



# GLOBAL INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE & Affiliated to JNTUH)

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JNTUH Code(U6) CIVIL – CSE – MECH – ECE – EEE – MBA – M.Tech. EAMCET Code– GLOB

## Department of Civil Engineering

### REPORT OF TECHNICAL VISIT

#### National Geophysical Research Institute

Uppal Road, Habsiguda, Hyderabad, Telangana 500007

Visit Date: 14/02/2017

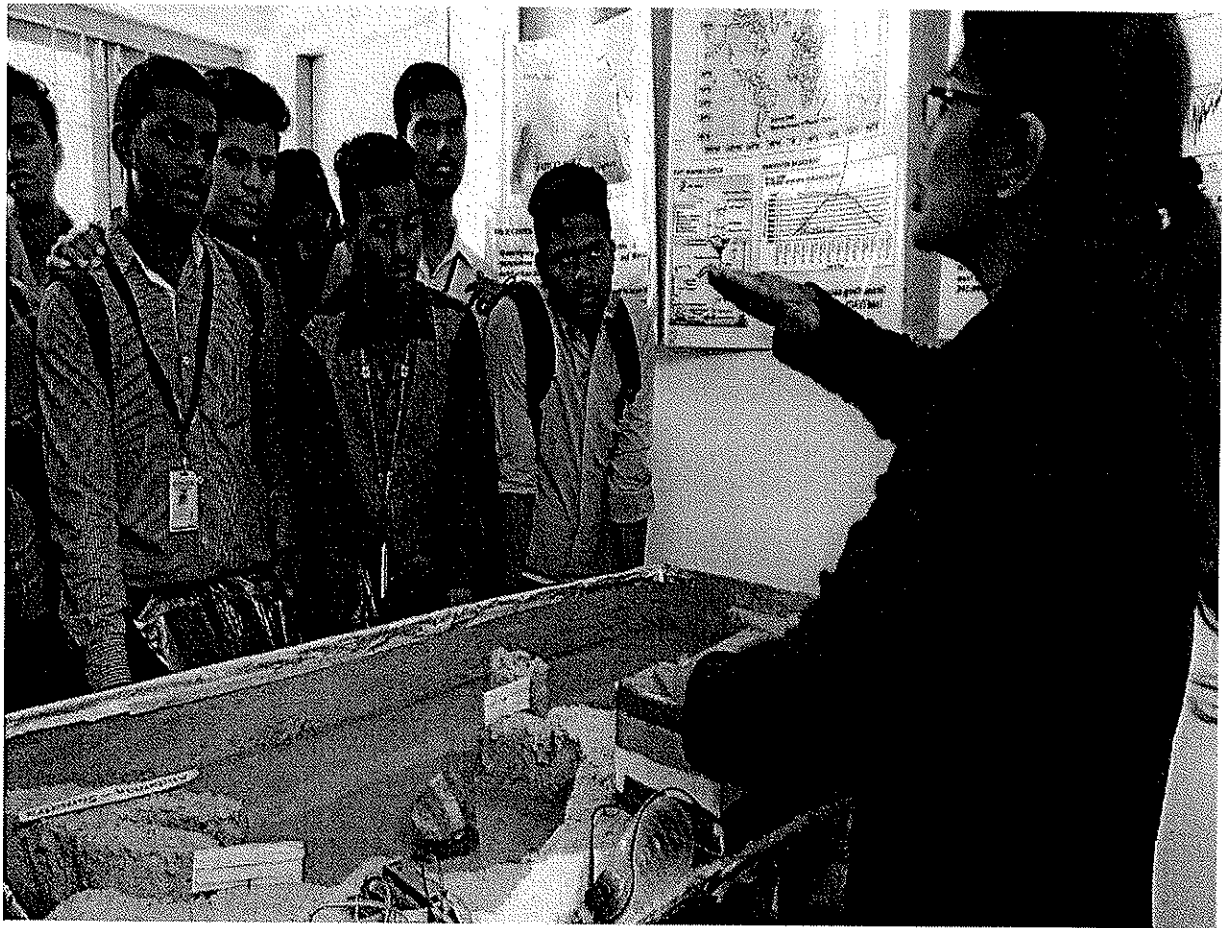
Established in 1961, CSIR-NGRI has made an indelible mark on the geoscience landscape in India through its research and innovation by dedicated scientists.



NGRI has several contributions on understanding of the knowledge about the Earth's structure, dynamics and resources.

Students were introduced interdisciplinary geoscientific exploration, to address challenges of water, energy and geological hazards.

Students had the opportunity to meet officials who initiated paradigm change driven science to mission mode projects, which are based on inspired research approach i.e. seeking answer for fundamental scientific issues, and finding science solutions aimed at immediate use for society.





**Students were given a deep insight of**

The research activities investigating and modeling fundamental aspects of the Earth system and processes at NGRI

*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.

Institute's modern computational and analytical facilities

State-of-the-art field geophysical equipments, which enable scientists to design experiments, test hypotheses and validate them, in order to explore earth's interior, particularly the Indian subcontinent.

### **Students were explained about**

The crisis arising due to ever decreasing availability vs. increasing demand for water, energy and minerals and growing concern about geohazards and potential catastrophes, obviously place earth science research at the forefront of human enquiry.

- 1) A close explanation was given on Earth processes and its intersections with the growth and development of the human society.
- 2) Strategies to minimize loss of life and property from natural disaster as well as manage water, energy, and mineral resources for enhancing the quality of life.
- 3) NGRI mandate to conduct research for public-good science to enable government agencies, public and private sector stakeholders to make informed decisions about use of geo-resources sustainably and improve preparedness and resilience to natural hazards.



HEAD

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