

## DEPARTMENT OF DATA SCIENCE

Date: 26-09-2025

**Academic Year:** 2025-2026

**Activity:** One Day “**Industrial Visit**”- National Geophysical research Institute (NGRI), Hyderabad

### **Consolidated Report**

The Department of Data Science organized an industrial visit to the National Geophysical research Institute (NGRI), Hyderabad, on 26<sup>th</sup> September 2025. The visit was planned as part of the academic curriculum enrichment program to provide students with practical exposure to real-world applications of Information Technology in mission to carry out research in multidisciplinary areas of the highly complex structure and processes of the Earth system and its extensively interlinked subsystems.

A total of 71 III-Year CSD students and 2 faculty members, along with the coordinator, actively participated in this educational tour.

### **Objectives:**

The main objectives of the industrial visit were:

- To gain insights into the functioning and research activities of NGRI.
- To understand the Complex Structure of Earth System.
- To bridge the gap between classroom learning and industry practices.
- To expose students to emerging technologies in space research and data analytics.

## **Activities During the Visit:**

### **1. Orientation Session:**

Officials at NGRI welcomed the students and gave an introduction.

### **2. Presentation & Demonstration:**

- Students attended a technical session where experts explained:
- Geodynamics, which revolve round investigating and modeling fundamental aspects of the Earth system and processes, Earthquake Hazards, which encompass features on the surface and subsurface of crust which may potentially endanger lives and properties through catastrophes like earthquakes and landslides as well as deterioration in pollution levels of groundwater and soil, changes in climatic conditions and associated environmental issues.
- The theme Natural Resources comprise of implementation of techniques to identify primary geo-resources, which are the pillars of human civilization and fount of economic growth like groundwater, hydrocarbons as well as alternate energy sources and minerals. IT infrastructure used in handling large-scale spatial data.



### 3. Extension building Visit:

Students visited different buildings to observe the use of advanced technologies in image processing, GIS systems, and satellite communication.





## Outcome:

The visit proved to be highly informative and inspiring. Students gained knowledge beyond textbooks, understood real-world IT applications, and were motivated to align their career paths toward innovative technologies in space research, data science, and remote sensing.

## Conclusion:

The industrial visit to NGRI, Hyderabad, on 26<sup>th</sup> September 2025 was a successful and enriching experience for the IV-Year DS Students of NNRG. The Department of Data Science extends heartfelt thanks to NGRI officials for their valuable time and guidance.

Such visits not only enhance technical knowledge but also inspire students to contribute to India's growth in the field of technology and space research.



**Students and Staff Group Photo with NGRI Team.**





**Students and Staff Group Photo at NGRI**

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**FACULTY COORDINATOR**

*Vidhu*

**HEAD-CSD**