



RV Educational Institutions

RV Institute of Technology and Management®

Department of Electronics and Communication Engineering

Event Name	Industrial Visit to ISRO
Date	5 th December, 23
Venue	U R Rao Satellite Centre, ISRO, Bangalore
Audience	Faculties and PG students
Resource person	-

Objective of the Program:

1. **Educational Enrichment:** To provide students with practical insights into satellite technology and space missions.
2. **Industry Interaction:** To enable students to interact with professionals in the field of space research and understand their work environment.
3. **Inspiration:** To inspire and motivate students to pursue careers in space research and technology.

Topics Covered:

- Cutting edge areas of Electronics and Space Technology

Brief Report:

Introduction

The U R Rao Satellite Centre (URSC), located in Bangalore, Karnataka, is a premier facility of the Indian Space Research Organisation (ISRO) dedicated to the development and fabrication of satellite systems. The visit aimed to provide students with firsthand exposure to satellite technology, enhance their understanding of space missions, and inspire interest in the field of space research and technology.

Itinerary

1. Arrival and Welcome:

- Time: 9:00 AM

- Briefing by the URSC staff about the day's schedule and safety protocols.
- Introduction to the history and achievements of URSC.

2. Presentation on Satellite Technology:

- Time: 10:00 AM
- Detailed presentation on satellite design, development, and testing.
- Overview of the various types of satellites developed at URSC, including communication, weather, and remote sensing satellites.

3. Visit to the Satellite Assembly Area:

- Time: 11:00 AM
- Guided tour of the satellite assembly clean rooms.
- Explanation of the assembly process, integration, and testing phases.

4. Interaction with Scientists:

- Time: 12:00 PM
- Interactive session with senior scientists and engineers.
- Q&A session where students asked about the challenges and innovations in satellite technology.

5. Lunch Break:

- Time: 1:00 PM to 2:00 PM
- Provided at the URSC cafeteria.

6. Visit to the Testing Facilities:

- Time: 2:00 PM
- Tour of the environmental testing facilities where satellites are tested for space conditions.
- Demonstration of thermal vacuum testing, vibration testing, and acoustic testing.

7. Satellite Control Centre:

- Time: 3:00 PM
- Visit to the control room where satellites are monitored and controlled.
- Insight into mission planning, data acquisition, and real-time satellite operations.

8. **Conclusion and Feedback Session:**

- Time: 4:00 PM
- Feedback session where students shared their experiences.
- Distribution of informational brochures and souvenirs.

Observations and Learning Outcomes

- **Technical Knowledge:** Students gained a comprehensive understanding of satellite development processes, including design, assembly, and testing.
- **Real-world Applications:** Exposure to real-world applications of theoretical concepts learned in the classroom.
- **Innovation and Research:** Insight into the latest innovations and ongoing research in satellite technology.
- **Career Inspiration:** Interaction with industry professionals inspired many students to consider careers in space research and technology.



Faculty Coordinators with 5thsem Students at ISRO, Bangalore



Faculty Coordinators with 5thsem Students at Main Gate, ISRO, Bangalore

Coordinator Signature

HOD'sSignature