



Gandhinagar Institute of Technology
Computer Engineering & Information Technology Department
A Report on
“Visit to BISAG-N, Gandhinagar”
(05th May 2023)

Objective:

The objective of this visit was to make the students aware about the technologies used in the domain of Satellite communication and remote sensing applications, geo-informatics, and geo-spatial technologies.

About Visit:

Bhaskaracharya National Institute for Space Applications and Geo-informatics {BISAG-N} is an Autonomous Scientific Society registered under the Societies Registration Act, 1860 under the MeitY, Government of India to undertake technology development & management, research & development, facilitate National & International cooperation, capacity building and support technology transfer & entrepreneurship development in area of geo-spatial technology. BISAG-N has three main domain areas: Satellite Communication, Geo-informatics, and Geo-spatial technology.

The Institute works in close co-ordination with Government of India Ministries and State Government departments/agencies and has thus emerged as a national level agency to use satellite communication and Space & Geo-spatial technologies for the planning and development activities in various sectors of the Government.

This visit provided a valuable platform to students to understand the concepts of Satellite Communication, Geo-informatics, and Geo-spatial technology. Dr. Nisha Khurana organized this visit and Prof. Prakash Patel & Prof. Drashti Darji accompanied 44 students from Sem-2 of Computer Engineering, Information Technology department, Gandhinagar Institute of Technology to the company. Students from Sem 2 of B.Sc. IT also visited the BISAG.

In the first phase, the students were taken to the broadcasting room, where they were explained that how the live telecasting happens. They were also explained about the live courses which are run by government on different channels. Students were also educated about the shooting and telecasting of the courses on Vande Bharat channel.

In second phase, students were explained about Satellite communication and how images are broadcasted, interpretation of images and image processing techniques. Live model demonstration was also given to the students where the model showed the earth with the revolving satellites around the earth. How these satellites work, their revolution speed around the earth and their revolution axis were also explained. Indeed, it was a very fruitful visit for the students and they learned about satellite communication enthusiastically.

A Few Glimpses of the Event:



Students in an interaction



With GPS Tag



Interaction about the broadcasting



Interaction about Satellite communication