



NEW HORIZON
COLLEGE OF ENGINEERING

New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade, Accredited by NBA

DEPARTMENT OF MECHANICAL ENGINEERING

Industrial Visit Report

Company: TaeguTec India Pvt. Ltd.

Date of Visit: 23/04/2026

Location: TaeguTec India Pvt. Ltd. #120 Bommasandra Industrial Area, Phase 4/ Bangalore-560099, India.

Department: Mechanical Engineering

Attendees: 4th Semester Students

Accompanied by: Prof. Gowtham Raj R, Prof. Rameswari C

Duration: 01:00 PM - 04:00 PM

1. Objective of the Visit

The primary objective of the industrial visit was to provide students of New Horizon College of Engineering with practical exposure to advanced manufacturing processes used in the metal cutting and tooling industry. The visit aimed to help students understand real-world applications of machining, materials science, and precision engineering, along with insights into modern industrial practices and automation.

2. Company Overview

TaeguTec is a globally recognised manufacturer of cutting tools and industrial solutions and a part of the IMC Group. The company specialises in producing high-performance carbide cutting tools used in industries such as automotive, aerospace, and general engineering.

TaeguTec India focuses on delivering precision-engineered tools, innovative machining solutions, and advanced manufacturing technologies. The company is known for its emphasis on quality, productivity, and technological advancement in machining processes.

3. Key Areas of Focus During the Visit

a. Introduction to Taegu Tec

The visit began with an introductory session where company representatives explained the history, global presence, and operations of TaeguTec. Students were introduced to the importance of cutting tools in manufacturing and how they influence machining efficiency and product quality.

b. Overview of Manufacturing Process

Students were taken on a guided tour of the manufacturing facility, where they observed the following stages:

Raw Material Preparation:

Introduction to tungsten carbide powders and other materials used in tool manufacturing, including their composition and properties.

Powder Metallurgy Process:

Students observed how cutting tools are manufactured using powder metallurgy techniques, including pressing and sintering processes to achieve high strength and hardness.

Tool Shaping and Grinding:

Advanced CNC grinding machines were used to achieve precise geometries and cutting edges required for different machining operations.

Coating Process:

A demonstration of coating techniques such as PVD (Physical Vapour Deposition) was provided, which enhances tool life and performance.

Quality Control:

Students learned about strict inspection processes, including dimensional checks, hardness testing, and performance testing to ensure product reliability.

c. Automation and technology

The company showcased its use of CNC machines, robotics, and automated systems to improve productivity and maintain consistency in manufacturing. Students gained insight into Industry 4.0 practices and smart manufacturing techniques.

d. Research and Development

The R&D department demonstrated how new cutting tool designs are developed and tested. Engineers explained how tools are optimised for different materials and machining conditions, focusing on efficiency and durability.

4. Key Learnings

The industrial visit provided valuable insights into:

1. Application of Engineering Concepts:

Understanding how machining, thermodynamics, and materials science are applied in tool manufacturing.

2. Advanced Manufacturing Techniques:

Exposure to powder metallurgy, coating technologies, and CNC machining.

3. Importance of Precision Engineering:

Learning how accuracy and tolerances impact performance in industrial tools.

4. Role of Innovation:

Understanding how continuous R&D improves productivity and machining efficiency.

5. Student Feedback

Students found the visit highly informative and engaging. They appreciated the opportunity to witness advanced manufacturing processes and modern industrial practices. The exposure to cutting-edge technology enhanced their understanding of the machining industry and its real-world challenges.

6. Conclusion

The industrial visit to TaeguTec India Pvt. Ltd was a valuable learning experience that bridged the gap between theoretical knowledge and industrial application. It provided students with practical exposure to precision manufacturing, automation, and innovation in engineering. Such visits play a crucial role in preparing students for future careers in the manufacturing and engineering sectors.



Industrial Visit

Taegu Tec India Pvt. Ltd.
#120 Bommasandra Industrial Area,
Phase 4 / Bangalore-560099, India.



23rd April 2026



01:00 PM - 04:00 PM



4th Sem Students

Faculty Coordinators

Prof. Gowtham Raj R

Senior Assistant Professor-ME

Prof. Rameswari C

Assistant Professor-ME

Industrial Visit Coordinator

Dr. Nagabhushana N

Senior Assistant Professor-ME

Convenor

Dr. D V Sreekanth

HoD-ME

Dr. Manjunatha

Principal



Organised by

Department of Mechanical Engineering



Glimpse of the Industrial visit to TaeguTec India Pvt. Ltd