



**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
(Approved by AICTE, Permanently Affiliated to JNT University Kakinada,  
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Tamaram, Makavarapalem, Narsipatnam Revenue Division, Visakhapatnam-531113

**COLLABORATIVE INDUSTRIAL VISITS OF AIET**

**ACADEMIC YEAR**

**2018-19**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

| S No | Name of Collaborating Institute/Organisation                    | Batch/Class                | Date       | Number of students visited |
|------|---|----------------------------|------------|----------------------------|
| 1    | Cyclone Warning Centre and Doppler Radar Station, Visakhapatnam | IV B.Tech<br>ECE-2Students | 20.09.2018 | 119                        |

HOD,ECE



*[Signature]*  
HEAD OF THE DEPARTMENT  
DEPARTMENT OF ECE  
Avanthi Institute of Engg.&Tech.  
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T.p.Naidu  
Coordinator

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Avanthi Institute of Engg. & Technology  
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# REPORT ON INDUSTRIAL VISIT

**Year:** IV<sup>th</sup> B.Tech -B

**Date:** 20-09-2018

**Name of the industrial visit:** CYCLONE WARNING AND DOPPLER WEATHER RADAR STATION,  
VISAKHAPATNAM

**Name of the Faculty:** T.P Naidu

**EVENT DESCRIPTION:** An industrial visit has been organized by department of Electronics and communication Engineering for IV<sup>th</sup>-year II semester students on 04<sup>th</sup> January 2018.

The main objective of the visit was to provide a technical exposure to the students about the Realtime weather forecasting and predictive analysis based on radar graphs. Total 60 students of IV-year Electronics and communication engineering visited Doppler weather radar station at Visakhapatnam.

**SESSION ACTIVITIES:** The students were accompanied by 2 faculty members. The buses with students have started from our college at 09.00 AM on 4<sup>th</sup> January 2018 and reached the by Doppler weather radar station at Visakhapatnam 10:45 AM.

## **ABOUT DOPPLER WEATHER RADAR STATION, VISAKHAPATNAM:**

Doppler Weather Radar Station is a Weather forecast service located at Hills, Kailasagiri Ghat Rd, Kailasagiri, Visakhapatnam, Andhra Pradesh 530043, IN. The business is listed under weather forecast service, observatory category. It has received 183 reviews with an average rating of 4.2 stars. Doppler Weather Radar Station is listed under

- Weather forecast service
- Observatory

## **ABOUT THE VISIT**

This visit was mainly focused on to make important refinements to software and hardware technologies associated with Doppler radar that enhanced the use of these radars for both research and operational purposes., meteorologists see or detect near-ground wind shears, which are dangerous to aircraft. Doppler radar technology also enables meteorologists to forecast the location and severity of weather with greater accuracy, which has resulted in improved public safety and, in some cases, lives saved.

## **OUTCOME OF THE VISIT**

The Doppler weather radar, used for the severity of cyclones and to analyse the impact on the living areas of peoples by analysing the cyclone eye size. Also, detection of obstacles and provide the guidance of aircrafts during night landing. Doppler radar provides the prediction of wind directions and analyse the prior information on Realtime upcoming temperature and humidity in atmosphere etc.,



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