

Department of Electronics and Communication Engineering,

Report on Industrial visit to ISRO

A one day Industrial visit to Indian space Research Organization (ISRO), Bangalore was organized by Department of Electronics and Communication on 4th September 2017. It was a half day visit by 37 students of 5th semester along with 2 faculty members.

ISRO Satellite Centre (ISAC) is the lead center of the Indian Space Research Organization (ISRO) responsible for design, development, assembly & integration of communication, navigation, remote sensing, scientific and small satellite missions. For the benefit of students there is a space exhibition center at ISAC. Our students were able to see the exhibition. Scientist Mr. H L Srinivasa explained each and every display unit kept for the exhibition. It includes the models of the first Indian satellite Aryabhata, APPLE, INSAT series etc. Satellites are basically of two types- Indian Remote Sensing (IRS) satellites and communication satellites. IRS-1A was the first remote sensing mission undertaken by the Indian Space Research Organization (ISRO). It was a part-operational, part-experimental mission to develop Indian expertise in satellite imagery.



Students also gained knowledge about how television signals are broadcasted with the help of satellites. A working model was demonstrated. Various images of India taken at different angles from the satellites, for the purpose of geographical/weather study were seen. Latest images of moon obtained from satellite was also shown. Different electronic devices used in satellite and space communication were explained.

The 'clean room' concept for assembling of satellites were shown to us. Currently scientists were working on Chandrayana 2 which will be launching in 2018. According to Mr. Srinivas, A robot will also be sent along with chandrayana 2 for remote sensing and surveying. It was a great experience for the students. A video depicting the moon mission of 'Chandraayan' was also displayed. At last, Scientists answered many of the doubts which students had about satellite launching.

The Industrial Visit was a great benefit for the students to directly understand about the various concepts of satellite and space missions done by ISRO.

- Mr. Bhanuteja G and Ms. Kripa. K B

