

DEPARTMENT OF CIVIL ENGINEERING

Date: 06-8-2019

A REPORT ON INDUSTRIAL VISIT TO NATIONAL REMOTE SENSING CENTER (NRSC) OUTREACH FACILITY

Jeedimetla, Medchal Dist

An Industrial Visit was organized by the department of Civil Engineering to NRSC Outreach Facility at Jeedimetla Medchal Dist. The purpose of this visit is to earn practical knowledge on the use of Remote Sensing in various fields in Modern World.

National Remote Sensing Centre (NRSC) is one of the primary centres of Indian Space Research Organisation (ISRO), Department of Space (DOS). NRSC has the mandate for establishment of ground stations for receiving satellite data, generation of data products, dissemination to the users, development of techniques for remote sensing applications including disaster management support, geospatial services for good governance and capacity building for professionals, faculty and students.

NRSC operates through multiple campuses to meet national and regional remote sensing data and applications needs of the country.

- Main Campus at Balanagar, Hyderabad for Administration, Remote Sensing Applications and Aerial Services
- The Campus at Shadnagar for Satellite Data Reception, Data Processing and Dissemination, Earth and Climate Studies and Disaster Management Support
- Five Regional Centres at Sector 9, KBHB in Jodhpur (Regional Centre-West), Sadhiknagar at New Delhi (Regional Centre-North), New Salt Lake City in Kolkata (Regional Centre-East), Amaravathy Road in Nagpur (Regional Centre-Central), Karthik Nagar in Bangalore (Regional Centre-South) for promoting remote sensing applications for various states.
- Outreach facility at Jeedimetla in Hyderabad for providing training for professionals, faculty and students and for general outreach.
- Aircraft operations facility at Begumpet Airport, Hyderabad

The Centre was the best source for gaining knowledge to students in terms of remote sensing satellite data acquisition and processing, data dissemination, aerial remote sensing and decision support for disaster management. It also has a data reception station at Shadnagar near Hyderabad for acquiring data from Indian remote sensing satellites as well as others.

Mr I V Ramana S.E. had given the permission for this visit. Mr Ramana and Dr. Rajashree Bothale welcomed the students and the faculty member; they have given outline brief explanation about organization and their Importance in serving the Nation.

The students were taken to Seminar hall in which a session was conducted with some videos about ISRO under which their working. Where a brief explanation was given about the parts of the satellite, manufacturing, assembling, application, control. The session has also included with reason behind the formation ISRO, wings of ISRO, Vision, and Mission of it. Coming to the remote sensing where the students have gained knowledge about types of sensors and their uses, application, installation, working principles of sensors etc... The faculty team explained how the data is acquired, processed, stored in the centre, and also made the students to go through the physical models available in the centre and the exhibition gallery. The students also learned about photogrammetric surveying and its use in civil engineering.

At the outset, 41 students from IV Year Civil Engineering were accompanied with Mr Ch.Pavan kumar, Asst Professor in Civil Engineering Department. The students were happy and they got the practical Exposure about remote sensing, GIS, GPS.

At last, the faculty and students thanked the team for their support and efforts made by them in explaining the various things.



IV Year Civil Engineering Students and Faculty Mr CH.Pavan Kumar with Mr I V Ramana - SE and Dr.Rajashree Bothale-GM

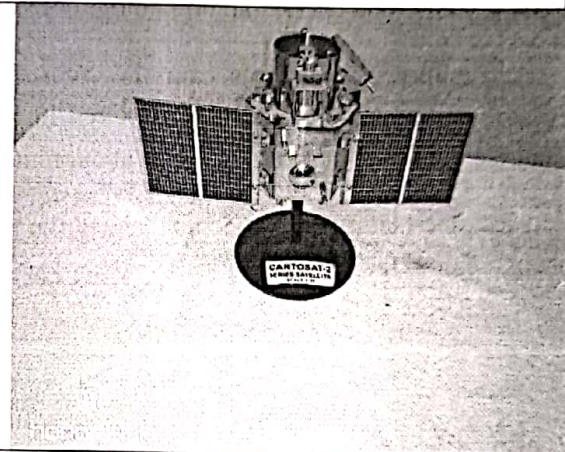
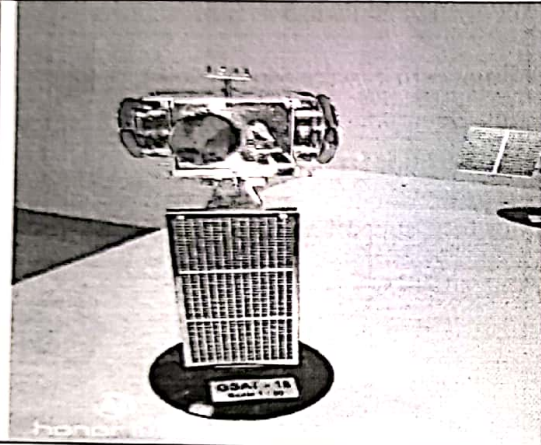


Students observing the satellite images with 3d glasses



Dr. Rajashree Explaining about components used in sensors through physical models.

PHOTO GALLERY



Images showing the details of different sensors used in satellites



Dr. Rajashree Explaining about Images taken through different sensors.



Students attending to the presentation conducted by I V Ramana

G. S. Rao

HOD - CE

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