



# RAMACHANDRA COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to JNTUK: Kakinada)  
NH-5 Bypass Road, Vatluru (V), ELURU – 534 007, A. P.

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## Industrial Tour Report

**Organized by** : Ramachandra College of Engineering  
**Name of the Station** : Cyclone Detection Radar Station  
India Metrological Department  
Government of India  
**Location** : Machilipatnam  
Krishna Dist A.P.  
**Date & Time** : 04.01.2017 at 10.30AM

Branch	Year	Semester	No of Students Attended
ECE-A	III	II	12 Boys+ 23 Girls
ECE-B	III	II	09 Boys +14 Girls
ECE-C	III	II	12 Boys +18 Girls
<b>Total No of Students Attended</b>			<b>88</b>

### About Radar Station

- The Machilipatnam Cyclone Detection Radar Station consisting of mainly three blocks.
  - 1.Remote Sensing & Radar Wind (RS/RW) Block
  - 2.Trans Receiver Block
  - 3.Measuring Weather Report Module Blocks
- In RS/RW Block: It aims for regular diagnosis of weather moisture, wind speed, temperature, humidity and sun rise & sun shine.
- The second block contains an Actual Radar operated with a Doppler effect, consist of four blocks
  - 1.Transmitter chamber
  - 2.Six cavity klystron
  3. Receiver chamber
  4. Control unit
- The Third block consisting of different types of Thermo meters (Mercury and alcohol) to measure temperature min and max and average of the day and also the status of rain fall by using the rain gauge and Atmospheric pressure using Barometer etc to evaluate different parameters of the atmosphere by using respective physical devices.

### Report

#### 1. Report in brief by Organizer / Coordinator / Convener:

The tour is planned on 04-01-2017 after receiving permission letter from Radar Station on 2<sup>nd</sup> january 2017. We reached there by 10.30 AM and had a very detailed explanation from the department staff about each and every part of the Radar station and the equipment used to evaluate the different parameters of the weather like temperature, humidity, atmospheric pressure, rain, wind speed, wind direction etc.

We have spent there for almost four hours to know about the complete units and we returned from there by 2.30 PM.

The tour is very useful for the third year students they have Radar Systems course in the next semester.

All the students are very happy after watching the real equipment which they are listening in the class room.

## 2. Photos





**3. Feedback from students:**

- Your overall experience: Excellent
- The comprehensiveness, clarity and accuracy of the information provided on Radar Station: Excellent
- Radar Station representative's knowledge, cooperation and level of assistance: Excellent
- The transportation vehicle: Good
- Trip safety: Good
- This trip in terms of value for money: Good
- Guide's enthusiasm: Excellent
- Guide's knowledge: Excellent
- Guide's Communication: Excellent

**4. Remarks from Resource Person:**

- The students are showing very anxious to know about the equipment and their operation.
- All are very much disciplined in their behaviour.
- We feel Very happy in receiving and giving information about our plant.
- The Staff members who accompanied them also very co-operative to us.