

Department of Master of Computer Applications

Industrial Visit
to

ISRO



Coordinator:

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30 April 2024



11 AM



ISRO, U R Rao Satellite Centre,
Bangalore

Department of MCA

REPORT ON INDUSTRIAL VISIT TO ISRO

Date: 30th April 2024

Time: 11.00 am to 12.30 pm

Class: I SEM A, B & C section

No of students: 100

Objective:

- To make students understand about research opportunities at ISRO
- To create awareness in the space technology and applications.
- To make students understand, job and internship opportunities at ISRO
- To provide the students with an insight to the internal working of an organization,
- To enhance student's knowledge on advance technology.

About Industrial Visit:

On 30th April 2024, an Industrial visit to ISRO was organized by the department of MCA to enhance student's knowledge on advance technology and applications. It was a half day visit by around 100 students along with 4 faculty members.

ISRO U R Rao Satellite Centre (URSC) is responsible for design, development, assembly and integration of communication, navigation, remote sensing and satellite missions. ISRO is committed to encourage students in creating awareness in the space technology and applications.

For the benefits of students there is a space exhibition center at URSC. Students were able to see the exhibition. It includes the models of ARYABHATT, APPLE and INSAT series etc. In the two types of satellites- Remote Sensing and communication satellite, IRS-1A was the first remote sensing mission undertaken by ISRO.

Various models of satellites are displayed including the oldest Apple satellites and the iterated versions of 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. The use of aluminum honey comb material for body parts was explained. A "clean room" where satellite is assembled was shown to students.

The concept for assembling of satellites was shown to us via video presentation. Currently scientists were working on CHANDRAYAAN 3. A video depicting the moon mission of CHANDRAYAAN 3 was also displayed. A working model was demonstrated on the video. Various images of several countries (including India) taken at different angles from the satellites were seen. Different electronic devices used in satellites were explained. And students got to know their own weight on different planets (Mars, Moon, Earth etc.).

At last, Mentor answered many of the doubts which students had about satellite launching. Students also gained knowledge about how television signals are broadcast with the help of satellites. Also the mentor explained the procedure to get job in ISRO.

Outcome:

- Students learned about the different electronic components used in satellites.
- They understood the types of satellites and its use in various fields.
- They came to know about the upcoming project of ISRO.
- They understood about various job opportunities and research opportunities at ISRO.
- The students were able to understand the importance being updated with the latest technological.



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