

### ACTIVITY-3

#### Field Visit to Indian Meteorological Department , Kurnool on 26.10.2024

|                                     |                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------|
| <b>Name of the Activity</b>         | <i>Field Visit to IMD, Kurnool</i>                                              |
| <b>Date &amp; Time</b>              | <i>26.10.2024</i>                                                               |
| <b>Name of the Resource Persons</b> | <i>C.Prabhakar<br/>Officer in-charge<br/>Meteorological observatory,Kurnool</i> |
| <b>No. of Staff attended</b>        | <i>5</i>                                                                        |
| <b>No. of Students attended</b>     | <i>11</i>                                                                       |

#### Objectives of Field Visit:

The main Objectives are:

**Insight into Weather Forecasting Processes:** The visit allows students to understand how weather data is collected, processed, and interpreted to produce accurate weather forecasts, including short-term and long-term forecasts, monsoon predictions, and extreme weather alerts

**Climate Science Education:** The visit provides an understanding of larger climate-related issues, such as global warming, climate change, and its impact on agriculture, ecosystems, and human health, helping students link weather phenomena with broader environmental concerns.

**Exposure to Career Opportunities:** Meeting professional meteorologists, climate scientists, and other IMD staff can inspire students and provide guidance on potential career paths in meteorology, atmospheric sciences, environmental science, or data analysis.

**Increased Awareness of IMD's Role in Society:** The IMD plays a critical role in agriculture, aviation, disaster management, and public health. The visit helps students appreciate the department's contributions to society and national development.

#### Outcome :

##### 1.Academic and Theoretical Understanding

- **Enhanced Knowledge:** Improved understanding of meteorological concepts, weather patterns, and the role of IMD in climate science.

- **Insight into Forecasting Models:** Awareness of the processes and tools used for weather forecasting and climate prediction.
- **Case Studies Learning:** Analysis of real-world weather events like cyclones, floods, and droughts and how IMD monitors and predicts them.

## 2. Practical Exposure

- **Hands-On Experience:** Exposure to meteorological equipment like automatic weather stations, Doppler radars, and satellite data systems.
- **Operational Understanding:** Familiarity with data collection, analysis, and interpretation processes used in meteorology.
- **Application of Technology:** Insight into how satellite imagery and software are used for weather prediction and early warnings.

## 3. Professional Development

- **Skill Enhancement:** Improved analytical skills, critical thinking, and understanding of atmospheric systems.
- **Career Insights:** Awareness of career opportunities in meteorology, disaster management, and related fields.





## FIELD VISIT GALLERY

**Brief Report:** The Departments of Physics organized a Field Visit to Indian Meteorological department, Kurnool of 26.10.2024. 24 students are accompanied by five staff members from GDC, Nandikotkur to Kurnool. The students explore with all the forecasting instruments which are very well explained by the officer in-charge , Sri C Prabhakar .