

A Report on One day Industrial Visit

Place of Visit:

U R Rao Satellite Centre (URSC)

Old Airport Road

Vimanapura Post, Bengaluru - 560 017

Karnataka, India.

Date: 24-07-2024

Organized by Department of CSE & ISE,

APS College of Engineering.

Report on Industrial Visit:

Resource Person: Mr. Santosh

Senior Scientist, ISRO Bengaluru.

Mrs. Sowmya

Senior Scientist, ISRO Bengaluru.

No of students Visited: 108

Classes and section: 4th SEM CSE and 4th SEM ISE

- Students were introduced to different types of rockets & satellites developed till now at ISRO and informed about different centres of ISRO all over India & their purpose.
- Scientists explained the various features of the rockets. Next, there were the models of satellites including the oldest Apple satellites and the later satellites with solar panels, solar sail and minor rockets present on the satellites for adjusting their positions in space. The reason for gold color coating on the satellites for handling extremes of temperature was explained. Two types of satellites were described: Indian Remote Sensing Satellites and Communication Satellites. Remote sensing satellites are useful in activities like fishing (identifying places in the sea where fish can be found) and warnings about cyclones. During cyclone Hudhud, damage to human life was made minimal due to warnings.
- Then, we were shown the different electronic components used in satellites. The components need to be very sturdy. Currently, they are therefore imported and very expensive. The use of aluminium honey comb material for body parts was demonstrated. These parts are light and yet very strong.
- Next, we witnessed a “clean room” where satellite is assembled. A satellite in space faces extremes of temperature such as -120 degrees to +120 degrees Celsius. We were taken to a room where there is a chamber for testing this. The chamber gets liquid nitrogen for testing against low temperature and similarly testing hot temperature. Only after thorough testing, satellite is taken by road to the launching pad at Sriharikota.

List of Faculty Members Visited:

Faculty Members List	
1.	Dr. Mithun B N
2.	Dr. Krushitha Shetty
3.	Prof. Vinaya D S
4.	Prof. Gadug Sudhamshu

Outcome of the Event:

- Gained knowledge of application of remote sensing in agriculture, weather monitoring, disaster recovery etc.
- Gained knowledge about Chandrayaan-3, PSLV and GSLV.
- Gained knowledge about TV broadcast mechanism with the help of demo model.
- Gained knowledge about different Satellites.

Photos of the Event:



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PRINCIPAL