



ATHARVA EDUCATIONAL TRUST'S
ATHARVA COLLEGE OF ENGINEERING

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Report on Industry Visit

Department of Humanities and Applied Sciences

Introduction

On 24/01/2024, a group of 81 students from the Humanities of Applied Sciences Department of Atharva College of Engineering embarked on an industrial visit to the U R Rao Satellite Centre Bengaluru. The visit to the U R Rao Satellite Centre (URSC) was an enlightening experience, providing a deep insight into the satellite design, development, and testing processes.

Objectives:

The primary objectives of the industrial visit were:

To Gain Practical Exposure:

To provide students with practical exposure to the field of satellite technology and space research.

To Understand Industrial Processes:

To familiarize students with the various stages involved in satellite design, development, and testing.

To Explore Career Opportunities:

To expose students to potential career opportunities in the field of satellite technology and space research.

To Observe Technology and Innovation:

To showcase the advanced technologies and innovative practices employed at URSC.

To Develop Professional Networking:

To facilitate networking opportunities for students with professionals from the satellite industry.

To Inspire and Motivate:

To inspire and motivate students by showcasing the achievements and advancements made by URSC in the field of satellite technology

Visit Highlights:

Established in 1972, URSC has played a pivotal role in satellite technology, making significant contributions to India's space program. The center is responsible for the design, development, and integration of satellites for various purposes, including communication, Earth observation, and navigation.

a. Satellite Assembly and Integration Area

The visit commenced with a tour of the satellite assembly and integration area. Witnessing the meticulous processes involved in assembling and integrating satellite components was impressive.

b. Satellite Testing Facilities

URSC boasts state-of-the-art testing facilities to simulate the harsh conditions of space. The Thermal Vacuum Chamber, Vibration Test Facility, and Acoustic Test Facility were particularly noteworthy.

c. Payload Development Section

The Payload Development Section showcased the advanced technologies employed in developing instruments for Earth observation satellites.

d. Interaction with URSC Engineers and Scientists

One of the highlights of the visit was the opportunity to interact with the talented engineers and scientists at URSC. Their in-depth knowledge, passion for space technology, and commitment to excellence were evident.

e. Notable Projects

During the visit, Students gained insights into some of URSC's notable projects, including the NavIC navigation system, the Cartosat series of Earth observation satellites, and the GSAT series of communication satellites.

Key Learnings:

- Understanding of the intricacies involved in satellite design and development..
- Importance of space technology in addressing real-world challenges
- The future of space exploration and satellite-based services.
- Students experienced real-world applications of satellite technology during the visit.

Conclusion:

The industrial visit to U R Rao Satellite Centre was an enriching experience for the students. It provided them with a firsthand glimpse into the world of satellite technology and space research. Witnessing the cutting-edge facilities and interacting with professionals from the field broadened their knowledge and sparked their interest in the space industry. This visit served as a bridge between theoretical learning and practical applications, inspiring the students to explore future career opportunities in the field of satellite technology

Photo Gallery:



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