification environments.

2. Objectives of the Visit

The major objectives of the industrial visit were:

- To provide practical exposure to professional testing and calibration laboratories.
- To familiarize students with quality assurance procedures followed in electronic and electrical testing.
- To understand the importance of accurate measurement and calibration of laboratory equipment.
- To expose students to temperature measurement and calibration techniques.
- To bridge the gap between theoretical knowledge and industrial practices.
- To create awareness among students about career opportunities in testing, calibration, quality assurance, and certification.

3. Areas Visited

During the visit, the students were taken through the following sections and laboratories:

Electro Technical Laboratory

The students visited the **Electro Technical Laboratory**, where they were introduced to various testing and measurement practices related to electrical and electronic equipment. Students gained an understanding of the importance of precision measurements, testing procedures, and maintaining measurement standards.

Quality Assurance Section

At the **Quality Assurance Section**, students were briefed on quality control and assurance practices followed for ensuring the reliability and conformity of products and equipment. The interaction helped students understand the role of testing and quality assurance in industrial environments.

Temperature CAL Laboratory

The students also visited the **Temperature Calibration (CAL) Laboratory**, where they were introduced to temperature measurement and calibration procedures. They learned about the importance of calibration in obtaining accurate and reliable measurements and the role of reference standards in maintaining measurement accuracy.

Equipment Laboratory

The **Equipment Laboratory** provided students with exposure to various testing and measurement equipment used for evaluating the performance and reliability of electronic and electrical systems. Students observed the practical operation and application of laboratory equipment and understood the importance of systematic testing procedures.

4. Interaction and Learning Experience

The students actively participated in the visit and showed considerable interest in understanding the functioning of various laboratories. The technical staff explained the testing, calibration, measurement, and quality assurance procedures followed at STQC.

The visit enabled students to relate their classroom learning in areas such as **electronic measurements, instrumentation, electrical and electronic testing, sensors, communication systems, and quality control** with actual industrial practices. Students also gained awareness of the importance of accuracy, traceability, standardization, calibration, and quality assurance in the electronics industry.

5. Outcomes of the Visit

The industrial visit provided the following outcomes:

- Students gained firsthand exposure to professional testing and calibration laboratories.
- They developed a better understanding of quality assurance and testing methodologies.
- Students learned the significance of calibration and measurement accuracy.
- They understood the practical applications of temperature measurement and calibration.
- The visit enhanced their awareness of industrial standards and professional laboratory practices.
- Students gained valuable knowledge about career opportunities in testing, calibration, quality assurance, and certification organizations.
- The visit strengthened the connection between academic learning and industrial applications.

6. Conclusion

The industrial visit to **STQC Directorate, Chennai, on 07.09.2026** was highly informative and beneficial for the **50 III B.Tech ECE students**. The exposure to the **Electro Technical Laboratory, Quality Assurance Section, Temperature Calibration Laboratory, and Equipment Laboratory** provided students with valuable practical knowledge about testing, calibration, measurement, and quality assurance practices.

The visit was successfully coordinated by **Mr. G Charan Kumar, Assistant Professor, Department of ECE**, with the support of **Dr. Anurag Kumar Pandey, Assistant Professor**, and **Mrs. S Ayesha Bhanu, Lab Technician**. The programme served as an effective platform for enhancing students' practical understanding and industry awareness.

Vote of Thanks

On behalf of the Department of Electronics and Communication Engineering, we express our heartfelt gratitude to the Management of **MITS Deemed to be University** for their constant encouragement and support in organizing the Industrial Visit to **STQC Directorate, Chennai**, for the III B.Tech ECE A students on 07.09.2026

We sincerely thank **Dr. C. Yuvaraj (I/c), Vice Chancellor**, for his visionary leadership and continuous motivation in promoting industry-oriented learning experiences for students.

We extend our sincere gratitude to **Dr. P. Pradeep Kumar, Registrar**, for his administrative support and encouragement in facilitating academic and industrial activities.

We express our heartfelt thanks to **Dr. P. Dipankar Roy, Dean, School of Engineering**, for his valuable guidance and encouragement in enhancing practical learning through industrial exposure.

Our sincere appreciation goes to **Dr. P. Ramanathan, Principal**, for his unwavering support and for providing the opportunity to organize this educational visit.

We are deeply grateful to **Dr. Sanjay Kumar C. Gowre, Professor and Head, Department of ECE**, for his constant guidance, motivation, and support in making this industrial visit a meaningful and successful learning experience.

Finally, we appreciate the enthusiastic participation and disciplined conduct of the III B.Tech ECE A students, whose active involvement contributed to the success of the industrial visit.