

DRDO – Hyderabad

Event Report: Industrial Visit to DRDO, Hyderabad

Institution: Amrita Sai Institute of Science & Technology (Autonomous)

Objective: Bridging Classroom Learning with Real-World Industry Exposure.

Date: 18th Febraury,2026

1. Visit Overview

Students from ASIST participated in a high-level industrial visit to the **Defense Research and Development Organisation (DRDO) in Hyderabad**. This visit was organized to provide students with practical insights into defense operations, cutting-edge technologies, and the rigorous professional practices required in national research facilities.



2. Educational Value

The visit served as a vital link for students to connect academic theories with real-world applications. By observing the working environment of a premier defense laboratory, students gained a deeper understanding of:

- **Industry Operations:** The lifecycle of research, development, and testing within the defense sector.
- **Professional Standards:** The discipline and precision required in high-stakes engineering environments.
- **Practical Context:** How classroom concepts in physics, chemistry, and engineering are scaled to build national infrastructure.

3. Technical Session Highlights

The visit included specialized technical sessions focused on aerospace and defense engineering. Students engaged in in-depth discussions on the following core areas:

- **Evolution of Missile Technology:** A historical and technical overview of how missile systems have been upgraded from early designs to modern-day precision-guided systems.
- **Rocket Mechanisms and Propulsion:** An analysis of the internal mechanisms of a missile rocket, detailing how various components work in tandem to achieve flight and stability.
- **Propulsion Chemistry:** A detailed look at the different types of fuels used in rocket engines, including the characteristics and performance requirements of solid and liquid propellants.

4. Conclusion and Impact

The exposure at DRDO Hyderabad has provided the students of ASIST with a unique perspective on the future of defense technology. This experience not only clarified complex technical concepts but also inspired students toward careers in research and development, emphasizing the importance of innovation in the modern industrial landscape.

Institutional Records:

- **Location:** DRDO, Hyderabad
- **Organizing Body:** Amrita Sai Institute of Science & Technology (ASIST)
- **Website:** www.amritasai.org.in