

# **INDUSTRIAL VISIT REPORT**

## **Government Tool Room and Training Centre**

**Date : 21-08-2024**

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**I would like to extend my heartfelt gratitude to GTTC for providing us with the opportunity to visit and learn from your esteemed organization. The insights and knowledge we gained during our visit have been invaluable and will greatly contribute to our academic and professional growth. I am also deeply thankful to my Polytechnic [S.J (Govt) Polytechnic] , for organizing this visit. Lastly, I would like to express my sincere thanks to Savitha Mam & Deepa Mam who facilitated and coordinated this visit. Thank you for your time, guidance, and hospitality.**

## **Purpose**

The purpose of the visit to GTTC was to provide students with a practical understanding of the industry and its operations. This visit aimed to bridge the gap between theoretical knowledge and real-world applications by exposing students to the latest technologies, processes, and practices used in the field. Overall, the visit was designed to enhance the educational experience and prepare students for their future careers.

## **Location**

The visit was on 21-08-24, at Bengaluru (Centre of Excellence) Rajajinagar Industrial Estate, Bengaluru.

## **Objective of the Visit**

- To provide students with firsthand experience and practical insights into the operations and functioning of GTTC.
- To expose students to the latest technologies and innovations being used in precision tooling and manufacturing
- To observe and understand the various industrial processes, technologies, and methodologies employed at GTTC.
- To bridge the gap between theoretical knowledge acquired in the classroom and its practical application in a real-world industrial setting.

## **History And Background Information**

The Government Tool Room & Training Centre (GTTC) is a renowned institution established in 1972 as a joint venture between the Government of Karnataka and the Government of Denmark (DANIDA). GTTC is an autonomous society, and a recognised Scientific and Research Organisation by the Government of India.

Government Tool Room and Training Centre (GTTC), is serving industry by way of precision tooling and providing in well trained craftsmen the

area of tool and die making. GTTC is concentrating on the Integrated Development of the related segments of industries by way of providing international quality tools, trained personnel and consultancy in tooling and related areas. To continuously improve the skills in Training, Develop Innovative Process to Optimise Product ionisation using Latest Facilities / Methodologies, Trends, Techniques to Meet all Stake Holder Needs and be the Leader.

### **Details Of The Visit**

- The visit to the Government Tool Room & Training Centre (GTTC) took place on 21-08-24, from 10:00 AM to 12:00 PM.

### **Observations**

The visit began with a warm welcome and an introductory session about GTTC, its history, and its mission. Students were given a comprehensive tour of the GTTC facilities, including the training workshops, CNC machining centers , and CAD/CAM labs. There were interactive sessions with GTTC professionals who explained the various processes and technologies used in precision tooling and manufacturing. We saw many machines like CAD/CAM Labs, IOT related Smart Homes, Computer Labs were also nice and even they showed us how blocks were separated according to their weights. And there were many labs where many big machines where there!! And even we saw how it works with raw materials for creating a finalized product. There was so many Raw materials in locked room.

### **Outcomes**

- **Technical Skills:** Gained hands-on experience with CNC machines, CAD/CAM software, and other advanced manufacturing technologies.
- **Process Knowledge:** Enhanced understanding of the entire manufacturing process, from design to production and quality control.

- **Industry Standards:** Learned about the standards and best practices in precision tooling and manufacturing.

## **Conclusion**

The visit to the Government Tool Room & Training Centre (GTTC) was an enriching and insightful experience. It provided a unique opportunity to bridge the gap between theoretical knowledge and practical application. The exposure to advanced technologies, hands-on activities, and interactions with industry professionals significantly enhanced our understanding of the precision tooling and manufacturing industry.

### **Overall Experience:**

- The visit was well-organized and informative, offering a comprehensive overview of GTTC's operations and facilities. The practical insights gained from observing and participating in various technical processes were invaluable. The opportunity to interact with skilled professionals and learn about industry standards and best practices was particularly beneficial.

## **Importance Of Educational Visits**

Visits like these are crucial for providing students with practical learning experiences that complement their academic studies. Such visits help students understand potential career paths and the skills required to succeed, aiding in their professional development.

Interacting with industry professionals and peers during these visits can lead to valuable networking opportunities and future collaborations.

In conclusion, the visit to GTTC was a highly beneficial experience that not only enhanced our technical knowledge and skills but also provided valuable insights into the industry, reinforcing the importance of practical learning in our educational journey.

## **Annexures**

### **Address:**

**Rajaji Nagar Industrial Town, Rajajinagar, Bengaluru, Karnataka 560023**

### **Photos**







